

Plant Tonasa
Line Tonasa V
Project .. Tonasa V, 09-45231 v.1.0

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Revision Customer A2
Initials..... cml

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Chapter

Interconnection Diagrams 01

101JB100X01
Junction Box

Block		Term:	Signal:		Component:
01	X05.02.A	01	531BI01N01L01		531BI01N01
02	X05.02.A	01+	+24 VDC		531BI01N01
33	X05.02.A	01-			
03	X05.02.A	02	531BI04N01L01		531BI04N01
04	X05.02.A	02+	+24 VDC		531BI04N01
34	X05.02.A	02-			
05	X05.02.A	03	531BI02N01L01		531BI02N01
06	X05.02.A	03+	+24 VDC		531BI02N01
35	X05.02.A	03-			
07	X05.02.A	04	531BI03N01L01		531BI03N01
08	X05.02.A	04+	+24 VDC		531BI03N01
36	X05.02.A	04-			
09	X05.02.A	05			
10	X05.02.A	05+			
37	X05.02.A	05-			
11	X05.02.A	06			
12	X05.02.A	06+			
38	X05.02.A	06-			
13	X05.02.A	07			
14	X05.02.A	07+			
39	X05.02.A	07-			
15	X05.02.A	08			
16	X05.02.A	08+			
40	X05.02.A	08-			
17	X05.02.A	09			
18	X05.02.A	09+			
41	X05.02.A	09-			
19	X05.02.A	10			
20	X05.02.A	10+			
42	X05.02.A	10-			
21	X05.02.A	11			
22	X05.02.A	11+			
43	X05.02.A	11-			
23	X05.02.A	12			
24	X05.02.A	12+			
44	X05.02.A	12-			
25	X05.02.A	13			
26	X05.02.A	13+			
45	X05.02.A	13-			
27	X05.02.A	14			
28	X05.02.A	14+			
46	X05.02.A	14-			
29	X05.02.A	15			
30	X05.02.A	15+			
47	X05.02.A	15-			
31	X05.02.A	16			
32	X05.02.A	16+			
48	X05.02.A	16-			

49	17	.	.	.
50	17-	.	.	.
51	18	.	.	.
52	18-	.	.	.
53	19	.	.	.
54	19-	.	.	.
55	20	.	.	.
56	20-	.	.	.

530LG01A04
PLC IO-Cabinet ER-52A

Block		Term:
01	X05.02.A	01
02	X05.02.A	01+
33	X05.02.A	01-
03	X05.02.A	02
04	X05.02.A	02+
34	X05.02.A	02-
05	X05.02.A	03
06	X05.02.A	03+
35	X05.02.A	03-
07	X05.02.A	04
08	X05.02.A	04+
36	X05.02.A	04-
09	X05.02.A	05
10	X05.02.A	05+
37	X05.02.A	05-
11	X05.02.A	06
12	X05.02.A	06+
38	X05.02.A	06-
13	X05.02.A	07
14	X05.02.A	07+
39	X05.02.A	07-
15	X05.02.A	08
16	X05.02.A	08+
40	X05.02.A	08-
17	X05.02.A	09
18	X05.02.A	09+
41	X05.02.A	09-
19	X05.02.A	10
20	X05.02.A	10+
42	X05.02.A	10-
21	X05.02.A	11
22	X05.02.A	11+
43	X05.02.A	11-
23	X05.02.A	12
24	X05.02.A	12+
44	X05.02.A	12-
25	X05.02.A	13
26	X05.02.A	13+
45	X05.02.A	13-
27	X05.02.A	14
28	X05.02.A	14+
46	X05.02.A	14-
29	X05.02.A	15
30	X05.02.A	15+
47	X05.02.A	15-
31	X05.02.A	16
32	X05.02.A	16+
48	X05.02.A	16-

49	X05.02.A	17
50	X05.02.A	17-
51	X05.02.A	18
52	X05.02.A	18-
53	X05.02.A	19
54	X05.02.A	19-
55	X05.02.A	20
56	X05.02.A	20-

101JB100X01C01



101JB100X01

Analog
Junction Box

80019896

01.000100

Location : Top of 531BI03 Floor

101JB110X01
Junction Box

A	Signal:	Component:
03	531BI01D01L41	531BI01D01
01	220 VAC	531BI01D01
02	0/220 VAC	531BI01D01
06	531BI04D01L41	531BI04D01
05	220 VAC	531BI04D01
04	0/220 VAC	531BI04D01
09	531BI02D01L41	531BI02D01
08	220 VAC	531BI02D01
07	0/220 VAC	531BI02D01
12	531BI03D01L41	531BI03D01
11	220 VAC	531BI03D01
10	0/220 VAC	531BI03D01
15	.	.
14	.	.
13	.	.
18	.	.
17	.	.
16	.	.
21	.	.
20	.	.
19	.	.
24	.	.
23	.	.
22	.	.
27	.	.
26	.	.
25	.	.
30	.	.
29	.	.
10+	.	.
10-	.	.
33	.	.
32	.	.
31	.	.
36	.	.
35	.	.
34	.	.
39	.	.
38	.	.
37	.	.
42	.	.
41	.	.
40	.	.
45	.	.
44	.	.
43	.	.
48	.	.
47	.	.
46	.	.
49	.	.
50	.	.
51	.	.
52	.	.
53	.	.
54	.	.
55	.	.
20-	.	.
21	.	.
58	.	.
59	.	.
60	.	.
22-	.	.
61	.	.
23	.	.
62	.	.
23-	.	.
63	.	.
24	.	.
24-	.	.

530LG01A07
PLC IO-Cabinet ER-53

Block	Term:	03
X06.03.A	01	03
X06.03.A	01L	02
X06.03.A	01N	01
X06.03.A	02	06
X06.03.A	02L	05
X06.03.A	02N	04
X06.03.A	03	09
X06.03.A	03L	08
X06.03.A	03N	07
X06.03.A	04	12
X06.03.A	04L	11
X06.03.A	04N	10
X06.03.A	05	15
X06.03.A	05L	14
X06.03.A	05N	13
X06.03.A	06	18
X06.03.A	06L	17
X06.03.A	06N	16
X06.03.A	07	21
X06.03.A	07L	20
X06.03.A	07N	19
X06.03.A	08	24
X06.03.A	08L	23
X06.03.A	08N	22
X06.03.A	09	27
X06.03.A	09L	26
X06.03.A	09N	25
X06.03.A	10	30
X06.03.A	10L	29
X06.03.A	10N	28
X06.03.A	11	33
X06.03.A	11L	32
X06.03.A	11N	31
X06.03.A	12	36
X06.03.A	12L	35
X06.03.A	12N	34
X06.03.A	13	39
X06.03.A	13L	38
X06.03.A	13N	37
X06.03.A	14	42
X06.03.A	14L	41
X06.03.A	14N	40
X06.03.A	15	45
X06.03.A	15L	44
X06.03.A	15N	43
X06.03.A	16	48
X06.03.A	16L	47
X06.03.A	16N	46
X06.03.A	17	49
X06.03.A	17N	50
X06.03.A	18	51
X06.03.A	18N	52
X06.03.A	19	53
X06.03.A	19N	54
X06.03.A	20	55
X06.03.A	20N	56
X06.03.A	21	57
X06.03.A	21N	58
X06.03.A	22	59
X06.03.A	22N	60
X06.03.A	23	61
X06.03.A	23N	62
X06.03.A	24	63
X06.03.A	24N	64

101JB110X01M01



101JB110X01
Digital
Junction Box

80019896

01.000110

Location: Top of 531BI03 Floor

301JB100X01
Junction Box Near to 531BC04 Discharge

Block	Term:	Signal:	Component:
01	X05.01.A 01	531BC01A01F01	531BC01A01
02	X05.01.A 01+	.	.
33	X05.01.A 01-	0/24 VDC	531BC01A01
03	X05.01.A 02	532BI01N01W01	532BI01N01
04	X05.01.A 02+	.	.
34	X05.01.A 02-	0/24 VDC	532BI01N01
05	X05.01.A 03	532SR01N11T01	532SR01N11
06	X05.01.A 03+	+24 VDC	532SR01N11
35	X05.01.A 03-	.	.
07	X05.01.A 04	532SR01N12T01	532SR01N12
08	X05.01.A 04+	+24 VDC	532SR01N12
36	X05.01.A 04-	.	.
09	X05.01.A 05	532SR01N13T01	532SR01N13
10	X05.01.A 05+	+24 VDC	532SR01N13
37	X05.01.A 05-	.	.
11	X05.01.A 06	532SR01N31T01	532SR01N31
12	X05.01.A 06+	+24 VDC	532SR01N31
38	X05.01.A 06-	.	.
13	X05.01.A 07	.	.
14	X05.01.A 07+	.	.
39	X05.01.A 07-	.	.
15	X05.01.A 08	.	.
16	X05.01.A 08+	.	.
40	X05.01.A 08-	.	.
17	X05.01.A 09	.	.
18	X05.01.A 09+	.	.
41	X05.01.A 09-	.	.
19	X05.01.A 10	.	.
20	X05.01.A 10+	.	.
42	X05.01.A 10-	.	.
21	X05.01.A 11	.	.
22	X05.01.A 11+	.	.
43	X05.01.A 11-	.	.
23	X05.01.A 12	.	.
24	X05.01.A 12+	.	.
44	X05.01.A 12-	.	.
25	X05.01.A 13	.	.
26	X05.01.A 13+	.	.
45	X05.01.A 13-	.	.
27	X05.01.A 14	.	.
28	X05.01.A 14+	.	.
46	X05.01.A 14-	.	.
29	X05.01.A 15	.	.
30	X05.01.A 15+	.	.
47	X05.01.A 15-	.	.
31	X05.01.A 16	.	.
32	X05.01.A 16+	.	.
48	X05.01.A 16-	.	.
49	X05.01.A 17	.	.
50	X05.01.A 17-	.	.
51	X05.01.A 18	.	.
52	X05.01.A 18-	.	.
53	X05.01.A 19	.	.
54	X05.01.A 19-	.	.
55	X05.01.A 20	.	.
56	X05.01.A 20-	.	.

301JB100X01C01

530LG01A02
PLC IO-Cabinet ER-54

Block	Term:
01	X05.01.A 01
02	X05.01.A 01+
33	X05.01.A 01-
03	X05.01.A 02
04	X05.01.A 02+
34	X05.01.A 02-
05	X05.01.A 03
06	X05.01.A 03+
35	X05.01.A 03-
07	X05.01.A 04
08	X05.01.A 04+
36	X05.01.A 04-
09	X05.01.A 05
10	X05.01.A 05+
37	X05.01.A 05-
11	X05.01.A 06
12	X05.01.A 06+
38	X05.01.A 06-
13	X05.01.A 07
14	X05.01.A 07+
39	X05.01.A 07-
15	X05.01.A 08
16	X05.01.A 08+
40	X05.01.A 08-
17	X05.01.A 09
18	X05.01.A 09+
41	X05.01.A 09-
19	X05.01.A 10
20	X05.01.A 10+
42	X05.01.A 10-
21	X05.01.A 11
22	X05.01.A 11+
43	X05.01.A 11-
23	X05.01.A 12
24	X05.01.A 12+
44	X05.01.A 12-
25	X05.01.A 13
26	X05.01.A 13+
45	X05.01.A 13-
27	X05.01.A 14
28	X05.01.A 14+
46	X05.01.A 14-
29	X05.01.A 15
30	X05.01.A 15+
47	X05.01.A 15-
31	X05.01.A 16
32	X05.01.A 16+
48	X05.01.A 16-
49	X05.01.A 17
50	X05.01.A 17-
51	X05.01.A 18
52	X05.01.A 18-
53	X05.01.A 19
54	X05.01.A 19-
55	X05.01.A 20
56	X05.01.A 20-

Location : Near to 531BC04 Discharge

301JB100X02
Junction Box Near to 532FN01

A	Signal:	Component:
01	532FN02N01F01	532FN02N01
02	+24 VDC	532FN02N01
33		
03	532FN01N11T01	532FN01N11
04	+24 VDC	532FN01N11
05		
06	532FN01N12T01	532FN01N12
07	+24 VDC	532FN01N12
35		
08	532FN01N13V01	532FN01N13
09		
10	0/24 VDC	532FN01N13
36		
09	532FN01N13V02	532FN01N13
10		
05+		
37	0/24 VDC	532FN01N13
11		
06	532FN01N21T01	532FN01N21
12	+24 VDC	532FN01N21
38		
06+		
13	532FN01N22T01	532FN01N22
14	+24 VDC	532FN01N22
39		
07-		
15		
08	532FN01N23T01	532FN01N23
16	+24 VDC	532FN01N23
40		
08-		
17	532FN01N24T01	532FN01N24
18	+24 VDC	532FN01N24
41		
09+		
19		
10	532FN01N25T01	532FN01N25
20	+24 VDC	532FN01N25
42		
10-		
21		
11	321LD390Y01Z01	321LD390Y01
22		
11+		
43		
11-		
23	532TV01Y01Z01	532TV01Y01
24	+24 VDC	532TV01Y01
44		
12+		
25	532FN01N01F01	532FN01N01
26	+24 VDC	532FN01N01
45		
13-		
27		
14		
28		
14+		
29		
14-		
30		
15+		
47		
15-		
31		
16		
32		
16+		
48		
16-		

49	321LD390Y01Z11	321LD390Y01
50	0/24 VDC	321LD390Y01
51	532TV01Y01Z11	532TV01Y01
52	0/24 VDC	532TV01Y01
53		
54		
55		
56		
20-		

530LG01A02
PLC IO-Cabinet ER-54

Block	Term:
X05.02.A	01
X05.02.A	01+
X05.02.A	01-
X05.02.A	02
X05.02.A	02+
X05.02.A	02-
X05.02.A	03
X05.02.A	03+
X05.02.A	03-
X05.02.A	04
X05.02.A	04+
X05.02.A	04-
X05.02.A	05
X05.02.A	05+
X05.02.A	05-
X05.02.A	06
X05.02.A	06+
X05.02.A	06-
X05.02.A	07
X05.02.A	07+
X05.02.A	07-
X05.02.A	08
X05.02.A	08+
X05.02.A	08-
X05.02.A	09
X05.02.A	09+
X05.02.A	09-
X05.02.A	10
X05.02.A	10+
X05.02.A	10-
X05.02.A	11
X05.02.A	11+
X05.02.A	11-
X05.02.A	12
X05.02.A	12+
X05.02.A	12-
X05.02.A	13
X05.02.A	13+
X05.02.A	13-
X05.02.A	14
X05.02.A	14+
X05.02.A	14-
X05.02.A	15
X05.02.A	15+
X05.02.A	15-
X05.02.A	16
X05.02.A	16+
X05.02.A	16-

49	X05.02.A	17
50	X05.02.A	17-
51	X05.02.A	18
52	X05.02.A	18-
53	X05.02.A	19
54	X05.02.A	19-
55	X05.02.A	20
56	X05.02.A	20-

Location : Near to 532FN01

301JB100X03
Junction Box Near to 532FN11

Block	Term:	Signal:	Component:
01	X05.03.A 01	.	.
02	X05.03.A 01+	.	.
33	X05.03.A 01-	.	.
03	X05.03.A 02	532FN21N11T01	532FN21N11
04	X05.03.A 02+	+24 VDC	532FN21N11
34	X05.03.A 02-	.	.
05	X05.03.A 03	532FN21N12T01	532FN21N12
06	X05.03.A 03+	+24 VDC	532FN21N12
35	X05.03.A 03-	.	.
07	X05.03.A 04	532FN21N21T01	532FN21N21
08	X05.03.A 04+	+24 VDC	532FN21N21
36	X05.03.A 04-	.	.
09	X05.03.A 05	532FN21N22T01	532FN21N22
10	X05.03.A 05+	+24 VDC	532FN21N22
37	X05.03.A 05-	.	.
11	X05.03.A 06	532FN21N23T01	532FN21N23
12	X05.03.A 06+	+24 VDC	532FN21N23
38	X05.03.A 06-	.	.
13	X05.03.A 07	532FN21N24T01	532FN21N24
14	X05.03.A 07+	+24 VDC	532FN21N24
39	X05.03.A 07-	.	.
15	X05.03.A 08	532FN21N25T01	532FN21N25
16	X05.03.A 08+	+24 VDC	532FN21N25
40	X05.03.A 08-	.	.
17	X05.03.A 09	532LD02Y01Z01	532LD02Y01
18	X05.03.A 09+	.	.
41	X05.03.A 09-	.	.
19	X05.03.A 10	532LD03Y01Z01	532LD03Y01
20	X05.03.A 10+	.	.
42	X05.03.A 10-	.	.
21	X05.03.A 11	532RM01N03T01	532RM01N03
22	X05.03.A 11+	+24 VDC	532RM01N03
43	X05.03.A 11-	.	.
23	X05.03.A 12	532RM01N04P01	532RM01N04
24	X05.03.A 12+	+24 VDC	532RM01N04
44	X05.03.A 12-	.	.
25	X05.03.A 13	.	.
26	X05.03.A 13+	.	.
45	X05.03.A 13-	.	.
27	X05.03.A 14	.	.
28	X05.03.A 14+	.	.
46	X05.03.A 14-	.	.
29	X05.03.A 15	.	.
30	X05.03.A 15+	.	.
47	X05.03.A 15-	.	.
31	X05.03.A 16	.	.
32	X05.03.A 16+	.	.
48	X05.03.A 16-	.	.
49	X05.03.A 17	532LD02Y01Z11	532LD02Y01
50	X05.03.A 17-	0/24 VDC	532LD02Y01
51	X05.03.A 18	532LD03Y01Z11	532LD03Y01
52	X05.03.A 18-	0/24 VDC	532LD03Y01
53	X05.03.A 19	.	.
54	X05.03.A 19-	.	.
55	X05.03.A 20	.	.
56	X05.03.A 20-	.	.

301JB100X03C01

530LG01A02
PLC IO-Cabinet ER-54

Block	Term:
01	X05.03.A 01
02	X05.03.A 01+
33	X05.03.A 01-
03	X05.03.A 02
04	X05.03.A 02+
34	X05.03.A 02-
05	X05.03.A 03
06	X05.03.A 03+
35	X05.03.A 03-
07	X05.03.A 04
08	X05.03.A 04+
36	X05.03.A 04-
09	X05.03.A 05
10	X05.03.A 05+
37	X05.03.A 05-
11	X05.03.A 06
12	X05.03.A 06+
38	X05.03.A 06-
13	X05.03.A 07
14	X05.03.A 07+
39	X05.03.A 07-
15	X05.03.A 08
16	X05.03.A 08+
40	X05.03.A 08-
17	X05.03.A 09
18	X05.03.A 09+
41	X05.03.A 09-
19	X05.03.A 10
20	X05.03.A 10+
42	X05.03.A 10-
21	X05.03.A 11
22	X05.03.A 11+
43	X05.03.A 11-
23	X05.03.A 12
24	X05.03.A 12+
44	X05.03.A 12-
25	X05.03.A 13
26	X05.03.A 13+
45	X05.03.A 13-
27	X05.03.A 14
28	X05.03.A 14+
46	X05.03.A 14-
29	X05.03.A 15
30	X05.03.A 15+
47	X05.03.A 15-
31	X05.03.A 16
32	X05.03.A 16+
48	X05.03.A 16-
49	X05.03.A 17
50	X05.03.A 17-
51	X05.03.A 18
52	X05.03.A 18-
53	X05.03.A 19
54	X05.03.A 19-
55	X05.03.A 20
56	X05.03.A 20-

Location : Near to 532FN11



301JB100X03

Analog
Junction Box Near to 532FN11

80019896

01.000140

301JB100X04
Junction Box Near to Mill (532RM01)

Block	Term:	Signal:	Component:
01	X05.04.A 01	532MD01N21T01	532MD01N21
02	X05.04.A 01+	+24 VDC	532MD01N21
33	X05.04.A 01-	.	.
03	X05.04.A 02	532MD01N22T01	532MD01N22
04	X05.04.A 02+	+24 VDC	532MD01N22
34	X05.04.A 02-	.	.
05	X05.04.A 03	532MD01N23T01	532MD01N23
06	X05.04.A 03+	+24 VDC	532MD01N23
35	X05.04.A 03-	.	.
07	X05.04.A 04	532MD01N24T01	532MD01N24
08	X05.04.A 04+	+24 VDC	532MD01N24
36	X05.04.A 04-	.	.
09	X05.04.A 05	532MD01N25T01	532MD01N25
10	X05.04.A 05+	+24 VDC	532MD01N25
37	X05.04.A 05-	.	.
11	X05.04.A 06	532MD02N21T01	532MD02N21
12	X05.04.A 06+	+24 VDC	532MD02N21
38	X05.04.A 06-	.	.
13	X05.04.A 07	532MD02N22T01	532MD02N22
14	X05.04.A 07+	+24 VDC	532MD02N22
39	X05.04.A 07-	.	.
15	X05.04.A 08	532MD02N23T01	532MD02N23
16	X05.04.A 08+	+24 VDC	532MD02N23
40	X05.04.A 08-	.	.
17	X05.04.A 09	532RM01N01T01	532RM01N01
18	X05.04.A 09+	+24 VDC	532RM01N01
41	X05.04.A 09-	.	.
19	X05.04.A 10	532RM01N02P01	532RM01N02
20	X05.04.A 10+	+24 VDC	532RM01N02
42	X05.04.A 10-	.	.
21	X05.04.A 11	532RM01N05P01	532RM01N05
22	X05.04.A 11+	+24 VDC	532RM01N05
43	X05.04.A 11-	.	.
23	X05.04.A 12	532RM01N06V01	532RM01N06
24	X05.04.A 12+	.	.
44	X05.04.A 12-	0/24 VDC	532RM01N06
25	X05.04.A 13	532WM01N01F01	532WM01N01
26	X05.04.A 13+	.	.
45	X05.04.A 13-	0/24 VDC	532WM01N01
27	X05.04.A 14	532WM01Y01Z01	532WM01Y01
28	X05.04.A 14+	+24 VDC	532WM01Y01
46	X05.04.A 14-	.	.
29	X05.04.A 15	.	.
30	X05.04.A 15+	.	.
47	X05.04.A 15-	.	.
31	X05.04.A 16	.	.
32	X05.04.A 16+	.	.
48	X05.04.A 16-	.	.
49	X05.04.A 17	.	.
50	X05.04.A 17-	.	.
51	X05.04.A 18	.	.
52	X05.04.A 18-	.	.
53	X05.04.A 19	.	.
54	X05.04.A 19-	.	.
55	X05.04.A 20	.	.
56	X05.04.A 20-	.	.

301JB100X04C01

530LG01A02
PLC IO-Cabinet ER-54

Block	Term:
01	X05.04.A 01
01+	X05.04.A 01+
33	X05.04.A 01-
02	X05.04.A 02
04	X05.04.A 02+
34	X05.04.A 02-
03	X05.04.A 03
06	X05.04.A 03+
35	X05.04.A 03-
04	X05.04.A 04
08	X05.04.A 04+
36	X05.04.A 04-
05	X05.04.A 05
09	X05.04.A 05+
10	X05.04.A 05-
37	X05.04.A 05-
11	X05.04.A 06
12	X05.04.A 06+
38	X05.04.A 06-
13	X05.04.A 07
14	X05.04.A 07+
39	X05.04.A 07-
15	X05.04.A 08
16	X05.04.A 08+
40	X05.04.A 08-
17	X05.04.A 09
18	X05.04.A 09+
41	X05.04.A 09-
19	X05.04.A 10
20	X05.04.A 10+
42	X05.04.A 10-
21	X05.04.A 11
22	X05.04.A 11+
43	X05.04.A 11-
23	X05.04.A 12
24	X05.04.A 12+
44	X05.04.A 12-
25	X05.04.A 13
26	X05.04.A 13+
45	X05.04.A 13-
27	X05.04.A 14
28	X05.04.A 14+
46	X05.04.A 14-
29	X05.04.A 15
30	X05.04.A 15+
47	X05.04.A 15-
31	X05.04.A 16
32	X05.04.A 16+
48	X05.04.A 16-
49	X05.04.A 17
50	X05.04.A 17-
51	X05.04.A 18
52	X05.04.A 18-
53	X05.04.A 19
54	X05.04.A 19-
55	X05.04.A 20
56	X05.04.A 20-

Location : Near to Mill



301JB100X04

Analog
Junction Box Near to Mill (532RM01)

80019896

01.000150

301JB100X05
Junction Box Near to 532BE02 Discharge

Block	Term:	Signal:	Component:
01	X05.05.A 01	532BE02N21T01	532BE02N21
02	X05.05.A 01+	+24 VDC	532BE02N21
33	X05.05.A 01-	.	.
03	X05.05.A 02	532BE02N22T01	532BE02N22
04	X05.05.A 02+	+24 VDC	532BE02N22
34	X05.05.A 02-	.	.
05	X05.05.A 03	532BE02N23T01	532BE02N23
06	X05.05.A 03+	+24 VDC	532BE02N23
35	X05.05.A 03-	.	.
07	X05.05.A 04	532BE02N24T01	532BE02N24
08	X05.05.A 04+	+24 VDC	532BE02N24
36	X05.05.A 04-	.	.
09	X05.05.A 05	532BE02N25T01	532BE02N25
10	X05.05.A 05+	+24 VDC	532BE02N25
37	X05.05.A 05-	.	.
11	X05.05.A 06	532BE02N26T01	532BE02N26
12	X05.05.A 06+	+24 VDC	532BE02N26
38	X05.05.A 06-	.	.
13	X05.05.A 07	532SIO1N01L01	532SIO1N01
14	X05.05.A 07+	.	.
39	X05.05.A 07-	0/24 VDC	532SIO1N01
15	X05.05.A 08	.	.
16	X05.05.A 08+	.	.
40	X05.05.A 08-	.	.
17	X05.05.A 09	.	.
18	X05.05.A 09+	.	.
41	X05.05.A 09-	.	.
19	X05.05.A 10	.	.
20	X05.05.A 10+	.	.
42	X05.05.A 10-	.	.
21	X05.05.A 11	.	.
22	X05.05.A 11+	.	.
43	X05.05.A 11-	.	.
23	X05.05.A 12	.	.
24	X05.05.A 12+	.	.
44	X05.05.A 12-	.	.
25	X05.05.A 13	.	.
26	X05.05.A 13+	.	.
45	X05.05.A 13-	.	.
27	X05.05.A 14	.	.
28	X05.05.A 14+	.	.
46	X05.05.A 14-	.	.
29	X05.05.A 15	.	.
30	X05.05.A 15+	.	.
47	X05.05.A 15-	.	.
31	X05.05.A 16	.	.
32	X05.05.A 16+	.	.
48	X05.05.A 16-	.	.
49	X05.05.A 17	.	.
50	X05.05.A 17-	.	.
51	X05.05.A 18	.	.
52	X05.05.A 18-	.	.
53	X05.05.A 19	.	.
54	X05.05.A 19-	.	.
55	X05.05.A 20	.	.
56	X05.05.A 20-	.	.

301JB100X05C01

530LG01A02
PLC IO-Cabinet ER-54

Block	Term:
01	X05.05.A 01
02	X05.05.A 01+
33	X05.05.A 01-
03	X05.05.A 02
04	X05.05.A 02+
34	X05.05.A 02-
05	X05.05.A 03
06	X05.05.A 03+
35	X05.05.A 03-
07	X05.05.A 04
08	X05.05.A 04+
36	X05.05.A 04-
09	X05.05.A 05
10	X05.05.A 05+
37	X05.05.A 05-
11	X05.05.A 06
12	X05.05.A 06+
38	X05.05.A 06-
13	X05.05.A 07
14	X05.05.A 07+
39	X05.05.A 07-
15	X05.05.A 08
16	X05.05.A 08+
40	X05.05.A 08-
17	X05.05.A 09
18	X05.05.A 09+
41	X05.05.A 09-
19	X05.05.A 10
20	X05.05.A 10+
42	X05.05.A 10-
21	X05.05.A 11
22	X05.05.A 11+
43	X05.05.A 11-
23	X05.05.A 12
24	X05.05.A 12+
44	X05.05.A 12-
25	X05.05.A 13
26	X05.05.A 13+
45	X05.05.A 13-
27	X05.05.A 14
28	X05.05.A 14+
46	X05.05.A 14-
29	X05.05.A 15
30	X05.05.A 15+
47	X05.05.A 15-
31	X05.05.A 16
32	X05.05.A 16+
48	X05.05.A 16-
49	X05.05.A 17
50	X05.05.A 17-
51	X05.05.A 18
52	X05.05.A 18-
53	X05.05.A 19
54	X05.05.A 19-
55	X05.05.A 20
56	X05.05.A 20-

Location : Near to 532BE02 Discharge

301JB110X01
Junction Box Near Weigh Feeder

A	Signal:	Component:
03	531AF01D01L41	531AF01D01
01	220 VAC	531AF01D01
02		
01+		
01-		
06	531AF01D02P41	531AF01D02
05	220 VAC	531AF01D02
02+		
02-		
09	531BC01A01U41	531BC01A01
03	220 VAC	531BC01A01
03+		
07		
12	531BC01A01Q41	531BC01A01
04		
11		
04+		
10		
04-		
15	531BC01D02S41	531BC01X02
05	220 VAC	531BC01X02
14		
05+		
13		
05-		
18	531BC02D01S41	531BC02X01
06	220 VAC	531BC02X01
17		
06+		
16		
06-		
21	531BC02D02Z41	531BC02D02
07	220 VAC	531BC02D02
20		
07+		
19		
07-		
24	531BC02D02Z42	531BC02D02
23		
08		
22		
08+		
27	531BC03D01S41	531BC03X01
09	220 VAC	531BC03X01
26		
09+		
25		
09-		
30	531BC03D02Z41	531BC03D02
10	220 VAC	531BC03D02
29		
10+		
28		
10-		
33	531BC03D02Z42	531BC03D02
11		
32		
11+		
31		
11-		
36	531BF01A01P41	531BF01A01
12	220 VAC	531BF01A01
35		
12+		
34		
12-		
39	531SC01D01S41	531SC01X01
13	220 VAC	531SC01X01
38		
13+		
37		
13-		
42		
14		
41		
14+		
40		
14-		
45		
15		
44		
15+		
43		
15-		
48		
16		
47		
16+		
46		
16-		

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49	531BC01A01C31	531BC01A01
17	0/220 VAC	531BC01A01
50		
17-		
51	531BF01A01C31	531BF01A01
18	0/220 VAC	531BF01A01
52		
18-		
53		
19		
54		
19-		
55		
20		
56		
20-		
57		
21		
58		
21-		
59		
22		
60		
22-		
61		
23		
62		
23-		
63		
24		
64		
24-		

530LG01A03
PLC IO-Cabinet ER-54

Block	Term:	03
X06.01.A	01	
X06.01.A	01L	
X06.01.A	01N	
X06.01.A	02	
X06.01.A	02L	
X06.01.A	02N	
X06.01.A	03	
X06.01.A	03L	
X06.01.A	03N	
X06.01.A	04	
X06.01.A	04L	
X06.01.A	04N	
X06.01.A	05	
X06.01.A	05L	
X06.01.A	05N	
X06.01.A	06	
X06.01.A	06L	
X06.01.A	06N	
X06.01.A	07	
X06.01.A	07L	
X06.01.A	07N	
X06.01.A	08	
X06.01.A	08L	
X06.01.A	08N	
X06.01.A	09	
X06.01.A	09L	
X06.01.A	09N	
X06.01.A	10	
X06.01.A	10L	
X06.01.A	10N	
X06.01.A	11	
X06.01.A	11L	
X06.01.A	11N	
X06.01.A	12	
X06.01.A	12L	
X06.01.A	12N	
X06.01.A	13	
X06.01.A	13L	
X06.01.A	13N	
X06.01.A	14	
X06.01.A	14L	
X06.01.A	14N	
X06.01.A	15	
X06.01.A	15L	
X06.01.A	15N	
X06.01.A	16	
X06.01.A	16L	
X06.01.A	16N	

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49	X06.01.A	17
50	X06.01.A	17N
51	X06.01.A	18
52	X06.01.A	18N
53	X06.01.A	19
54	X06.01.A	19N
55	X06.01.A	20
56	X06.01.A	20N
57	X06.01.A	21
58	X06.01.A	21N
59	X06.01.A	22
60	X06.01.A	22N
61	X06.01.A	23
62	X06.01.A	23N
63	X06.01.A	24
64	X06.01.A	24N

301JB110X01M01



301JB110X01
Digital
Junction Box Near Weigh Feeder

80019896

Location : Near Weigh Feeder

01.000170

301JB110X02
Junction Box Near to 532BE01

A	Signal:	Component:
03	531BC04D01S41	531BC04X01
02	220 VAC	531BC04X01
01		
01+		
01-		
06	531BC04D02Z41	531BC04D02
05	220 VAC	531BC04D02
04		
02-		
09	531BC04D02Z42	531BC04D02
03		
03+		
07		
03-		
12	531BC04D11U41	531BC04D11
04	220 VAC	531BC04D11
11		
04+		
04-		
10		
15	531BC04D11M41	531BC04D11
14		
05+		
13		
05-		
18	532BC02D01S41	532BC02X01
06	220 VAC	532BC02X01
17		
06+		
16		
06-		
21	532BE01D07T41	532BE01D07
07	220 VAC	532BE01D07
20		
07+		
19		
07-		
24	532BE01D08S41	532BE01D08
23	220 VAC	532BE01D08
22		
08-		
27	531BF02A01P41	531BF02A01
09	220 VAC	531BF02A01
26		
09+		
25		
09-		
30	532BF01A01P41	532BF01A01
29	220 VAC	532BF01A01
28		
10+		
28		
10-		
33	532DG01Y01Z41	532DG01X01
11	220 VAC	532DG01X01
32		
11+		
31		
11-		
36	532DG01Y01Z42	532DG01X01
12		
35		
12+		
34		
12-		
39	532RF02D01S41	532RF02X01
13	220 VAC	532RF02X01
38		
13+		
37		
13-		
42		
14		
41		
14+		
40		
14-		
45		
15		
44		
15+		
43		
15-		
48		
16		
47		
16+		
46		
16-		

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49	531BF02A01C31	531BF02A01
17	0/220 VAC	531BF02A01
50		
17-		
51	532BF01A01C31	532BF01A01
18	0/220 VAC	532BF01A01
52		
18-		
53	532DG01Y01C31	532DG01X01
19	0/220 VAC	532DG01X01
54		
19-		
55	532DG01Y01C32	532DG01X01
20		
20-		
56		
20+		
57		
21		
58		
21-		
59		
21+		
60		
22-		
61		
22+		
62		
23		
62-		
63		
23+		
63-		
64		
24		
64-		
24+		

530L G01A03
PLC IO-Cabinet ER-54

Block	Term:	Term:
X06.02.A	01	03
X06.02.A	01L	02
X06.02.A	01N	01
X06.02.A	02	06
X06.02.A	02L	05
X06.02.A	02N	04
X06.02.A	03	09
X06.02.A	03L	08
X06.02.A	03N	07
X06.02.A	04	12
X06.02.A	04L	11
X06.02.A	04N	10
X06.02.A	05	15
X06.02.A	05L	14
X06.02.A	05N	13
X06.02.A	06	18
X06.02.A	06L	17
X06.02.A	06N	16
X06.02.A	07	21
X06.02.A	07L	20
X06.02.A	07N	19
X06.02.A	08	24
X06.02.A	08L	23
X06.02.A	08N	22
X06.02.A	09	27
X06.02.A	09L	26
X06.02.A	09N	25
X06.02.A	10	30
X06.02.A	10L	29
X06.02.A	10N	28
X06.02.A	11	33
X06.02.A	11L	32
X06.02.A	11N	31
X06.02.A	12	36
X06.02.A	12L	35
X06.02.A	12N	34
X06.02.A	13	39
X06.02.A	13L	38
X06.02.A	13N	37
X06.02.A	14	42
X06.02.A	14L	41
X06.02.A	14N	40
X06.02.A	15	45
X06.02.A	15L	44
X06.02.A	15N	43
X06.02.A	16	48
X06.02.A	16L	47
X06.02.A	16N	46

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X06.02.A	17	49
X06.02.A	17N	50
X06.02.A	18	51
X06.02.A	18N	52
X06.02.A	19	53
X06.02.A	19N	54
X06.02.A	20	55
X06.02.A	20N	56
X06.02.A	21	57
X06.02.A	21N	58
X06.02.A	22	59
X06.02.A	22N	60
X06.02.A	23	61
X06.02.A	23N	62
X06.02.A	24	63
X06.02.A	24N	64

301JB110X02M01



301JB110X02

Digital
Junction Box Near to 532BE01

80019896

Location : Near to 532BE01 Discharge

01.000180

301JB110X03
Junction Box Near to 532BC02

A	Signal:	Component:
03	532BC02D0ZZ41	532BC02D02
01	220 VAC	532BC02D02
02		
01+		
01-		
06	532BC02D0ZZ42	532BC02D02
05		
02+		
02-		
09	532BC01D01S41	532BC01X01
08	220 VAC	532BC01X01
03+		
07		
03-		
12	532BC01D11M41	532BC01D11
04		
11	220 VAC	532BC01D11
04+		
04-		
15	532BC01D11U41	532BC01D11
14		
05+		
05-		
18	532BE01D01S41	532BE01D01
06	220 VAC	532BE01D01
06+		
16		
06-		
21	532BE01D06L41	532BE01D06
07		
20	220 VAC	532BE01D06
07+		
19		
07-		
24	532BI01D01L41	532BI01D01
08		
23	220 VAC	532BI01D01
08+		
22	0/220 VAC	532BI01D01
08-		
27	532DG02Y01Z41	532DG02X01
09		
26	220 VAC	532DG02X01
09+		
25		
09-		
30	532DG02Y01Z42	532DG02X01
10		
29		
10+		
28		
10-		
33	532DG04Y01Z41	532DG04X01
11		
32	220 VAC	532DG04X01
11+		
31		
11-		
36	532DG04Y01Z42	532DG04X01
12		
35		
12+		
34		
12-		
39	532DG04Y0ZZ41	532DG04X02
13		
38	220 VAC	532DG04X02
13+		
37		
13-		
42	532DG04Y0ZZ42	532DG04X02
14		
41		
14+		
40		
14-		
45		
15		
44		
15+		
43		
15-		
48		
16		
47		
16+		
46		
16-		

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49	532DG02Y01C31	532DG02X01
17	0/220 VAC	532DG02X01
50		
17-		
51	532DG02Y01C32	532DG02X01
18		
52		
18-		
53	532DG04Y01C31	532DG04X01
19	0/220 VAC	532DG04X01
54		
19-		
55	532DG04Y01C32	532DG04X01
20		
56		
20-		
57	532DG04Y02C31	532DG04X02
21	0/220 VAC	532DG04X02
58		
21-		
59	532DG04Y02C32	532DG04X02
22		
60		
22-		
61		
23		
62		
23-		
63		
24		
64		
24-		

530L G01A03
PLC IO-Cabinet ER-54

Block	Term:	03
X06.03.A	01	
X06.03.A	01L	
X06.03.A	01N	
X06.03.A	02	
X06.03.A	02L	
X06.03.A	02N	
X06.03.A	03	
X06.03.A	03L	
X06.03.A	03N	
X06.03.A	04	
X06.03.A	04L	
X06.03.A	04N	
X06.03.A	05	
X06.03.A	05L	
X06.03.A	05N	
X06.03.A	06	
X06.03.A	06L	
X06.03.A	06N	
X06.03.A	07	
X06.03.A	07L	
X06.03.A	07N	
X06.03.A	08	
X06.03.A	08L	
X06.03.A	08N	
X06.03.A	09	
X06.03.A	09L	
X06.03.A	09N	
X06.03.A	10	
X06.03.A	10L	
X06.03.A	10N	
X06.03.A	11	
X06.03.A	11L	
X06.03.A	11N	
X06.03.A	12	
X06.03.A	12L	
X06.03.A	12N	
X06.03.A	13	
X06.03.A	13L	
X06.03.A	13N	
X06.03.A	14	
X06.03.A	14L	
X06.03.A	14N	
X06.03.A	15	
X06.03.A	15L	
X06.03.A	15N	
X06.03.A	16	
X06.03.A	16L	
X06.03.A	16N	

301JB110X03M01

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X06.03.A	17	
X06.03.A	17N	
X06.03.A	18	
X06.03.A	18N	
X06.03.A	19	
X06.03.A	19N	
X06.03.A	20	
X06.03.A	20N	
X06.03.A	21	
X06.03.A	21N	
X06.03.A	22	
X06.03.A	22N	
X06.03.A	23	
X06.03.A	23N	
X06.03.A	24	
X06.03.A	24N	

Location : Near to 532BC02 Discharge



301JB110X04
Junction Box On 532CN01 Cyclone Floor

Block	Term	Signal	Component
X06.04.A	01	532BF02A01P41	532BF02A01
X06.04.A	01L	220 VAC	532BF02A01
X06.04.A	01N	.	.
X06.04.A	02	532BF03A01P41	532BF03A01
X06.04.A	02L	220 VAC	532BF03A01
X06.04.A	02N	.	.
X06.04.A	03	532BF04A01P41	532BF04A01
X06.04.A	03L	220 VAC	532BF04A01
X06.04.A	03N	.	.
X06.04.A	04	532LD02Y01U41	532LD02Y01
X06.04.A	04L	220 VAC	532LD02Y01
X06.04.A	04N	.	.
X06.04.A	05	532LD03Y01U41	532LD03Y01
X06.04.A	05L	220 VAC	532LD03Y01
X06.04.A	05N	.	.
X06.04.A	06	532RF04D01S41	532RF04X01
X06.04.A	06L	220 VAC	532RF04X01
X06.04.A	06N	.	.
X06.04.A	07	532RF05D01S41	532RF05X01
X06.04.A	07L	220 VAC	532RF05X01
X06.04.A	07N	.	.
X06.04.A	08	532RF03D01S41	532RF03X01
X06.04.A	08L	220 VAC	532RF03X01
X06.04.A	08N	.	.
X06.04.A	09	532RF06D01S41	532RF06X01
X06.04.A	09L	220 VAC	532RF06X01
X06.04.A	09N	.	.
X06.04.A	10	.	.
X06.04.A	10L	.	.
X06.04.A	10N	.	.
X06.04.A	11	532GS01A01C41	532GS01A01
X06.04.A	11L	220 VAC	532GS01A01
X06.04.A	11N	.	.
X06.04.A	12	532GS01A01C61	532GS01A01
X06.04.A	12L	.	.
X06.04.A	12N	.	.
X06.04.A	13	532GS01A01C51	532GS01A01
X06.04.A	13L	.	.
X06.04.A	13N	.	.
X06.04.A	14	532GS01A01L41	532GS01A01
X06.04.A	14L	.	.
X06.04.A	14N	.	.
X06.04.A	15	532GS01A01F41	532GS01A01
X06.04.A	15L	.	.
X06.04.A	15N	.	.
X06.04.A	16	.	.
X06.04.A	16L	.	.
X06.04.A	16N	.	.

301JB110X04M01

X06.04.A	17	532BF02A01C31	532BF02A01
X06.04.A	17N	0/220 VAC	532BF02A01
X06.04.A	18	532BF03A01C31	532BF03A01
X06.04.A	18N	0/220 VAC	532BF03A01
X06.04.A	19	532BF04A01C31	532BF04A01
X06.04.A	19N	0/220 VAC	532BF04A01
X06.04.A	20	532GS01A01C31	532GS01A01
X06.04.A	20N	0/220 VAC	532GS01A01
X06.04.A	21	.	.
X06.04.A	21N	.	.
X06.04.A	22	.	.
X06.04.A	22N	.	.
X06.04.A	23	.	.
X06.04.A	23N	.	.
X06.04.A	24	.	.
X06.04.A	24N	.	.

530LG01A03
PLC IO-Cabinet ER-54



301JB110X04

Digital
Junction Box On 532CN01 Cyclone Floor

80019896

01.000200

Location : On 532CN01 Cyclone Floor

301JB110X05
Junction Box Near to Mill

A	Signal:	Component:
03	01	532FN01N13V41
02	01+	220 VAC
01	01-	532FN01N13
06	02	321LD390Y01U41
05	02+	321LD390Y01
04	02-	220 VAC
09	03	532LQ04A01P41
08	03+	220 VAC
07	03-	532LQ04A01
12	04	532LQ04A01P42
11	04+	532LQ04A01
10	04-	532LQ04A01
15	05	532LQ04A01T41
14	05+	532LQ04A01
13	05-	532LQ04A01
18	06	532LQ04A01T42
17	06+	532LQ04A01
16	06-	532LQ04A01
21	07	532LQ04A01L41
20	07+	532LQ04A01
19	07-	532LQ04A01
24	08	532LQ04A01P43
23	08+	532LQ04A01
22	08-	532LQ04A01
27	09	532RM01N06V41
26	09+	220 VAC
25	09-	532RM01N06
30	10	532SG01Y01Z41
29	10+	220 VAC
28	10-	532SG01X01
33	11	532SG01Y01Z42
32	11+	532SG01X01
31	11-	532SG01X01
36	12	532WM01D01L41
35	12+	220 VAC
34	12-	532WM01D01
39	13	0/220 VAC
38	13+	532WM01S10
37	13-	220 VAC
42	14	532WM01Y01C52
41	14+	532WM01S10
40	14-	532WM01S10
45	15	532WM01Y01C31
44	15+	532WM01Y01
43	15-	532WM01Y01
48	16	532WM01Y01C32
47	16+	532WM01Y01
46	16-	532WM01Y01
49	17	532SG01Y01C31
50	17-	0/220 VAC
51	18	532SG01Y01C32
52	18-	532SG01X01
53	19	532WM01Y01C31
54	19-	0/220 VAC
55	20	532WM01Y01C32
56	20-	532WM01Y01
57	21	532WM01Y01
58	21-	532WM01Y01
59	22	532WM01Y01
60	22-	532WM01Y01
61	23	532WM01Y01
62	23-	532WM01Y01
63	24	532WM01Y01
64	24-	532WM01Y01

530LG01A03
PLC IO-Cabinet ER-54

Block	Term:	Component:
X06.05.A	01	532FN01N13V41
X06.05.A	01L	220 VAC
X06.05.A	01N	532FN01N13
X06.05.A	02	321LD390Y01U41
X06.05.A	02L	321LD390Y01
X06.05.A	02N	220 VAC
X06.05.A	03	532LQ04A01P41
X06.05.A	03L	220 VAC
X06.05.A	03N	532LQ04A01
X06.05.A	04	532LQ04A01P42
X06.05.A	04L	532LQ04A01
X06.05.A	04N	532LQ04A01
X06.05.A	05	532LQ04A01T41
X06.05.A	05L	532LQ04A01
X06.05.A	05N	532LQ04A01
X06.05.A	06	532LQ04A01T42
X06.05.A	06L	532LQ04A01
X06.05.A	06N	532LQ04A01
X06.05.A	07	532LQ04A01L41
X06.05.A	07L	532LQ04A01
X06.05.A	07N	532LQ04A01
X06.05.A	08	532LQ04A01P43
X06.05.A	08L	532LQ04A01
X06.05.A	08N	532LQ04A01
X06.05.A	09	532RM01N06V41
X06.05.A	09L	220 VAC
X06.05.A	09N	532RM01N06
X06.05.A	10	532SG01Y01Z41
X06.05.A	10L	220 VAC
X06.05.A	10N	532SG01X01
X06.05.A	11	532SG01Y01Z42
X06.05.A	11L	532SG01X01
X06.05.A	11N	532SG01X01
X06.05.A	12	532WM01D01L41
X06.05.A	12L	220 VAC
X06.05.A	12N	532WM01D01
X06.05.A	13	0/220 VAC
X06.05.A	13L	532WM01S10
X06.05.A	13N	220 VAC
X06.05.A	14	532WM01Y01C52
X06.05.A	14L	532WM01S10
X06.05.A	14N	532WM01S10
X06.05.A	15	532WM01Y01C31
X06.05.A	15L	532WM01Y01
X06.05.A	15N	532WM01Y01
X06.05.A	16	532WM01Y01C32
X06.05.A	16L	532WM01Y01
X06.05.A	16N	532WM01Y01
X06.05.A	17	532SG01Y01C31
X06.05.A	17N	0/220 VAC
X06.05.A	18	532SG01Y01C32
X06.05.A	18N	532SG01X01
X06.05.A	19	532WM01Y01C31
X06.05.A	19N	0/220 VAC
X06.05.A	20	532WM01Y01C32
X06.05.A	20N	532WM01Y01
X06.05.A	21	532WM01Y01
X06.05.A	21N	532WM01Y01
X06.05.A	22	532WM01Y01
X06.05.A	22N	532WM01Y01
X06.05.A	23	532WM01Y01
X06.05.A	23N	532WM01Y01
X06.05.A	24	532WM01Y01
X06.05.A	24N	532WM01Y01

301JB110X05M01



301JB110X05
Digital
Junction Box Near to Mill

80019896

Location : Near to Mill

01.000210

301JB110X06
Junction Box Near to Mill

A	Signal:	Component:
03	532FN01R01Z41	532FN01R01
02	220 VAC	532FN01R01
01		
01+		
01-		
06	532FN01R01Z42	532FN01R01
05		
02+		
02-		
04		
09	532FN01R01C41	532FN01R01
03		
03+		
07		
03-		
12	532FN01R01T42	532FN01R01
04		
11		
04+		
10		
04-		
15	532FN01R01T41	532FN01R01
05		
14		
05+		
13		
05-		
18	532FN01R01U42	532FN01R01
06		
17		
06+		
16		
06-		
21	532FN21R01Z41	532FN21R01
07		
20	220 VAC	532FN21R01
07+		
19		
07-		
24	532FN21R01Z42	532FN21R01
08		
23		
08+		
22		
08-		
27	532FN21R01C41	532FN21R01
09		
26		
09+		
25		
09-		
30	532FN21R01T42	532FN21R01
10		
29		
10+		
28		
10-		
33	532FN21R01T41	532FN21R01
11		
32		
11+		
31		
11-		
36	532FN21R01U42	532FN21R01
12		
35		
12+		
34		
12-		
39		
13		
38		
13+		
37		
13-		
42		
14		
41		
14+		
40		
14-		
45		
15		
44		
15+		
43		
15-		
48		
16		
47		
16+		
46		
16-		

530LG01A03
PLC IO-Cabinet ER-54

Block	Term:	03
X06.06.A	01	49
X06.06.A	01L	50
X06.06.A	01N	51
X06.06.A	02	52
X06.06.A	02L	53
X06.06.A	02N	54
X06.06.A	03	55
X06.06.A	03L	56
X06.06.A	03N	57
X06.06.A	04	58
X06.06.A	04L	59
X06.06.A	04N	60
X06.06.A	05	61
X06.06.A	05L	62
X06.06.A	05N	63
X06.06.A	06	64
X06.06.A	06L	
X06.06.A	06N	
X06.06.A	07	
X06.06.A	07L	
X06.06.A	07N	
X06.06.A	08	
X06.06.A	08L	
X06.06.A	08N	
X06.06.A	09	
X06.06.A	09L	
X06.06.A	09N	
X06.06.A	10	
X06.06.A	10L	
X06.06.A	10N	
X06.06.A	11	
X06.06.A	11L	
X06.06.A	11N	
X06.06.A	12	
X06.06.A	12L	
X06.06.A	12N	
X06.06.A	13	
X06.06.A	13L	
X06.06.A	13N	
X06.06.A	14	
X06.06.A	14L	
X06.06.A	14N	
X06.06.A	15	
X06.06.A	15L	
X06.06.A	15N	
X06.06.A	16	
X06.06.A	16L	
X06.06.A	16N	

301JB110X06M01



301JB110X06
Digital
Junction Box Near to Mill

80019896

Location : Near to Mill

01.000220

301JB110X07
Junction Box Inlet Chute of 532BE02

A	Signal:	Component:
03	532BE02D01S41	532BE02D01
01	220 VAC	532BE02D01
02	.	.
01+	.	.
01-	.	.
06	532BE02D02Z41	532BE02X02
05	220 VAC	532BE02X02
02+	.	.
02-	.	.
09	532BE02D03Z41	532BE02X03
03	220 VAC	532BE02X03
03+	.	.
07	532BE02D04Z41	532BE02X04
12	220 VAC	532BE02X04
04	.	.
04+	.	.
10	532BE02D05Z41	532BE02X05
15	220 VAC	532BE02X05
05	.	.
05+	.	.
14	532BE02D06L41	532BE02D06
13	220 VAC	532BE02D06
05-	.	.
18	532BE02D07T41	532BE02D07
06	220 VAC	532BE02D07
06+	.	.
17	532BE02D08S41	532BE02D08
16	220 VAC	532BE02D08
06-	.	.
21	532BE02D09T41	532BE02D09
20	220 VAC	532BE02D09
07	.	.
07+	.	.
19	532S101D01L41	532S101D01
24	220 VAC	532S101D01
08	0/220 VAC	532S101D01
23	532S101D02L41	532S101D02
22	220 VAC	532S101D02
08-	0/220 VAC	532S101D02
27	532S101N01U41	532S101X01
26	220 VAC	532S101X01
09+	.	.
25	532D102D01Z41	532D102D01
09-	220 VAC	532D102D01
30	.	.
10	.	.
10+	.	.
10-	.	.
28	.	.
33	.	.
11	.	.
32	.	.
11+	.	.
31	.	.
11-	.	.
36	.	.
12	.	.
12+	.	.
35	.	.
12-	.	.
34	.	.
13	.	.
13+	.	.
39	.	.
13-	.	.
42	.	.
14	.	.
14+	.	.
40	.	.
14-	.	.
45	.	.
15	.	.
15+	.	.
44	.	.
43	.	.
15-	.	.
48	.	.
16	.	.
16+	.	.
47	.	.
16-	.	.
46	.	.

530L G01A03
PLC IO-Cabinet ER-54

Block	Term:	Signal:
X06.07.A	01	03
X06.07.A	01L	02
X06.07.A	01N	01
X06.07.A	02	06
X06.07.A	02L	05
X06.07.A	02N	04
X06.07.A	03	09
X06.07.A	03L	08
X06.07.A	03N	07
X06.07.A	04	12
X06.07.A	04L	11
X06.07.A	04N	10
X06.07.A	05	15
X06.07.A	05L	14
X06.07.A	05N	13
X06.07.A	06	18
X06.07.A	06L	17
X06.07.A	06N	16
X06.07.A	07	21
X06.07.A	07L	20
X06.07.A	07N	19
X06.07.A	08	24
X06.07.A	08L	23
X06.07.A	08N	22
X06.07.A	09	27
X06.07.A	09L	26
X06.07.A	09N	25
X06.07.A	10	30
X06.07.A	10L	29
X06.07.A	10N	28
X06.07.A	11	33
X06.07.A	11L	32
X06.07.A	11N	31
X06.07.A	12	36
X06.07.A	12L	35
X06.07.A	12N	34
X06.07.A	13	39
X06.07.A	13L	38
X06.07.A	13N	37
X06.07.A	14	42
X06.07.A	14L	41
X06.07.A	14N	40
X06.07.A	15	45
X06.07.A	15L	44
X06.07.A	15N	43
X06.07.A	16	48
X06.07.A	16L	47
X06.07.A	16N	46

301JB110X07M01



301JB110X07

Digital
Junction Box Inlet Chute of 532BE02

80019896

01.000230

Location : Inlet Chute of 532BE02

301JB110X08
Junction Box Near to Mill

A	Signal:	Component:
03	532MD01R01Z41	532MD01R01
01	220 VAC	532MD01R01
02		
01+		
01-		
06	532MD01R01Z42	532MD01R01
05		
02+		
02-		
04		
09	532MD01R01C41	532MD01R01
03		
03+		
07		
03-		
12	532MD01R01T42	532MD01R01
04		
11		
04+		
10		
04-		
15	532MD01R01T41	532MD01R01
05		
14		
05+		
13		
05-		
18	532MD01R01U42	532MD01R01
06		
17		
06+		
16		
06-		
21		
07		
20		
07+		
19		
07-		
24		
08		
23		
08+		
22		
08-		
27		
09		
26		
09+		
25		
09-		
30		
10		
29		
10+		
28		
10-		
33		
11		
32		
11+		
31		
11-		
36		
12		
35		
12+		
34		
12-		
39		
13		
38		
13+		
37		
13-		
42		
14		
41		
14+		
40		
14-		
45		
15		
44		
15+		
43		
15-		
48		
16		
47		
16+		
46		
16-		

530LG01A03
PLC IO-Cabinet ER-54

Block	Term:	03
X06.08.A	01	49
X06.08.A	01L	50
X06.08.A	01N	51
X06.08.A	02	52
X06.08.A	02L	53
X06.08.A	02N	54
X06.08.A	03	55
X06.08.A	03L	56
X06.08.A	03N	57
X06.08.A	04	58
X06.08.A	04L	59
X06.08.A	04N	60
X06.08.A	05	61
X06.08.A	05L	62
X06.08.A	05N	63
X06.08.A	06	64
X06.08.A	06L	
X06.08.A	06N	
X06.08.A	07	
X06.08.A	07L	
X06.08.A	07N	
X06.08.A	08	
X06.08.A	08L	
X06.08.A	08N	
X06.08.A	09	
X06.08.A	09L	
X06.08.A	09N	
X06.08.A	10	
X06.08.A	10L	
X06.08.A	10N	
X06.08.A	11	
X06.08.A	11L	
X06.08.A	11N	
X06.08.A	12	
X06.08.A	12L	
X06.08.A	12N	
X06.08.A	13	
X06.08.A	13L	
X06.08.A	13N	
X06.08.A	14	
X06.08.A	14L	
X06.08.A	14N	
X06.08.A	15	
X06.08.A	15L	
X06.08.A	15N	
X06.08.A	16	
X06.08.A	16L	
X06.08.A	16N	

301JB110X08M01

Location : Near to Mill

Tonasa	A UPS 110V DC (No Sig)	A UPS 110V DC (1) (No Sig)	-	11/2/2011 6:29:50 AM	1/27/2012 10:34:10 AM	Customer	A2
--------	------------------------	----------------------------	---	----------------------	-----------------------	----------	----

Customer
Supply

This equipment needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

X0	
U2	01
V2	02
W2	03
PE	PE

MCC Position:
Unit Type: B32
301UP100Q01 Feeder

301UP100Q01W01

No of cables 1

	1X1	
01	U1	380V AC Supply
02	V1	
03	W1	
PE	PE1	

301UP100A01
Cabinet



301UP100A01 UPS (110VDC)
Cabinet

80019896

01.000250

Tonasa	A UPS 110V DC (No Sig)	A UPS 110V DC (2) (No Sig)	-	11/2/2011 6:29:50 AM	1/27/2012 10:34:11 AM	Customer	A2
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Customer
Supply

<u>List of Consumers</u>		<u>Description</u>	
F01- 6 Amps	.	.	.
F02- 6 Amps	.	.	.
F03- 6 Amps	582ER53Q02	Incoming From 582ER52	Power Feeder
F04- 6 Amps	582ER54Q02	Incoming from 581SS51MB01	Power Feeder

Fuse Size and Fuse
Numbers are tentative.
It is to be corrected based
on document from client

301UP100A01
Cabinet

	301UP100A01	UPS (110VDC) Cabinet	80019896	01.000260
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530LG01A03

	Address	Position:	Term:
220 VAC		X06.09.A	06L
Bypass Operation	301UP110A01C82	DI N02.01..10.07	X06.09.A 06
Mains Failure	301UP110A01E41	DI N02.01..10.12	X06.09.A 09
Common Fault	301UP110A01U41	DI N02.01..10.09	X06.09.A 08
Battery Undervoltage	301UP110A01U43	DI N02.01..10.08	X06.09.A 07



This model needs detailed information from Client on terminals to be connected.
Terminals considered now are tentative

X0	01
U2	02
V2	03
W2	04
N2	04
PE	PE

MCC Position:
Unit Type: B28
301UP110Q01 Feeder

Customer Supply
UPS

11X2

01	1
02	2
03	3
04	4
05	5
PE	PE

X

02	+
01	-
PE	PE

1X1

01	U3
02	V3
03	W3
04	N3
PE	PE.

1X1

U2	
V2	
W2	
N2	
PE	

1X1

01	U1
02	V1
03	W1
04	N1
PE	PE

301UP110A01 Control Panel

301UP110A01M01

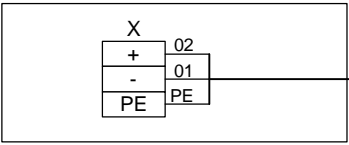
301UP110A02
Battery
Document: 80019896
Page: 01.000280

301UP110A03
Distribution
Document: 80019896
Page: 01.000300

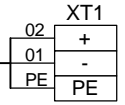
301UP110Q01W01
No of cables 1

Customer
Supply
UPS

301UP110A01
Control Panel



301UP110A02W01




Document: 80019896
Page: 01.000270

This model needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

301UP110A02
Battery

Tonasa		A UPS 30 KVA	A UPS 30KVA-3	-	5/5/2010 8:35:48 AM	1/27/2012 10:34:13 AM	Customer	A2
<u>List of Consumers (6 A)</u>		<u>Description</u>			<u>Document</u>	<u>Doc. Page</u>		
F1	531AF01U01	Apron Feeder	Frequency Converter		80019896	01.002180	Customer Supply UPS	
F2	531AF01U02	Apron Feeder	Frequency Converter		80019896	01.002200		
F3	531AF02U01	Shredder for AF	Frequency Converter		80019896	01.002240		
F4	531AF02U02	Shredder for AF	Frequency Converter		80019896	01.002260		
F5	531BC02U01	Belt Conveyor	Frequency Converter		80019896	01.002370		
F6	531BC03U01	Belt Conveyor	Frequency Converter		80019896	01.002430		
F7	531BC04U01	Belt Conveyor	Frequency Converter		80019896	01.002500		
F8	532MD02U01	Separator	Frequency Converter		80019896	01.003980		
F9	530LG01A11	Control System	Network Interface Box Profibus		80019896	01.001960		
F10	530LG01A12	Control System	Network Interface Box Profibus		80019896	01.001970		
F11	530LG01A13	Control System	Network Interface Box Profibus		80019896	01.001980		
F12	582ER52ALV01Q02	Incoming from 582ER52A	Feeder		80019896	01.004630		
F13	582ER52AMC01Q02	Incoming	Feeder		80019896	01.004680		
F14	582ER52AMC02Q02	Incoming	Feeder		80019896	01.004790		
F15	582ER52AMC04Q02	Incoming	Feeder		80019896	01.004890		
F16	582ER52AQ01	Outgoing to 528ER52	Power Feeder		80019899	01.003380		
F17	582ER52AQ02	Incoming from 581SS51	Power Feeder		80019896	01.004990		
F18	582ER53Q02	Incoming From 582ER52	Power Feeder		80019896	01.005250		
F19	582ER53MC01Q02	Incoming	Feeder		80019896	01.005140		
F20	582ER54Q02	Incoming from 581SS51MB01	Power Feeder		80019896	01.005930		
<u>List of Consumers (10 A)</u>		<u>Description</u>			<u>Document</u>	<u>Doc. Page</u>		
F21	582ER54ALV01Q02	Incoming	Feeder		80019896	01.005300		
F22	582ER54AMC01Q02	Incoming	Feeder		80019896	01.005350		
F23	582ER54AMC02Q02	Incoming	Feeder		80019896	01.005440		
F24	582ER54AMC11Q02	Incoming	Feeder		80019896	01.005550		
F25	582ER54BLV01Q02	Incoming	Feeder		80019896	01.005780		
F26	582ER54AMC21Q02	Incoming	Feeder		80019896	01.005610		
F27	582ER54AMC22Q02	Incoming	Feeder		80019896	01.005660		
F28	582ER54AMC23Q02	Incoming	Feeder		80019896	01.005710		
F29	582ER54BMC01Q02	Incoming	Feeder		80019896	01.005850		
F30	582ER53LV01Q02	Incoming	Feeder		80019896	01.005090		
<u>List of Consumers (16 A)</u>		<u>Description</u>			<u>Document</u>	<u>Doc. Page</u>		
F31	530LG01A01	Control System	PLC Cpu-Cabinet ER-54		80019896	01.001890		
F32	530LG01A02	Control System	PLC IO-Cabinet ER-54		80019896	01.001900		
F33	530LG01A03	Control System	PLC IO-Cabinet ER-54		80019896	01.001910		
F34	530LG01A14	Control System	Network Interface Box Ethernet		80019896	01.001990		
F35	530LG01A15	Control System	Network Interface Box Ethernet		80019896	01.002000		
F36	583ER53MC01Q02	Incoming	Feeder		80019896	01.005980		
F37	583ER54MC01Q02	Incoming	Feeder		80019896	01.006060		
F38	530LG01A16	Control System	Network Interface Box Ethernet		80019896	01.002010		
F39	530LG01A17	Control System	Network Interface Box Profibus		80019896	01.002020		
F40	530LG01A18	Control System	Network Interface Box Profibus		80019896	01.002030		
<u>List of Consumers (25 A)</u>		<u>Description</u>			<u>Document</u>	<u>Doc. Page</u>		
F41	530LG01A19	Control System	Network Interface Box Profibus		80019896	01.002040		
							301UP110A03 Distribution	
				301UP110A03	UPS Distribution		80019896	01.000290

Fuse Size and Fuse Numbers are tentative. It is to be corrected based on document from client

530LG01A03

	Address	Position:	Term:
220 VAC		X06.09.A	10L 02
Fault	301UP110A03U41	DI N02.01..10.13	X06.09.A 10 01



Customer
Supply

UPS

	X3
02	1
01	2
PE	PE

301UP110A03M01

This model needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

301UP110A01
Control Panel

1X1	
U3	01
V3	02
W3	03
N3	04
PE.	PE

Document: 80019896
Page: 01.000270

301UP110A03W01

	1X1
01	1
02	2
03	3
04	4
PE	5

301UP110A03
Distribution



301UP110A03

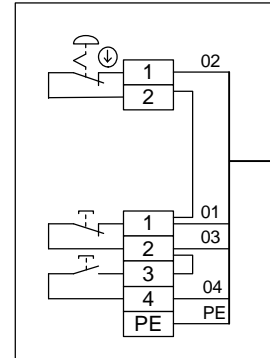
UPS
Distribution

80019896

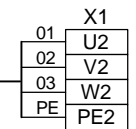
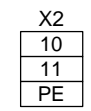
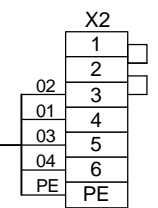
01.000300

LVDB 582ER54BMC01

321FN523S01
Start/Stop/E-stop



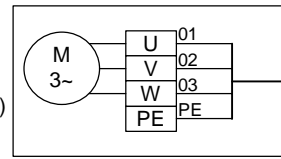
321FN523S01M01



321FN523M01W01

No of cables 1

321FN523M01
Motor
4 kW (Derated)
4 kW



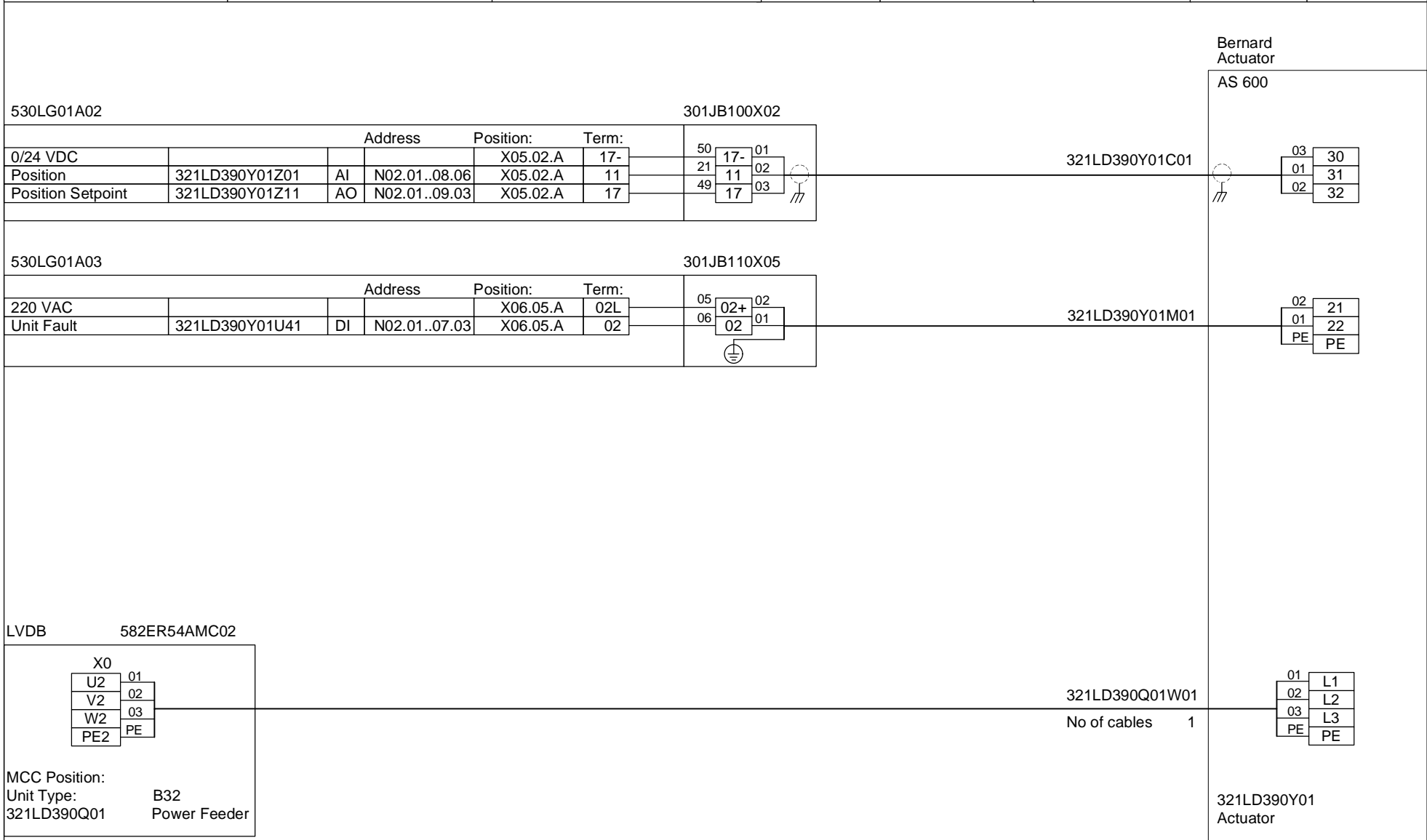
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.071
321FN523Q01
Motor Starter



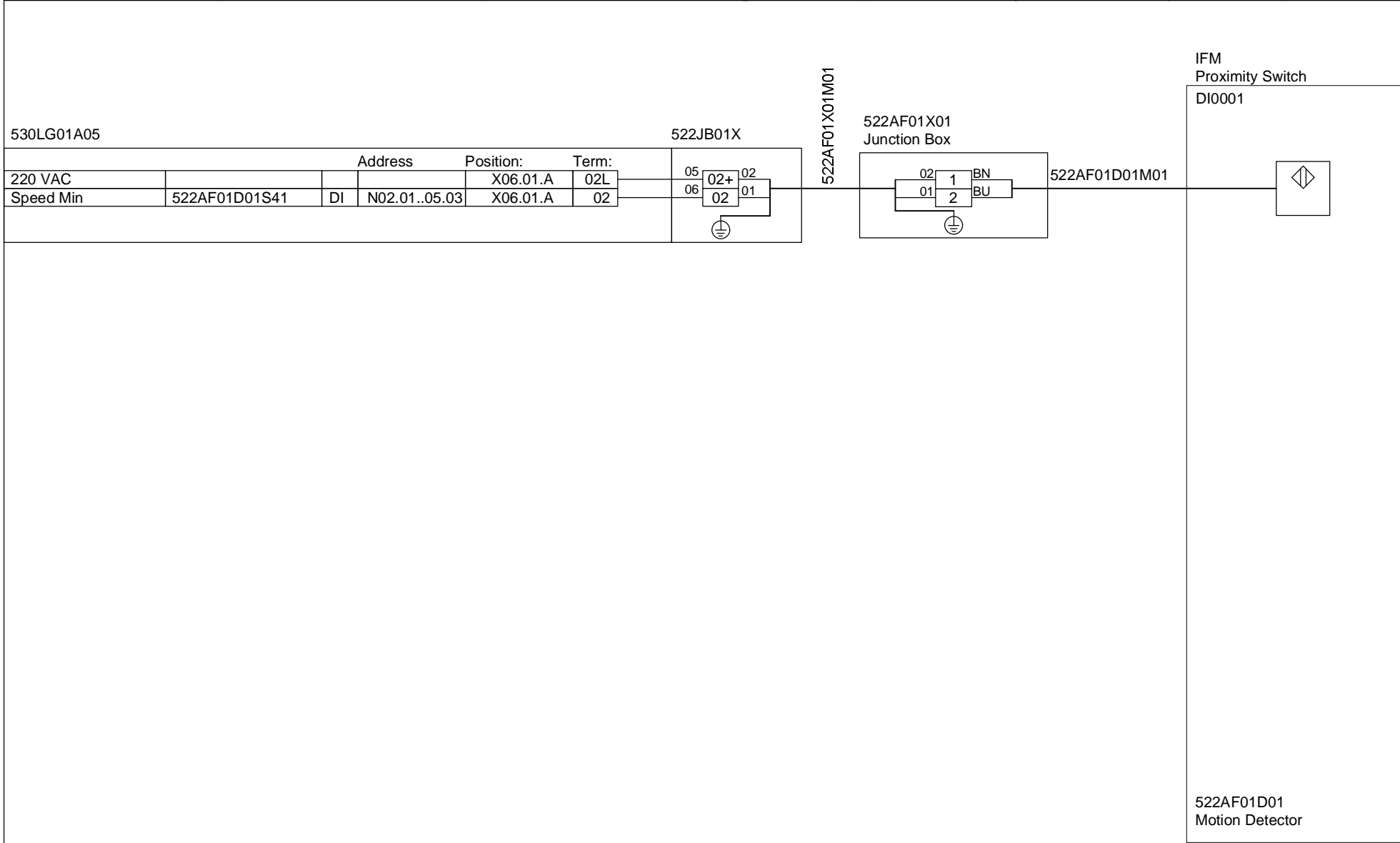
321FN523M01 Fluxoslide Fan Motor

80019896 01.000310

Tonasa	Y DA Bernard Actuator	Y DA Bernard Actuator	-	3/15/2010 5:54:37 AM	1/27/2012 10:34:15 AM	Customer	A2
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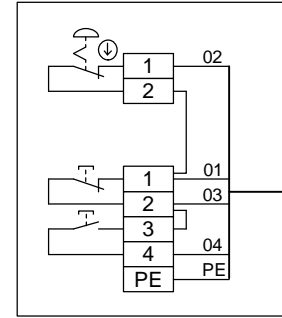


	321LD390Y01	Louvre Damper RM Fan Actuator	80019896	01.000320
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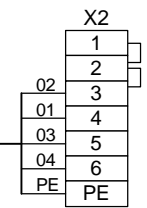


LVDB 582ER52AMC01

522AF01S01
Start/Stop/E-stop



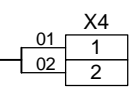
522AF01S01M01



522AF01M01
Motor

Document: 80019896
Page: 01.000350

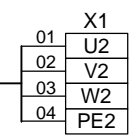
522AF01M01C01



522AF01U01
Frequency Converter

Document: 80019896
Page: 01.000350

522AF01U01W01



No of cables 1

MCC Position:
Unit Type: B15.1-UD-TH
Net: 530LG01:DP5
Node: MCC/MDB 2.011
522AF01Q01
Motor Starter



522AF01Q01 Apron Feeder
Motor Starter

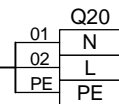
80019896 01.000340

ABB
Frequency Drive
ACS850-04-078A-
5+E200+J410+K454

582ER52AMC01F01
Feeder

Document: 80019896
Page: 01.004650

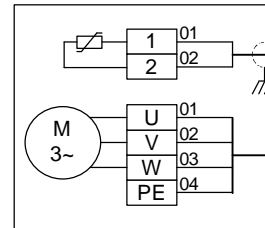
522AF01U01M01



522AF01Q01
Motor Starter

Doc: 80019896
Page: 01.000340

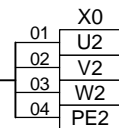
522AF01M01C01



522AF01M01
Motor
30 kW

522AF01M01W01

No of cables 1

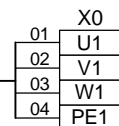


522AF01Q01
Motor Starter

Doc: 80019896
Page: 01.000340

522AF01U01W01

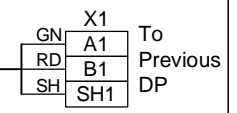
No of cables 1



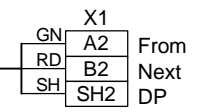
Net: 530LG01:DP3
Node: Field Device.021
522AF01U01
Frequency Converter

ABB
Frequency Drive
ACS850-04-078A-
5+E200+J410+K454

530LG01A20
Network Interface Box Profibus 522AF01U01Y01
Document: 80019896
Page: 01.002050

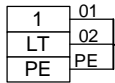


522CR01U01
Frequency Converter 522CR01U01Y01
Document: 80019896
Page: 01.000710



522AF01U01
Frequency Converter

522BC01S01
Start/Stop/E-stop

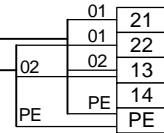


Document: 80019896
Page: 01.000400

Kiepe
Pull Rope Switch

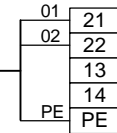
NTS 002

522BC01D01M01



522BC01D01
Pull Rope Switch

522BC01D02M01



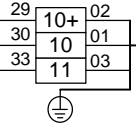
522BC01D02
Pull Rope Switch

Tonasa	S Kiepe Sway Detector 04 P. 2 St. LSC	S Kiepe Sway Detector 4 P. 2 St. LSC	-	9/28/2010 5:59:50 AM	1/27/2012 10:34:20 AM	Customer	A2
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530LG01A05

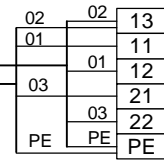
522JB01X

	Address	Position:	Term:
220 VAC		X06.01.A	10L
Sway Max 1	522BC01D03Z41	DI N02.01..05.13	X06.01.A 10
Sway Max 2	522BC01D03Z42	DI N02.01..05.14	X06.01.A 11



Kiepe
Off Track Limit Switch

SLS 011



522BC01D03M01

522BC01D04M01

522BC01D05M01

522BC01D06M01

522BC01D03
Sway Detector

522BC01D04
Sway Detector

522BC01D05
Sway Detector

522BC01D06
Sway Detector

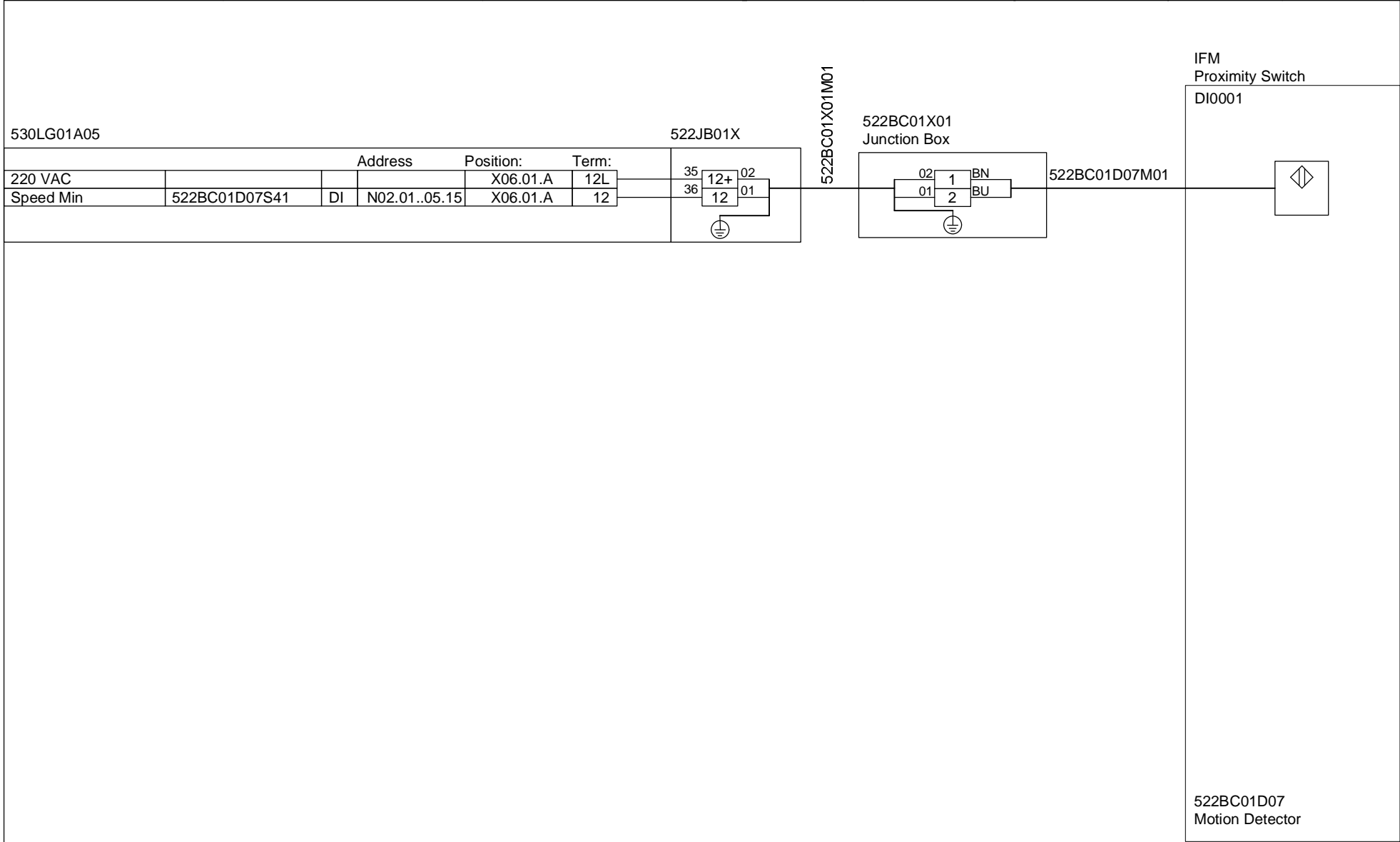


522BC01D03

Discharge Belt conveyor
Sway Detector

80019896

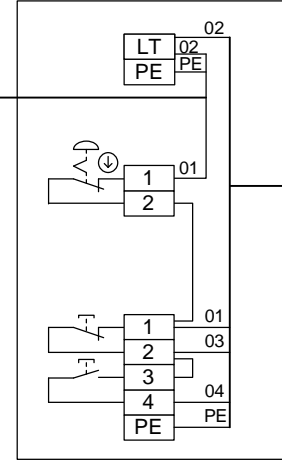
01.000380



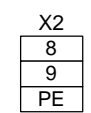
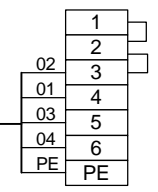
522BC01D01
 Pull Rope Switch
 Document: 80019896
 Page: 01.000370

522BC01S01
 Start/Stop/E-stop

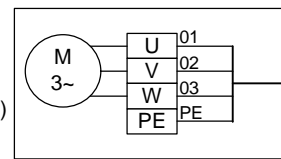
LVDB 582ER52AMC01



522BC01S01M01

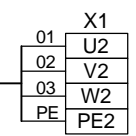


522BC01M01
 Motor
 17.9 kW (Derated)
 18.5 kW



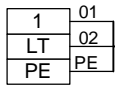
522BC01M01W01

No of cables 1

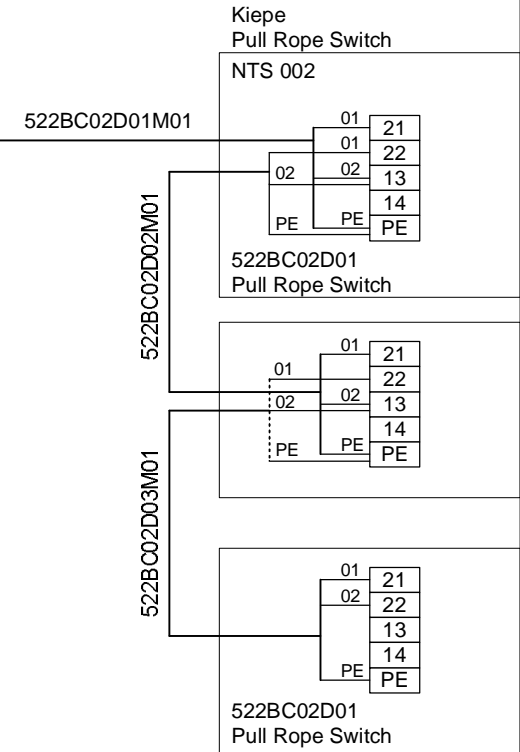


MCC Position:
 Unit Type: B01 - NO
 Net: 530LG01:DP5
 Node: MCC/MDB 2.012
 522BC01Q01
 Motor Starter

522BC02S01
Start/Stop/E-stop



Document: 80019896
Page: 01.000470

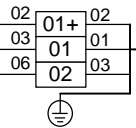


Tonasa	S Kiepe Sway Detector 04 P. 2 St. LSC	S Kiepe Sway Detector 4 P. 2 St. LSC	-	9/28/2010 6:00:21 AM	1/27/2012 10:34:23 AM	Customer	A2
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530LG01A05

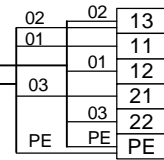
522JB02X

	Address	Position:	Term:
220 VAC		X06.02.A	01L
Sway Max 1	522BC02D04Z41	N02.01..05.22	X06.02.A 01
Sway Max 2	522BC02D04Z42	N02.01..05.23	X06.02.A 02



Kiepe
Off Track Limit Switch

SLS 011



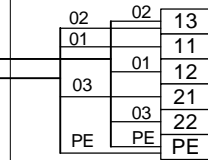
522BC02D04M01

522BC02D05M01

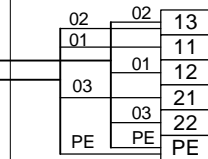
522BC02D06M01

522BC02D07M01

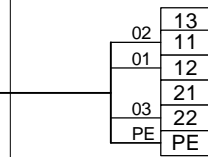
522BC02D04
Sway Detector



522BC02D05
Sway Detector



522BC02D06
Sway Detector



522BC02D07
Sway Detector



522BC02D04

Belt Conveyor
Sway Detector

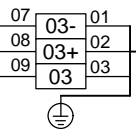
80019896

01.000420

530LG01A05

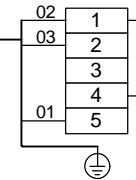
522JB02X

	Address	Position:	Term:	
0/220 VAC		X06.02.A	03N	07
220 VAC		X06.02.A	03L	08
Speed Min	522BC02D08S41	DI N02.01..05.24	X06.02.A	03



522BC02D08M01

Milltronics
ZSS



522BC02D08
Motion Detector



522BC02D08

Belt Conveyor
Motion Detector

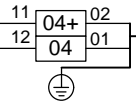
80019896

01.000430

530LG01A05

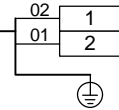
522JB02X

	Address	Position:	Term:
220 VAC		X06.02.A	04L
Temperature High	522BC02D09T41	DI	N02.01..05.25
		X06.02.A	04



522BC02D09M01

Panasonic
Limit Switch



522BC02D09
Temperature

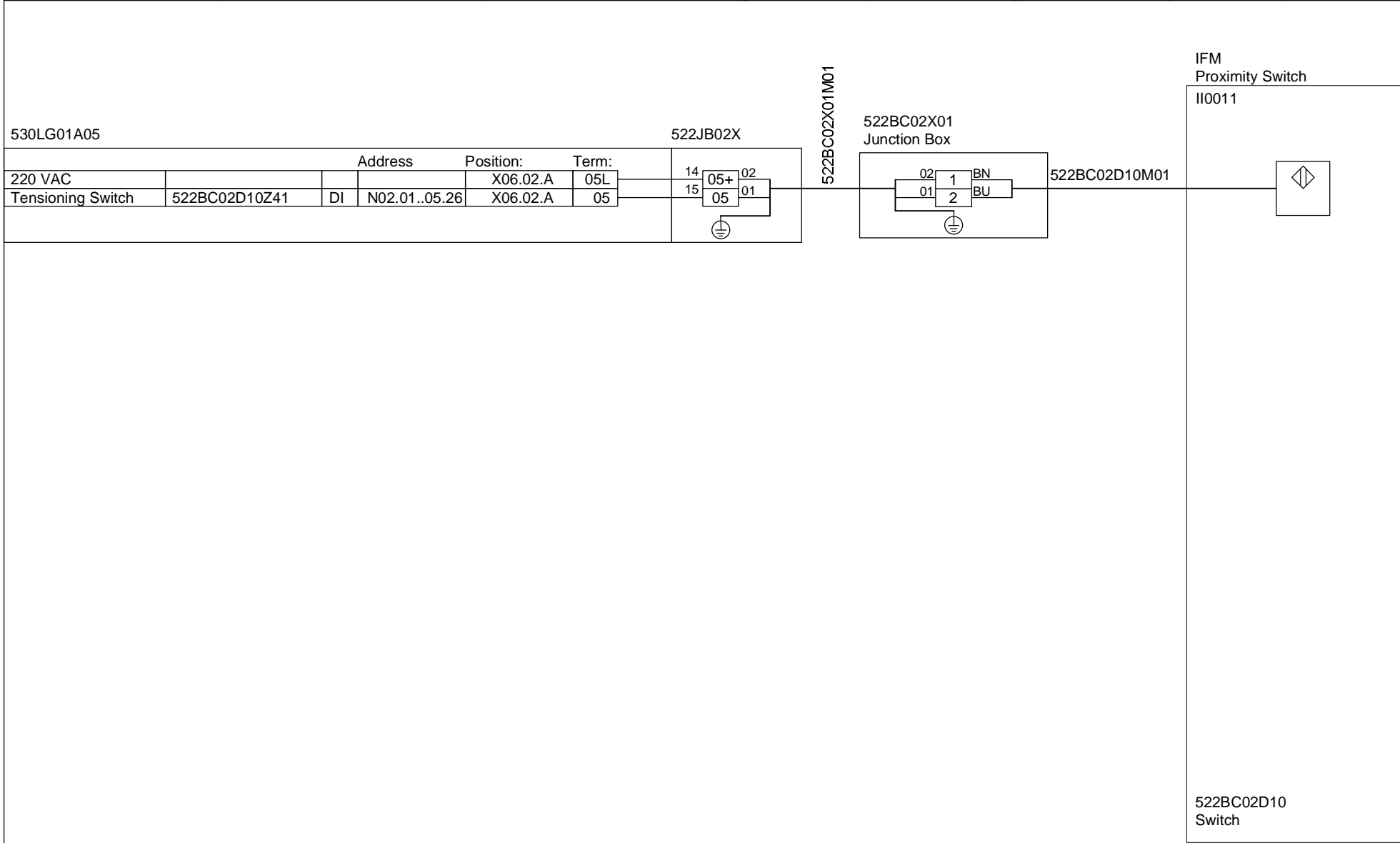


522BC02D09

Belt Conveyor Hydraulic Coupling
Temperature

80019896

01.000440



530LG01A05

522JB02X

522BC02X01
Junction Box

IFM
Proximity Switch
II0011

	Address	Position:	Term:
220 VAC		X06.02.A	05L
Tensioning Switch	522BC02D10Z41	N02.01..05.26	05

522BC02D10
Switch

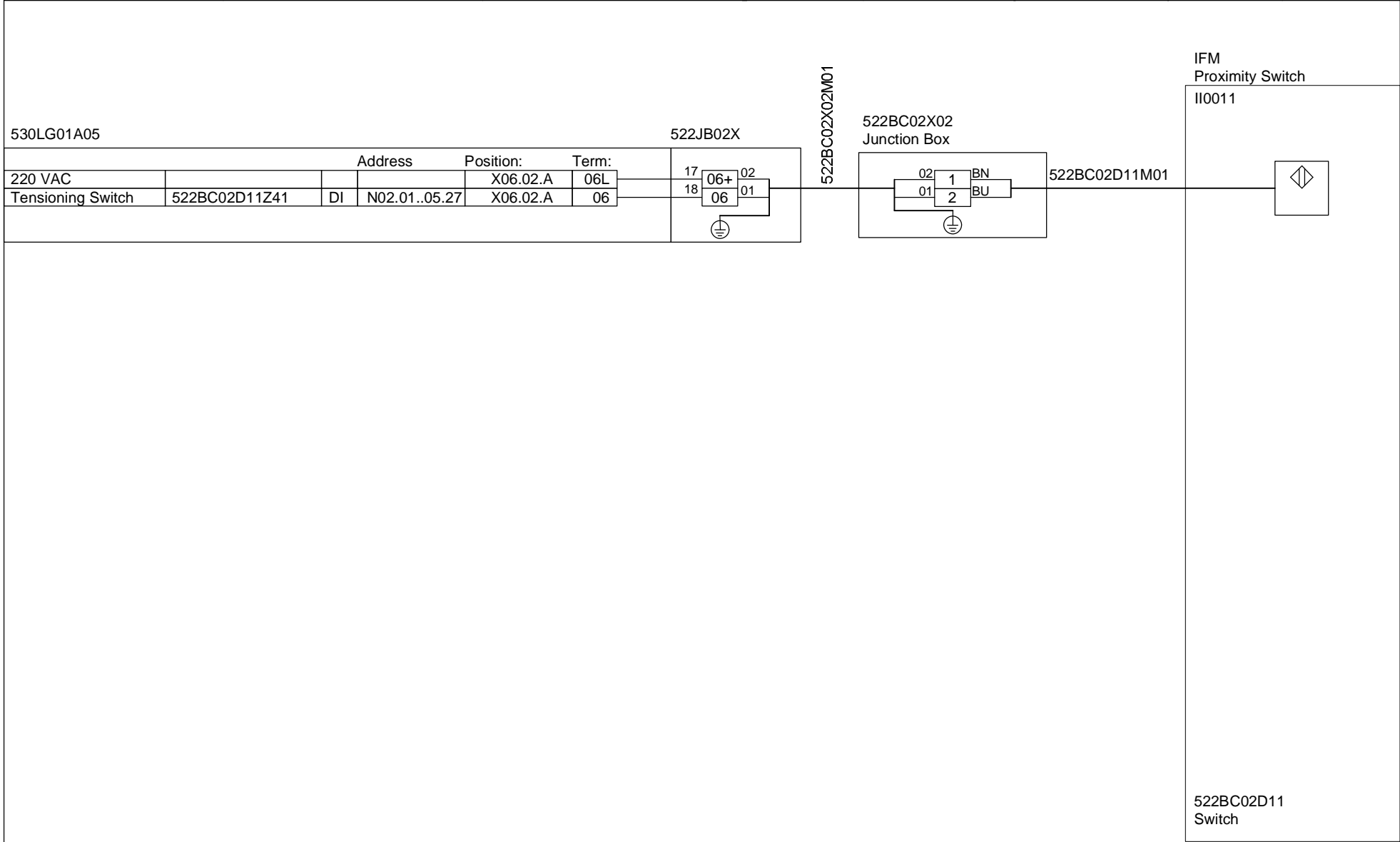


522BC02D10

Belt Conveyor Upper clamping stroke
Switch

80019896

01.000450

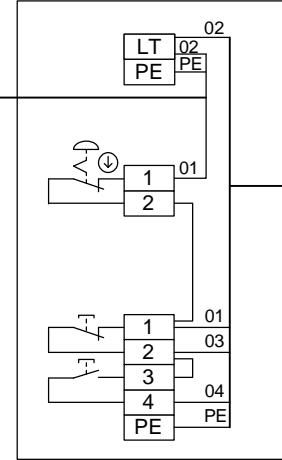


LVDB 582ER52AMC01

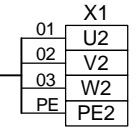
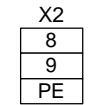
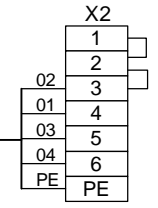
522BC02S01
Start/Stop/E-stop

522BC02D01
Pull Rope Switch
Document: 80019896
Page: 01.000410

522BC02D01M01



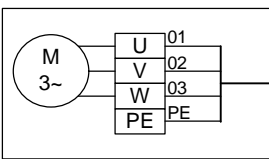
522BC02S01M01



522BC02M01W01

No of cables 1

522BC02M01
Motor
87 kW (Derated)
90 kW

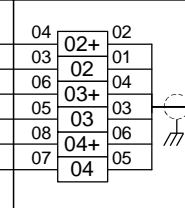


MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP5
Node: MCC/MDB 2.013
522BC02Q01 Motor Starter

530LG01A04

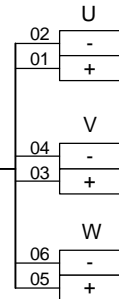
522JB01A

	Address	Position	Term:
+24 VDC		X05.01.A	02+
Winding Temp. -U	522BC02N21T01	AI N02.01..04.04	X05.01.A 02
+24 VDC		X05.01.A	03+
Winding Temp. -V	522BC02N22T01	AI N02.01..04.06	X05.01.A 03
+24 VDC		X05.01.A	04+
Winding Temp. -W	522BC02N23T01	AI N02.01..04.08	X05.01.A 04



522BC02N21C01

Customer
Supply



This model needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

Range: 0 - 130 °C

522BC02N21
Temperature

Tonasa	A Crane/Hoist	Cranes / Hoist	-	9/14/2010 5:02:50 AM	1/27/2012 10:34:27 AM	Customer	A2
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LVDB 582ER52AMC01

X0	
U2	01
V2	02
W2	03
PE2	PE

MCC Position:
 Type: 522CA01Q01 B32
 Power Feeder

522CA01Q01W01

No of cables 1

01	U1
02	V1
03	W1
PE	PE1

522CA01A01
 Cabinet

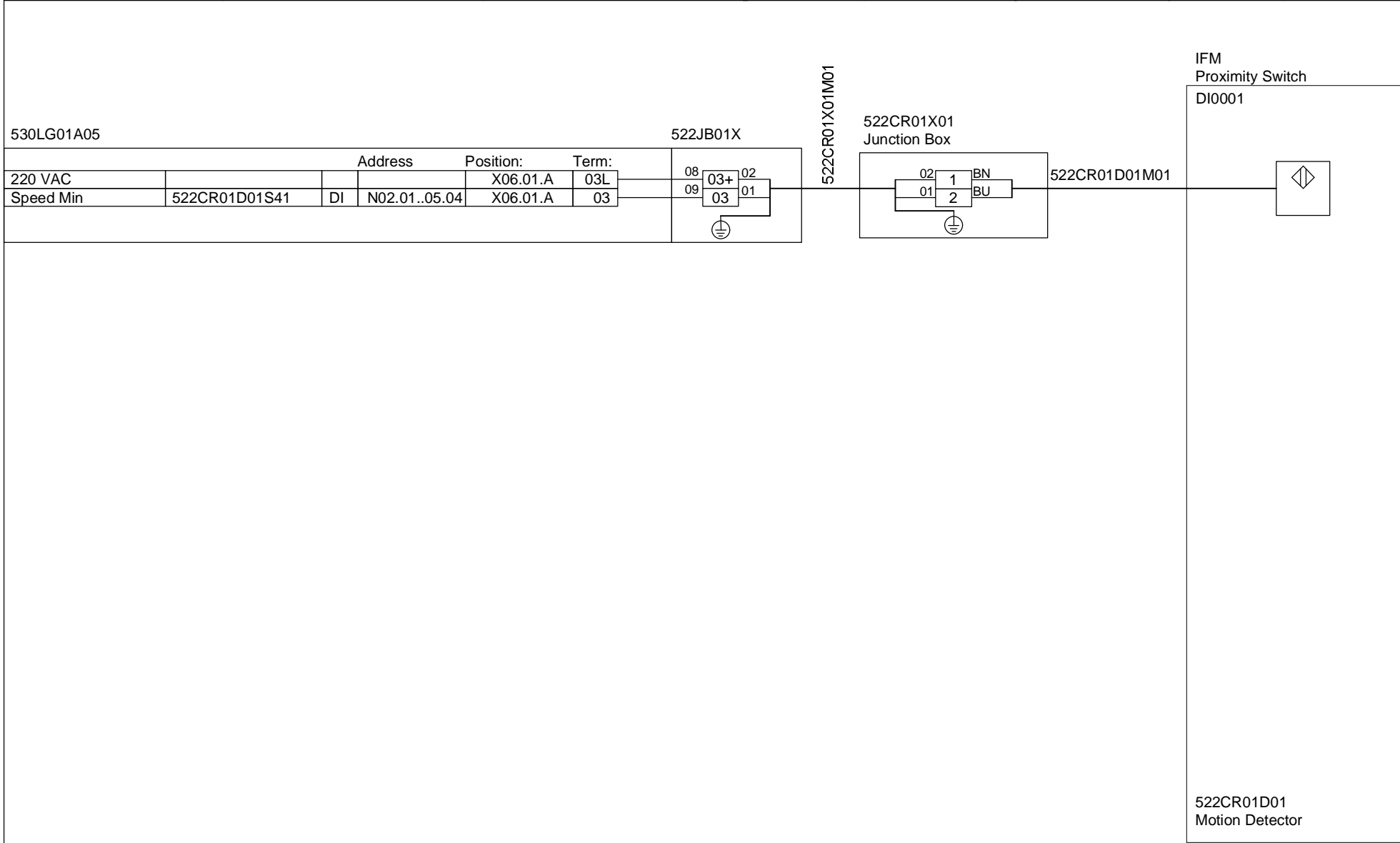


522CA01A01

Crane
 Cabinet

80019896

01.000490

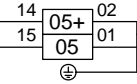


Tonasa	DP Mahle PI360	DP Mahle PI360	-	1/7/2011 8:52:05 AM	1/27/2012 10:34:29 AM	Customer	A2
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530LG01A05

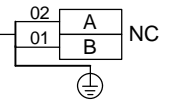
522JB01X

	Address	Position	Term:
220 VAC		X06.01.A	05L
Diff Pressure	522CR01D02P41	DI N02.01..05.06	X06.01.A 05



522CR01D02M01

Mahle
Pressure Switch
PI3605-013



522CR01D02
Pressure Switch



522CR01D02 Crusher
Pressure Switch

80019896

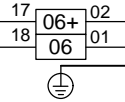
01.000510

Tonasa	DP Parker	DP Parker	-	1/7/2011 8:46:45 AM	1/27/2012 10:34:30 AM	Customer	A2
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530LG01A05

522JB01X

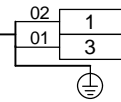
	Address	Position:	Term:
220 VAC		X06.01.A	06L
Diff Pressure	522CR01D03P41	DI N02.01..05.07	X06.01.A 06



522CR01D03M01

Interposing relays to be provided by client, as pressure switch is of 24VDC type

Parker
Pressure Switch
SCPSD-250-04-05



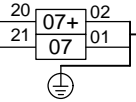
522CR01D03
Pressure Switch

	522CR01D03 Crusher Left Cylinder Pressure Switch	80019896	01.000520
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530LG01A05

522JB01X

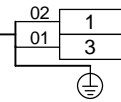
	Address	Position:	Term:
220 VAC		X06.01.A	07L
Diff Pressure	522CR01D04P41	DI N02.01..05.08	X06.01.A 07



522CR01D04M01

Interposing relays to be provided by client, as pressure switch is of 24VDC type

Parker Pressure Switch
SCPSD-250-04-05



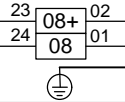
522CR01D04
Pressure Switch

530LG01A05

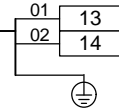
522JB01X

Schmersal
Position Switch
Z1R 236-11Y

	Address	Position	Term:
220 VAC		X06.01.A	08L
Open	522CR01D05Z41	DI N02.01..05.09	X06.01.A 08



522CR01D05M01



522CR01D05
Limit Switch

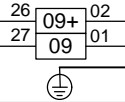
Tonasa	DZ Schmersal	DZ Schmersal	-	10/14/2010 6:05:24 AM	1/27/2012 10:34:33 AM	Customer	A2
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530LG01A05

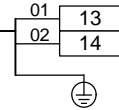
522JB01X

Schmersal
Position Switch
Z1R 236-11Y

	Address	Position	Term:
220 VAC		X06.01.A	09L
Open	522CR01D06Z41	DI N02.01..05.12	X06.01.A 09

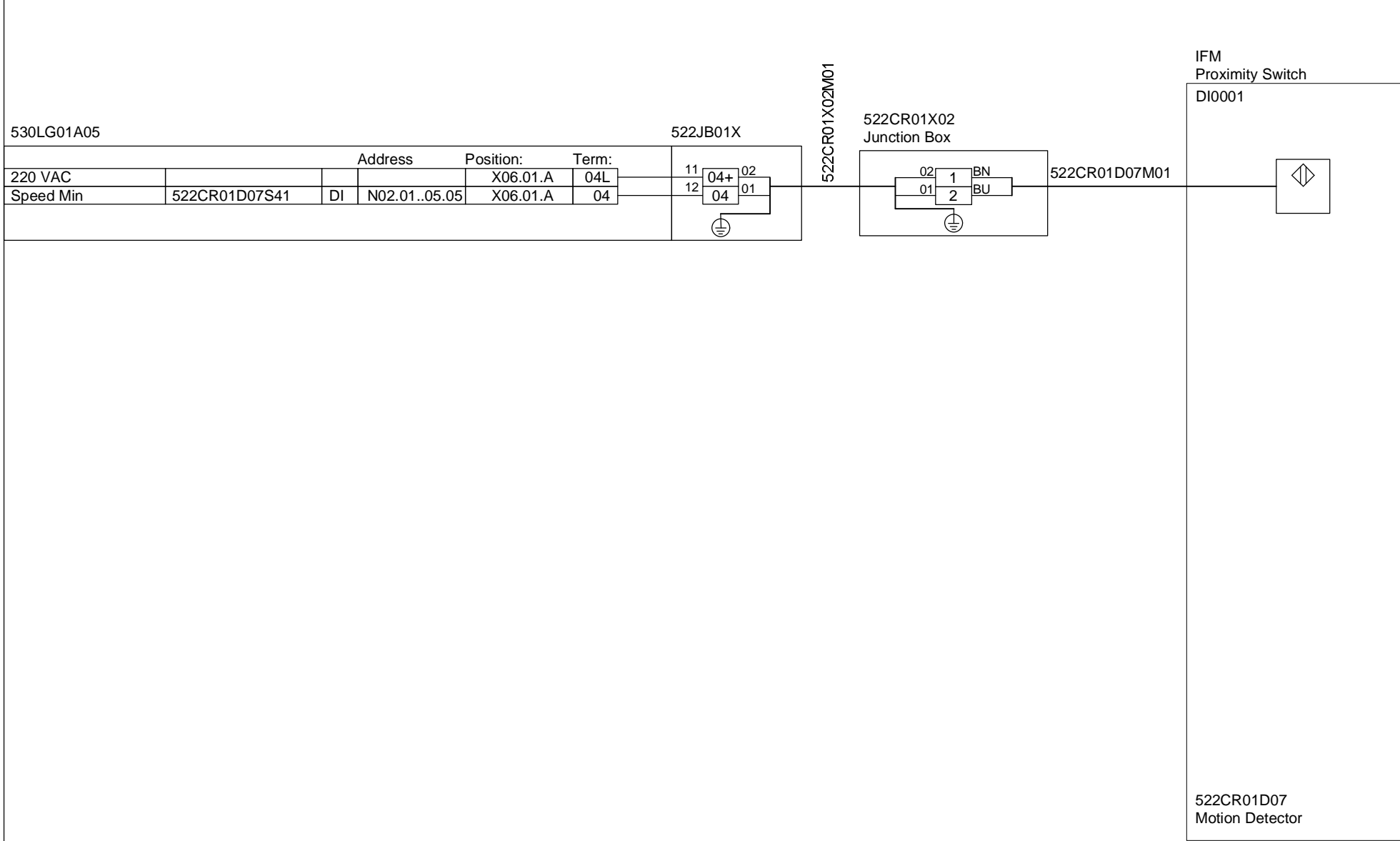


522CR01D06M01



522CR01D06
Limit Switch

	522CR01D06	Crusher Right Cylinder Limit Switch	80019896	01.000550
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530LG01A05		522JB01X	
	Address	Position:	Term:
220 VAC		X06.01.A	04L
Speed Min	522CR01D07S41	X06.01.A	04

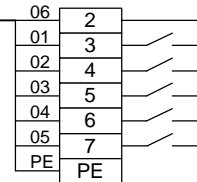
Tonasa	DZ TKF	DZ TKF	-	11/4/2011 10:34:01 AM	1/27/2012 10:34:35 AM	Customer	A2
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530LG01A03

	Address		Position	Term:	
220 VAC			X06.09.A	01L	06
Left Cyl Extends	522CR01D08Z41	DI	N02.01..10.02	X06.09.A	01
Left Cyl Retracts	522CR01D08Z42	DI	N02.01..10.03	X06.09.A	02
Right Cyl Extends	522CR01D08Z43	DI	N02.01..10.04	X06.09.A	03
Right Cyl Retracts	522CR01D08Z44	DI	N02.01..10.05	X06.09.A	04
Adjustment of Crushing gap	522CR01D08Z45	DI	N02.01..10.06	X06.09.A	05
					06

Customer
Supply

522CR01D08M01



This equipment needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

522CR01D08
Limit Switch



522CR01D08

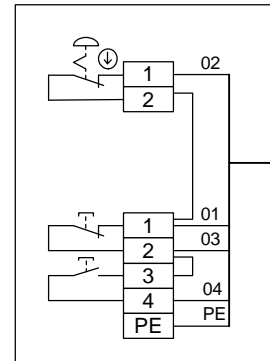
Crusher
Limit Switch

80019896

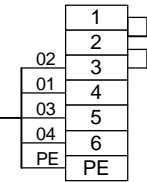
01.000570

LVDB 582ER52AMC01

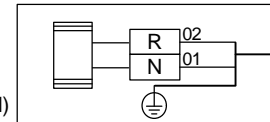
522CR01S04
Start/Stop/E-stop



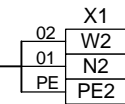
522CR01S04M01



522CR01E01
Heating Element
1 kW (Derated)
1 kW



522CR01E01M01



Position:
Unit Conn. Type: B22
Net: 530LG01:DP5
Node: MCC/MDB 2.017
522CR01Q04 Motor Starter



522CR01E01

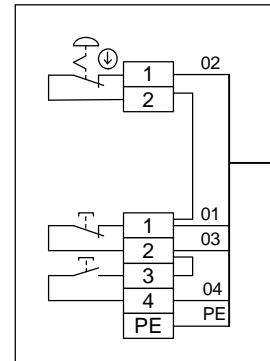
Crusher
Heating Element -1

80019896

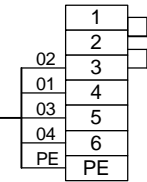
01.000580

LVDB 582ER52AMC01

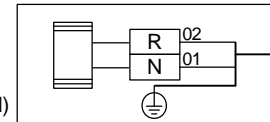
522CR01S05
Start/Stop/E-stop



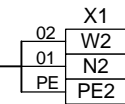
522CR01S05M01



522CR01E02
Heating Element
1 kW (Derated)
1 kW



522CR01E02M01



Position:
Unit Conn. Type: B22
Net: 530LG01:DP5
Node: MCC/MDB 2.018
522CR01Q05 Motor Starter



522CR01E02

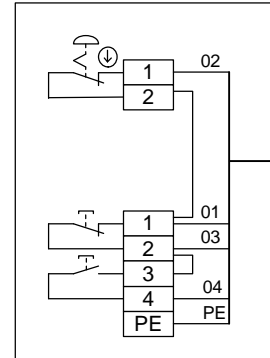
Crusher
Heating Element -2

80019896

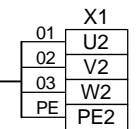
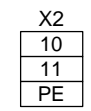
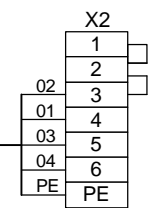
01.000590

LVDB 582ER52AMC01

522CR01S02
Start/Stop/E-stop



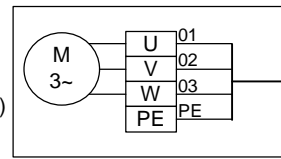
522CR01S02M01



522CR01M02W01

No of cables 1

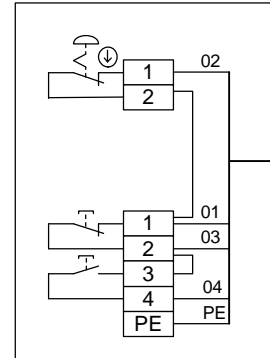
522CR01M02
Motor
87 kW (Derated)
90 kW



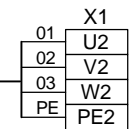
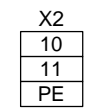
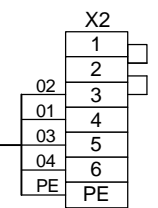
MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP5
Node: MCC/MDB 2.015
522CR01Q02
Motor Starter

LVDB 582ER52AMC01

522CR01S03
Start/Stop/E-stop



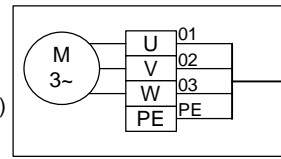
522CR01S03M01



522CR01M03W01

No of cables 1

522CR01M03
Motor
3 kW (Derated)
3 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.016
522CR01Q03
Motor Starter

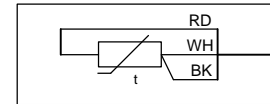
530LG01A04

522JB01A

Customer
Supply

	Address	Position:	Term:
+24 VDC		X05.01.A	08+
Temperature	522CR01N11T01	AI N02.01..04.18	X05.01.A 08

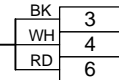
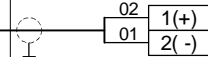
522CR01B01
Sensor



Pt100

522CR01N11C01

522CR01B01C01



Range 0 - 100 °C

522CR01N11

Temperature

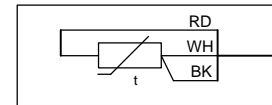
530LG01A04

522JB01A

Customer
Supply

	Address	Position:	Term:
+24 VDC		X05.01.A	09+
Temperature	522CR01N12T01	AI N02.01..05.02	X05.01.A 09

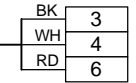
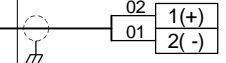
522CR01B02
Sensor



Pt100

522CR01N12C01

522CR01B02C01



Range 0 - 100 °C

522CR01N12

Temperature

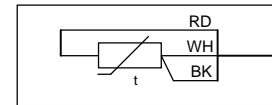
530LG01A04

522JB01A

Customer
Supply

	Address	Position:	Term:
+24 VDC		X05.01.A	10+
Temperature	522CR01N13T01	AI N02.01..05.04	X05.01.A 10

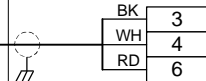
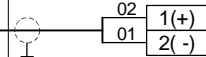
522CR01B03
Sensor



Pt100

522CR01N13C01

522CR01B03C01



Range 0 - 110 °C

522CR01N13

Temperature

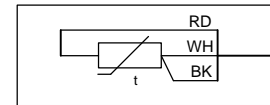
530LG01A04

522JB01A

Customer Supply

	Address	Position:	Term:
+24 VDC		X05.01.A	14+
Temperature	522CR01N14T01	AI N02.01..05.14	X05.01.A 14

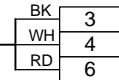
522CR01B04
Sensor



Pt100

522CR01N14C01

522CR01B04C01



Range 0 - 100 °C

522CR01N14

Temperature



522CR01N14 Crusher Mot-2 Roller Brg.
Temperature

80019896

01.000650

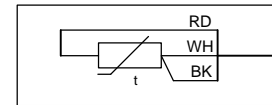
530LG01A04

522JB01A

Customer
Supply

	Address	Position:	Term:
+24 VDC		X05.01.A	15+
Temperature	522CR01N15T01	AI N02.01..05.16	X05.01.A 15

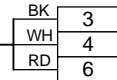
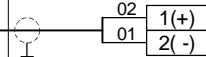
522CR01B05
Sensor



Pt100

522CR01N15C01

522CR01B05C01



Range 0 - 100 °C

522CR01N15

Temperature

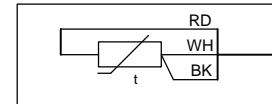
530LG01A04

522JB01A

	Address	Position:	Term:
+24 VDC		X05.01.A	16+
Temperature	522CR01N16T01	AI N02.01..05.18	X05.01.A 16

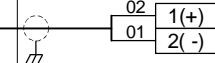
Customer Supply

522CR01B06 Sensor

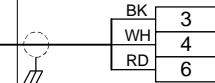


Pt100

522CR01N16C01



522CR01B06C01



Range 0 - 110 °C

522CR01N16

Temperature



522CR01N16 Crusher Mot-2 Gear Box Oil Temperature

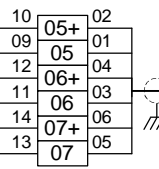
80019896

01.000670

530LG01A04

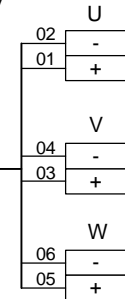
522JB01A

	Address	Position	Term:
+24 VDC		X05.01.A	05+
Winding Temp. -U	522CR01N21T01	AI N02.01..04.12	X05.01.A 05
+24 VDC		X05.01.A	06+
Winding Temp. -V	522CR01N22T01	AI N02.01..04.14	X05.01.A 06
+24 VDC		X05.01.A	07+
Winding Temp. -W	522CR01N23T01	AI N02.01..04.16	X05.01.A 07



522CR01N21C01

Customer
Supply



This model needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

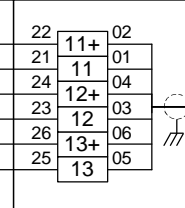
Range: 0 - 130 °C

522CR01N21
Temperature

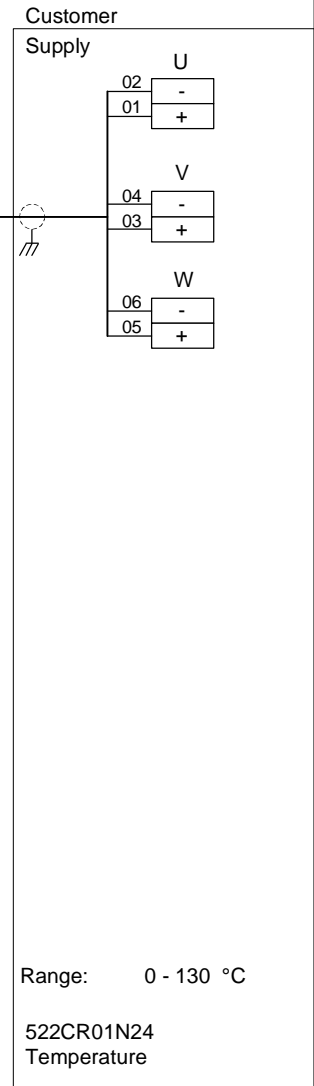
530LG01A04

522JB01A

	Address	Position	Term:
+24 VDC		X05.01.A	11+
Winding Temp. -U	522CR01N24T01	AI	N02.01..05.06
+24 VDC		X05.01.A	12+
Winding Temp. -V	522CR01N25T01	AI	N02.01..05.08
+24 VDC		X05.01.A	13+
Winding Temp. -W	522CR01N26T01	AI	N02.01..05.12



522CR01N24C01



This model needs detailed information from Client on terminals to be connected.

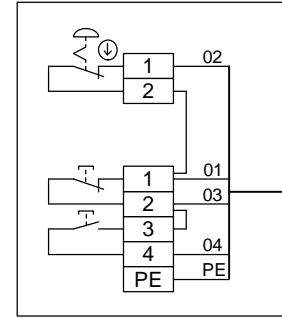
Terminals considered now are tentative

Range: 0 - 130 °C

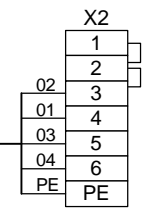
522CR01N24
Temperature

LVDB 582ER52AMC01

522CR01S01
Start/Stop/E-stop



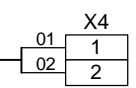
522CR01S01M01



522CR01M01
Motor

Document: 80019896
Page: 01.000710

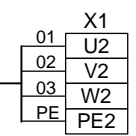
522CR01M01C01



522CR01U01
Frequency Converter

Document: 80019896
Page: 01.000710

522CR01U01W01



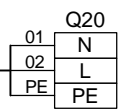
No of cables 1

MCC Position:
Unit Type: B15.1-UD-TH
Net: 530LG01:DP5
Node: MCC/MDB 2.014
522CR01Q01
Motor Starter

ABB
Frequency Drive
ACS850-04-260A-5+E210+J410+K454

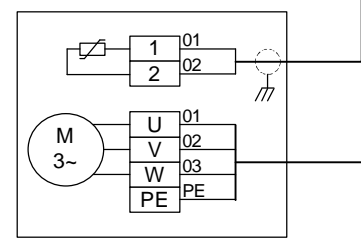
582ER52AMC01F01
Feeder
Document: 80019896
Page: 01.004650

522CR01U01M01



522CR01Q01
Motor Starter
Doc: 80019896
Page: 01.000700

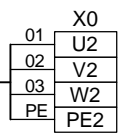
522CR01M01C01



522CR01M01
Motor
132 kW

522CR01M01W01

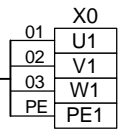
No of cables 1



522CR01Q01
Motor Starter
Doc: 80019896
Page: 01.000700

522CR01U01W01

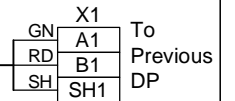
No of cables 1



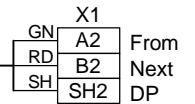
Net: 530LG01:DP3
Node: Field Device.022
522CR01U01
Frequency Converter

ABB
Frequency Drive
ACS850-04-260A-
5+E210+J410+K454

522AF01U01
Frequency Converter 522CR01U01Y01
Document: 80019896
Page: 01.000350



530LG01A20
Network Interface Box Profibus 530LG01A20Y02
Document: 80019896
Page: 01.002050



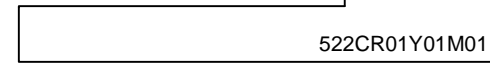
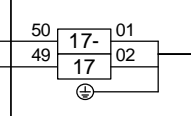
522CR01U01
Frequency Converter

Tonasa	DL Generic (1 DO- S/V) 522CR01	DL Generic (1 DO- S/V) 522CR01	-	9/15/2011 6:25:49 AM	1/27/2012 10:34:46 AM	Customer	A2
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530LG01A05

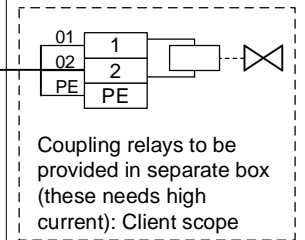
522JB01X

	Address	Position	Term:
0/220 VAC		X06.01.A	17N
Oil Circuit Valve Y1	522CR01Y01C31	DO N02.01..07.02	X06.01.A 17



Customer

Supply



280VA at startup peak
61VA during operation

522CR01Y01
Solenoid Valve

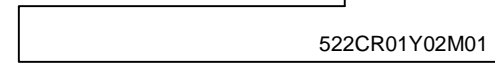
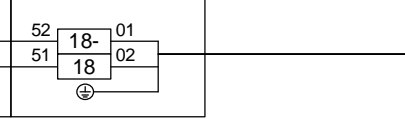
	522CR01Y01	Crusher Solenoid Valve	80019896	01.000730
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Tonasa	DL Generic (1 DO- S/V) 522CR01	DL Generic (1 DO- S/V) 522CR01	-	9/15/2011 6:26:10 AM	1/27/2012 10:34:47 AM	Customer	A2
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530LG01A05

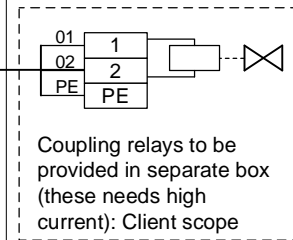
522JB01X

	Address	Position	Term:
0/220 VAC		X06.01.A	18N
Oil Circuit Valve Y2	522CR01Y02C31	DO N02.01..07.03	X06.01.A 18



Customer

Supply



Coupling relays to be provided in separate box (these needs high current): Client scope

280VA at startup peak
61VA during operation

522CR01Y02
Solenoid Valve

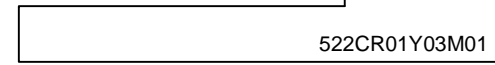
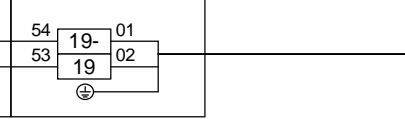
	522CR01Y02	Crusher Solenoid Valve	80019896	01.000740
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Tonasa	DL Generic (1 DO- S/V) 522CR01	DL Generic (1 DO- S/V) 522CR01	-	9/15/2011 6:30:17 AM	1/27/2012 10:34:47 AM	Customer	A2
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530LG01A05

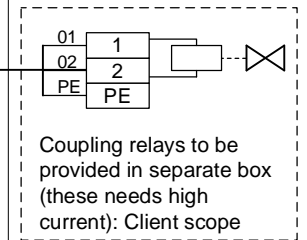
522JB01X

	Address	Position	Term:
0/220 VAC		X06.01.A	19N
Adjusting Valve Y3	522CR01Y03C31	DO N02.01..07.04	X06.01.A 19



Customer

Supply



Coupling relays to be provided in separate box (these needs high current): Client scope

280VA at startup peak
61VA during operation

522CR01Y03
Solenoid Valve

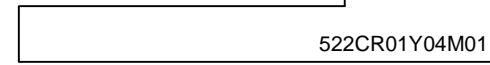
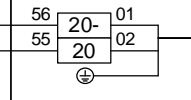
	522CR01Y03	Crusher Solenoid Valve	80019896	01.000750
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Tonasa	DL Generic (1 DO- S/V) 522CR01	DL Generic (1 DO- S/V) 522CR01	-	9/15/2011 6:31:26 AM	1/27/2012 10:34:48 AM	Customer	A2
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530LG01A05

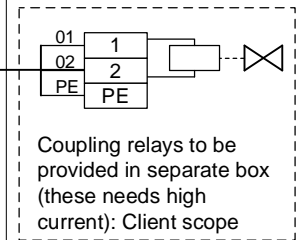
522JB01X

	Address	Position	Term:
0/220 VAC		X06.01.A	20N
Adjusting Valve Y4	522CR01Y04C31	DO N02.01..07.05	X06.01.A 20



Customer

Supply



Coupling relays to be provided in separate box (these needs high current): Client scope

280VA at startup peak
61VA during operation

522CR01Y04
Solenoid Valve



522CR01Y04

Crusher
Solenoid Valve

80019896

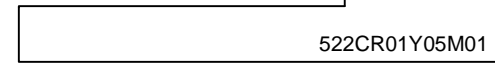
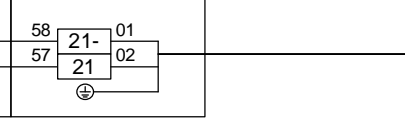
01.000760

Tonasa	DL Generic (1 DO- S/V) 522CR01	DL Generic (1 DO- S/V) 522CR01	-	9/15/2011 6:26:29 AM	1/27/2012 10:34:48 AM	Customer	A2
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530LG01A05

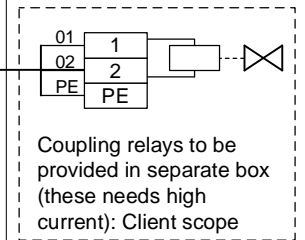
522JB01X

	Address	Position	Term:
0/220 VAC		X06.01.A	21N
Adjusting Valve Y5	522CR01Y05C31	DO N02.01..07.06	X06.01.A 21



Customer

Supply



Coupling relays to be provided in separate box (these needs high current): Client scope

280VA at startup peak
61VA during operation

522CR01Y05
Solenoid Valve

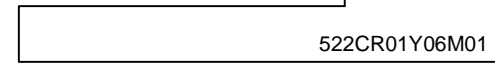
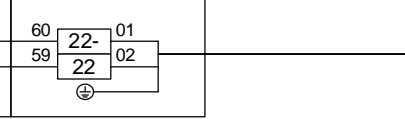
	522CR01Y05	Crusher Solenoid Valve	80019896	01.000770
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Tonasa	DL Generic (1 DO- S/V) 522CR01	DL Generic (1 DO- S/V) 522CR01	-	9/15/2011 7:05:33 AM	1/27/2012 10:34:49 AM	Customer	A2
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530LG01A05

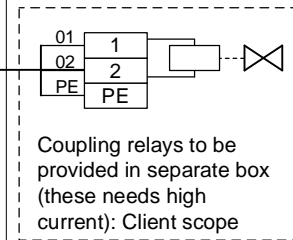
522JB01X

	Address	Position	Term:
0/220 VAC		X06.01.A	22N
Adjusting Valve Y6	522CR01Y06C31	DO N02.01..07.07	X06.01.A 22



Customer

Supply

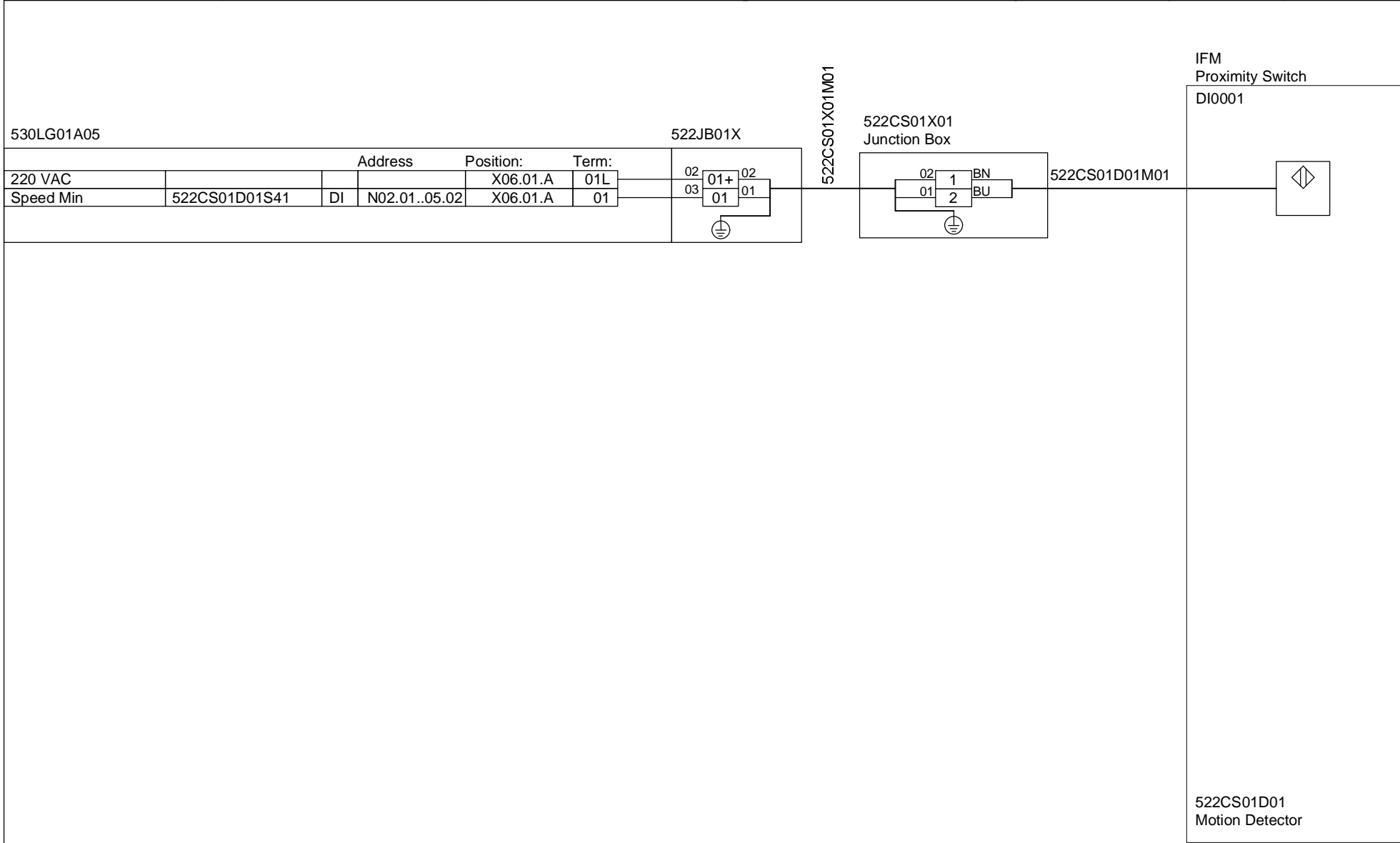


Coupling relays to be provided in separate box (these needs high current): Client scope

280VA at startup peak
61VA during operation

522CR01Y06
Solenoid Valve

	522CR01Y06	Crusher Solenoid Valve	80019896	01.000780
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530LG01A05

522JB01X

522CS01X01M01

522CS01X01
Junction Box

522CS01D01M01

IFM
Proximity Switch
DI0001

	Address	Position:	Term:
220 VAC		X06.01.A	01L
Speed Min	522CS01D01S41	X06.01.A	01

522CS01D01
Motion Detector



522CS01D01

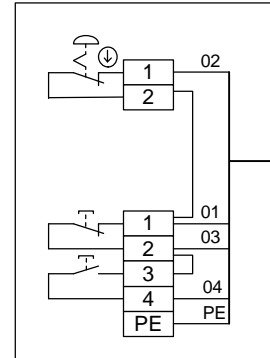
Spillage Conveyor
Motion Detector

80019896

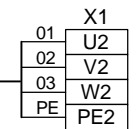
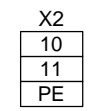
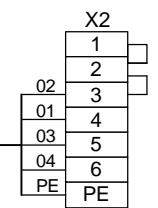
01.000790

LVDB 582ER52AMC01

522CS01S01
Start/Stop/E-stop



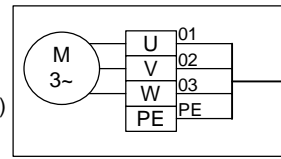
522CS01S01M01



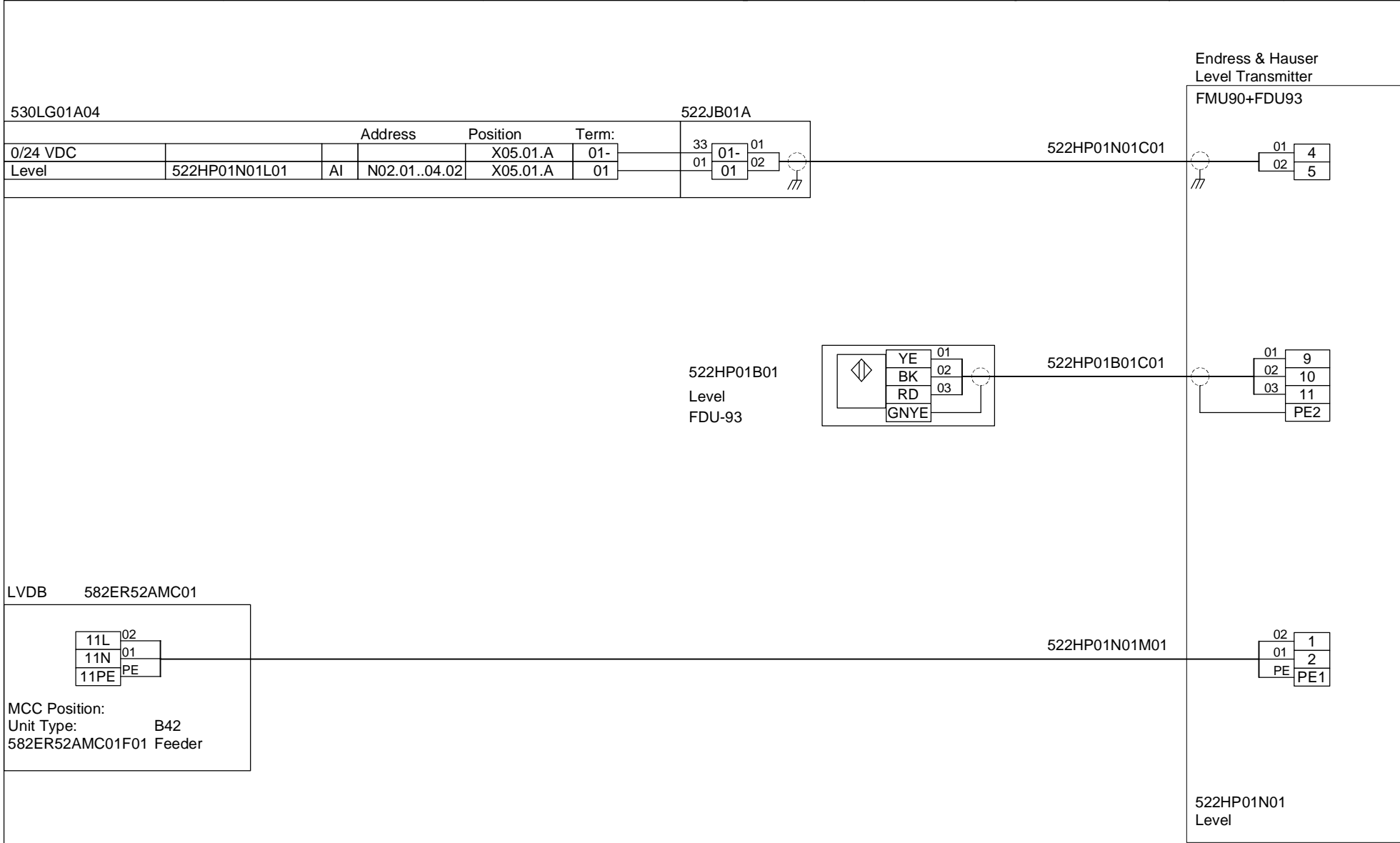
522CS01M01W01

No of cables 1

522CS01M01
Motor
3 kW (Derated)
3 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.019
522CS01Q01
Motor Starter



522JB01A
Junction Box

Block	Term:	Signal:	Component:
01	X05.01.A 01	522HP01N01L01	522HP01N01
02	X05.01.A 01+	.	.
33	X05.01.A 01-	0/24 VDC	522HP01N01
03	X05.01.A 02	522BC02N21T01	522BC02N21
04	X05.01.A 02+	+24 VDC	522BC02N21
34	X05.01.A 02-	.	.
05	X05.01.A 03	522BC02N22T01	522BC02N22
06	X05.01.A 03+	+24 VDC	522BC02N22
35	X05.01.A 03-	.	.
07	X05.01.A 04	522BC02N23T01	522BC02N23
08	X05.01.A 04+	+24 VDC	522BC02N23
36	X05.01.A 04-	.	.
09	X05.01.A 05	522CR01N21T01	522CR01N21
10	X05.01.A 05+	+24 VDC	522CR01N21
37	X05.01.A 05-	.	.
11	X05.01.A 06	522CR01N22T01	522CR01N22
12	X05.01.A 06+	+24 VDC	522CR01N22
38	X05.01.A 06-	.	.
13	X05.01.A 07	522CR01N23T01	522CR01N23
14	X05.01.A 07+	+24 VDC	522CR01N23
39	X05.01.A 07-	.	.
15	X05.01.A 08	522CR01N11T01	522CR01N11
16	X05.01.A 08+	+24 VDC	522CR01N11
40	X05.01.A 08-	.	.
17	X05.01.A 09	522CR01N12T01	522CR01N12
18	X05.01.A 09+	+24 VDC	522CR01N12
41	X05.01.A 09-	.	.
19	X05.01.A 10	522CR01N13T01	522CR01N13
20	X05.01.A 10+	+24 VDC	522CR01N13
42	X05.01.A 10-	.	.
21	X05.01.A 11	522CR01N24T01	522CR01N24
22	X05.01.A 11+	+24 VDC	522CR01N24
43	X05.01.A 11-	.	.
23	X05.01.A 12	522CR01N25T01	522CR01N25
24	X05.01.A 12+	+24 VDC	522CR01N25
44	X05.01.A 12-	.	.
25	X05.01.A 13	522CR01N26T01	522CR01N26
26	X05.01.A 13+	+24 VDC	522CR01N26
45	X05.01.A 13-	.	.
27	X05.01.A 14	522CR01N14T01	522CR01N14
28	X05.01.A 14+	+24 VDC	522CR01N14
46	X05.01.A 14-	.	.
29	X05.01.A 15	522CR01N15T01	522CR01N15
30	X05.01.A 15+	+24 VDC	522CR01N15
47	X05.01.A 15-	.	.
31	X05.01.A 16	522CR01N16T01	522CR01N16
32	X05.01.A 16+	+24 VDC	522CR01N16
48	X05.01.A 16-	.	.

49	17	.	.
50	17-	.	.
51	18	.	.
52	18-	.	.
53	19	.	.
54	19-	.	.
55	20	.	.
56	20-	.	.

522JB01AC01

530LG01A04
PLC IO-Cabinet ER-52A

Block	Term:
01	X05.01.A 01
02	X05.01.A 01+
33	X05.01.A 01-
03	X05.01.A 02
04	X05.01.A 02+
34	X05.01.A 02-
05	X05.01.A 03
06	X05.01.A 03+
35	X05.01.A 03-
07	X05.01.A 04
08	X05.01.A 04+
36	X05.01.A 04-
09	X05.01.A 05
10	X05.01.A 05+
37	X05.01.A 05-
11	X05.01.A 06
12	X05.01.A 06+
38	X05.01.A 06-
13	X05.01.A 07
14	X05.01.A 07+
39	X05.01.A 07-
15	X05.01.A 08
16	X05.01.A 08+
40	X05.01.A 08-
17	X05.01.A 09
18	X05.01.A 09+
41	X05.01.A 09-
19	X05.01.A 10
20	X05.01.A 10+
42	X05.01.A 10-
21	X05.01.A 11
22	X05.01.A 11+
43	X05.01.A 11-
23	X05.01.A 12
24	X05.01.A 12+
44	X05.01.A 12-
25	X05.01.A 13
26	X05.01.A 13+
45	X05.01.A 13-
27	X05.01.A 14
28	X05.01.A 14+
46	X05.01.A 14-
29	X05.01.A 15
30	X05.01.A 15+
47	X05.01.A 15-
31	X05.01.A 16
32	X05.01.A 16+
48	X05.01.A 16-

49	X05.01.A 17
50	X05.01.A 17-
51	X05.01.A 18
52	X05.01.A 18-
53	X05.01.A 19
54	X05.01.A 19-
55	X05.01.A 20
56	X05.01.A 20-

Location :



522JB01A

Analog
Junction Box

80019896

01.000820

522JB01X
Junction Box

A	Signal:	Component:
03	522CS01D01S41	522CS01X01
01	220 VAC	522CS01X01
02		
01+		
01-		
06	522AF01D01S41	522AF01X01
05	220 VAC	522AF01X01
02+		
02-		
09	522CR01D01S41	522CR01X01
03	220 VAC	522CR01X01
03+		
07		
03-		
12	522CR01D07S41	522CR01X02
04	220 VAC	522CR01X02
04+		
10		
04-		
15	522CR01D02P41	522CR01D02
05	220 VAC	522CR01D02
14		
05+		
13		
05-		
18	522CR01D03P41	522CR01D03
06	220 VAC	522CR01D03
17		
06+		
16		
06-		
21	522CR01D04P41	522CR01D04
07	220 VAC	522CR01D04
20		
07+		
19		
07-		
24		
08	522CR01D05Z41	522CR01D05
23	220 VAC	522CR01D05
22		
08-		
27	522CR01D06Z41	522CR01D06
09	220 VAC	522CR01D06
26		
09+		
25		
09-		
30	522BC01D03Z41	522BC01D03
10	220 VAC	522BC01D03
29		
10+		
28		
10-		
33	522BC01D03Z42	522BC01D03
11		
32		
11+		
31		
11-		
36	522BC01D07S41	522BC01X01
12	220 VAC	522BC01X01
35		
12+		
34		
12-		
39	582ER52D01T41	582ER52D01
13	220 VAC	582ER52D01
38		
13+		
37		
13-		
42	582ER52D02X41	582ER52D02
14	220 VAC	582ER52D02
41		
14+		
40		
14-		
45		
15		
44		
15+		
43		
15-		
48		
16		
47		
16+		
46		
16-		
49		
17	522CR01Y01C31	522CR01Y01
50	0/220 VAC	522CR01Y01
51		
18	522CR01Y02C31	522CR01Y02
52	0/220 VAC	522CR01Y02
53		
19	522CR01Y03C31	522CR01Y03
54	0/220 VAC	522CR01Y03
55		
20	522CR01Y04C31	522CR01Y04
56	0/220 VAC	522CR01Y04
57		
21	522CR01Y05C31	522CR01Y05
58	0/220 VAC	522CR01Y05
59		
22	522CR01Y06C31	522CR01Y06
60	0/220 VAC	522CR01Y06
61		
23		
62		
23-		
63		
24		
64		
24-		

522JB01XM01

Block	Term:	Component:
X06.01.A	01	
X06.01.A	01L	
X06.01.A	01N	
X06.01.A	02	
X06.01.A	02L	
X06.01.A	02N	
X06.01.A	03	
X06.01.A	03L	
X06.01.A	03N	
X06.01.A	04	
X06.01.A	04L	
X06.01.A	04N	
X06.01.A	05	
X06.01.A	05L	
X06.01.A	05N	
X06.01.A	06	
X06.01.A	06L	
X06.01.A	06N	
X06.01.A	07	
X06.01.A	07L	
X06.01.A	07N	
X06.01.A	08	
X06.01.A	08L	
X06.01.A	08N	
X06.01.A	09	
X06.01.A	09L	
X06.01.A	09N	
X06.01.A	10	
X06.01.A	10L	
X06.01.A	10N	
X06.01.A	11	
X06.01.A	11L	
X06.01.A	11N	
X06.01.A	12	
X06.01.A	12L	
X06.01.A	12N	
X06.01.A	13	
X06.01.A	13L	
X06.01.A	13N	
X06.01.A	14	
X06.01.A	14L	
X06.01.A	14N	
X06.01.A	15	
X06.01.A	15L	
X06.01.A	15N	
X06.01.A	16	
X06.01.A	16L	
X06.01.A	16N	
49		
17		
50		
17N		
51		
18		
52		
18N		
53		
19		
54		
19N		
55		
20		
56		
20N		
57		
21		
58		
21N		
59		
22		
60		
22N		
61		
23		
62		
23N		
63		
24		
64		
24N		

530L G01A05
PLC IO-Cabinet ER-52A

Location :

522JB02X
Junction Box

A	Signal:	Component:
03	522BC02D04Z41	522BC02D04
01	220 VAC	522BC02D04
02		
01+		
01-		
06	522BC02D04Z42	522BC02D04
05		
02+		
04		
02-		
09	522BC02D08S41	522BC02D08
03	220 VAC	522BC02D08
03+		
07	0/220 VAC	522BC02D08
03-		
12	522BC02D09T41	522BC02D09
04		
04+	220 VAC	522BC02D09
11		
04-		
10		
04		
15	522BC02D10Z41	522BC02X01
05	220 VAC	522BC02X01
14		
05+		
13		
05-		
18	522BC02D11Z41	522BC02X02
06	220 VAC	522BC02X02
17		
06+		
16		
06-		
21	525AF01D01S41	525AF01X01
07	220 VAC	525AF01X01
20		
07+		
19		
07-		
24	525CS01D01S41	525CS01X01
08	220 VAC	525CS01X01
23		
08+		
22		
08-		
27	525BC04D02Z41	525BC04D02
09	220 VAC	525BC04D02
26		
09+		
25		
09-		
30	525BC04D02Z42	525BC04D02
10		
29		
10+		
28		
10-		
33	525BC04D06S41	525BC04D06
11	220 VAC	525BC04D06
32		
11+	0/220 VAC	525BC04D06
31		
11-	525BC04D07Z41	525BC04X01
36	220 VAC	525BC04X01
35		
12+		
34		
12-		
39	525BC04D08Z41	525BC04X02
13	220 VAC	525BC04X02
38		
13+		
37		
13-		
42	522TR01A01X01	522TR01A01
14	220 VAC	522TR01A01
41		
14+		
40		
14-		
45	522TR01A01X02	522TR01A01
15		
15+		
44		
15-		
43		
16		
48		
16+		
47		
16-		
46		

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49	522TR01A01X03	522TR01A01
50	0/220 VAC	522TR01A01
17		
17-		
51	522TR01A01X04	522TR01A01
18		
18-		
52		
18+		
53		
19		
54		
19-		
55		
20		
56		
20-		
57		
21		
58		
21-		
59		
22		
60		
22-		
61		
23		
62		
23-		
63		
24		
64		
24-		

530L G01A05
PLC IO-Cabinet ER-52A

Block	Term:	03
X06.02.A	01	
X06.02.A	01L	
X06.02.A	01N	
X06.02.A	02	
X06.02.A	02L	
X06.02.A	02N	
X06.02.A	03	
X06.02.A	03L	
X06.02.A	03N	
X06.02.A	04	
X06.02.A	04L	
X06.02.A	04N	
X06.02.A	05	
X06.02.A	05L	
X06.02.A	05N	
X06.02.A	06	
X06.02.A	06L	
X06.02.A	06N	
X06.02.A	07	
X06.02.A	07L	
X06.02.A	07N	
X06.02.A	08	
X06.02.A	08L	
X06.02.A	08N	
X06.02.A	09	
X06.02.A	09L	
X06.02.A	09N	
X06.02.A	10	
X06.02.A	10L	
X06.02.A	10N	
X06.02.A	11	
X06.02.A	11L	
X06.02.A	11N	
X06.02.A	12	
X06.02.A	12L	
X06.02.A	12N	
X06.02.A	13	
X06.02.A	13L	
X06.02.A	13N	
X06.02.A	14	
X06.02.A	14L	
X06.02.A	14N	
X06.02.A	15	
X06.02.A	15L	
X06.02.A	15N	
X06.02.A	16	
X06.02.A	16L	
X06.02.A	16N	

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X06.02.A	17	
X06.02.A	17N	
X06.02.A	18	
X06.02.A	18N	
X06.02.A	19	
X06.02.A	19N	
X06.02.A	20	
X06.02.A	20N	
X06.02.A	21	
X06.02.A	21N	
X06.02.A	22	
X06.02.A	22N	
X06.02.A	23	
X06.02.A	23N	
X06.02.A	24	
X06.02.A	24N	

Location :

530LG01A05

	Address	Position	Term:
220 VAC		X06.05.A	01L
Level Switch	522SJ01D01L41	X06.05.A	01

522SJ01D01M01

Customer
Supply

02	1
01	2
PE	PE

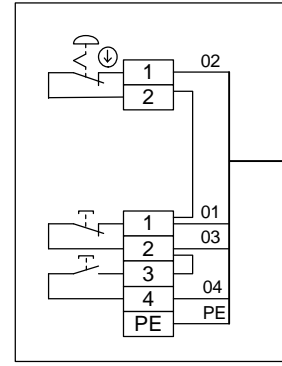
This drawing needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

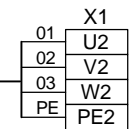
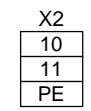
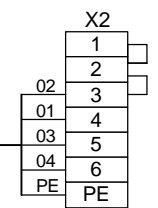
522SJ01D01
Switch

LVDB 582ER52AMC01

522SJ01S01
Start/Stop/E-stop



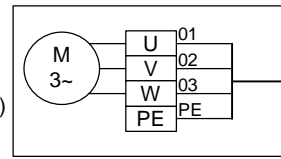
522SJ01S01M01



522SJ01M01W01

No of cables 1

522SJ01M01
Motor
14.5 kW (Derated)
15 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.020
522SJ01Q01
Motor Starter

Tonasa	Schade 522TR01	Schade 522TR01	-	12/15/2010 9:34:10 AM	1/27/2012 10:34:54 AM	Customer	A2
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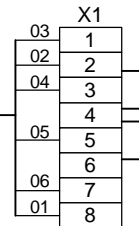
530LG01A05

522JB02X

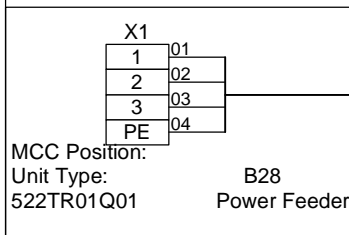
	Address	Position	Term:	50	17-	01
0/220 VAC			X06.02.A	17N		
220 VAC			X06.02.A	14L		
522BS01 Ready	522TR01A01X01	DI	N02.01..05.37	X06.02.A	14	03
522BC03 Running	522TR01A01X02	DI	N02.01..05.38	X06.02.A	15	04
525BC02 Ready	522TR01A01X03	DO	N02.01..07.12	X06.02.A	17	05
525BC02 Running	522TR01A01X04	DO	N02.01..07.13	X06.02.A	18	06

Schade
Tripper

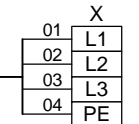
522TR01A01M01



LVDB 582ER52AMC01



522TR01Q01W01



522TR01A01
Cabinet



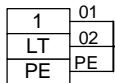
522TR01A01

Tripper
Cabinet

80019896

01.000870

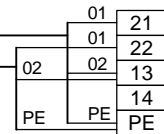
524BC01S01
Start/Stop/E-stop



Document: 80019896
Page: 01.000960

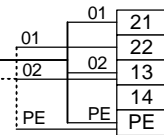
Kiepe
Pull Rope Switch
NTS 002

524BC01D01M01



524BC01D02M01

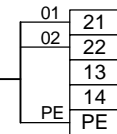
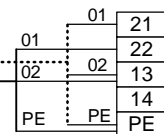
524BC01D01
Pull Rope Switch



Cable List: Pull Rope switches

- 524BC01D02M01
- 524BC01D03M01
- 524BC01D04M01
- 524BC01D05M01
- 524BC01D06M01
- 524BC01D07M01
- 524BC01D08M01
- 524BC01D09M01

524BC01D10M01

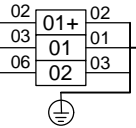


524BC01D10
Pull Rope Switch

530LG01A07

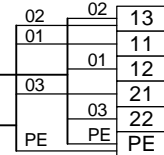
524JB01X

	Address	Position:	Term:
220 VAC		X06.01.A	01L
Sway Max 1	524BC01D11Z41	DI N02.01..05.02	X06.01.A 01
Sway Max 2	524BC01D11Z42	DI N02.01..05.03	X06.01.A 02



Kiepe
Off Track Limit Switch

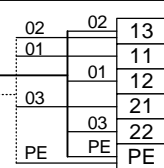
SLS 011



524BC01D11M01

524BC01D11
Sway Detector

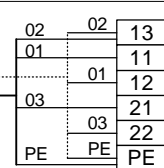
524BC01D12M01



Cable List:

- 524BC01D13M01
- 524BC01D14M01
- 524BC01D15M01

524BC01D16M01



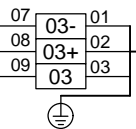
524BC01D16
Sway Detector

Tonasa	DS Milltronics ZSS	DS Milltronics ZSS	-	10/15/2010 7:14:06 AM	1/27/2012 10:34:55 AM	Customer	A2
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530LG01A07

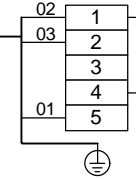
524JB01X

	Address	Position:	Term:	
0/220 VAC		X06.01.A	03N	07
220 VAC		X06.01.A	03L	08
Speed Min	524BC01D17S41	DI N02.01..05.04	X06.01.A	03



524BC01D17M01

Milltronics
ZSS



524BC01D17
Motion Detector



524BC01D17

Belt Conveyor
Motion Detector

80019896

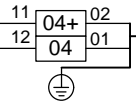
01.000900

530LG01A07

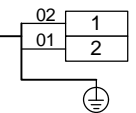
524JB01X

Panasonic
Limit Switch

	Address	Position:	Term:
220 VAC		X06.01.A	04L
Temperature High	524BC01D18T41	DI	N02.01..05.05
		X06.01.A	04



524BC01D18M01



524BC01D18
Temperature

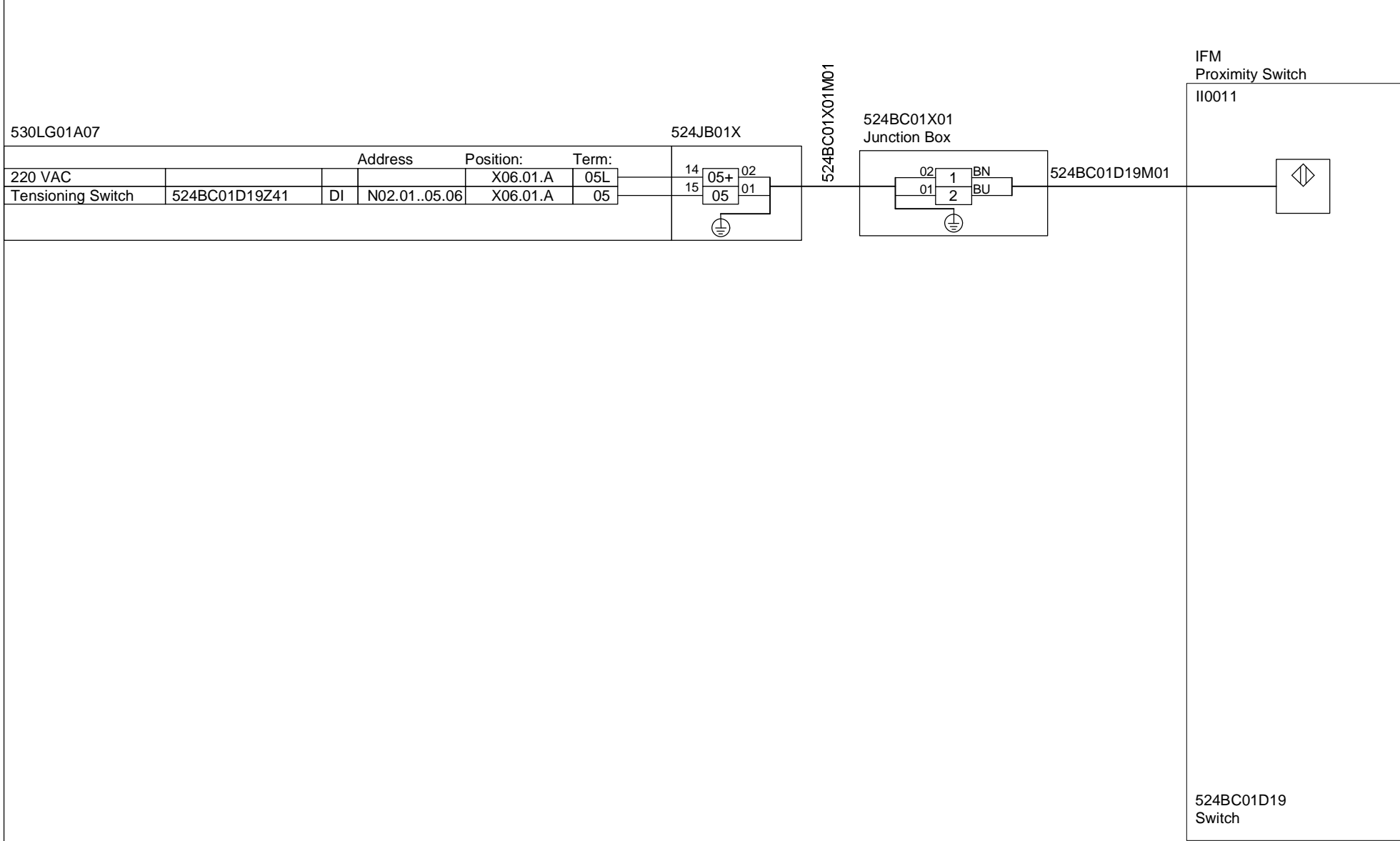


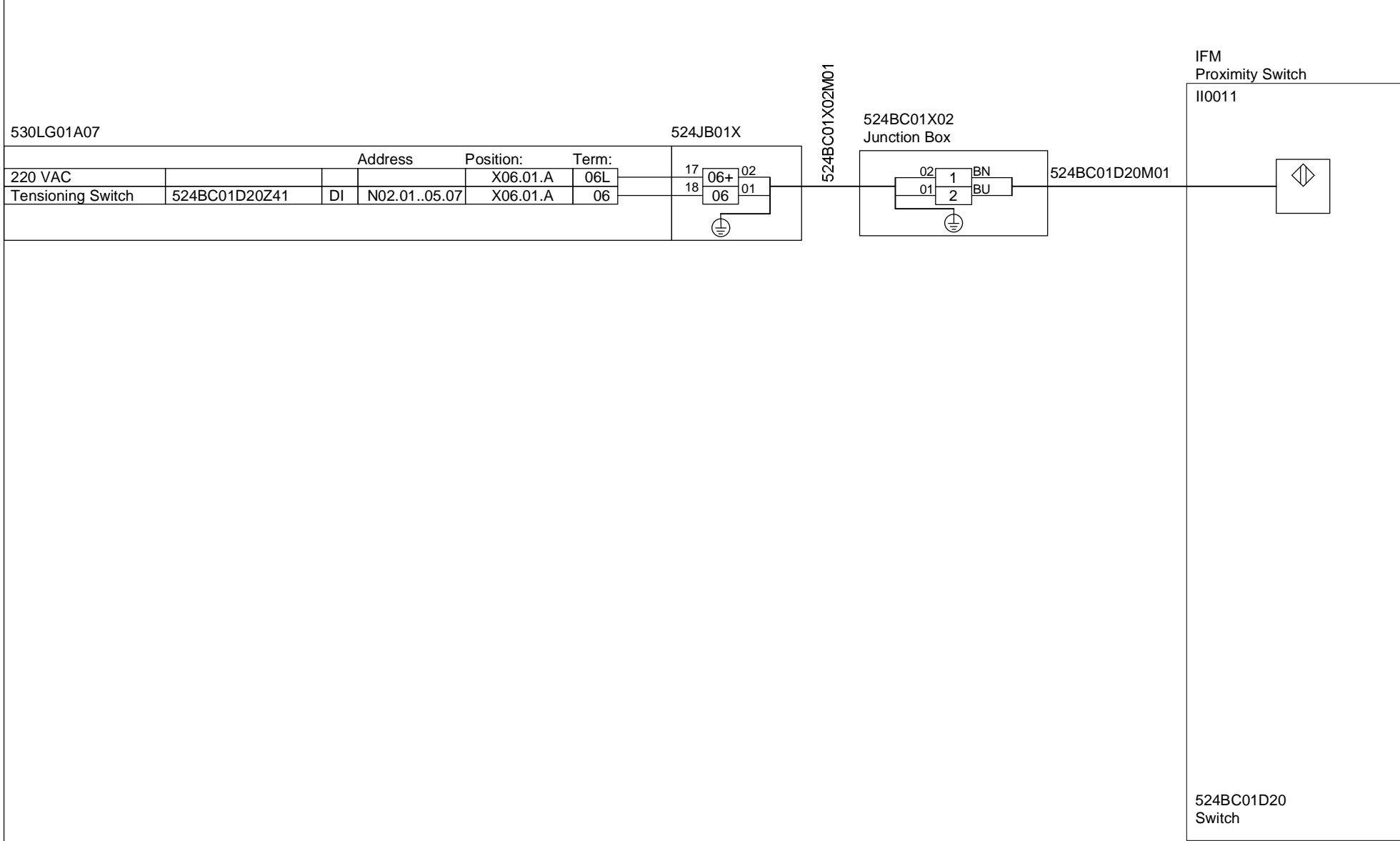
524BC01D18

Belt Conveyor Hydraulic Coupling
Temperature

80019896

01.000910





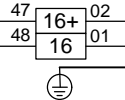
Tonasa	DZ Schmersal	DZ Schmersal	-	10/15/2010 7:18:00 AM	1/27/2012 10:34:57 AM	Customer	A2
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530LG01A07

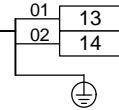
524JB01X

Schmersal
Position Switch
M3R330-11Y

	Address	Position	Term:
220 VAC		X06.01.A	16L
Open	524BC01D21Z41	DI N02.01..05.19	X06.01.A 16



524BC01D21M01



524BC01D21
Limit Switch



524BC01D21

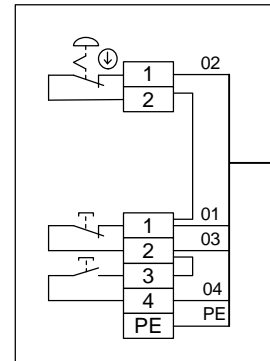
Belt Conveyor Brake
Limit Switch

80019896

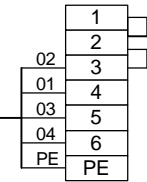
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LVDB 582ER53MC01

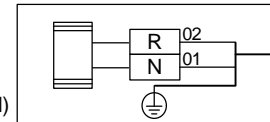
524BC01S03
Start/Stop/E-stop



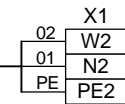
524BC01S03M01



524BC01E01
Heating Element
kW (Derated)
kW



524BC01E01M01

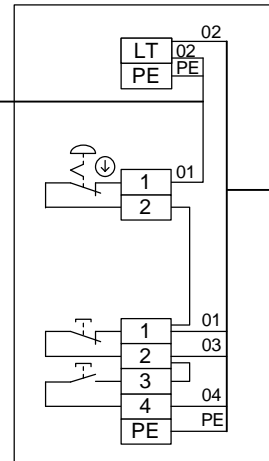


Position:
Unit Conn. Type: B22
Net: 530LG01:DP5
Node: MCC/MDB 2.043
524BC01Q03 Motor Starter

524BC01D01
 Pull Rope Switch
 Document: 80019896
 Page: 01.000880

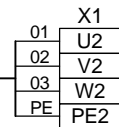
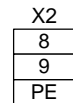
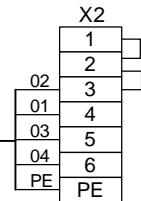
524BC01D01M01

524BC01S01
 Start/Stop/E-stop



524BC01S01M01

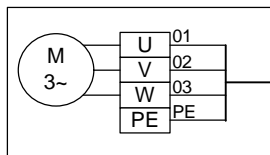
LVDB 582ER53MC01



524BC01M01W01

No of cables 2

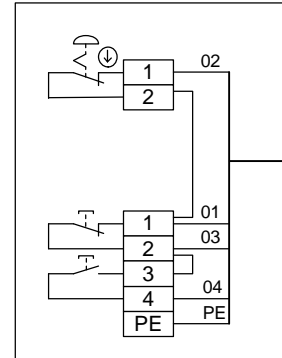
524BC01M01
 Motor
 193 kW (Derated)
 200 kW



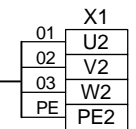
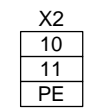
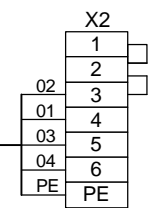
MCC Position:
 Unit Type: B01 - PM
 Net: 530LG01:DP5
 Node: MCC/MDB 2.041
 524BC01Q01 Motor Starter

LVDB 582ER53MC01

524BC01S02
Start/Stop/E-stop



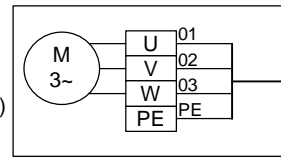
524BC01S02M01



524BC01M02W01

No of cables 1

524BC01M02
Motor
0.38 kW (Derated)
0.38 kW



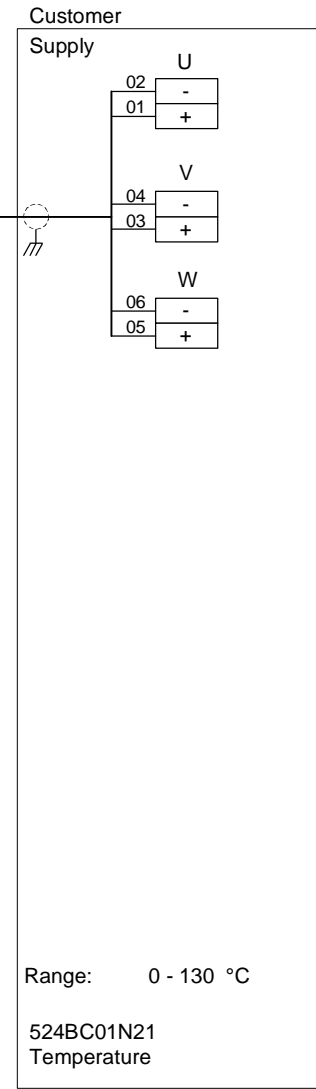
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.042
524BC01Q02
Motor Starter

530LG01A06

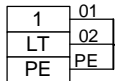
	Address	Position	Term:
+24 VDC		X05.02.A	01+
Winding Temp. -U	524BC01N21T01	AI N02.01..07.02	X05.02.A 01
+24 VDC		X05.02.A	02+
Winding Temp. -V	524BC01N22T01	AI N02.01..07.04	X05.02.A 02
+24 VDC		X05.02.A	03+
Winding Temp. -W	524BC01N23T01	AI N02.01..07.06	X05.02.A 03

This model needs detailed information from Client on terminals to be connected.

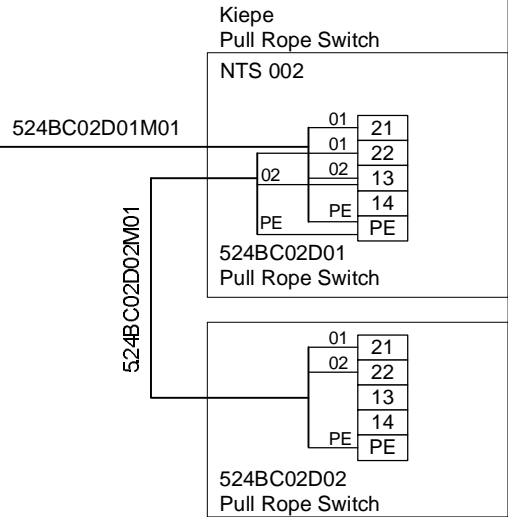
Terminals considered now are tentative



524BC02S01
Start/Stop/E-stop



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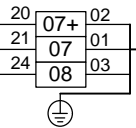


Tonasa	S Kiepe Sway Detector 04 P. 2 St. LSC	S Kiepe Sway Detector 4 P. 2 St. LSC	-	9/28/2010 6:03:43 AM	1/27/2012 10:35:01 AM	Customer	A2
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530LG01A07

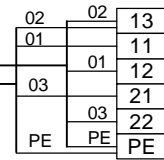
524JB01X

	Address	Position:	Term:	
220 VAC		X06.01.A	07L	20
Sway Max 1	524BC02D03Z41	DI N02.01..05.08	X06.01.A	07
Sway Max 2	524BC02D03Z42	DI N02.01..05.09	X06.01.A	08



Kiepe
Off Track Limit Switch

SLS 011



524BC02D03M01

524BC02D04M01

524BC02D05M01

524BC02D06M01

524BC02D03
Sway Detector

524BC02D04
Sway Detector

524BC02D05
Sway Detector

524BC02D06
Sway Detector



524BC02D03

Belt Conveyor
Sway Detector

80019896

01.001000

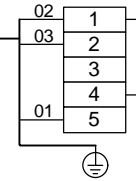
530LG01A07

524JB01X

	Address	Position:	Term:	
0/220 VAC		X06.01.A	09N	25 09- 01
220 VAC		X06.01.A	09L	26 09+ 02
Speed Min	524BC02D07S41	DI N02.01..05.12	X06.01.A	09 03

Milltronics
ZSS

524BC02D07M01



524BC02D07
Motion Detector



524BC02D07

Belt Conveyor
Motion Detector

80019896

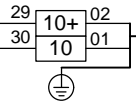
01.001010

530LG01A07

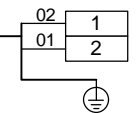
524JB01X

Panasonic
Limit Switch

220 VAC	Address	Position:	Term:
Temperature High	524BC02D08T41	DI	N02.01..05.13
			X06.01.A 10L
			X06.01.A 10



524BC02D08M01



524BC02D08
Temperature

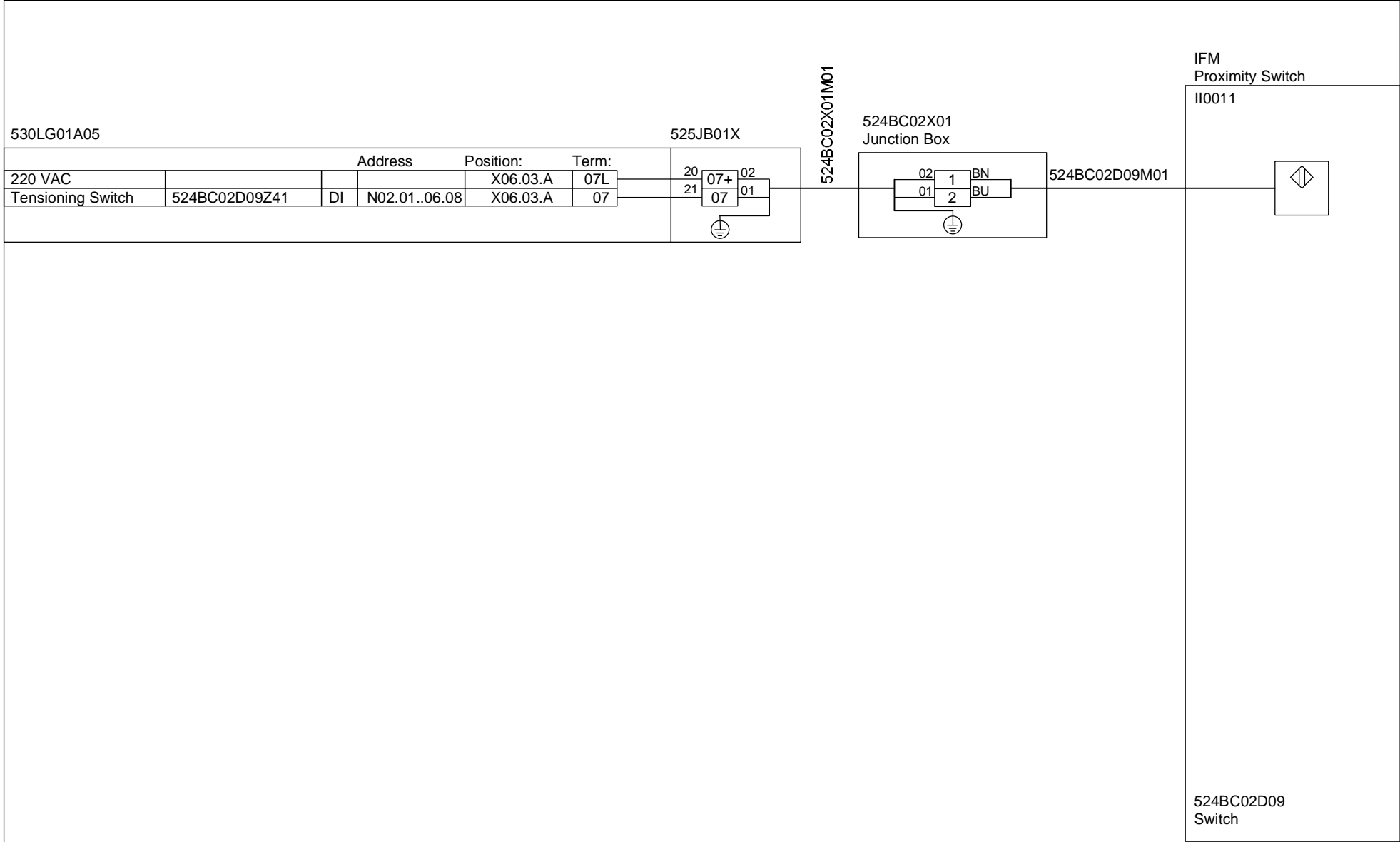


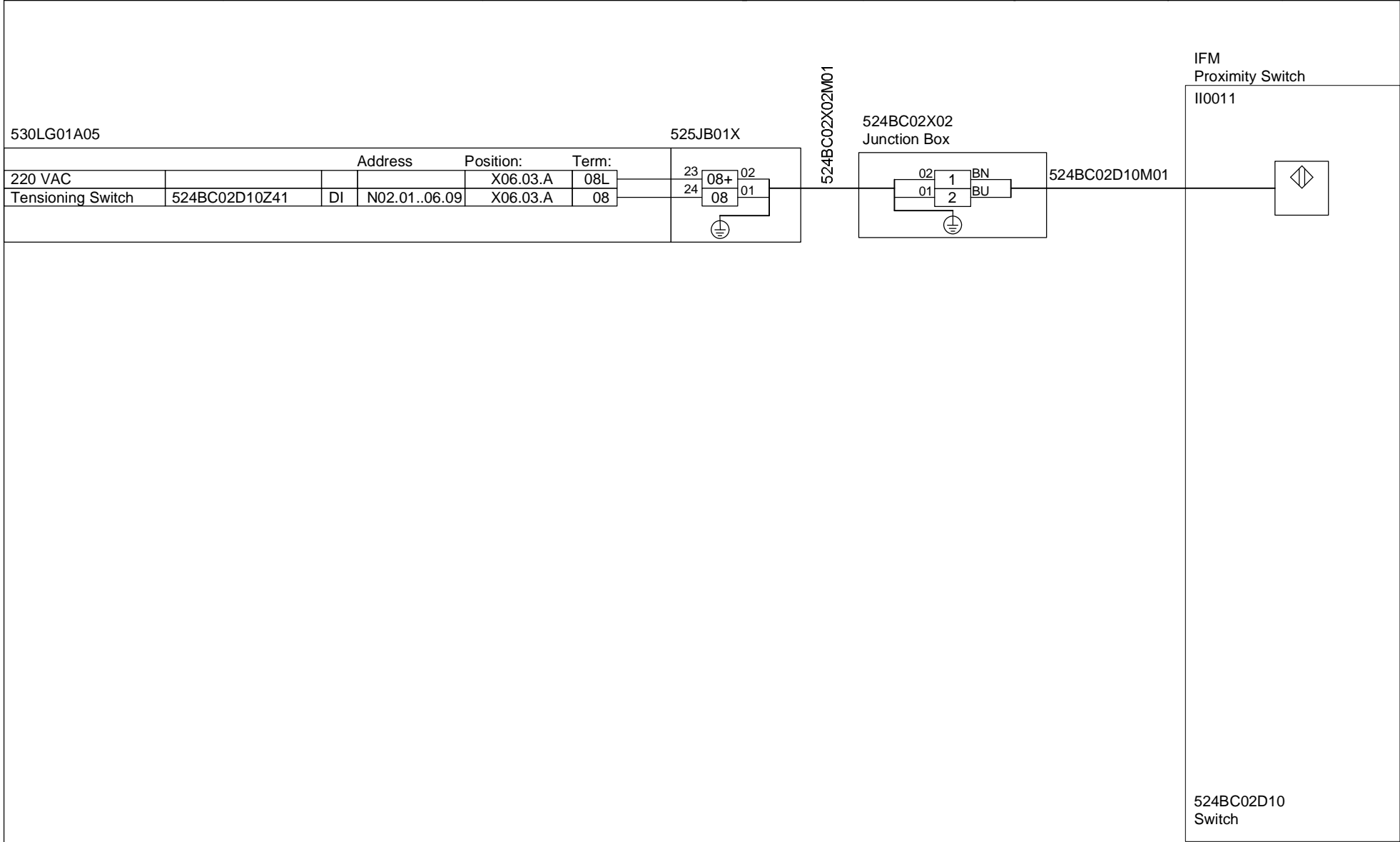
524BC02D08

Belt Conveyor Hydraulic Coupling
Temperature

80019896

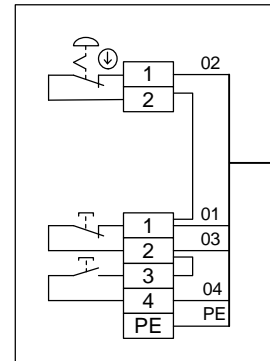
01.001020



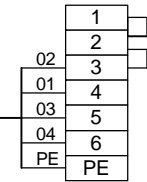


LVDB 582ER53MC01

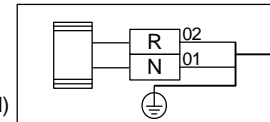
524BC02S02
Start/Stop/E-stop



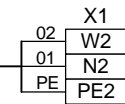
524BC02S02M01



524BC02E01
Heating Element
kW (Derated)
kW

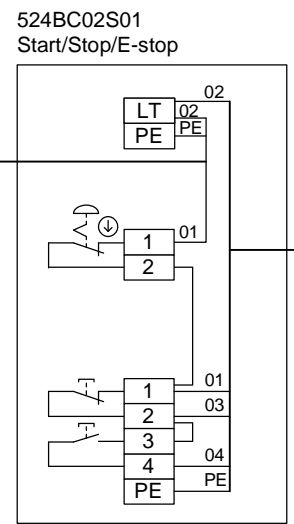


524BC02E01M01

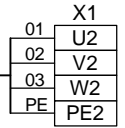
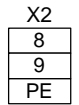
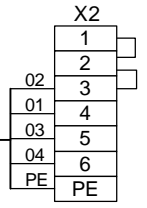


Position:
Unit Conn. Type: B22
Net: 530LG01:DP5
Node: MCC/MDB 2.045
524BC02Q02 Motor Starter

524BC02D01
 Pull Rope Switch
 Document: 80019896
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LVDB 582ER53MC01

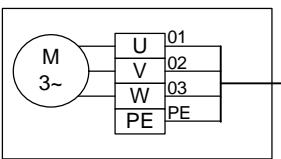


524BC02S01M01

524BC02M01W01

No of cables 2

524BC02M01
 Motor
 154 kW (Derated)
 160 kW

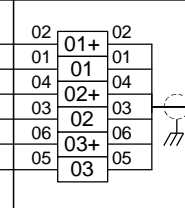


MCC Position:
 Unit Type: B01 - PM
 Net: 530LG01:DP5
 Node: MCC/MDB 2.044
 524BC02Q01 Motor Starter

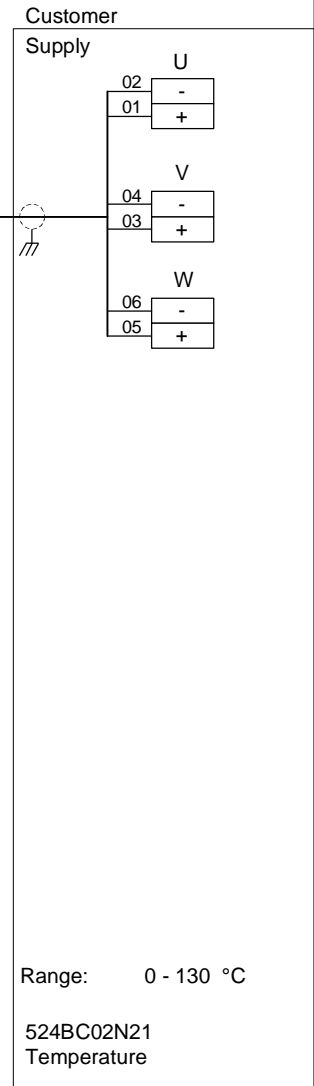
530LG01A06

524JB01A

	Address	Position	Term:
+24 VDC		X05.01.A	01+
Winding Temp. -U	524BC02N21T01	AI N02.01..04.02	X05.01.A 01
+24 VDC		X05.01.A	02+
Winding Temp. -V	524BC02N22T01	AI N02.01..04.04	X05.01.A 02
+24 VDC		X05.01.A	03+
Winding Temp. -W	524BC02N23T01	AI N02.01..04.06	X05.01.A 03

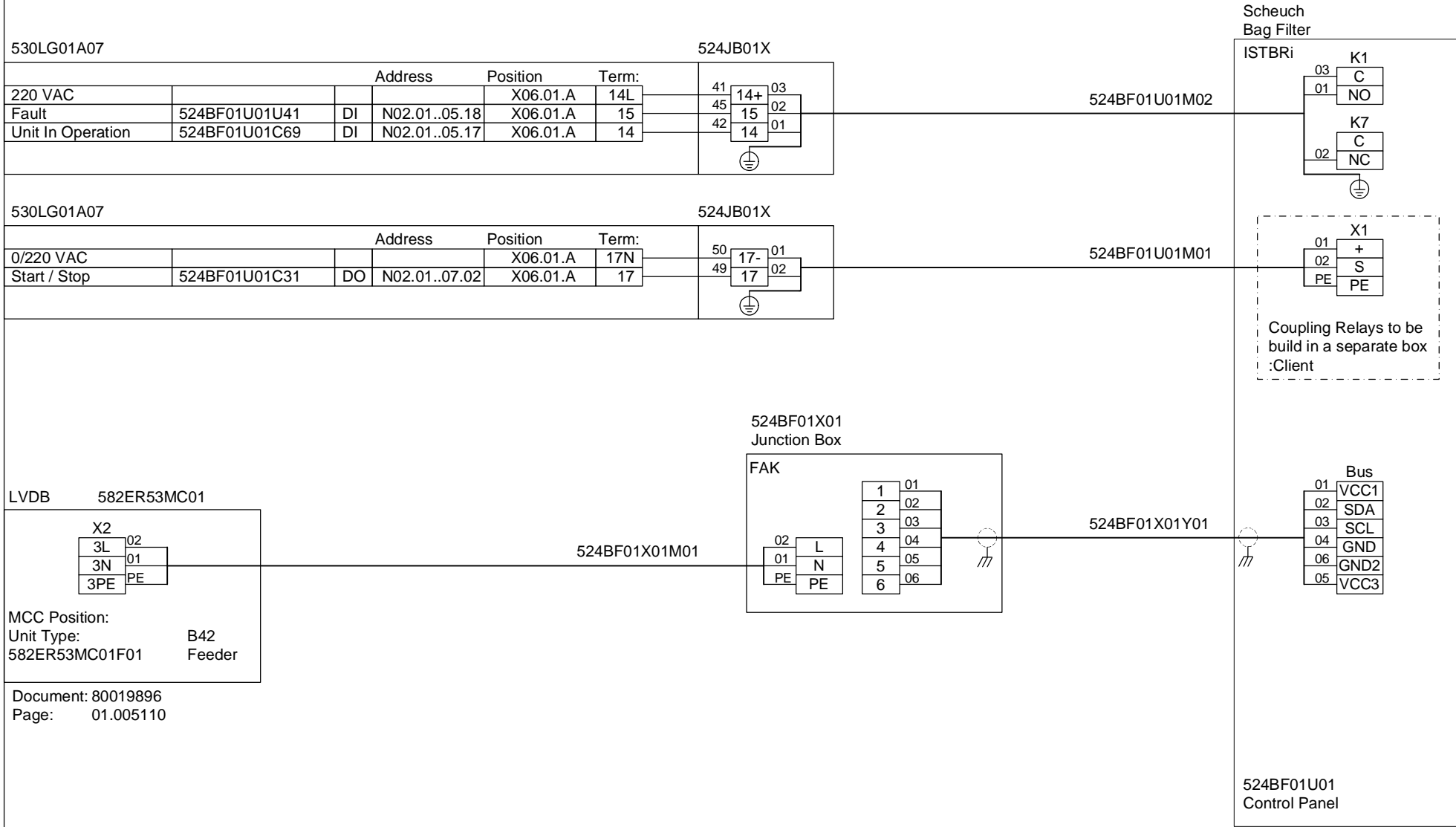


524BC02N21C01

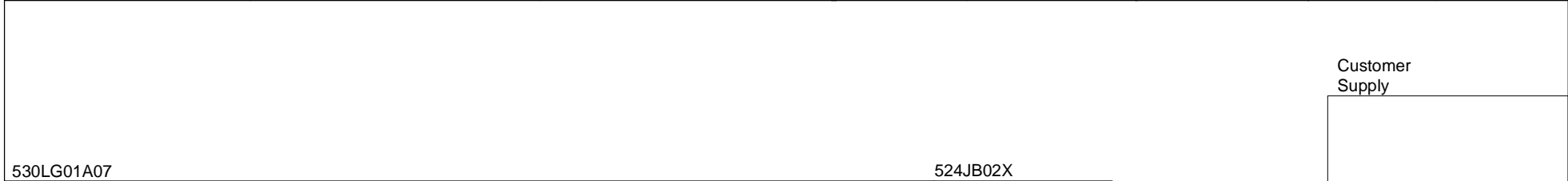


This model needs detailed information from Client on terminals to be connected.

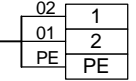
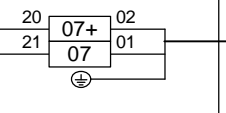
Terminals considered now are tentative



Tonasa	DL Generic (Single-DI)	DL Generic (Single-DI)	-	4/27/2011 5:45:01 AM	1/27/2012 10:35:05 AM	Customer	A2
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	Address	Position	Term:
220 VAC		X06.02.A	07L
Pressure Switch	524CP01D01P41	X06.02.A	07



This drawing needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

524CP01D01
Pressure Switch

	524CP01D01	Compressor Pressure Switch	80019896	01.001090
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Tonasa	Q B29 Lighting	Q B29 Lighting1	-	12/9/2010 10:25:06 AM	1/27/2012 10:35:06 AM	Customer	A2
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Customer

Supply

524ER53LD01Q01
Feeder

524ER53LD01Q01W01

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No of cables 2

02	U1
03	V1
04	W1
01	N1
PE	PE1

524ER53LD01A01
Cabinet



524ER53LD01A01 Lighting Transformer
Cabinet

80019896

01.001100

LVDB 582ER53LV01

582ER53MC02Q01
Feeder

524ER53LD01Q01Y01

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GN	DP
RD	A1
SH	B1
	CL1

524ER53PD01Q01
Feeder

524ER53PD01Q01Y01

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GN	DP
RD	A2
SH	B2
	CL2

524ER53LD01A01
Cabinet

524ER53LD01Q01W01

Doc: 80019896
Page: 01.001100

No of cables 2

	X1
02	U2
03	V2
04	W2
01	N2
PE	PE2

MCC/MDb position
Unit Conn. Type B29

524ER53LD01Q01 Feeder



524ER53LD01Q01 Lighting Transformer
Feeder

80019896

01.001110

Tonasa	Q B29 Dist Traf.	Q B29 Dist Trafo1	-	12/3/2010 11:28:47 AM	1/27/2012 10:35:07 AM	Customer	A2
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Customer

Supply

524ER53PD01Q01
Feeder

524ER53PD01Q01W01

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No of cables

02	U1
03	V1
04	W1
01	N1
PE	PE1

524ER53PD01A01
Cabinet



524ER53PD01A01 Distribution Transformer
Cabinet

80019896

01.001120

LVDB 582ER53LV01

524ER53LD01Q01
Feeder

524ER53PD01Q01Y01

Document: 80019896
Page: 01.001110

GN	DP
RD	A1
SH	B1
	CL1

582ER53LV01Q21
Feeder

582ER53LV01Q21Y01

Document: 80019896
Page: 01.005100

GN	DP
RD	A2
SH	B2
	CL2

524ER53PD01A01
Cabinet

524ER53PD01Q01W01

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Page: 01.001120

No of cables 2

	X1
02	U2
03	V2
04	W2
01	N2
PE	PE2

MCC/MDB position
Unit Conn. Type B29

524ER53PD01Q01
Feeder

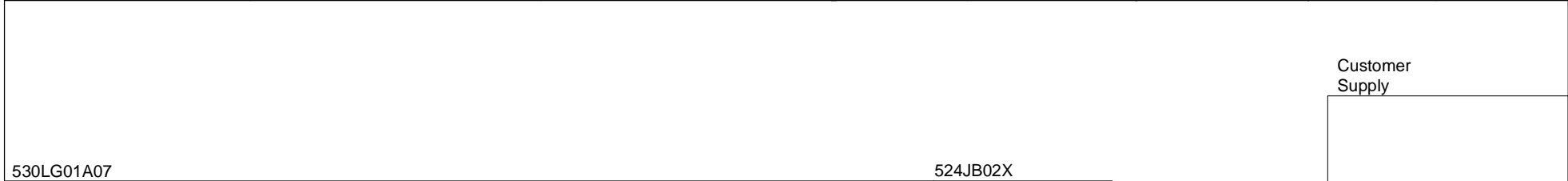


524ER53PD01Q01 Distribution Transformer
Feeder

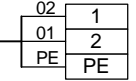
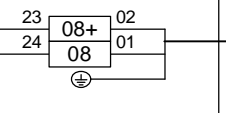
80019896

01.001130

Tonasa	DL Generic (Single-DI)	DL Generic (Single-DI)	-	4/27/2011 5:48:29 AM	1/27/2012 10:35:08 AM	Customer	A2
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	Address	Position	Term:
220 VAC		X06.02.A	08L
Speed Min	524FN01D01S41	X06.02.A	08

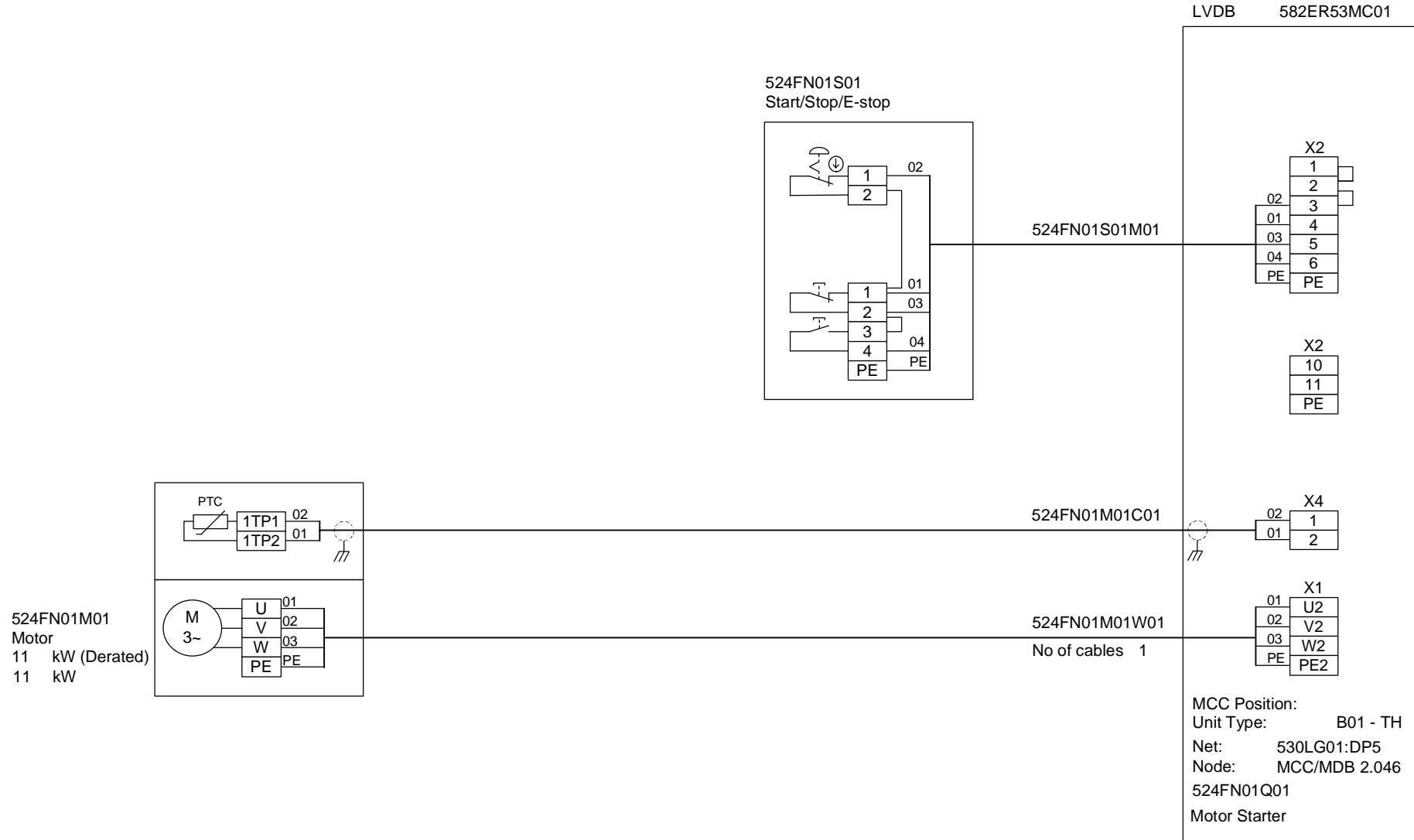


This drawing needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

524FN01D01
Switch

FLSMIDTH	524FN01D01	Filter Fan Switch	80019896	01.001140
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	524FN01M01	Filter Fan Motor	80019896	01.001150
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Tonasa	NL Generic (Single-AI)	NL Generic (Single-AI)	-	4/28/2011 11:42:41 AM	1/27/2012 10:35:09 AM	Customer	A2
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530LG01A06

524JB01A

	Address	Position	Term:
+24 VDC		X05.01.A	04+
Temperature	524FN01N11T01	AI N02.01..04.08	X05.01.A 04

Customer
Supply

524FN01N11C01

This model needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

Range 0 - 130 °C

524FN01N11
Temperature



524FN01N11

Filter Fan Mot.Brg.A
Temperature

80019896

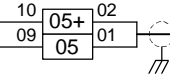
01.001160

Tonasa	NL Generic (Single-AI)	NL Generic (Single-AI)	-	4/28/2011 11:43:47 AM	1/27/2012 10:35:09 AM	Customer	A2
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530LG01A06

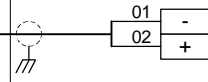
524JB01A

	Address	Position	Term:
+24 VDC		X05.01.A	05+
Temperature	524FN01N12T01	AI N02.01..04.12	X05.01.A 05



524FN01N12C01

Customer Supply



This model needs detailed information from Client on terminals to be connected.
Terminals considered now are tentative

Range 0 - 130 °C

524FN01N12
Temperature



524FN01N12

Filter Fan Mot.Brg.B
Temperature

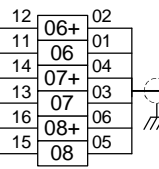
80019896

01.001170

530LG01A06

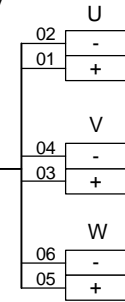
524JB01A

	Address	Position	Term:
+24 VDC		X05.01.A	06+
Winding Temp. -U	524FN01N21T01	AI	N02.01..04.14 X05.01.A 06
+24 VDC		X05.01.A	07+
Winding Temp. -V	524FN01N22T01	AI	N02.01..04.16 X05.01.A 07
+24 VDC		X05.01.A	08+
Winding Temp. -W	524FN01N23T01	AI	N02.01..04.18 X05.01.A 08



524FN01N21C01

Customer
Supply



This model needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

Range: 0 - 130 °C

524FN01N21
Temperature

524JB01A
Junction Box

Block	Term:	Signal:	Component:
01	X05.01.A 01	524BC02N21T01	524BC02N21
02	X05.01.A 01+	+24 VDC	524BC02N21
03	X05.01.A 01-	.	.
03	X05.01.A 02	524BC02N22T01	524BC02N22
04	X05.01.A 02+	+24 VDC	524BC02N22
04	X05.01.A 02-	.	.
05	X05.01.A 03	524BC02N23T01	524BC02N23
06	X05.01.A 03+	+24 VDC	524BC02N23
06	X05.01.A 03-	.	.
07	X05.01.A 04	524FN01N11T01	524FN01N11
08	X05.01.A 04+	+24 VDC	524FN01N11
08	X05.01.A 04-	.	.
09	X05.01.A 05	524FN01N12T01	524FN01N12
10	X05.01.A 05+	+24 VDC	524FN01N12
10	X05.01.A 05-	.	.
11	X05.01.A 06	524FN01N21T01	524FN01N21
12	X05.01.A 06+	+24 VDC	524FN01N21
12	X05.01.A 06-	.	.
13	X05.01.A 07	524FN01N22T01	524FN01N22
14	X05.01.A 07+	+24 VDC	524FN01N22
14	X05.01.A 07-	.	.
15	X05.01.A 08	524FN01N23T01	524FN01N23
16	X05.01.A 08+	+24 VDC	524FN01N23
16	X05.01.A 08-	.	.
17	X05.01.A 09	.	.
18	X05.01.A 09+	.	.
18	X05.01.A 09-	.	.
19	X05.01.A 10	.	.
20	X05.01.A 10+	.	.
20	X05.01.A 10-	.	.
21	X05.01.A 11	526FN01N11T01	526FN01N11
22	X05.01.A 11+	+24 VDC	526FN01N11
22	X05.01.A 11-	.	.
23	X05.01.A 12	526FN01N12T01	526FN01N12
24	X05.01.A 12+	+24 VDC	526FN01N12
24	X05.01.A 12-	.	.
25	X05.01.A 13	526FN01N21T01	526FN01N21
26	X05.01.A 13+	+24 VDC	526FN01N21
26	X05.01.A 13-	.	.
27	X05.01.A 14	526FN01N22T01	526FN01N22
28	X05.01.A 14+	+24 VDC	526FN01N22
28	X05.01.A 14-	.	.
29	X05.01.A 15	526FN01N23T01	526FN01N23
30	X05.01.A 15+	+24 VDC	526FN01N23
30	X05.01.A 15-	.	.
31	X05.01.A 16	.	.
32	X05.01.A 16+	.	.
32	X05.01.A 16-	.	.
48	X05.01.A 16-	.	.

49	X05.01.A 17	.	.
50	X05.01.A 17-	.	.
51	X05.01.A 18	.	.
52	X05.01.A 18-	.	.
53	X05.01.A 19	.	.
54	X05.01.A 19-	.	.
55	X05.01.A 20	.	.
56	X05.01.A 20-	.	.

524JB01AC01

530LG01A06
PLC IO-Cabinet ER-53

Block	Term:
01	X05.01.A 01
02	X05.01.A 01+
03	X05.01.A 01-
03	X05.01.A 02
04	X05.01.A 02+
04	X05.01.A 02-
05	X05.01.A 03
06	X05.01.A 03+
06	X05.01.A 03-
07	X05.01.A 04
08	X05.01.A 04+
08	X05.01.A 04-
09	X05.01.A 05
10	X05.01.A 05+
10	X05.01.A 05-
11	X05.01.A 06
12	X05.01.A 06+
12	X05.01.A 06-
13	X05.01.A 07
14	X05.01.A 07+
14	X05.01.A 07-
15	X05.01.A 08
16	X05.01.A 08+
16	X05.01.A 08-
17	X05.01.A 09
18	X05.01.A 09+
18	X05.01.A 09-
19	X05.01.A 10
20	X05.01.A 10+
20	X05.01.A 10-
21	X05.01.A 11
22	X05.01.A 11+
22	X05.01.A 11-
23	X05.01.A 12
24	X05.01.A 12+
24	X05.01.A 12-
25	X05.01.A 13
26	X05.01.A 13+
26	X05.01.A 13-
27	X05.01.A 14
28	X05.01.A 14+
28	X05.01.A 14-
29	X05.01.A 15
30	X05.01.A 15+
30	X05.01.A 15-
31	X05.01.A 16
32	X05.01.A 16+
32	X05.01.A 16-
48	X05.01.A 16-

49	X05.01.A 17
50	X05.01.A 17-
51	X05.01.A 18
52	X05.01.A 18-
53	X05.01.A 19
54	X05.01.A 19-
55	X05.01.A 20
56	X05.01.A 20-

Location : Near 524BC02



524JB01A

Analog
Junction Box

80019896

01.001190

524JB01X
Junction Box

Block	Term	Signal	Component
X06.01.A	01	524BC01D11Z41	524BC01D11
X06.01.A	01L	220 VAC	524BC01D11
X06.01.A	01N		
X06.01.A	02	524BC01D11Z42	524BC01D11
X06.01.A	02L		
X06.01.A	02N		
X06.01.A	03	524BC01D17S41	524BC01D17
X06.01.A	03L	220 VAC	524BC01D17
X06.01.A	03N	0/220 VAC	524BC01D17
X06.01.A	04	524BC01D18T41	524BC01D18
X06.01.A	04L	220 VAC	524BC01D18
X06.01.A	04N		
X06.01.A	05	524BC01D19Z41	524BC01X01
X06.01.A	05L	220 VAC	524BC01X01
X06.01.A	05N		
X06.01.A	06	524BC01D20Z41	524BC01X02
X06.01.A	06L	220 VAC	524BC01X02
X06.01.A	06N		
X06.01.A	07	524BC02D03Z41	524BC02D03
X06.01.A	07L	220 VAC	524BC02D03
X06.01.A	07N		
X06.01.A	08	524BC02D03Z42	524BC02D03
X06.01.A	08L		
X06.01.A	08N		
X06.01.A	09	524BC02D07S41	524BC02D07
X06.01.A	09L	220 VAC	524BC02D07
X06.01.A	09N	0/220 VAC	524BC02D07
X06.01.A	10	524BC02D08T41	524BC02D08
X06.01.A	10L	220 VAC	524BC02D08
X06.01.A	10N		
X06.01.A	11	525BC03D03Z41	525BC03D03
X06.01.A	11L	220 VAC	525BC03D03
X06.01.A	11N		
X06.01.A	12	525BC03D03Z42	525BC03D03
X06.01.A	12L		
X06.01.A	12N		
X06.01.A	13	525BC03D07S41	525BC03D07
X06.01.A	13L	220 VAC	525BC03D07
X06.01.A	13N	0/220 VAC	525BC03D07
X06.01.A	14	524BF01U01C69	524BF01U01
X06.01.A	14L	220 VAC	524BF01U01
X06.01.A	14N		
X06.01.A	15	524BF01U01U41	524BF01U01
X06.01.A	15L		
X06.01.A	15N		
X06.01.A	16	524BC01D21Z41	524BC01D21
X06.01.A	16L	220 VAC	524BC01D21
X06.01.A	16N		

530L G01A07
PLC IO-Cabinet ER-53

X06.01.A	17	524BF01U01C31	524BF01U01
X06.01.A	17N	0/220 VAC	524BF01U01
X06.01.A	18		
X06.01.A	18N		
X06.01.A	19		
X06.01.A	19N		
X06.01.A	20		
X06.01.A	20N		
X06.01.A	21		
X06.01.A	21N		
X06.01.A	22		
X06.01.A	22N		
X06.01.A	23		
X06.01.A	23N		
X06.01.A	24		
X06.01.A	24N		

524JB01XM01

Location : Near 524BC01

524JB02X
Junction Box

A	Signal:	Component:
03	526BC02D05Z41	526BC02D05
01	220 VAC	526BC02D05
01+		
01-		
06	526BC02D05Z42	526BC02D05
05		
02+		
04		
02-		
09	526BC02D09S41	526BC02D09
03	220 VAC	526BC02D09
03+	0/220 VAC	526BC02D09
07	526BC03D03Z41	526BC03D03
03-	220 VAC	526BC03D03
12		
04		
11		
04+		
10		
04-		
15	526BC03D03Z42	526BC03D03
05		
14		
05+		
13		
05-		
18	526BC03D07S41	526BC03D07
06	220 VAC	526BC03D07
06+	0/220 VAC	526BC03D07
16	524CP01D01P41	524CP01D01
06-	220 VAC	524CP01D01
21		
07		
20		
07+		
19		
07-		
24	524FN01D01S41	524FN01D01
08	220 VAC	524FN01D01
23		
08+		
22		
08-		
27	524RF01D01S41	524RF01D01
09	220 VAC	524RF01D01
26		
09+		
25		
09-		
30	526BF01U01C69	526BF01U01
10	220 VAC	526BF01U01
29		
10+		
28		
10-		
33	526BF01U01U41	526BF01U01
11		
32		
11+		
31		
11-		
36	526CP01D01P41	526CP01D01
12	220 VAC	526CP01D01
35		
12+		
34		
12-		
39	526FN01D01X41	526FN01D01
13	220 VAC	526FN01D01
38		
13+		
37		
13-		
42	526RF01D01S41	526RF01X01
14	220 VAC	526RF01X01
41		
14+		
40		
14-		
45	525BC03D09Z41	525BC03X01
15	220 VAC	525BC03X01
44		
15+		
43		
15-		
48	525BC03D10Z41	525BC03X02
16	220 VAC	525BC03X02
47		
16+		
46		
16-		

530L G01A07
PLC IO-Cabinet ER-53

Block	Term:	Component:
X06.02.A	01	
X06.02.A	01L	
X06.02.A	01N	
X06.02.A	02	
X06.02.A	02L	
X06.02.A	02N	
X06.02.A	03	
X06.02.A	03L	
X06.02.A	03N	
X06.02.A	04	
X06.02.A	04L	
X06.02.A	04N	
X06.02.A	05	
X06.02.A	05L	
X06.02.A	05N	
X06.02.A	06	
X06.02.A	06L	
X06.02.A	06N	
X06.02.A	07	
X06.02.A	07L	
X06.02.A	07N	
X06.02.A	08	
X06.02.A	08L	
X06.02.A	08N	
X06.02.A	09	
X06.02.A	09L	
X06.02.A	09N	
X06.02.A	10	
X06.02.A	10L	
X06.02.A	10N	
X06.02.A	11	
X06.02.A	11L	
X06.02.A	11N	
X06.02.A	12	
X06.02.A	12L	
X06.02.A	12N	
X06.02.A	13	
X06.02.A	13L	
X06.02.A	13N	
X06.02.A	14	
X06.02.A	14L	
X06.02.A	14N	
X06.02.A	15	
X06.02.A	15L	
X06.02.A	15N	
X06.02.A	16	
X06.02.A	16L	
X06.02.A	16N	

524JB02XM01



524JB02X

Digital
Junction Box

80019896

Location : Near 526BC03

01.001210

Customer

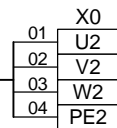
Supply

524RE01Q01
Power Feeder

Document: 80019896
Page: 01.001220

524RE01A01H01

No of cables 1



524RE01A01
Cabinet



524RE01A01

Reclaimer
Cabinet

80019896

01.001220

MVDB 582ER53

524RE01A01
Cabinet

524RE01A01H01

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Page: 01.001220

	X1
01	U2
02	V2
03	W2
04	PE2

MCC Position: C20
Unit Type: NO
Net:
Node:
524RE01Q01
Power Feeder



524RE01Q01

Reclaimer
Power Feeder

80019896

01.001230

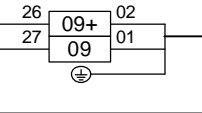
Tonasa	DL Generic (Single-DI)	DL Generic (Single-DI)	-	4/27/2011 5:52:22 AM	1/27/2012 10:35:13 AM	Customer	A2
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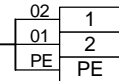
530LG01A07

524JB02X

	Address	Position	Term:
220 VAC		X06.02.A	09L
Speed Min	524RF01D01S41	X06.02.A	09



524RF01D01M01



Customer
Supply

This drawing needs detailed information from Client on terminals to be connected.

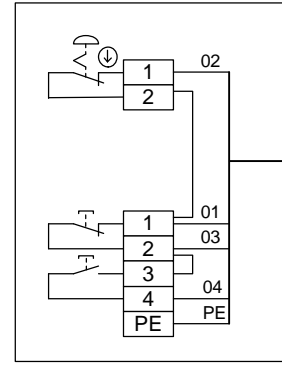
Terminals considered now are tentative

524RF01D01
Motion Detector

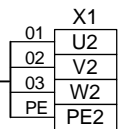
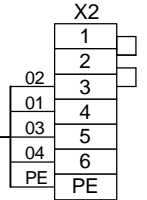
	524RF01D01	Rotary Feeder Motion Detector	80019896	01.001240
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LVDB 582ER53MC01

524RF01S01
Start/Stop/E-stop



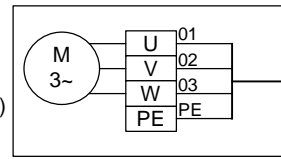
524RF01S01M01



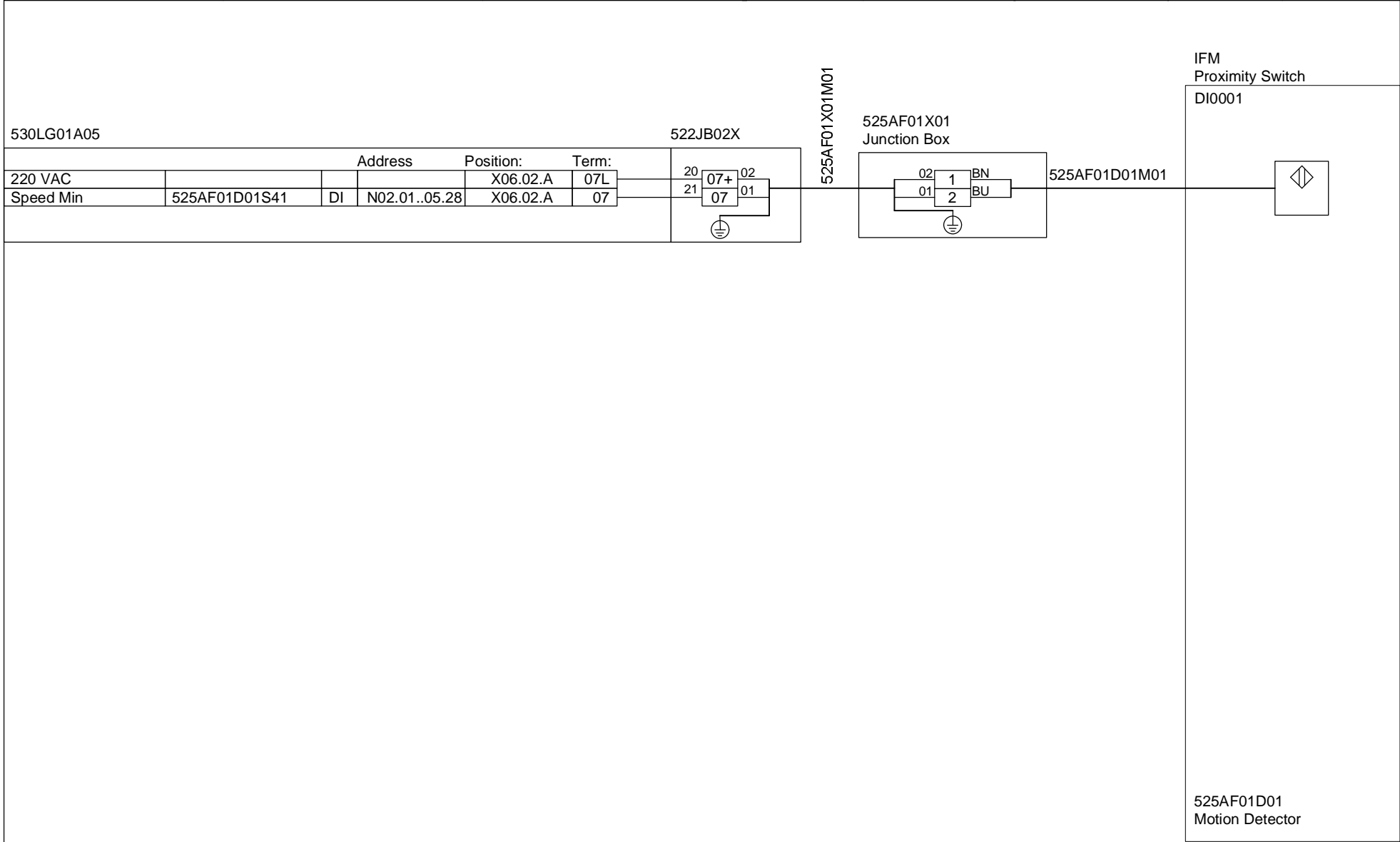
524RF01M01W01

No of cables 1

524RF01M01
Motor
0.37 kW (Derated)
0.37 kW

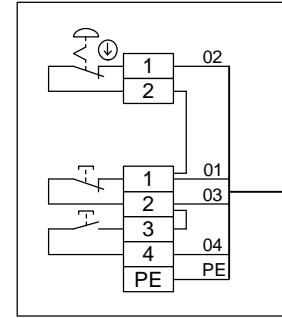


MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.047
524RF01Q01
Motor Starter

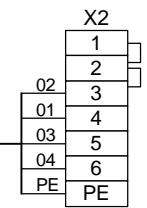


LVDB 582ER52AMC02

525AF01S01
Start/Stop/E-stop



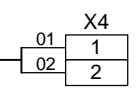
525AF01S01M01



525AF01M01
Motor

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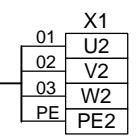
525AF01M01C01



525AF01U01
Frequency Converter

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Page: 01.001280

525AF01U01W01



No of cables 1

MCC Position:
Unit Type: B15.1-UD-TH
Net: 530LG01:DP5
Node: MCC/MDB 2.024
525AF01Q01
Motor Starter



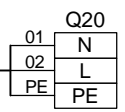
525AF01Q01 Apron Feeder
Motor Starter

80019896 01.001270

ABB
Frequency Drive
ACS850-04-035A-
5+E200+J410+K454

582ER52AMC02F01
Feeder

525AF01U01M01

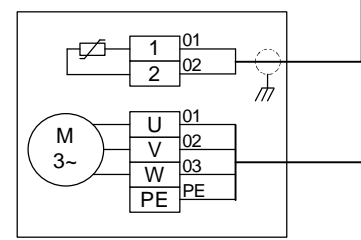


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Page: 01.004760

525AF01Q01
Motor Starter

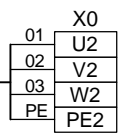
525AF01M01C01

Doc: 80019896
Page: 01.001270



525AF01M01
Motor
15 kW

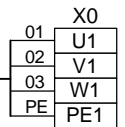
525AF01M01W01



No of cables 1

525AF01Q01
Motor Starter

525AF01U01W01



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Page: 01.001270

No of cables 1

Net: 530LG01:DP3
Node: Field Device.019
525AF01U01
Frequency Converter

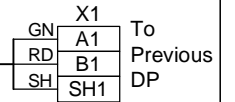
Tonasa	U LV EL B15.1 UD TH [SIEMENS-TKF]	Conv. Type A, DP [SIEMENS-TKF]	-	9/14/2010 10:24:20 AM	1/27/2012 10:35:16 AM	Customer	A2
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ABB
Frequency Drive
ACS850-04-035A-
5+E200+J410+K454

582ER51Q01
Power Feeder

525AF01U01Y01

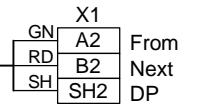
Document: 80019896
Page: 01.004560



526AF01U01
Frequency Converter

526AF01U01Y01

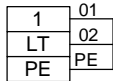
Document: 80019896
Page: 01.001570



525AF01U01
Frequency Converter

	525AF01U01	Apron Feeder Frequency Converter	80019896	01.001290
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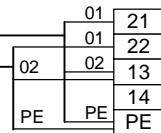
525BC02S01
Start/Stop/E-stop



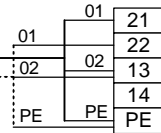
Document: 80019896
Page: 01.001350

Kiepe
Pull Rope Switch
NTS 002

525BC02D01M01



525BC02D01
Pull Rope Switch

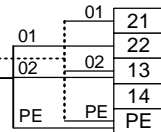


Cable List: Pull Rope switches

- 525BC02D03M01
- 525BC02D04M01
- 525BC02D05M01

525BC02D02M01

525BC02D06M01



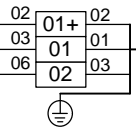
525BC02D06
Pull Rope Switch

Tonasa	S Kiepe Sway Detector 04 P. 2 St. LSC	S Kiepe Sway Detector 4 P. 2 St. LSC	-	9/28/2010 6:04:28 AM	1/27/2012 10:35:17 AM	Customer	A2
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530LG01A05

525JB01X

	Address	Position:	Term:	
220 VAC		X06.03.A	01L	02
Sway Max 1	525BC02D07Z41	N02.01..06.02	01	03
Sway Max 2	525BC02D07Z42	N02.01..06.03	02	06



525BC02D07M01

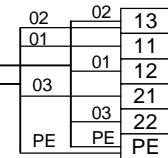
525BC02D08M01

525BC02D09M01

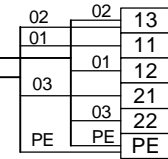
525BC02D10M01

Kiepe
Off Track Limit Switch

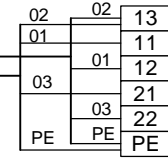
SLS 011



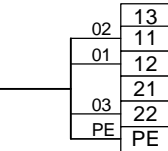
525BC02D07
Sway Detector



525BC02D08
Sway Detector



525BC02D09
Sway Detector



525BC02D10
Sway Detector



525BC02D07

Belt Conveyor
Sway Detector

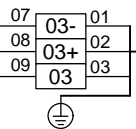
80019896

01.001310

530LG01A05

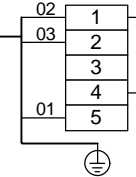
525JB01X

	Address	Position:	Term:	
0/220 VAC		X06.03.A	03N	07
220 VAC		X06.03.A	03L	08
Speed Min	525BC02D11S41	DI N02.01..06.04	X06.03.A	03



525BC02D11M01

Milltronics
ZSS



525BC02D11
Motion Detector

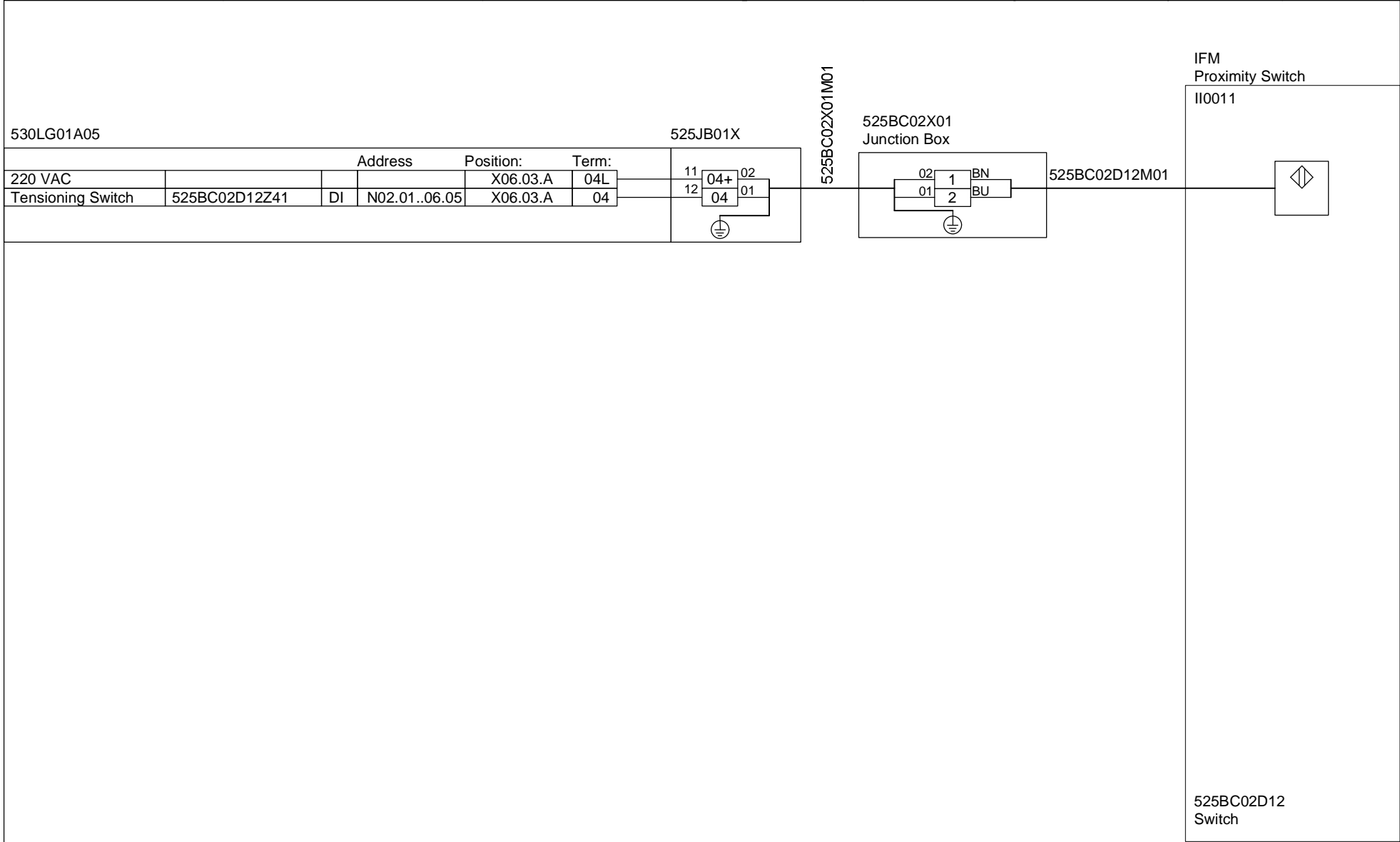


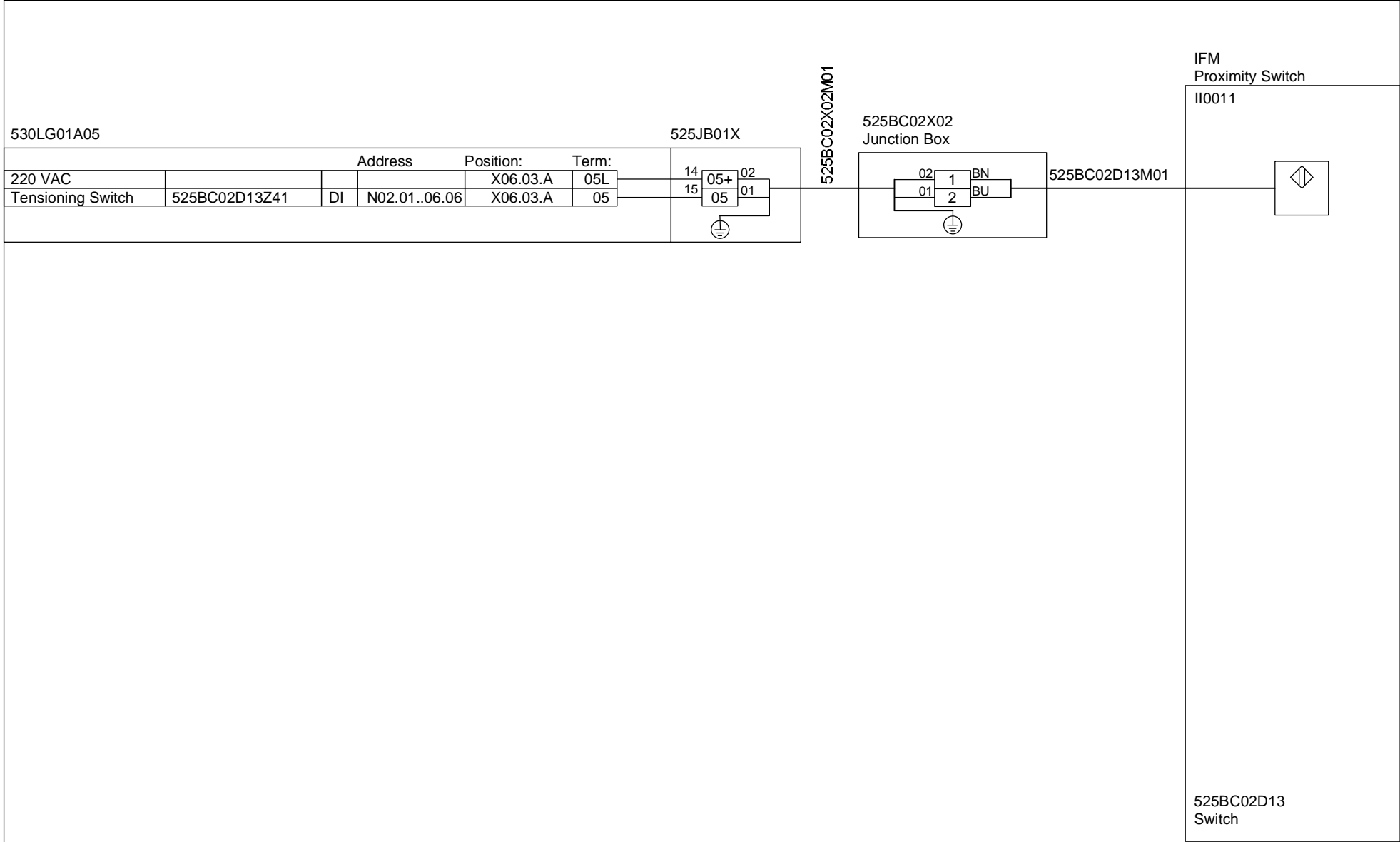
525BC02D11

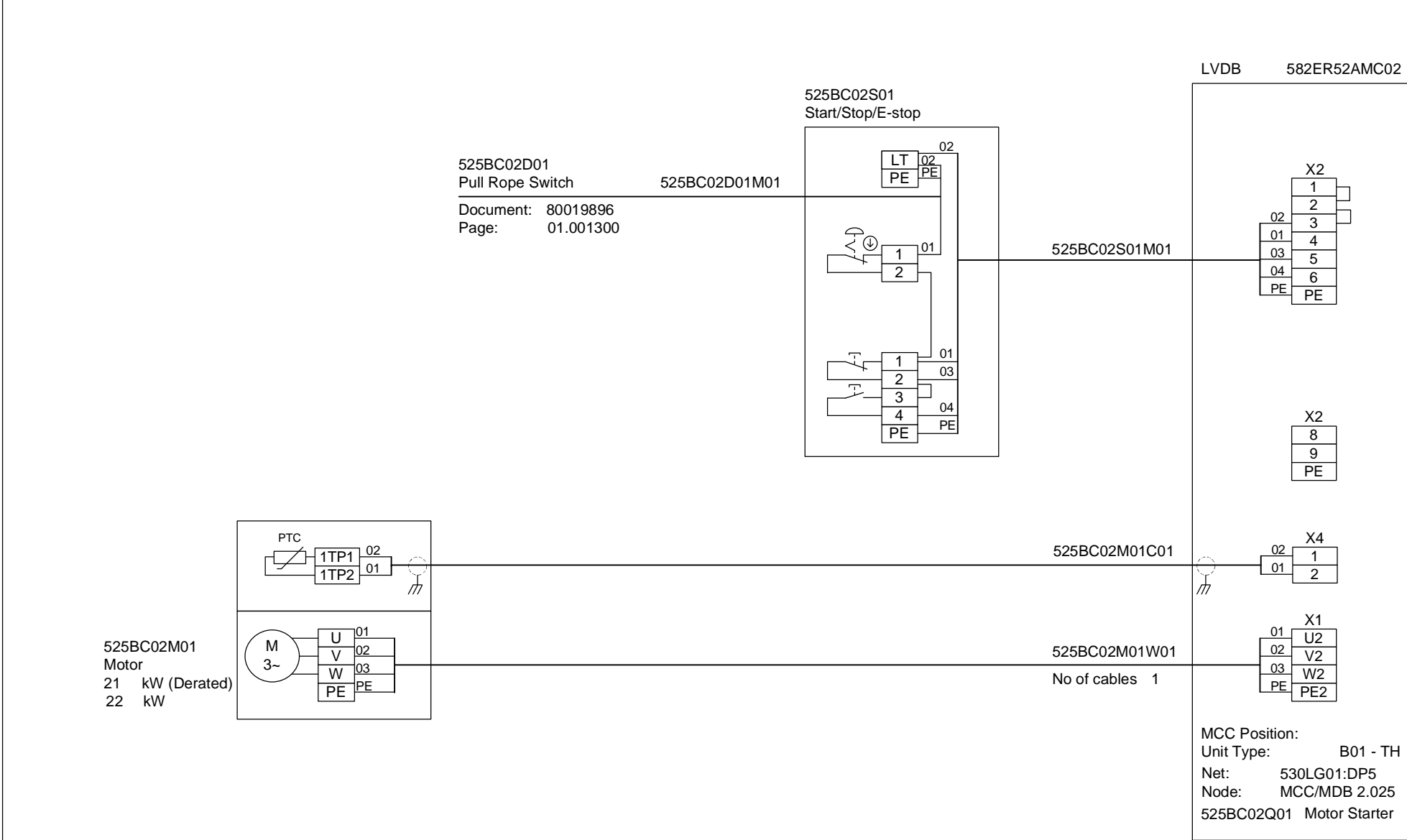
Belt Conveyor
Motion Detector

80019896

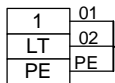
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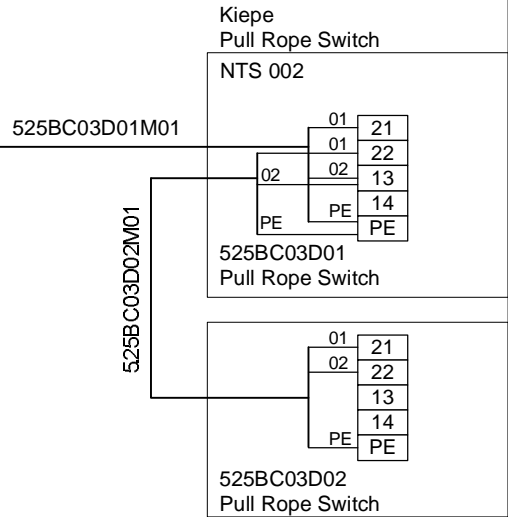




525BC03S01
Start/Stop/E-stop



Document: 80019896
Page: 01.001420



530LG01A07

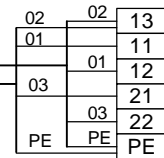
524JB01X

	Address	Position:	Term:	
220 VAC		X06.01.A	11L	32
Sway Max 1	525BC03D03Z41	DI N02.01..05.14	X06.01.A	11
Sway Max 2	525BC03D03Z42	DI N02.01..05.15	X06.01.A	12

Kiepe
Off Track Limit Switch

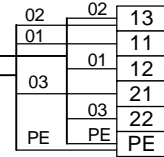
SLS 011

525BC03D03M01



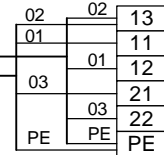
525BC03D04M01

525BC03D03
Sway Detector



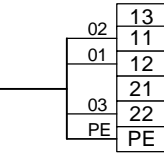
525BC03D05M01

525BC03D04
Sway Detector



525BC03D06M01

525BC03D05
Sway Detector



525BC03D06
Sway Detector



525BC03D03

Belt Conveyor
Sway Detector

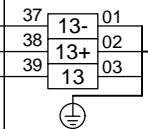
80019896

01.001370

530LG01A07

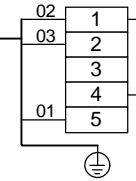
524JB01X

	Address	Position:	Term:	
0/220 VAC		X06.01.A	13N	37
220 VAC		X06.01.A	13L	38
Speed Min	525BC03D07S41	DI	N02.01..05.16	X06.01.A
				13



525BC03D07M01

Milltronics
ZSS



525BC03D07
Motion Detector



525BC03D07

Belt Conveyor
Motion Detector

80019896

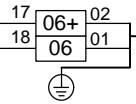
01.001380

530LG01A05

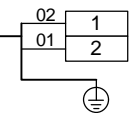
525JB01X

Panasonic
Limit Switch

	Address	Position:	Term:
220 VAC		X06.03.A	06L
Temperature High	525BC03D08T41	DI	N02.01..06.07
		X06.03.A	06



525BC03D08M01



525BC03D08
Temperature

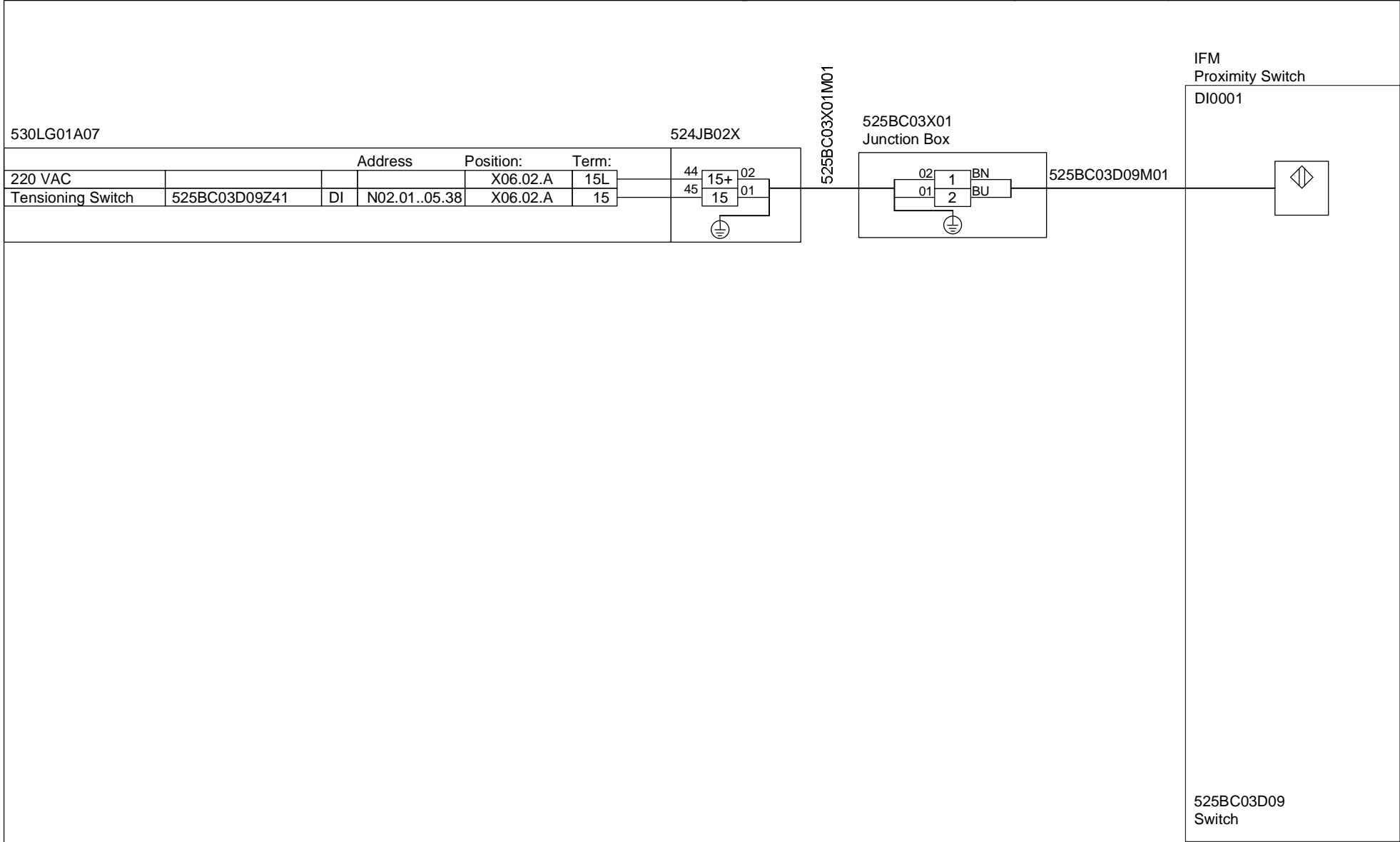


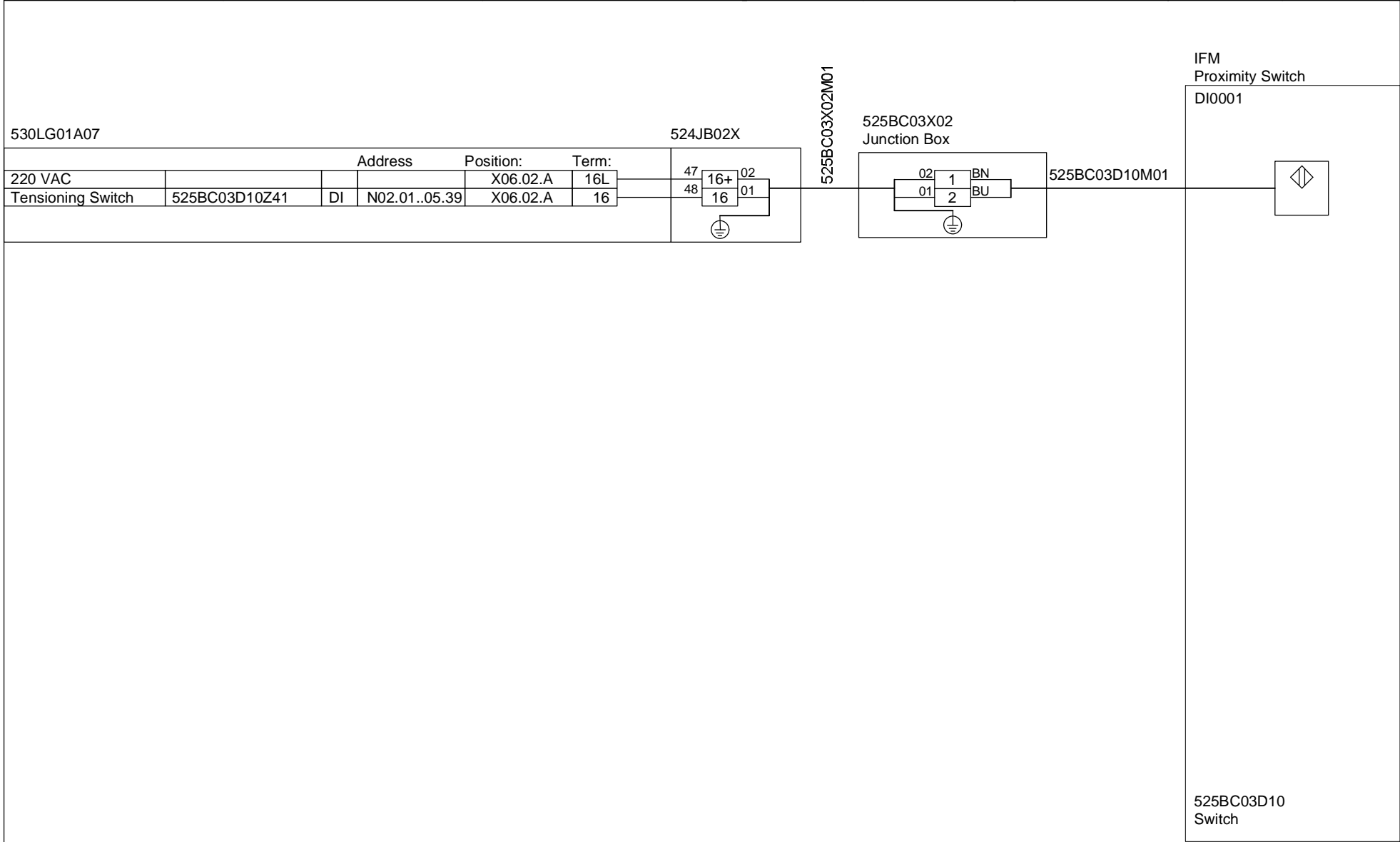
525BC03D08

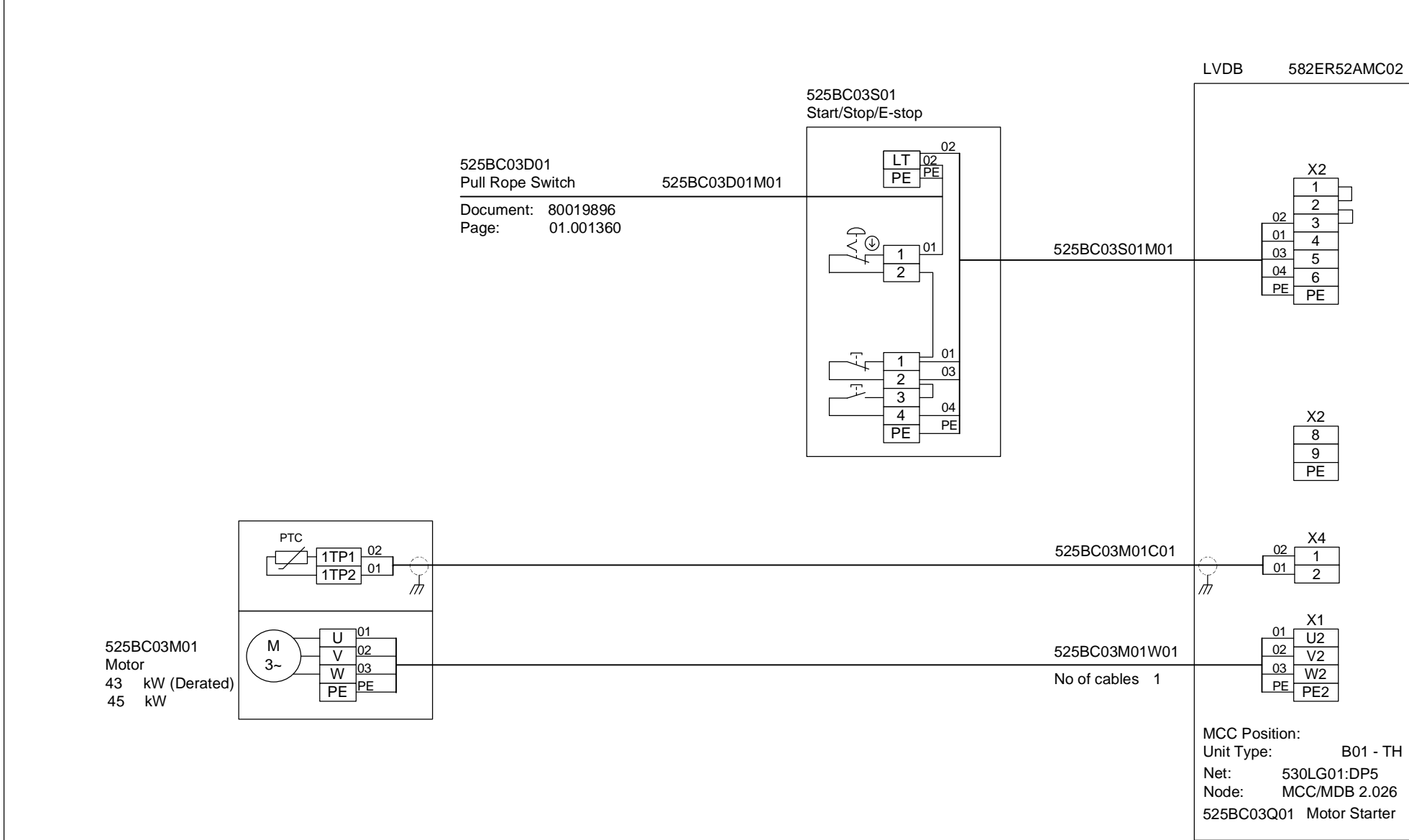
Belt Conveyor Hydraulic Coupling
Temperature

80019896

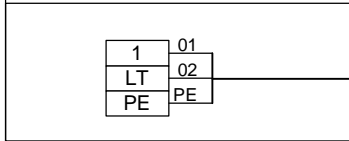
01.001390







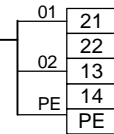
525BC04S01
Start/Stop/E-stop



525BC04D01M01

Kiepe
Pull Rope Switch

NTS 002



525BC04D01
Pull Rope Switch

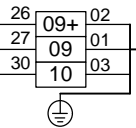
Document: 80019896
Page: 01.001480

Tonasa	S Kiepe Sway Detector 04 P. 2 St. LSC	S Kiepe Sway Detector 4 P. 2 St. LSC	-	9/28/2010 6:05:28 AM	1/27/2012 10:35:23 AM	Customer	A2
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530LG01A05

522JB02X

	Address	Position:	Term:
220 VAC		X06.02.A	09L
Sway Max 1	525BC04D02Z41	N02.01..05.32	X06.02.A 09
Sway Max 2	525BC04D02Z42	N02.01..05.33	X06.02.A 10



525BC04D02M01

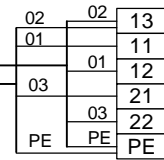
525BC04D03M01

525BC04D04M01

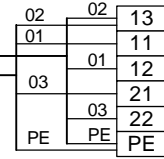
525BC04D05M01

Kiepe
Off Track Limit Switch

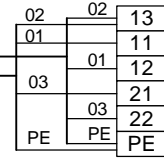
SLS 011



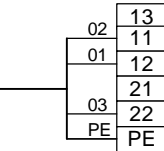
525BC04D02
Sway Detector



525BC04D03
Sway Detector



525BC04D04
Sway Detector



525BC04D05
Sway Detector



525BC04D02

Belt Conveyor
Sway Detector

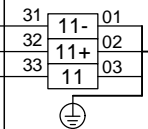
80019896

01.001440

530LG01A05

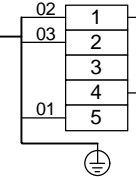
522JB02X

	Address	Position:	Term:	
0/220 VAC		X06.02.A	11N	31
220 VAC		X06.02.A	11L	32
Speed Min	525BC04D06S41	DI N02.01..05.34	X06.02.A	11



Milltronics
ZSS

525BC04D06M01



525BC04D06
Motion Detector

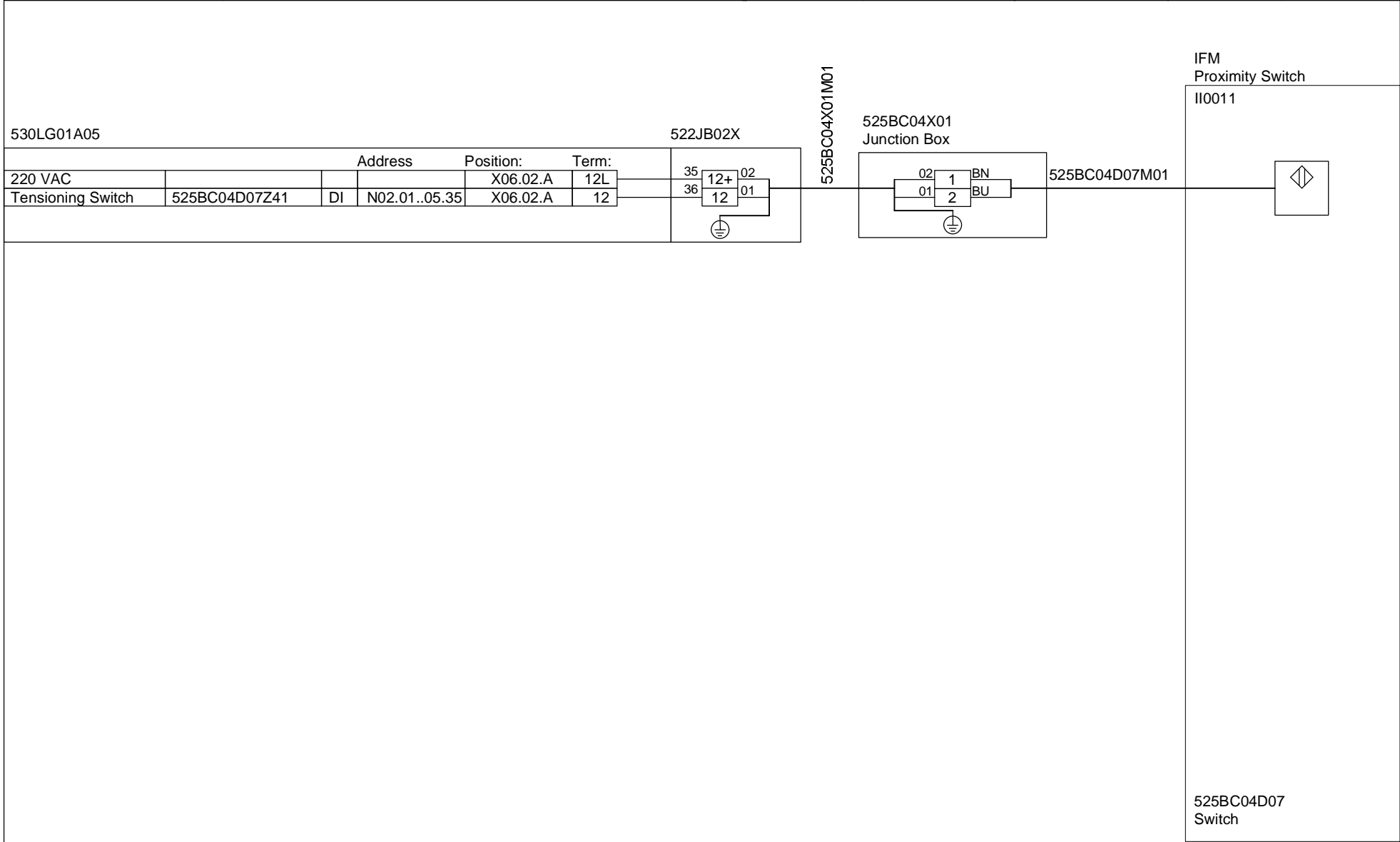


525BC04D06

Belt Conveyor
Motion Detector

80019896

01.001450



530LG01A05

522JB02X

525BC04X01M01

525BC04X01
Junction Box

IFM
Proximity Switch
II0011

	Address	Position:	Term:
220 VAC		X06.02.A	12L
Tensioning Switch	525BC04D07Z41	DI N02.01..05.35	X06.02.A 12

525BC04D07M01

525BC04D07
Switch

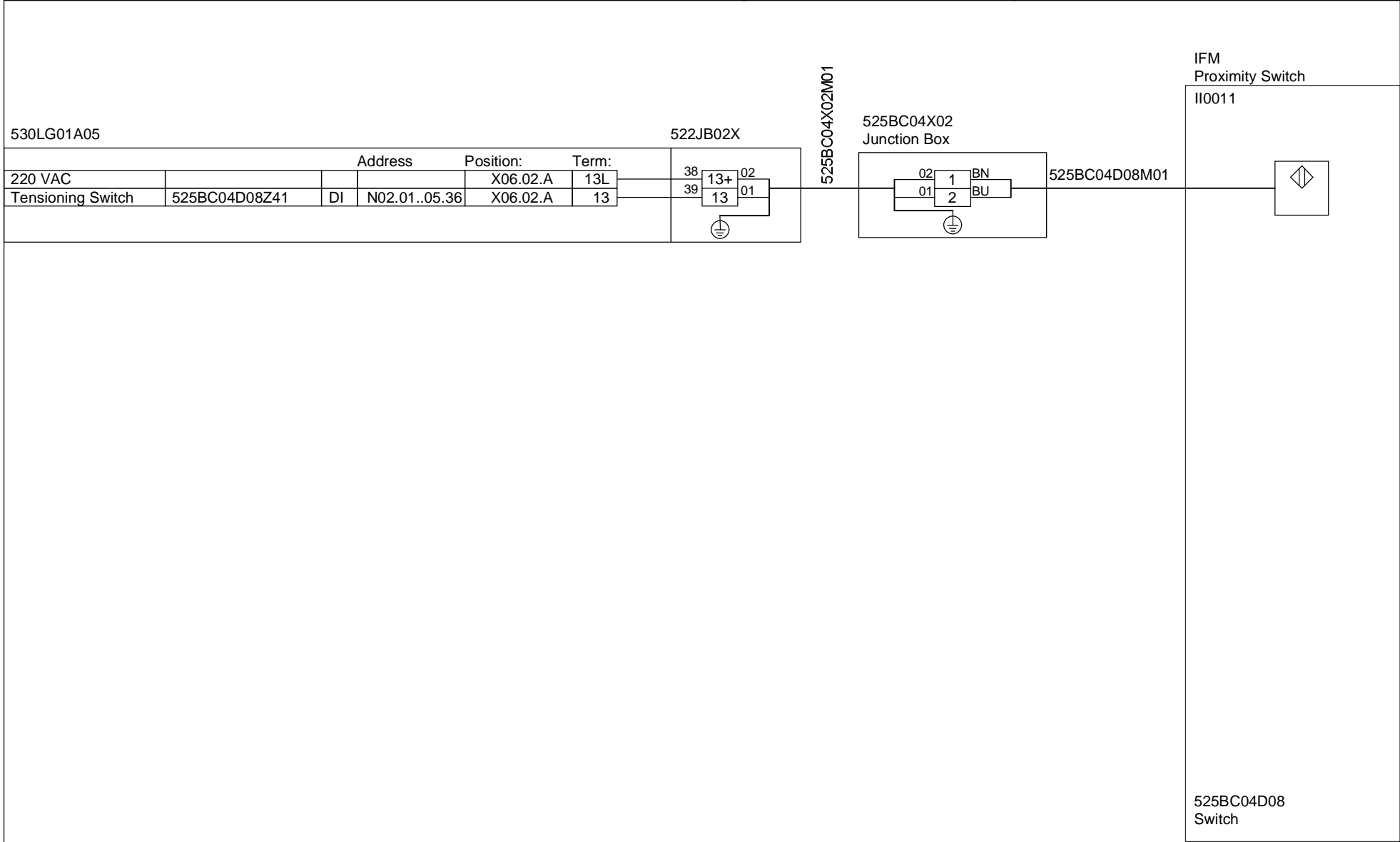


525BC04D07

Belt Conveyor Upper clamping stroke
Switch

80019896

01.001460



530LG01A05

522JB02X

525BC04X02M01

525BC04X02
Junction Box

IFM
Proximity Switch
II0011

	Address	Position:	Term:
220 VAC		X06.02.A	13L
Tensioning Switch	525BC04D08Z41	DI N02.01..05.36	X06.02.A 13

525BC04D08M01

525BC04D08
Switch

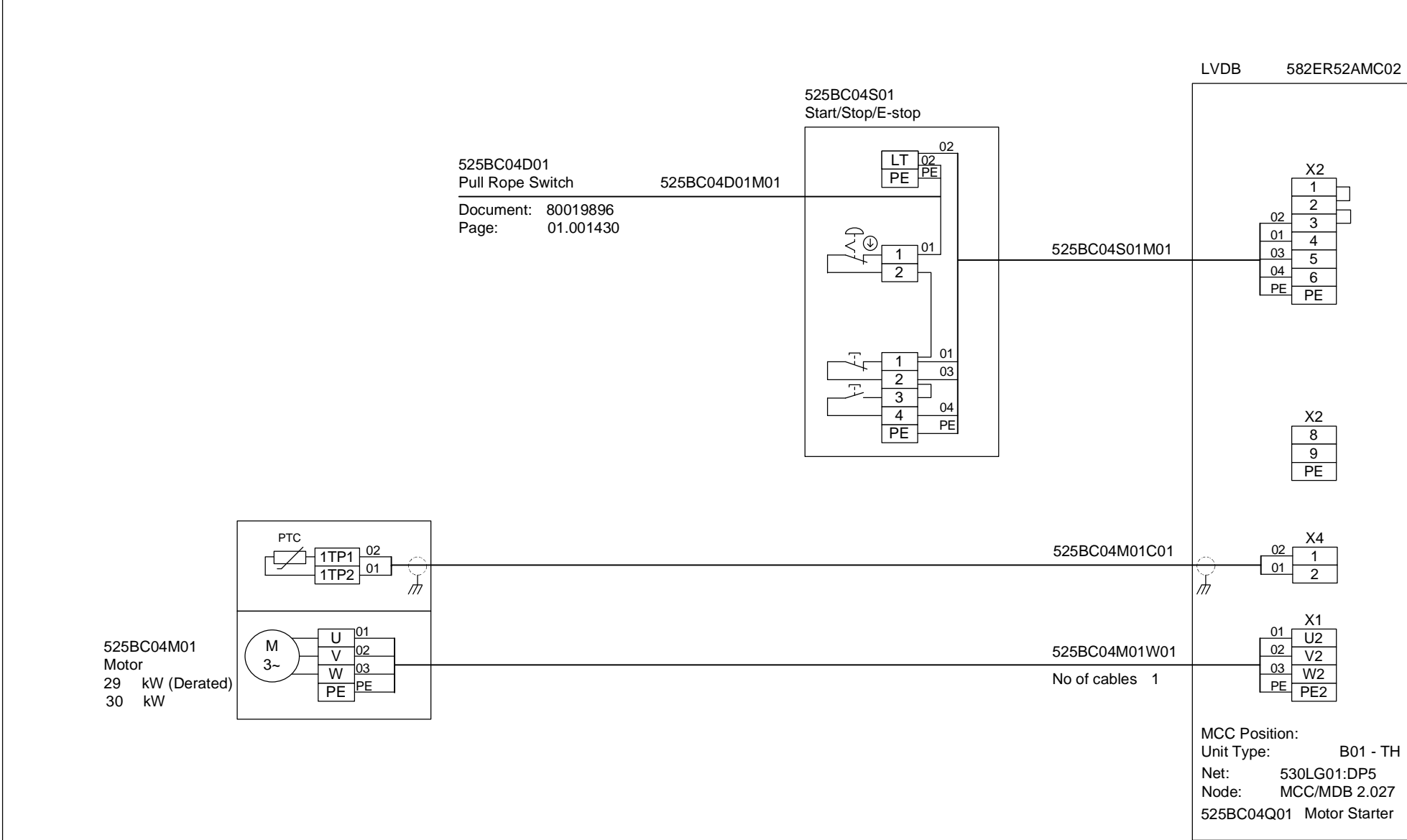


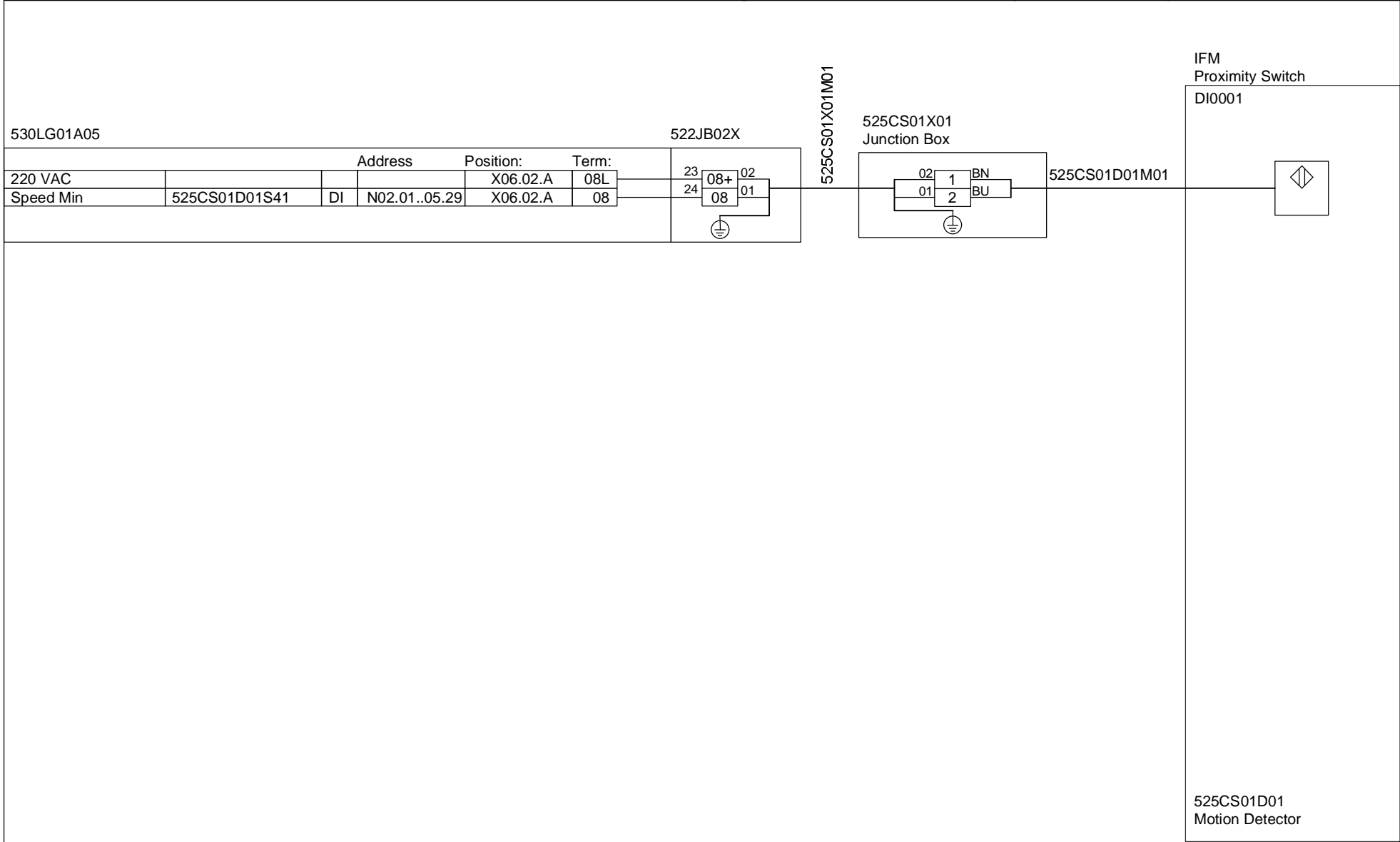
525BC04D08

Belt Conveyor Lower clamping stroke
Switch

80019896

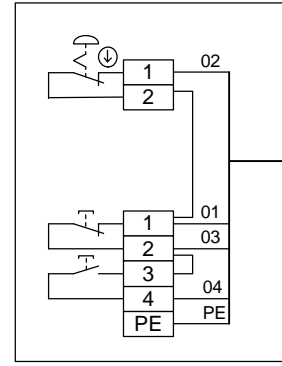
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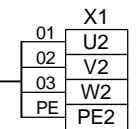
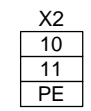
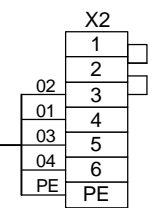


LVDB 582ER52AMC02

525CS01S01
Start/Stop/E-stop



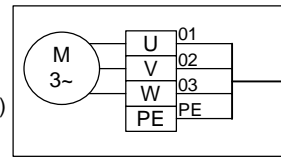
525CS01S01M01



525CS01M01W01

No of cables 1

525CS01M01
Motor
3 kW (Derated)
3 kW

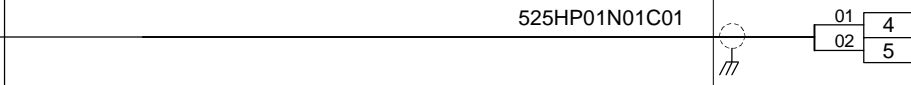


MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.028
525CS01Q01
Motor Starter

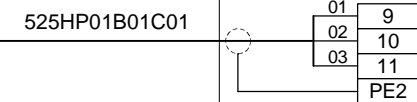
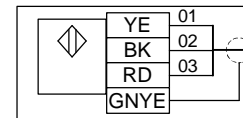
530LG01A06

	Address	Position	Term:
0/24 VDC		X05.02.A	14-
Level	525HP01N01L01	AI N02.01..08.14	X05.02.A 14

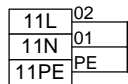
Endress & Hauser
Level Transmitter
FMU90+FDU93



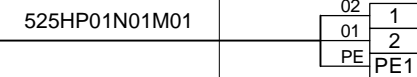
525HP01B01
Level
FDU-93



LVDB 582ER52AMC02



MCC Position:
Unit Type: B42
582ER52AMC02F01 Feeder



525HP01N01
Level



525HP01N01

Hopper
Level

80019896

01.001510

525JB01X
Junction Box

A	Signal:	Component:
03	525BC02D07Z41	525BC02D07
01	220 VAC	525BC02D07
01+		
01-		
06	525BC02D07Z42	525BC02D07
05		
02+		
04		
02-		
09	525BC02D11S41	525BC02D11
03	220 VAC	525BC02D11
03+	0/220 VAC	525BC02D11
07	525BC02D12Z41	525BC02X01
03-	220 VAC	525BC02X01
12		
04		
11		
04+		
10		
04-		
15	525BC02D13Z41	525BC02X02
05	220 VAC	525BC02X02
14		
05+		
13		
05-		
18	525BC03D08T41	525BC03D08
06	220 VAC	525BC03D08
17		
06+		
16		
06-		
21	524BC02D09Z41	524BC02X01
07	220 VAC	524BC02X01
20		
07+		
19		
07-		
24	524BC02D10Z41	524BC02X02
08	220 VAC	524BC02X02
23		
08+		
22		
08-		
27		
09		
26		
09+		
25		
09-		
30		
10		
29		
10+		
28		
10-		
33		
11		
32		
11+		
31		
11-		
36		
12		
35		
12+		
34		
12-		
39		
13		
38		
13+		
37		
13-		
42		
14		
41		
14+		
40		
14-		
45		
15		
44		
15+		
43		
15-		
48		
16		
47		
16+		
46		
16-		

530L G01A05
PLC IO-Cabinet ER-52A

Block	Term:	03
X06.03.A	01	49
X06.03.A	01L	50
X06.03.A	01N	51
X06.03.A	02	52
X06.03.A	02L	53
X06.03.A	02N	54
X06.03.A	03	55
X06.03.A	03L	56
X06.03.A	03N	57
X06.03.A	04	58
X06.03.A	04L	59
X06.03.A	04N	60
X06.03.A	05	61
X06.03.A	05L	62
X06.03.A	05N	63
X06.03.A	06	64
X06.03.A	06L	
X06.03.A	06N	
X06.03.A	07	
X06.03.A	07L	
X06.03.A	07N	
X06.03.A	08	
X06.03.A	08L	
X06.03.A	08N	
X06.03.A	09	
X06.03.A	09L	
X06.03.A	09N	
X06.03.A	10	
X06.03.A	10L	
X06.03.A	10N	
X06.03.A	11	
X06.03.A	11L	
X06.03.A	11N	
X06.03.A	12	
X06.03.A	12L	
X06.03.A	12N	
X06.03.A	13	
X06.03.A	13L	
X06.03.A	13N	
X06.03.A	14	
X06.03.A	14L	
X06.03.A	14N	
X06.03.A	15	
X06.03.A	15L	
X06.03.A	15N	
X06.03.A	16	
X06.03.A	16L	
X06.03.A	16N	

525JB01XM01



525JB01X

Digital
Junction Box

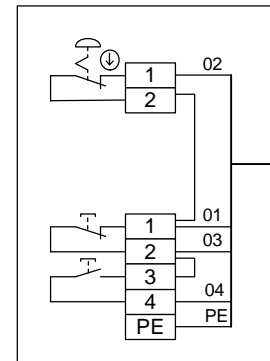
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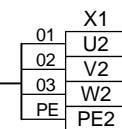
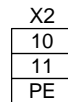
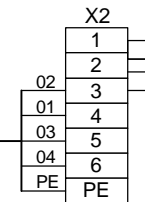
Location : Near 525BC04

LVDB 582ER52AMC02

525MT01S01
Start/Stop/E-stop



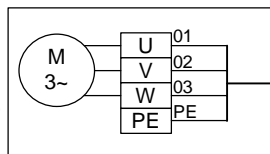
525MT01S01M01



525MT01M01W01

No of cables 1

525MT01M01
Motor
14.5 kW (Derated)
15 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.029
525MT01Q01
Motor Starter



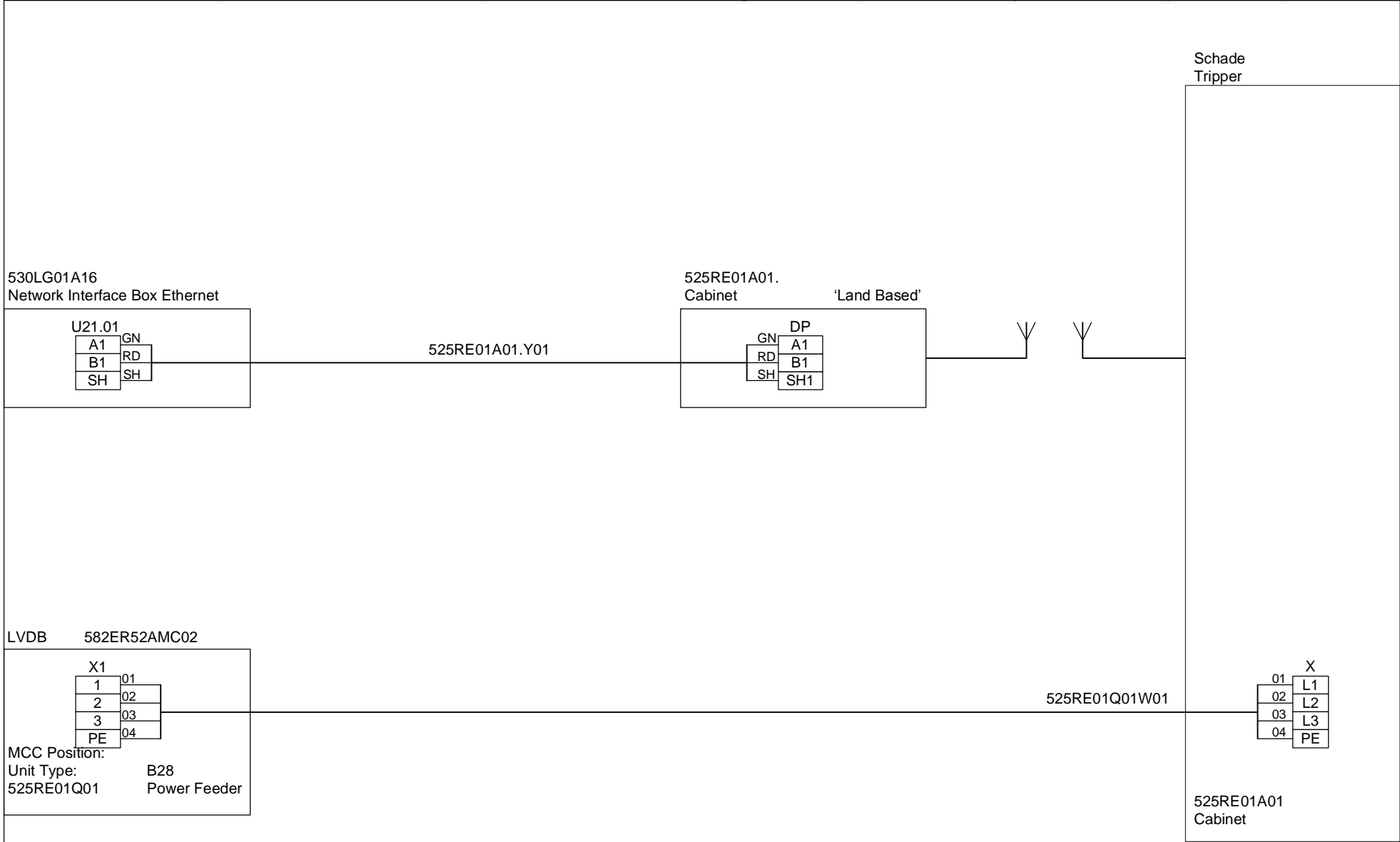
525MT01M01

Magnetic Separator
Motor

80019896

01.001530

Tonasa	Schade 525RE01	Schade 525RE01	-	12/15/2010 10:37:18 AM	1/27/2012 10:35:29 AM	Customer	A2
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LVDB 582ER52AMC02

X1	
1	01
2	02
3	03
PE	04

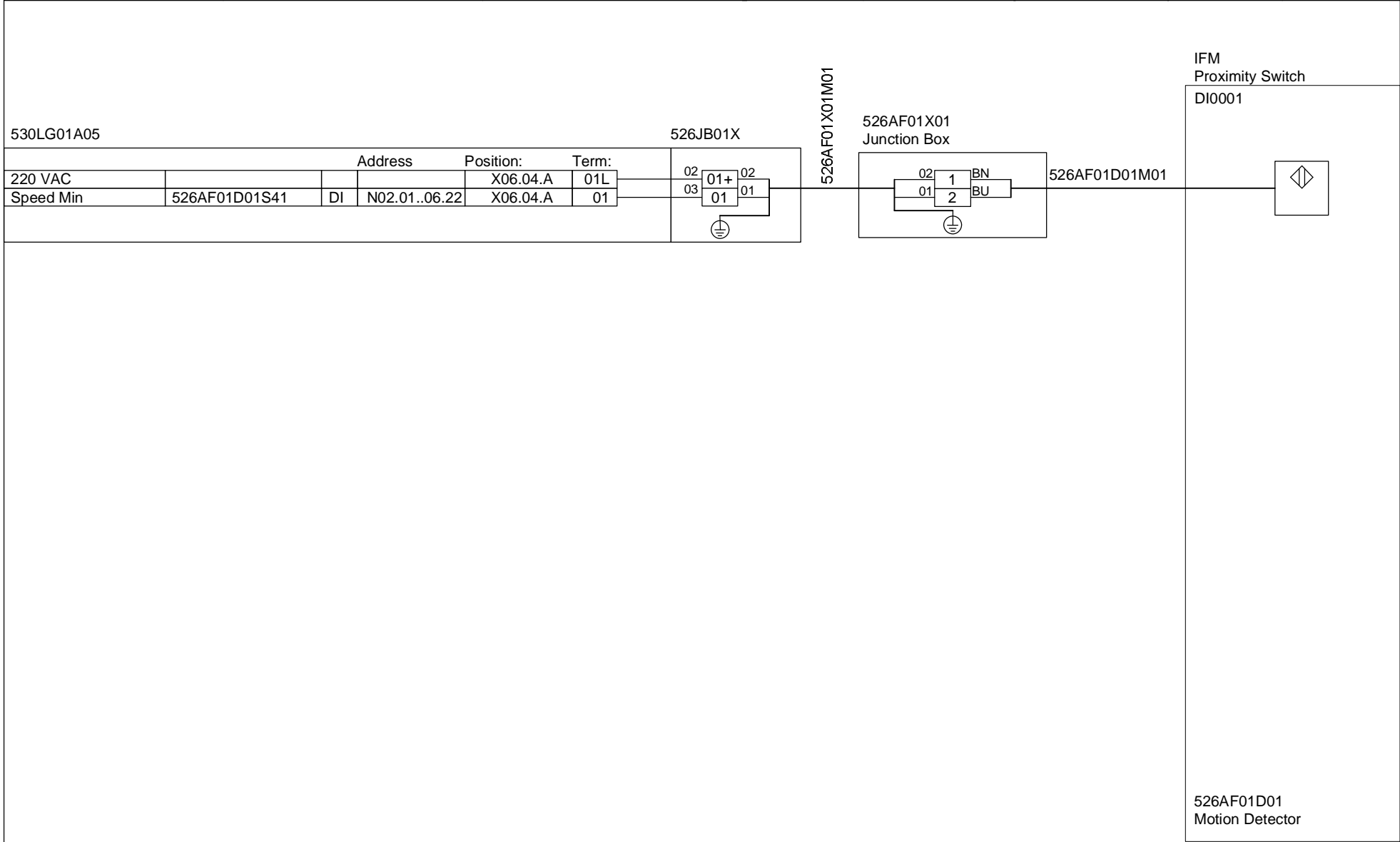
MCC Position:
Unit Type: B28
525RE01Q01 Power Feeder

Schade Tripper

X	
01	L1
02	L2
03	L3
04	PE

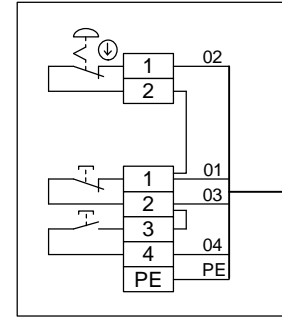
525RE01A01 Cabinet

	525RE01A01	Reclaimer (Clay) Cabinet	80019896	01.001540
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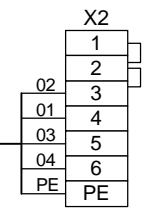


LVDB 582ER52AMC04

526AF01S01
Start/Stop/E-stop



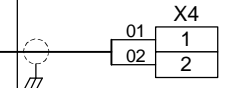
526AF01S01M01



526AF01M01
Motor

Document: 80019896
Page: 01.001570

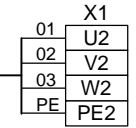
526AF01M01C01



526AF01U01
Frequency Converter

Document: 80019896
Page: 01.001570

526AF01U01W01



No of cables 1

MCC Position:
Unit Type: B15.1-UD-TH
Net: 530LG01:DP5
Node: MCC/MDB 2.032
526AF01Q01
Motor Starter



526AF01Q01 Apron Feeder
Motor Starter

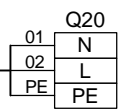
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ABB
Frequency Drive
ACS850-04-035A-
5+E200+J410+K454

582ER52AMC04F01
Feeder

526AF01U01M01

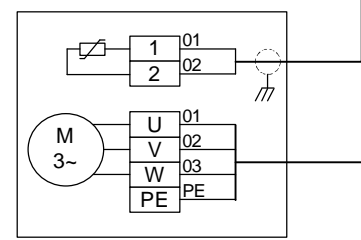
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Page: 01.004860



526AF01Q01
Motor Starter

526AF01M01C01

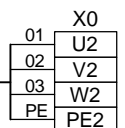
Doc: 80019896
Page: 01.001560



526AF01M01
Motor
15 kW

526AF01M01W01

No of cables 1

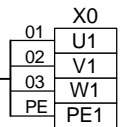


526AF01Q01
Motor Starter

526AF01U01W01

No of cables 1

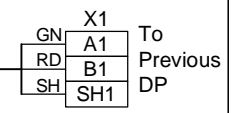
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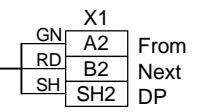
Net: 530LG01:DP3
Node: Field Device.020
526AF01U01
Frequency Converter

ABB
Frequency Drive
ACS850-04-035A-
5+E200+J410+K454

525AF01U01
Frequency Converter
526AF01U01Y01
Document: 80019896
Page: 01.001280

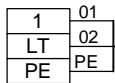


530LG01A19
Network Interface Box Profibus
530LG01A19Y02
Document: 80019896
Page: 01.002040



526AF01U01
Frequency Converter

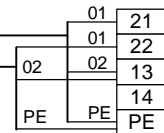
526BC01S01
Start/Stop/E-stop



Document: 80019896
Page: 01.001640

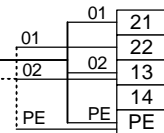
Kiepe
Pull Rope Switch
NTS 002

526BC01D01M01



526BC01D02M01

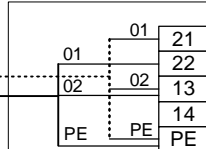
526BC01D01
Pull Rope Switch



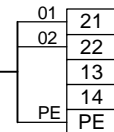
Cable List: Pull Rope switches

- 526BC01D03M01
- 526BC01D04M01
- 526BC01D05M01

526BC01D06M01



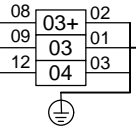
526BC01D06
Pull Rope Switch



530LG01A05

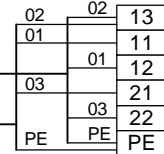
526JB01X

	Address	Position:	Term:
220 VAC		X06.04.A	03L
Sway Max 1	526BC01D07Z41	DI N02.01..06.24	X06.04.A 03
Sway Max 2	526BC01D07Z42	DI N02.01..06.25	X06.04.A 04



Kiepe
Off Track Limit Switch

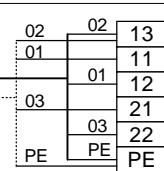
SLS 011



526BC01D07M01

526BC01D07
Sway Detector

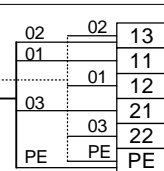
526BC01D08M01



Cable List:

- 526BC01D09M01
- 526BC01D10M01
- 526BC01D11M01

526BC01D12M01

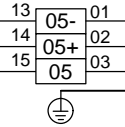


526BC01D12
Sway Detector

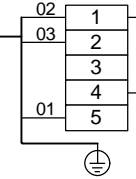
530LG01A05

526JB01X

	Address	Position:	Term:	
0/220 VAC		X06.04.A	05N	13
220 VAC		X06.04.A	05L	14
Speed Min	526BC01D13S41	DI N02.01..06.26	X06.04.A	05



526BC01D13M01



Milltronics
ZSS

526BC01D13
Motion Detector

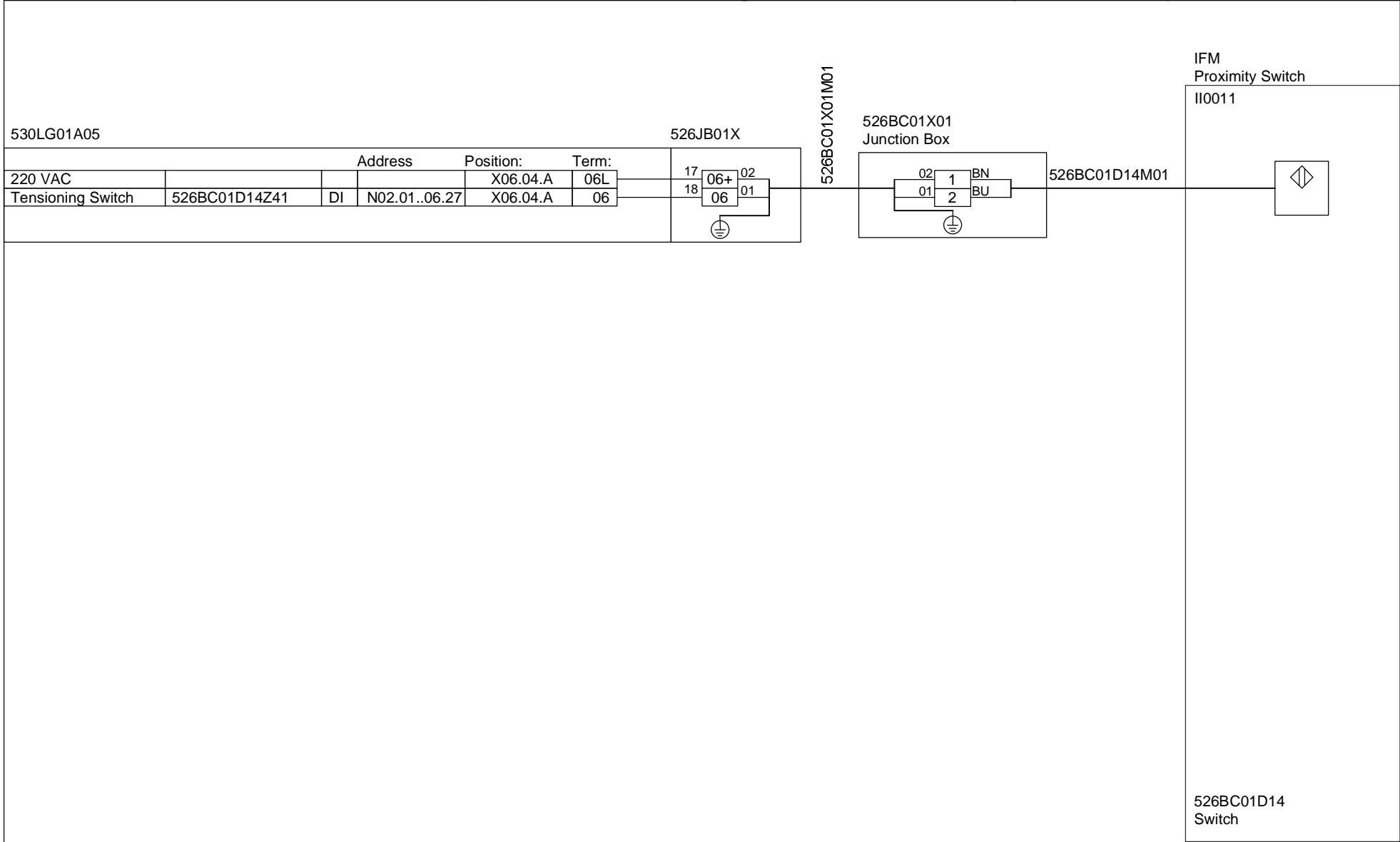


526BC01D13

Belt Conveyor
Motion Detector

80019896

01.001610



530LG01A05

526JB01X

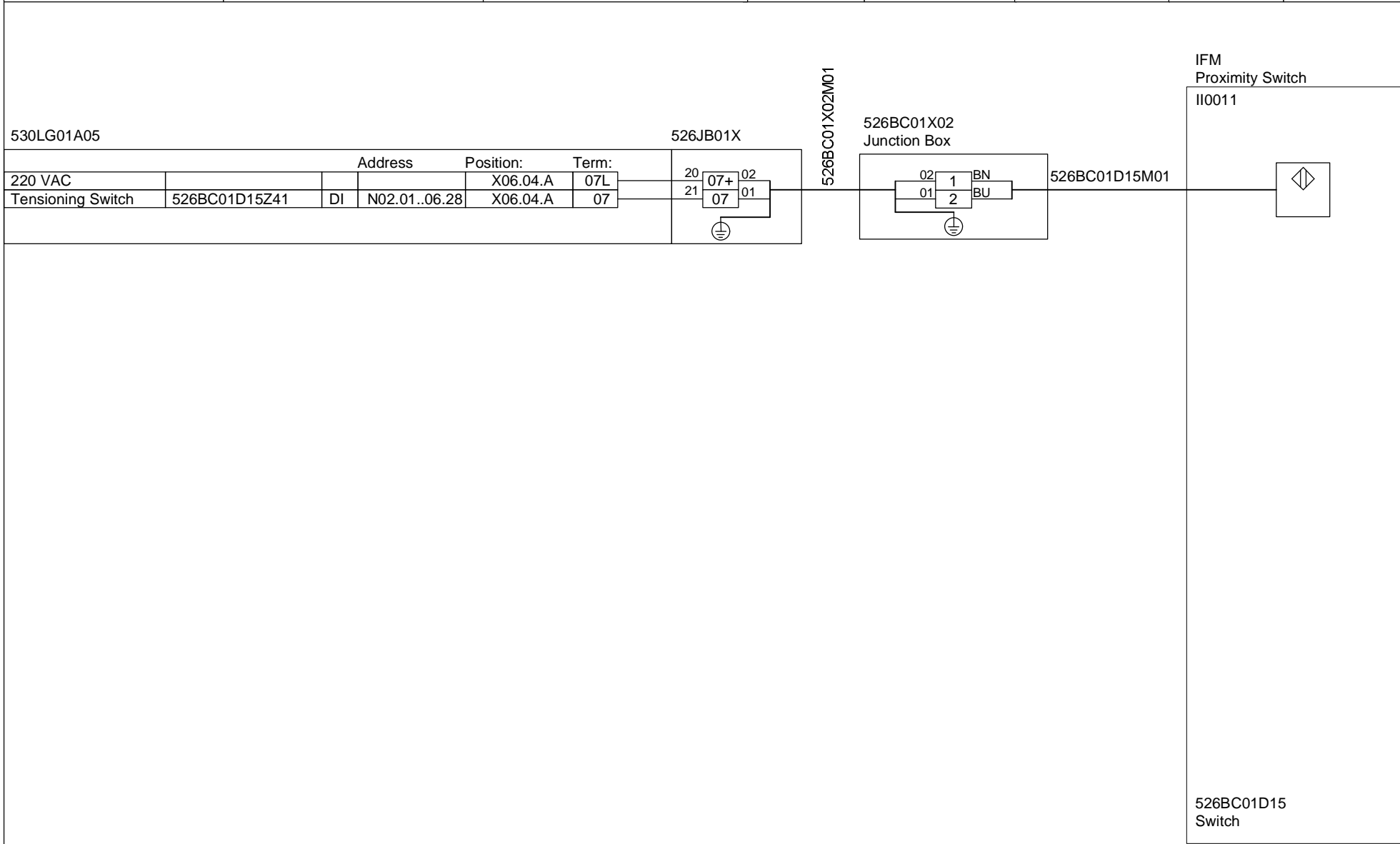
526BC01X01M01

526BC01X01
Junction Box

IFM
Proximity Switch
II0011

	Address	Position:	Term:
220 VAC		X06.04.A	06L
Tensioning Switch	526BC01D14Z41	X06.04.A	06

526BC01D14
Switch



530LG01A05

526JB01X

526BC01X02
Junction Box

IFM
Proximity Switch
II0011

	Address	Position:	Term:
220 VAC		X06.04.A	07L
Tensioning Switch	526BC01D15Z41	X06.04.A	07

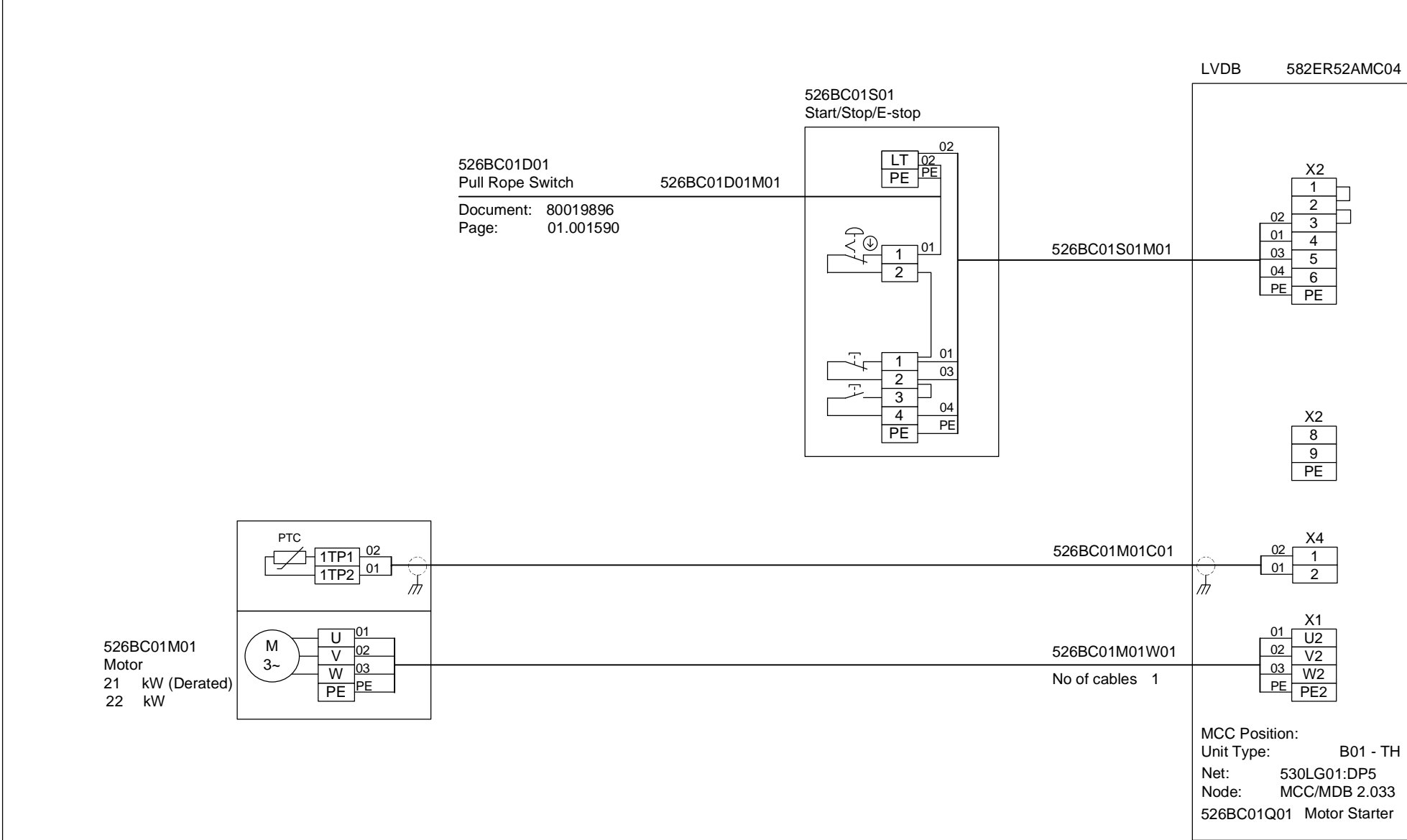
526BC01D15
Switch



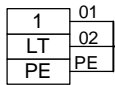
526BC01D15 Belt Conveyor Lower clamping stroke Switch

80019896

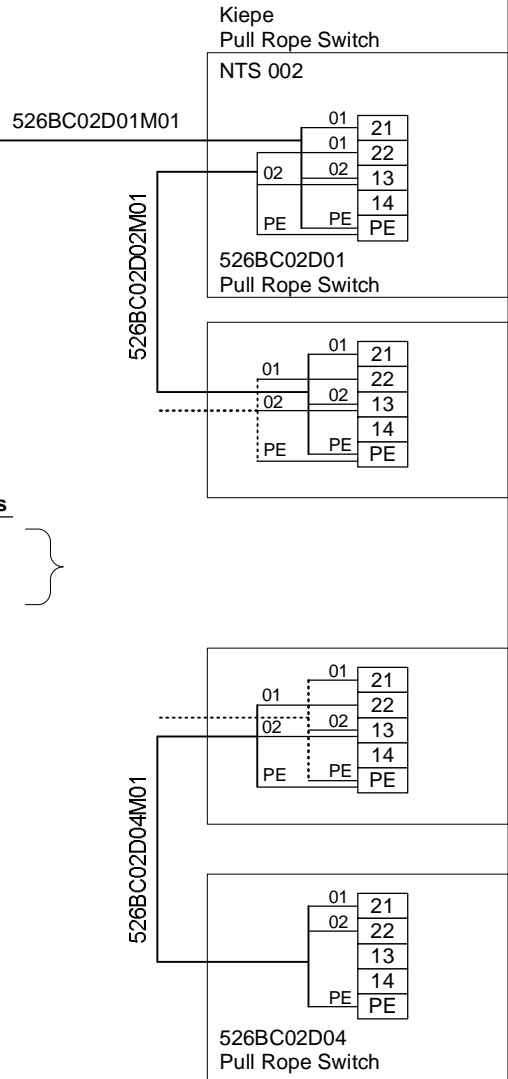
01.001630



526BC02S01
Start/Stop/E-stop



Document: 80019896
Page: 01.001700



Cable List: Pull Rope switches

- 526BC02D02M01
- 526BC02D03M01
- 526BC02D04M01

530LG01A07

524JB02X

	Address	Position:	Term:	
220 VAC		X06.02.A	01L	02
Sway Max 1	526BC02D05Z41	N02.01..05.22	X06.02.A	01
Sway Max 2	526BC02D05Z42	N02.01..05.23	X06.02.A	02

Kiepe
Off Track Limit Switch

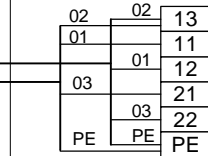
SLS 011

526BC02D05M01

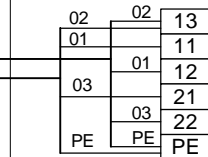
526BC02D06M01

526BC02D07M01

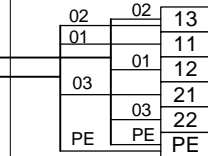
526BC02D08M01



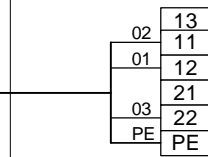
526BC02D05
Sway Detector



526BC02D06
Sway Detector



526BC02D07
Sway Detector



526BC02D08
Sway Detector



526BC02D05

Belt Conveyor
Sway Detector

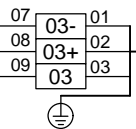
80019896

01.001660

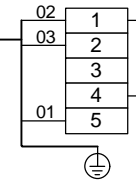
530LG01A07

524JB02X

	Address	Position:	Term:	
0/220 VAC		X06.02.A	03N	07
220 VAC		X06.02.A	03L	08
Speed Min	526BC02D09S41	DI N02.01..05.24	X06.02.A	03



526BC02D09M01



Milltronics
ZSS

526BC02D09
Motion Detector

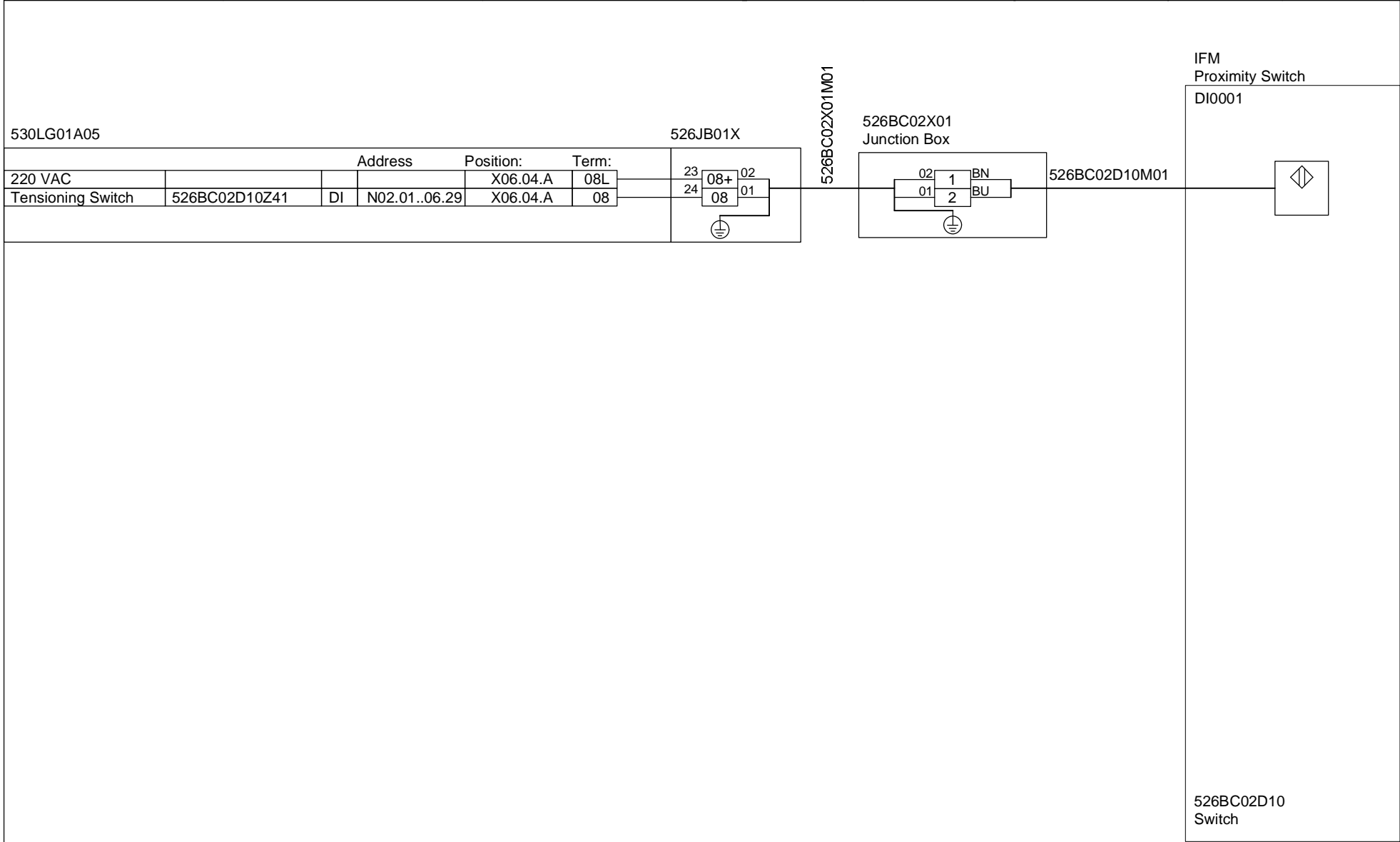


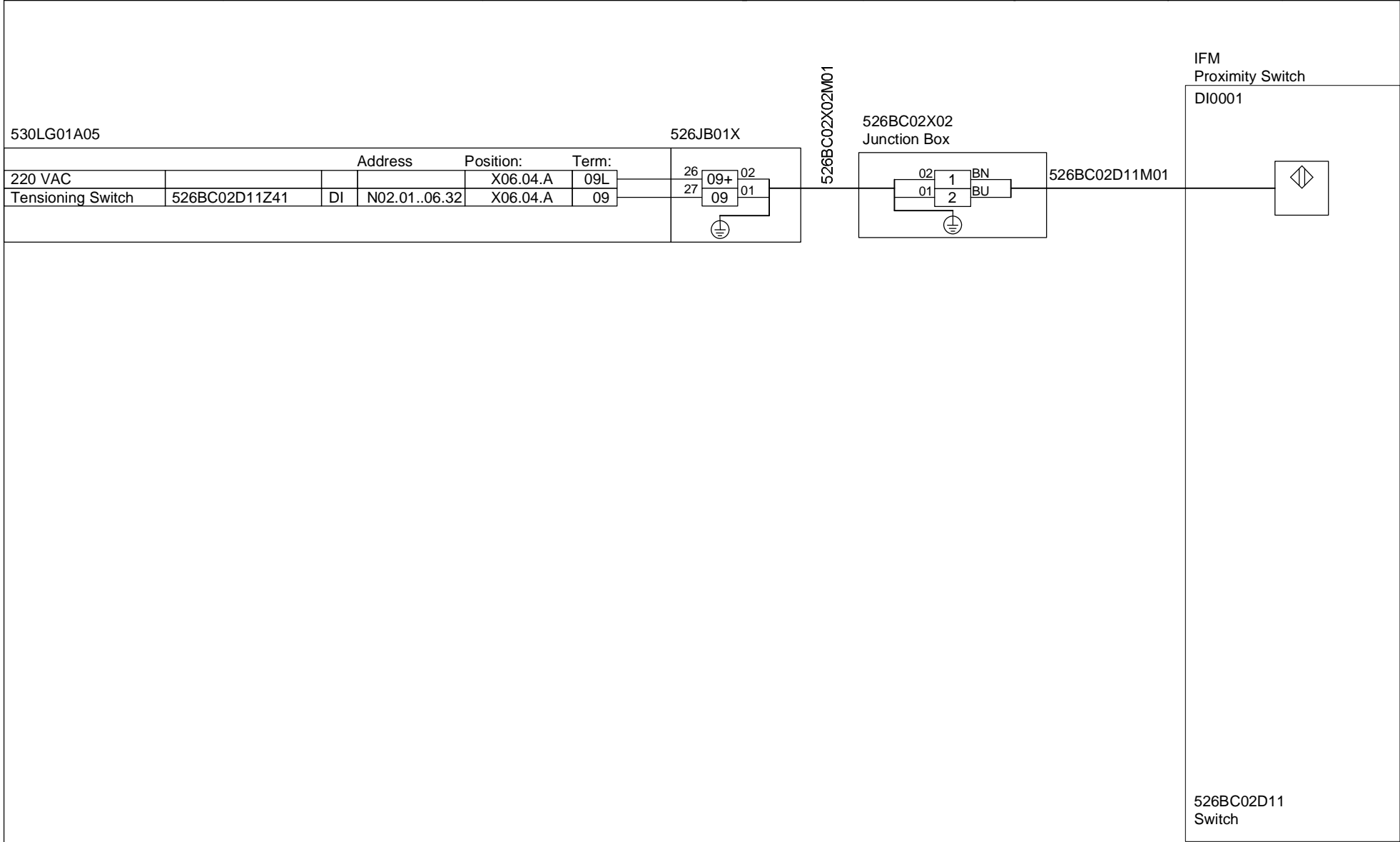
526BC02D09

Belt Conveyor
Motion Detector

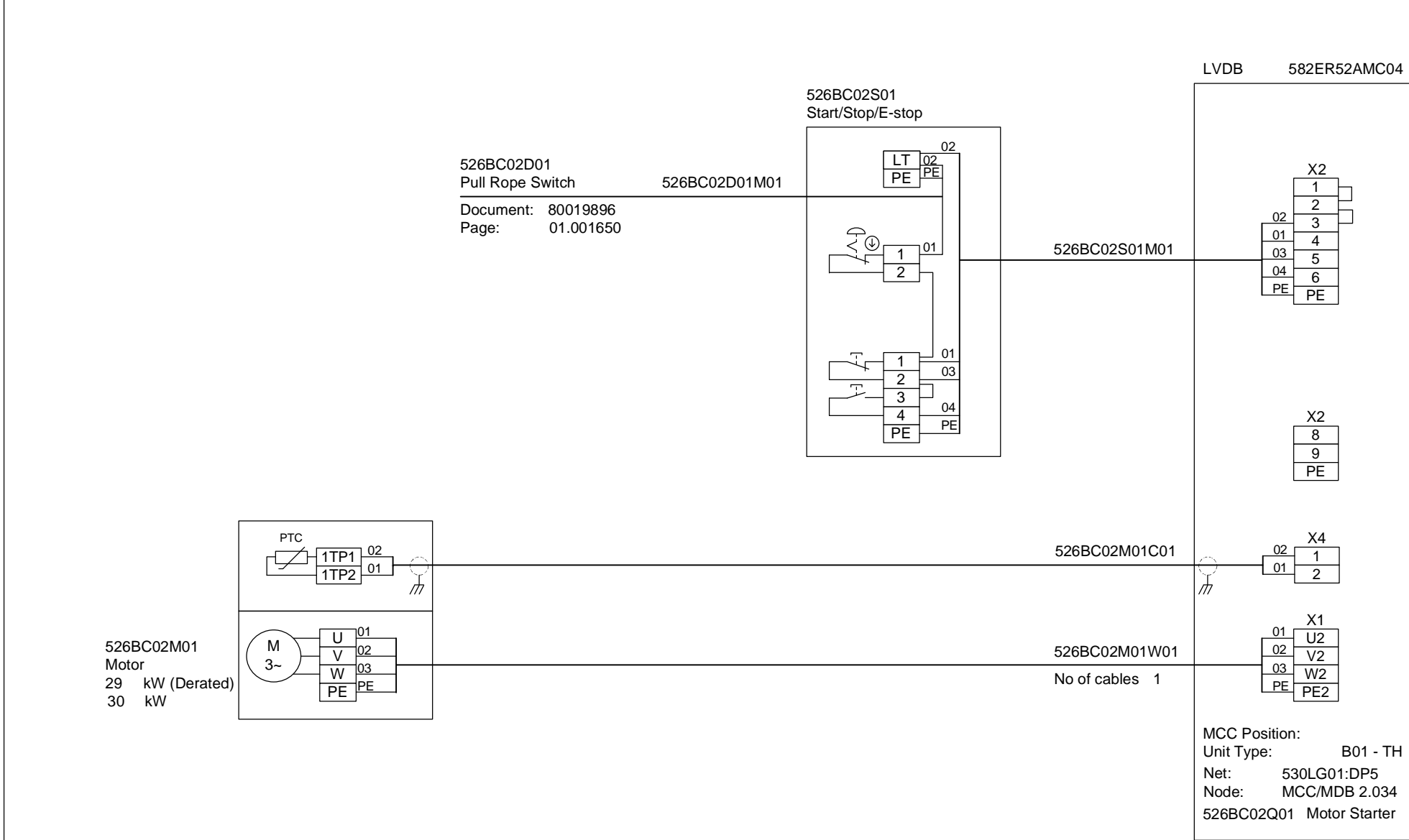
80019896

01.001670

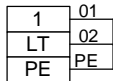




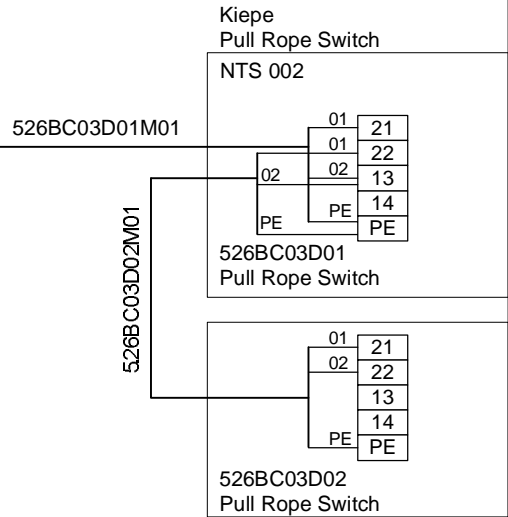
526BC02D11
Switch



526BC03S01
Start/Stop/E-stop



Document: 80019896
Page: 01.001740

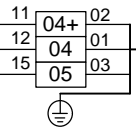


Tonasa	S Kiepe Sway Detector 04 P. 2 St. LSC	S Kiepe Sway Detector 4 P. 2 St. LSC	-	9/28/2010 6:07:25 AM	1/27/2012 10:35:42 AM	Customer	A2
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530LG01A07

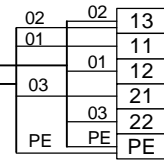
524JB02X

	Address	Position:	Term:
220 VAC		X06.02.A	04L
Sway Max 1	526BC03D03Z41	DI N02.01..05.25	X06.02.A 04
Sway Max 2	526BC03D03Z42	DI N02.01..05.26	X06.02.A 05



Kiepe
Off Track Limit Switch

SLS 011



526BC03D03M01

526BC03D04M01

526BC03D05M01

526BC03D06M01

526BC03D03
Sway Detector

526BC03D04
Sway Detector

526BC03D05
Sway Detector

526BC03D06
Sway Detector



526BC03D03

Belt Conveyor
Sway Detector

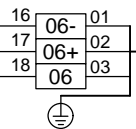
80019896

01.001720

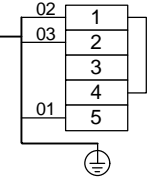
530LG01A07

524JB02X

	Address	Position:	Term:	
0/220 VAC		X06.02.A	06N	16
220 VAC		X06.02.A	06L	17
Speed Min	526BC03D07S41	DI	N02.01..05.27	X06.02.A
			06	06



526BC03D07M01



Milltronics
ZSS

526BC03D07
Motion Detector



526BC03D07

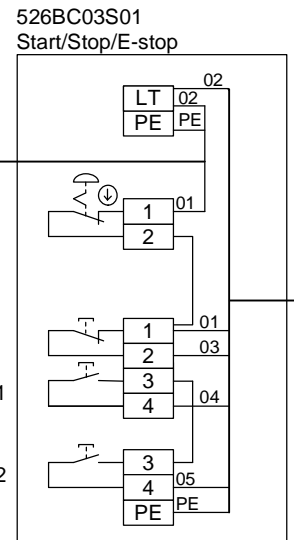
Belt Conveyor
Motion Detector

80019896

01.001730

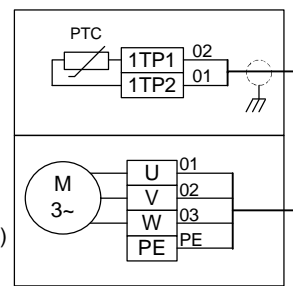
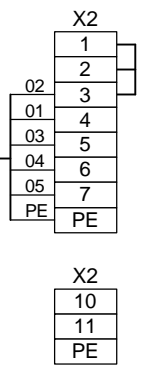
LVDB 582ER52AMC04

526BC03D01
Pull Rope Switch
Document: 80019896
Page: 01.001710



Local start 1
Local start 2

526BC03S01M01

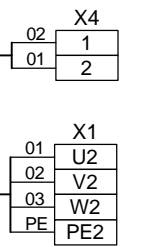


526BC03M01
Motor
3 kW (Derated)
3 kW

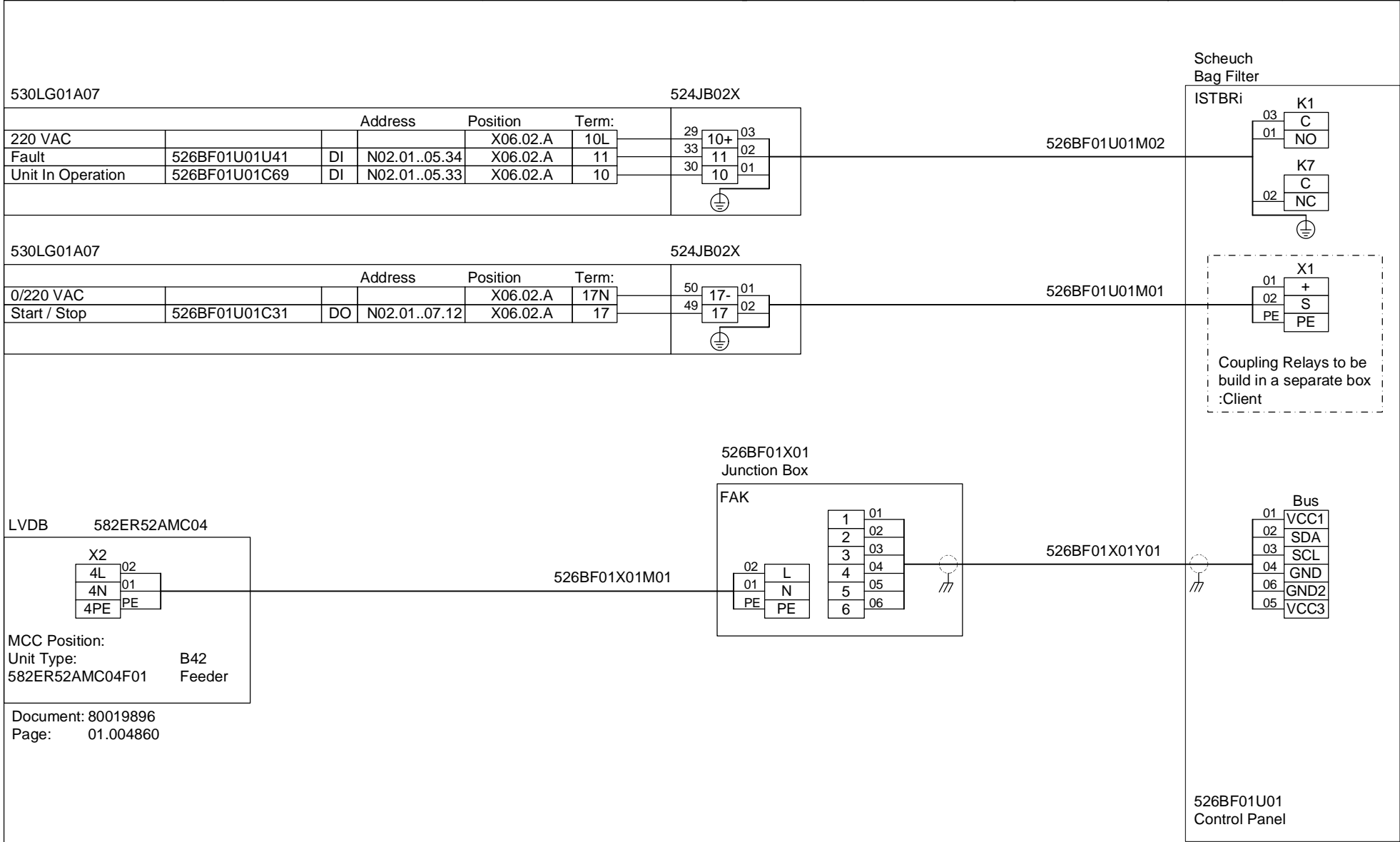
526BC03M01C01

526BC03M01W01

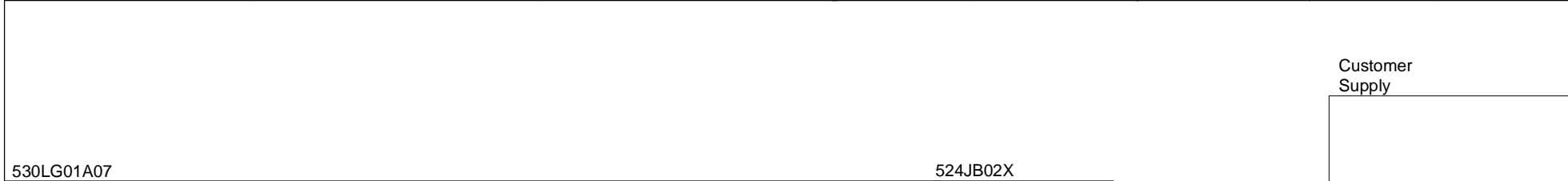
No of cables 1



MCC/MDb position
Unit Type B11 - NO
Net: 530LG01:DP5
Node: MCC/MDb 2.035
526BC03Q01 Motor Starter



Tonasa	DL Generic (Single-DI)	DL Generic (Single-DI)	-	4/27/2011 5:54:29 AM	1/27/2012 10:35:45 AM	Customer	A2
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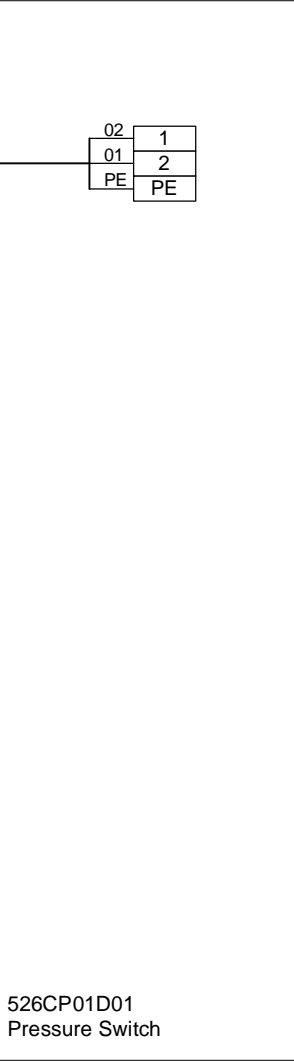


530LG01A07		524JB02X			
	Address	Position	Term:		
220 VAC		X06.02.A	12L		
Pressure Switch	526CP01D01P41	X06.02.A	12		

This drawing needs detailed information from Client on terminals to be connected.

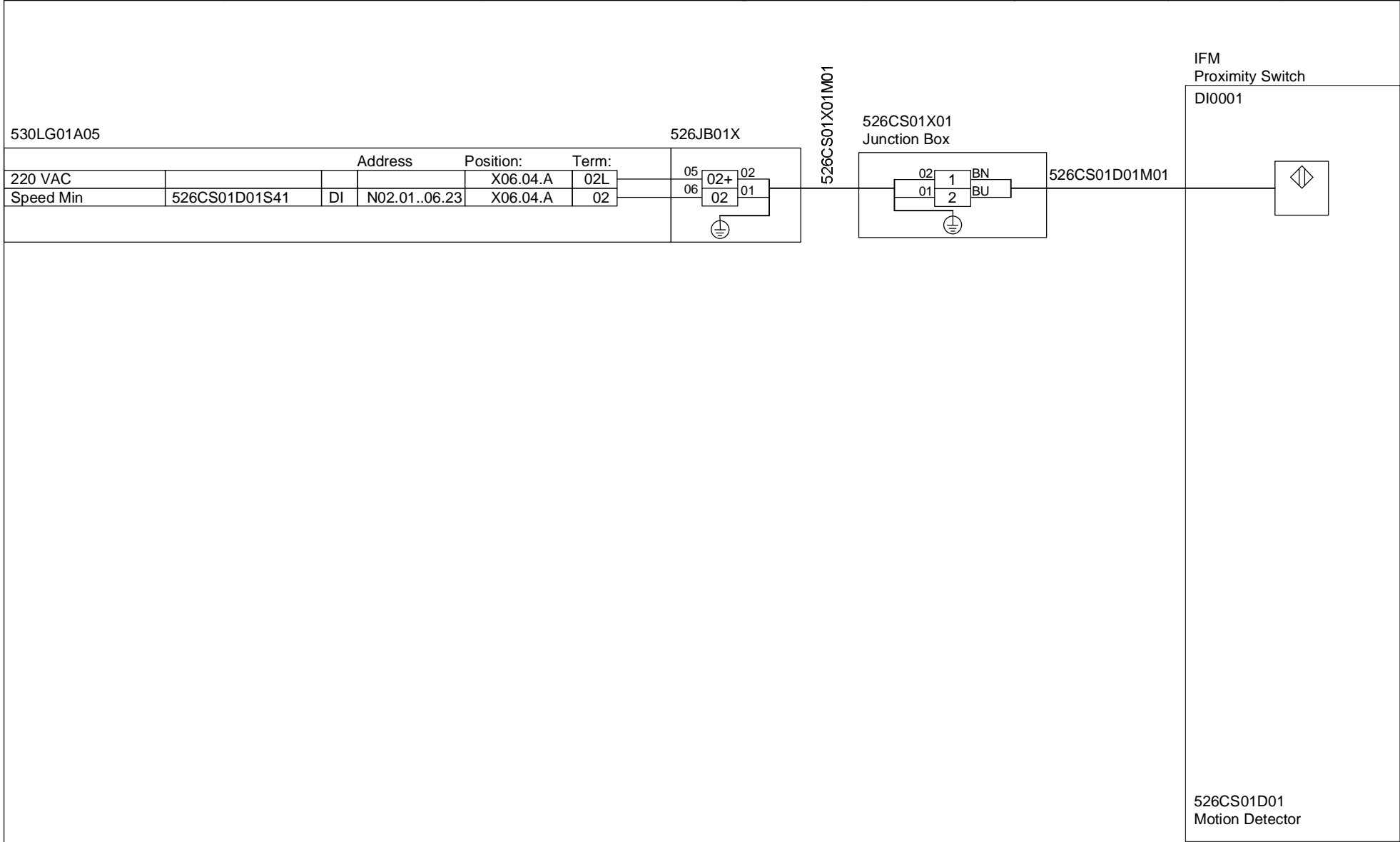
Terminals considered now are tentative

Customer Supply



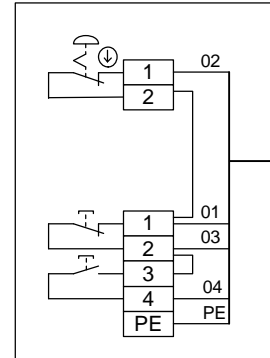
526CP01D01
Pressure Switch

	526CP01D01	Compressor Pressure Switch	80019896	01.001760
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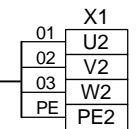
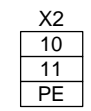
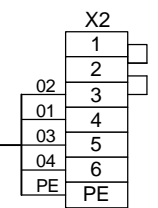


LVDB 582ER52AMC04

526CS01S01
Start/Stop/E-stop



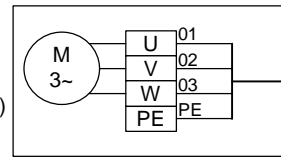
526CS01S01M01



526CS01M01W01

No of cables 1

526CS01M01
Motor
3 kW (Derated)
3 kW



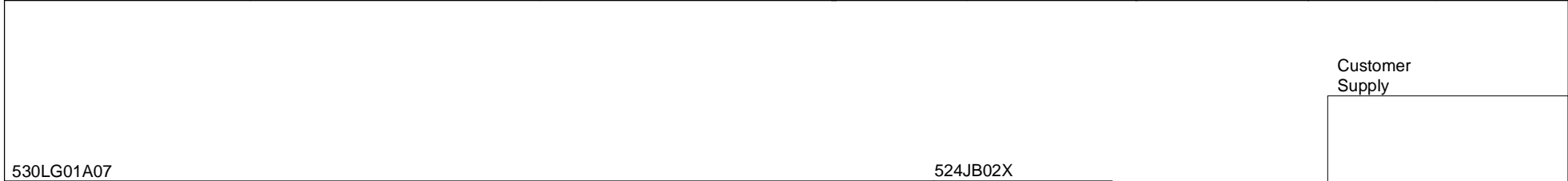
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.036
526CS01Q01
Motor Starter



526CS01M01 Spillage Conveyor Motor

80019896 01.001780

Tonasa	DL Generic (Single-DI)	DL Generic (Single-DI)	-	4/27/2011 5:56:34 AM	1/27/2012 10:35:46 AM	Customer	A2
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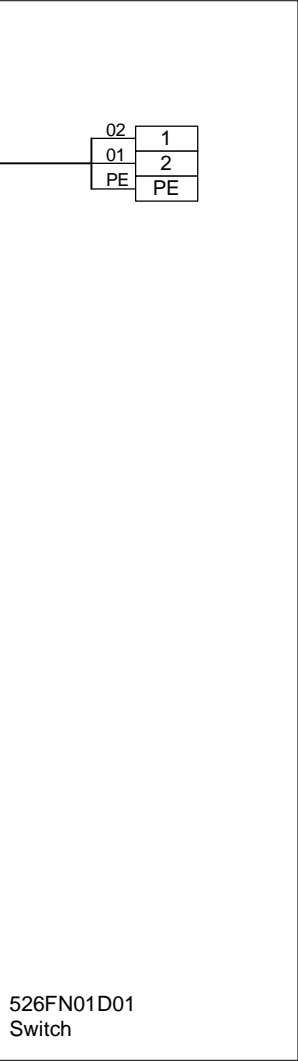


530LG01A07	Address	Position	Term:
220 VAC		X06.02.A	13L
Speed Min	526FN01D01X41	X06.02.A	13

This drawing needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

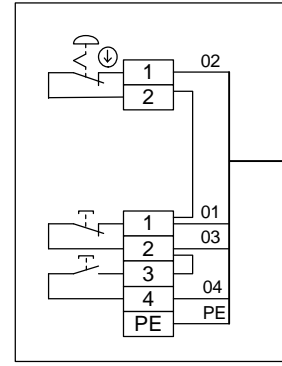
Customer Supply



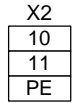
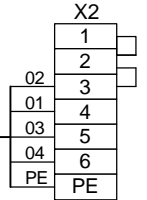
FLSMIDTH	526FN01D01	Filter Fan Switch	80019896	01.001790
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LVDB 582ER52AMC04

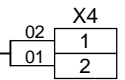
526FN01S01
Start/Stop/E-stop



526FN01S01M01

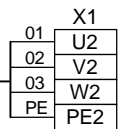


526FN01M01C01

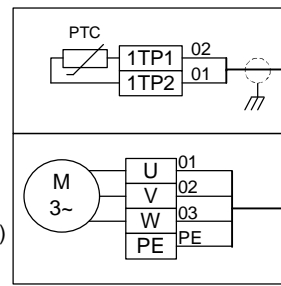


526FN01M01W01

No of cables 1



526FN01M01
Motor
14.5 kW (Derated)
15 kW



MCC Position:
Unit Type: B01 - TH
Net: 530LG01:DP5
Node: MCC/MDB 2.037
526FN01Q01
Motor Starter

	526FN01M01	Filter Fan Motor	80019896	01.001800
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Tonasa	NL Generic (Single-AI)	NL Generic (Single-AI)	-	4/28/2011 11:51:35 AM	1/27/2012 10:35:48 AM	Customer	A2
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530LG01A06

524JB01A

	Address	Position	Term:
+24 VDC		X05.01.A	11+
Temperature	526FN01N11T01	AI N02.01..05.06	X05.01.A 11

Customer
Supply

526FN01N11C01

This model needs detailed information from Client on terminals to be connected.
Terminals considered now are tentative

Range 0 - 130 °C

526FN01N11
Temperature



526FN01N11 Filter Fan Mot.Brg.A Temperature

80019896

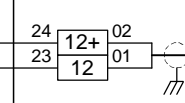
01.001810

Tonasa	NL Generic (Single-AI)	NL Generic (Single-AI)	-	4/28/2011 11:52:05 AM	1/27/2012 10:35:48 AM	Customer	A2
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530LG01A06

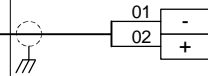
524JB01A

	Address	Position	Term:
+24 VDC		X05.01.A	12+
Temperature	526FN01N12T01	AI N02.01..05.08	X05.01.A 12



526FN01N12C01

Customer Supply



This model needs detailed information from Client on terminals to be connected.
Terminals considered now are tentative

Range 0 - 130 °C

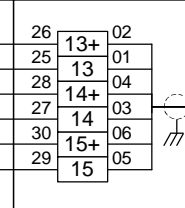
526FN01N12
Temperature

	526FN01N12	Filter Fan Mot.Brg.B Temperature	80019896	01.001820
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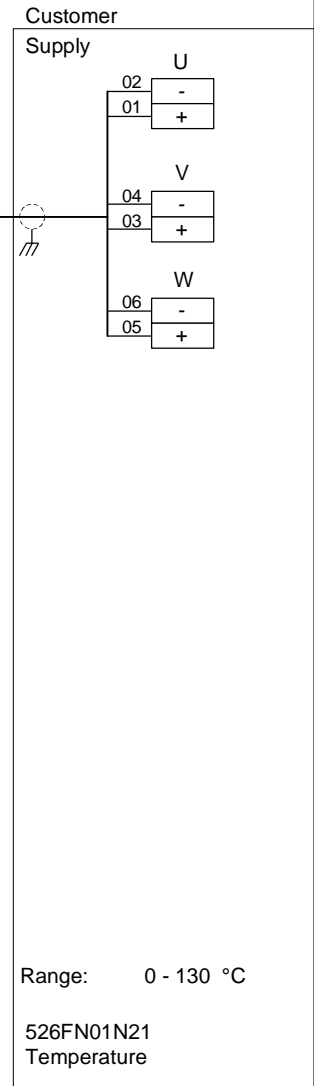
530LG01A06

524JB01A

	Address	Position	Term:
+24 VDC		X05.01.A	13+
Winding Temp. -U	526FN01N21T01	AI	N02.01..05.12
+24 VDC		X05.01.A	14+
Winding Temp. -V	526FN01N22T01	AI	N02.01..05.14
+24 VDC		X05.01.A	15+
Winding Temp. -W	526FN01N23T01	AI	N02.01..05.16



526FN01N21C01



This model needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

Range: 0 - 130 °C

526FN01N21
Temperature

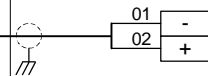
Tonasa	NL Generic (Single-AI)	NL Generic (Single-AI)	-	5/2/2011 9:09:30 AM	1/27/2012 10:35:50 AM	Customer	A2
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530LG01A06

	Address	Position	Term:
+24 VDC		X05.02.A	15+
Level	526HP01N01L01	AI N02.01..08.16	15

Customer
Supply

526HP01N01C01



This model needs detailed information from Client on terminals to be connected.
Terminals considered now are tentative

Range 0 - 100 %

526HP01N01
Level

	526HP01N01	Hopper Level	80019896	01.001840
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526JB01X
Junction Box

A	Signal:	Component:
03	526AF01D01S41	526AF01X01
02	220 VAC	526AF01X01
01		
01+		
01-		
06	526CS01D01S41	526CS01X01
05	220 VAC	526CS01X01
04		
02-		
09	526BC01D07Z41	526BC01D07
03	220 VAC	526BC01D07
03+		
07		
03-		
12	526BC01D07Z42	526BC01D07
04		
04+		
11		
10		
04-		
15	526BC01D13S41	526BC01D13
05	220 VAC	526BC01D13
14	0/220 VAC	526BC01D13
05+		
13		
05-		
18	526BC01D14Z41	526BC01X01
06	220 VAC	526BC01X01
17		
06+		
16		
06-		
21	526BC01D15Z41	526BC01X02
07	220 VAC	526BC01X02
20		
07+		
19		
07-		
24		
08	526BC02D10Z41	526BC02X01
23	220 VAC	526BC02X01
08+		
22		
08-		
27	526BC02D11Z41	526BC02X02
09	220 VAC	526BC02X02
26		
09+		
25		
09-		
30		
10		
29		
10+		
28		
10-		
33		
11		
32		
11+		
31		
11-		
36		
12		
35		
12+		
34		
12-		
39		
13		
38		
13+		
37		
13-		
42		
14		
41		
14+		
40		
14-		
45		
15		
44		
15+		
43		
15-		
48		
16		
47		
16+		
46		
16-		

530L G01A05
PLC IO-Cabinet ER-52A

Block	Term:	Component:
X06.04.A	01	
X06.04.A	01L	
X06.04.A	01N	
X06.04.A	02	
X06.04.A	02L	
X06.04.A	02N	
X06.04.A	03	
X06.04.A	03L	
X06.04.A	03N	
X06.04.A	04	
X06.04.A	04L	
X06.04.A	04N	
X06.04.A	05	
X06.04.A	05L	
X06.04.A	05N	
X06.04.A	06	
X06.04.A	06L	
X06.04.A	06N	
X06.04.A	07	
X06.04.A	07L	
X06.04.A	07N	
X06.04.A	08	
X06.04.A	08L	
X06.04.A	08N	
X06.04.A	09	
X06.04.A	09L	
X06.04.A	09N	
X06.04.A	10	
X06.04.A	10L	
X06.04.A	10N	
X06.04.A	11	
X06.04.A	11L	
X06.04.A	11N	
X06.04.A	12	
X06.04.A	12L	
X06.04.A	12N	
X06.04.A	13	
X06.04.A	13L	
X06.04.A	13N	
X06.04.A	14	
X06.04.A	14L	
X06.04.A	14N	
X06.04.A	15	
X06.04.A	15L	
X06.04.A	15N	
X06.04.A	16	
X06.04.A	16L	
X06.04.A	16N	

526JB01XM01

Location : Near 526BC01

Tonasa	Schade 526RE01/528RE01	Schade 526RE01/528RE01	-	12/6/2011 2:38:26 PM	1/27/2012 10:35:51 AM	Customer	A2
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Customer
Supply

LVDB 582ER52AMC04

X0	02
U2	03
V2	04
W2	01
N2	PE
PE2	

MCC Position:
Unit Type: B28
526RE01Q01 Power Feeder

526RE01Q01W01

No of cables 1

02	U1
03	V1
04	W1
01	N1
PE	PE1

526RE01A01
Cabinet

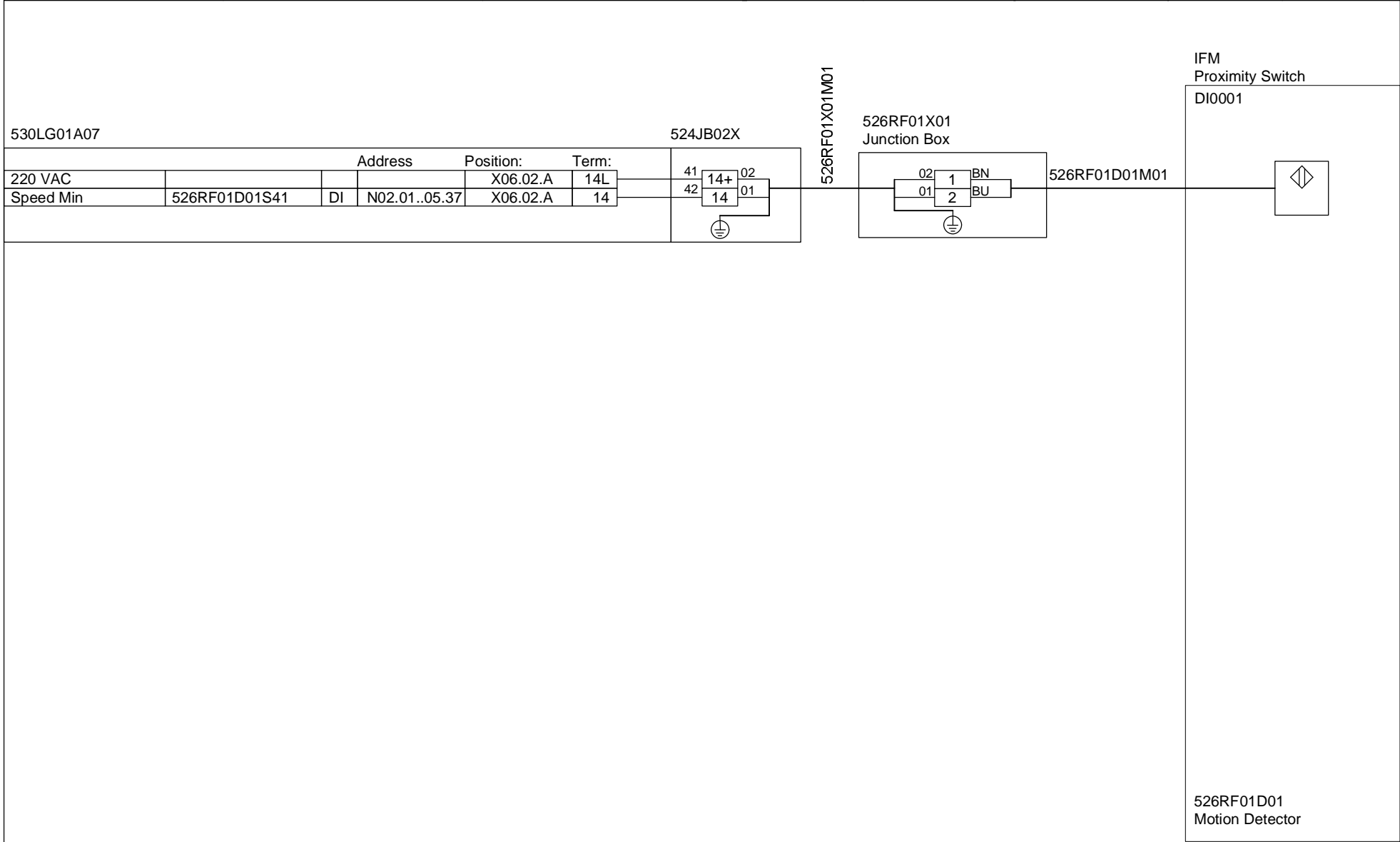


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Reclaimer
Cabinet

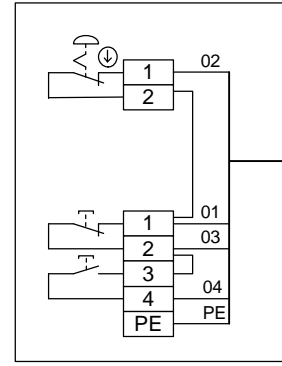
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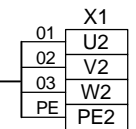
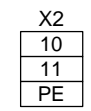
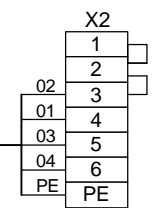


LVDB 582ER52AMC04

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Start/Stop/E-stop



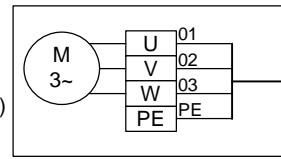
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526RF01M01W01

No of cables 1

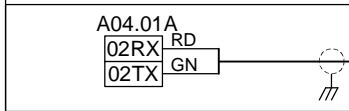
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Motor
0.37 kW (Derated)
0.37 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.038
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Motor Starter

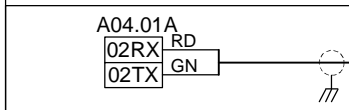
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 PLC-TS8205SIE1
 80016927

586CSC01A01
 Server Cabinet 1



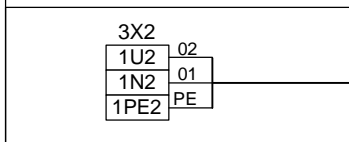
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 Server Cabinet 2



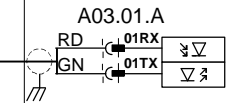
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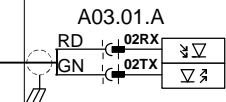


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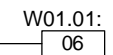
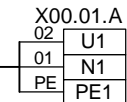
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530LG01A01
 PLC Cpu-Cabinet ER-54



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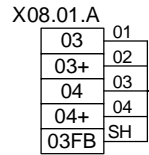
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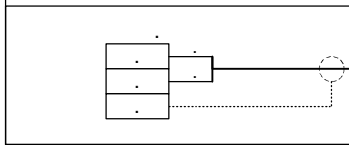
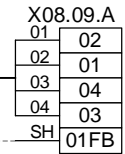
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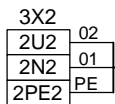
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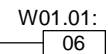
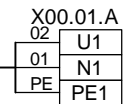


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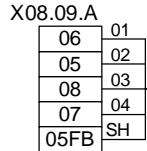
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530LG01A02

PLC IO-Cabinet ER-54

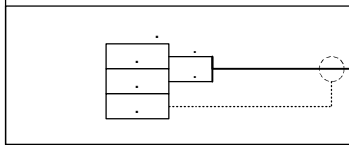
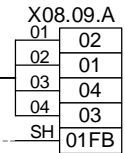
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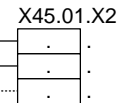
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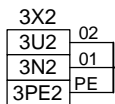
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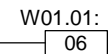
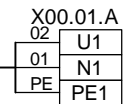


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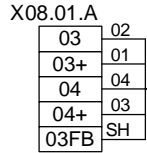


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PLC IO-Cabinet ER-54

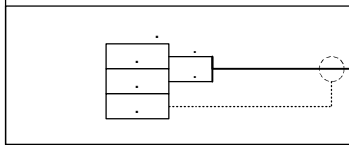
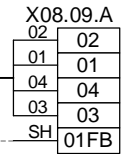
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 PLC IO-Cabinet ER-52A



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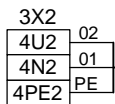
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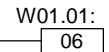
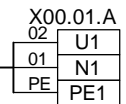


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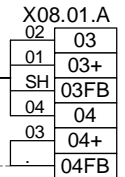
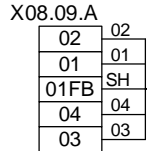
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530LG01A04
 PLC IO-Cabinet ER-52A

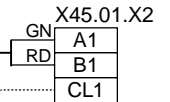
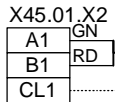
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 PLC IO-Cabinet ER-52A



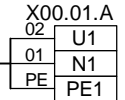
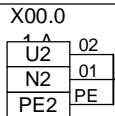
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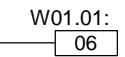


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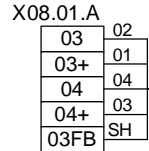
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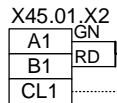
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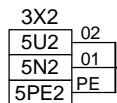


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PLC IO-Cabinet ER-53

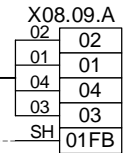


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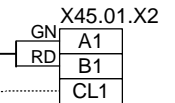


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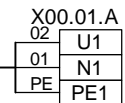
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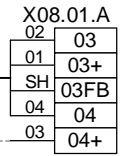
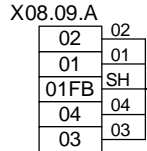


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PLC IO-Cabinet ER-53

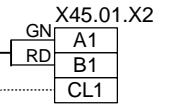
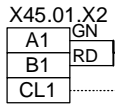
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PLC IO-Cabinet ER-53



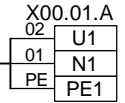
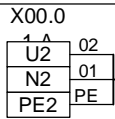
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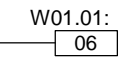


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PLC IO-Cabinet ER-53



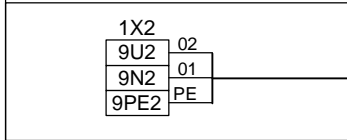
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Control System
PLC IO-Cabinet ER-53

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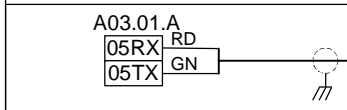
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PLC Cpu-Cabinet ER-54

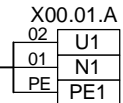


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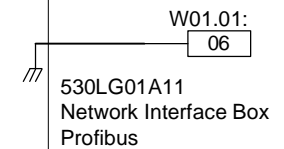
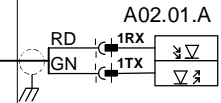
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Outgoing Electric Profibus	R10.01.	532HG01A01	Local Panel	80019896	01.003530

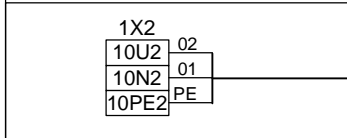
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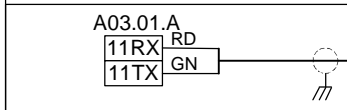


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530LG01A01
PLC Cpu-Cabinet ER-54

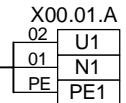


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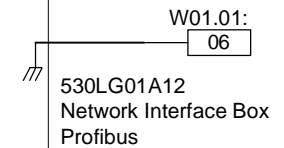
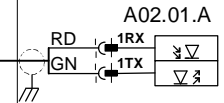
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Outgoing Electric Profibus	X41.01.A	582ER52ALV01Q02	Feeder	80019896	01.004630
Outgoing Electric Profibus	R10.01.

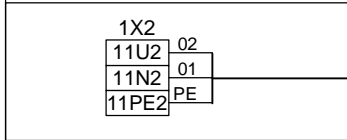
530LG01A12M01



530LG01A12Y01

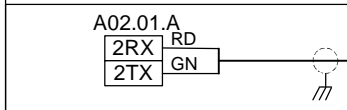


301UP110A03
Distribution



Document: 80019896
Page: 01.000290

530LG01A12
Network Interface Box Profibus

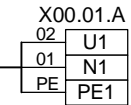


Doc: 80019896
Page: 01.001970

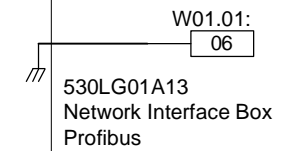
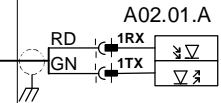
External Cable Connections

	Row	Unit Code	Description	Document	Page
Outgoing Fiber Profibus	A02.01.A	.	.	.	.
Outgoing Electric Profibus	X41.01.A	582ER53LV01Q02	Feeder	80019896	01.005090
Outgoing Electric Profibus	R10.01.	.	.	.	.

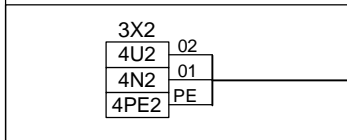
530LG01A13M01



530LG01A13Y01

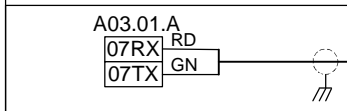


301UP110A03
Distribution



Document: 80019896
Page: 01.000290

530LG01A01
PLC Cpu-Cabinet ER-54

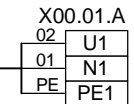


Doc: 80019896
Page: 01.001890

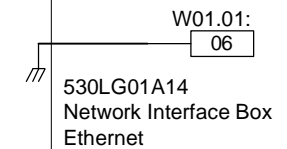
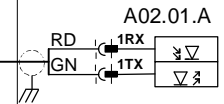
External Cable Connections

	Row	Unit Code	Description	Document	Page
Outgoing Fiber Profibus	A02.01.A	.	.	.	.
Outgoing Electric Ethernet	.	.	.	.	.

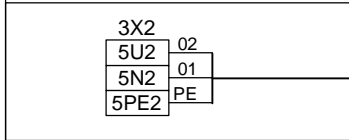
530LG01A14M01



530LG01A14Y01

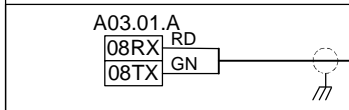


301UP110A03
Distribution



Document: 80019896
Page: 01.000290

530LG01A01
PLC Cpu-Cabinet ER-54

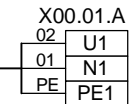


Doc: 80019896
Page: 01.001890

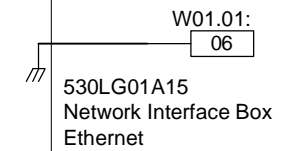
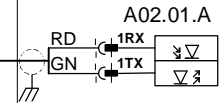
External Cable Connections

	Row	Unit Code	Description	Document	Page
Outgoing Fiber Profibus	A02.01.A	530LG01A16	Network Interface Box Ethernet	80019896	01.002010
Outgoing Electric Ethernet	.	.	.	.	.

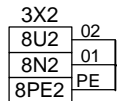
530LG01A15M01



530LG01A15Y01

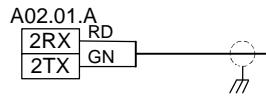


301UP110A03
Distribution



Document: 80019896
Page: 01.000290

530LG01A15
Network Interface Box Ethernet

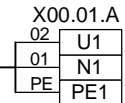


Doc: 80019896
Page: 01.002000

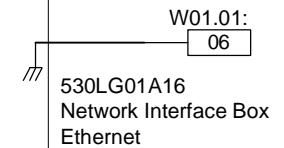
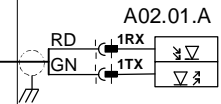
External Cable Connections

	Row	Unit Code	Description	Document	Page
Outgoing Fiber Profibus	A02.01.A	.	.	.	.
Outgoing Electric Ethernet	.	.	.	.	.

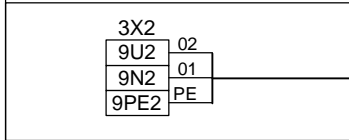
530LG01A16M01



530LG01A16Y01

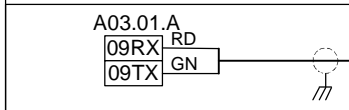


301UP110A03
Distribution



Document: 80019896
Page: 01.000290

530LG01A01
PLC Cpu-Cabinet ER-54

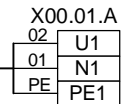


Doc: 80019896
Page: 01.001890

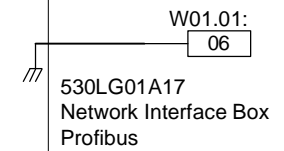
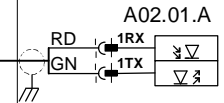
External Cable Connections

	Row	Unit Code	Description	Document	Page
Outgoing Fiber Profibus	A02.01.A	.	.	.	.
Outgoing Electric Profibus	X41.01.A	531WF05A01	Control Panel	80019896	01.002760
Outgoing Electric Profibus	R10.01.	531WF05A01	Control Panel	80019896	01.002760

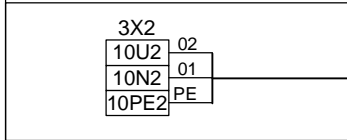
530LG01A17M01



530LG01A17Y01

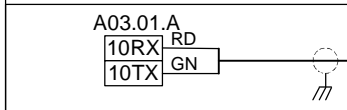


301UP110A03
Distribution



Document: 80019896
Page: 01.000290

530LG01A01
PLC Cpu-Cabinet ER-54

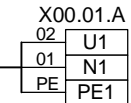


Doc: 80019896
Page: 01.001890

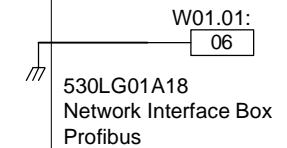
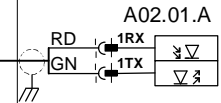
External Cable Connections

	Row	Unit Code	Description	Document	Page
Outgoing Fiber Profibus	A02.01.A	530LG01A19	Network Interface Box Profibus	80019896	01.002040
Outgoing Electric Profibus	X41.01.A	582ER53Q02	Power Feeder	80019896	01.005250
Outgoing Electric Profibus	R10.01.	524RE01Q01	Power Feeder	80019896	01.001220

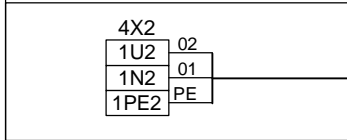
530LG01A18M01



530LG01A18Y01

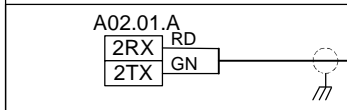


301UP110A03
Distribution



Document: 80019896
Page: 01.000290

530LG01A18
Network Interface Box Profibus

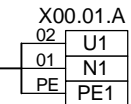


Doc: 80019896
Page: 01.002030

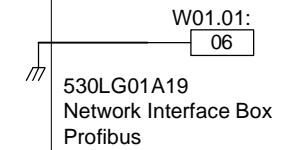
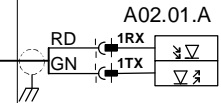
External Cable Connections

	Row	Unit Code	Description	Document	Page
Outgoing Fiber Profibus	A02.01.A	530LG01A20	Network Interface Box Profibus	80019896	01.002050
Outgoing Electric Profibus	X41.01.A	582ER52AQ02	Power Feeder	80019896	01.004990
Outgoing Electric Profibus	R10.01.	526AF01U01	Frequency Converter	80019896	01.001570

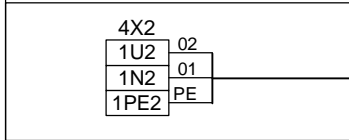
530LG01A19M01



530LG01A19Y01

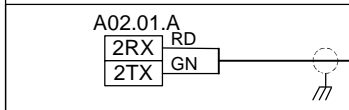


301UP110A03
Distribution



Document: 80019896
Page: 01.000290

530LG01A19
Network Interface Box Profibus

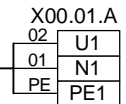


Doc: 80019896
Page: 01.002040

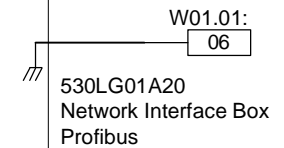
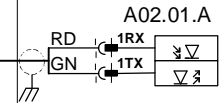
External Cable Connections

	Row	Unit Code	Description	Document	Page
Outgoing Fiber Profibus	A02.01.A	.	.	.	.
Outgoing Electric Profibus	X41.01.A	522AF01U01	Frequency Converter	80019896	01.000350
Outgoing Electric Profibus	R10.01.	522CR01U01	Frequency Converter	80019896	01.000710

530LG01A20M01



530LG01A20Y01



Tonasa	S Emergency Stop (process)	S Emergency Stop (process)	-	5/5/2010 8:26:21 AM	1/27/2012 10:36:05 AM	Customer	A2
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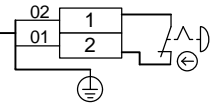
530LG01A01

	Address	Position:	Term:
220 VAC		X04.01.A	01L ⁰²
Emergency Stop	530LG01S01S71	DI N01.01..09.19	01 ⁰¹

⊕

530LG01S01M01

Customer
Supply
Dept. Emergency Stop



530LG01S01
Near Weigh Feeders



530LG01S01

Dept. Emergency Stop
Near Weigh Feeders

80019896

01.002060

Tonasa	S Emergency Stop (process)	S Emergency Stop (process)	-	5/5/2010 8:26:34 AM	1/27/2012 10:36:06 AM	Customer	A2
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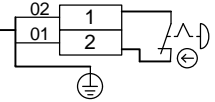
530LG01A01

		Address	Position:	Term:	
220 VAC			X04.01.A	02L	02
Emergency Stop	530LG01S02S71	DI	N01.01..09.20	X04.01.A	02
					01



530LG01S02M01

Customer
Supply
Dept. Emergency Stop



530LG01S02
In CCR



530LG01S02

Dept. Emergency Stop
In CCR

80019896

01.002070

Tonasa	S Emergency Stop (process)	S Emergency Stop (process)	-	5/5/2010 8:26:47 AM	1/27/2012 10:36:07 AM	Customer	A2
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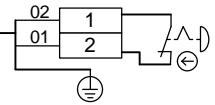
530LG01A01

		Address	Position:	Term:
220 VAC			X04.01.A	03L ⁰²
Emergency Stop	530LG01S03S71	DI	X04.01.A	03 ⁰¹

⊕

530LG01S03M01

Customer
Supply
Dept. Emergency Stop



530LG01S03
Near 532MD01



530LG01S03

Dept. Emergency Stop
Near 532MD01

80019896

01.002080

Tonasa	S Emergency Stop (process)	S Emergency Stop (process)	-	5/5/2010 8:27:04 AM	1/27/2012 10:36:08 AM	Customer	A2
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530LG01A01

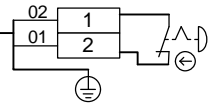
		Address	Position:	Term:	
220 VAC			X04.01.A	04L	02
Emergency Stop	530LG01S04S71	DI	N01.01..09.22	X04.01.A	04
					01

⊕

530LG01S04M01

Customer
Supply

Dept. Emergency Stop



530LG01S04
Near 532MD02



530LG01S04

Dept. Emergency Stop
Near 532MD02

80019896

01.002090

Tonasa	S Emergency Stop (process)	S Emergency Stop (process)	-	5/5/2010 8:27:30 AM	1/27/2012 10:36:08 AM	Customer	A2
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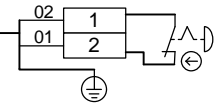
530LG01A01

		Address	Position:	Term:	
220 VAC			X04.01.A	05L	02
Emergency Stop	530LG01S05S71	DI	N01.01..09.27	05	01

⊕

530LG01S05M01

Customer
Supply
Dept. Emergency Stop



530LG01S05
Near 532FN01

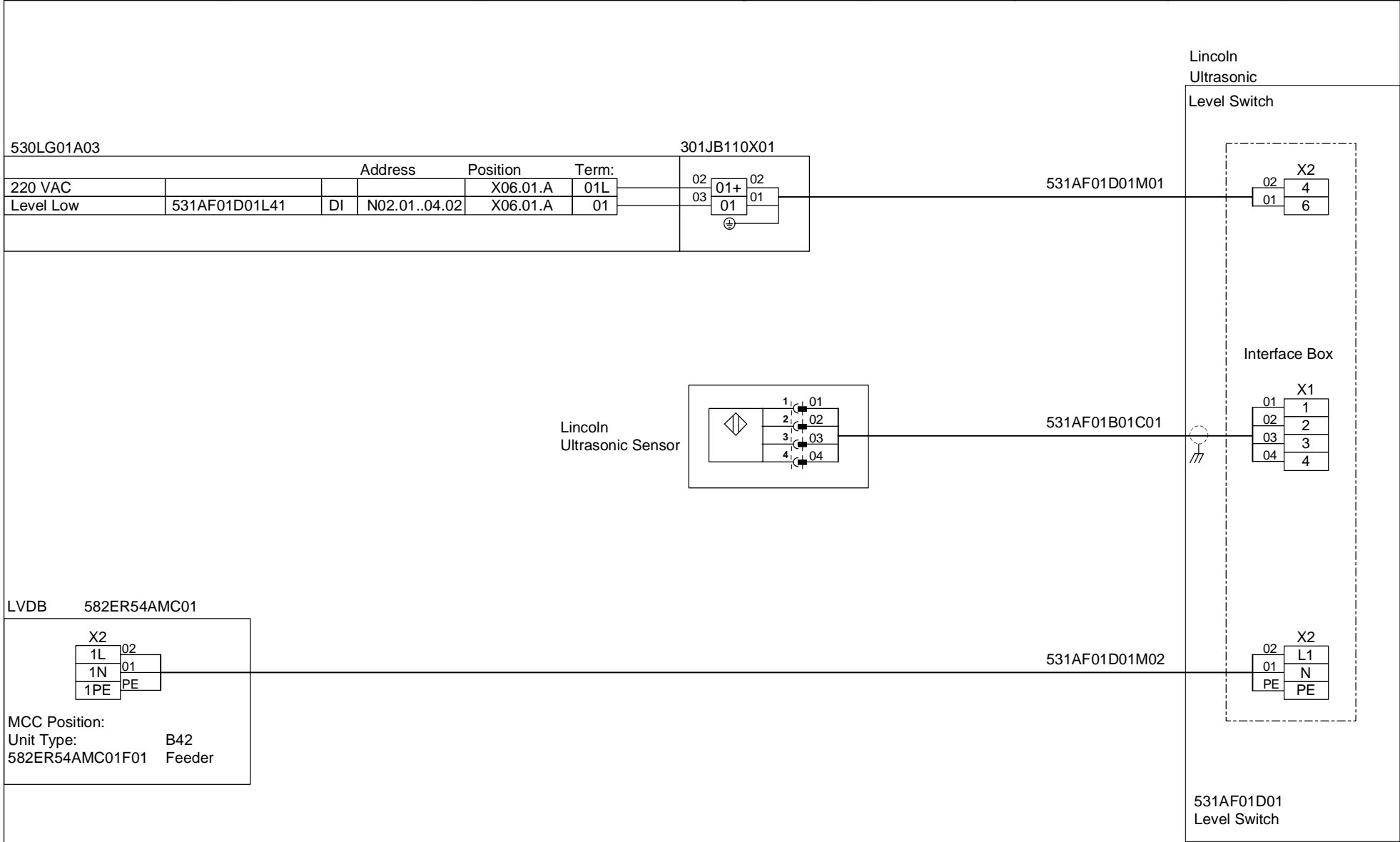


530LG01S05

Dept. Emergency Stop
Near 532FN01

80019896

01.002100



Tonasa	DP Barksdale B1T- H32SS	ABB MV Motor Pres. Switch	-	4/6/2010 9:31:43 AM	1/27/2012 10:36:10 AM	Customer	A2
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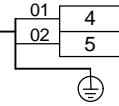
530LG01A03

301JB110X01

	Address	Position:	Term:
220 VAC		X06.01.A	02L
Diff Pressure	531AF01D02P41	N02.01..04.03	X06.01.A 02

531AF01D02M01

Barksdale
BIT-H32SS



531AF01D02
Pressure Switch



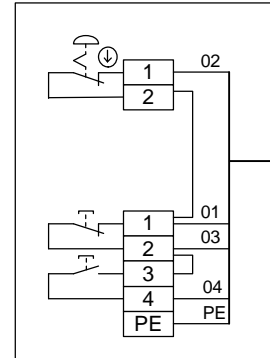
531AF01D02 Apron Feeder Lub.Sys.Oil
Pressure Switch

80019896

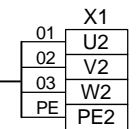
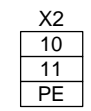
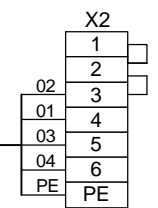
01.002120

LVDB 582ER54AMC11

531AF01S03
Start/Stop/E-stop



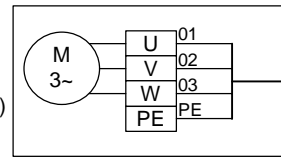
531AF01S03M01



531AF01M03W01

No of cables 1

531AF01M03
Motor
0.37 kW (Derated)
0.37 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.084
531AF01Q03
Motor Starter

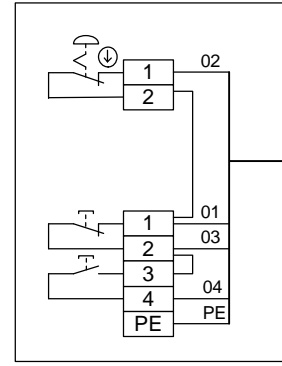


531AF01M03 AF Cooling Fan-1 Motor

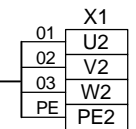
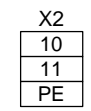
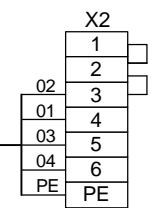
80019896 01.002130

LVDB 582ER54AMC11

531AF01S04
Start/Stop/E-stop



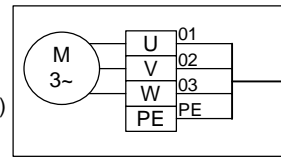
531AF01S04M01



531AF01M04W01

No of cables 1

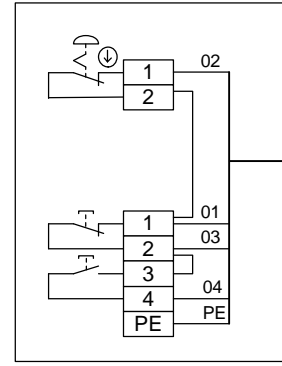
531AF01M04
Motor
0.37 kW (Derated)
0.37 kW



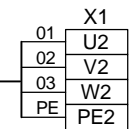
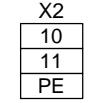
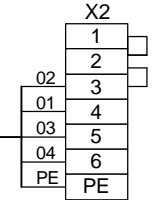
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.085
531AF01Q04
Motor Starter

LVDB 582ER54AMC11

531AF01S05
Start/Stop/E-stop



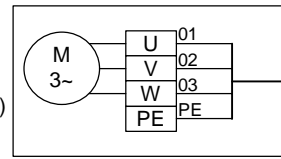
531AF01S05M01



531AF01M05W01

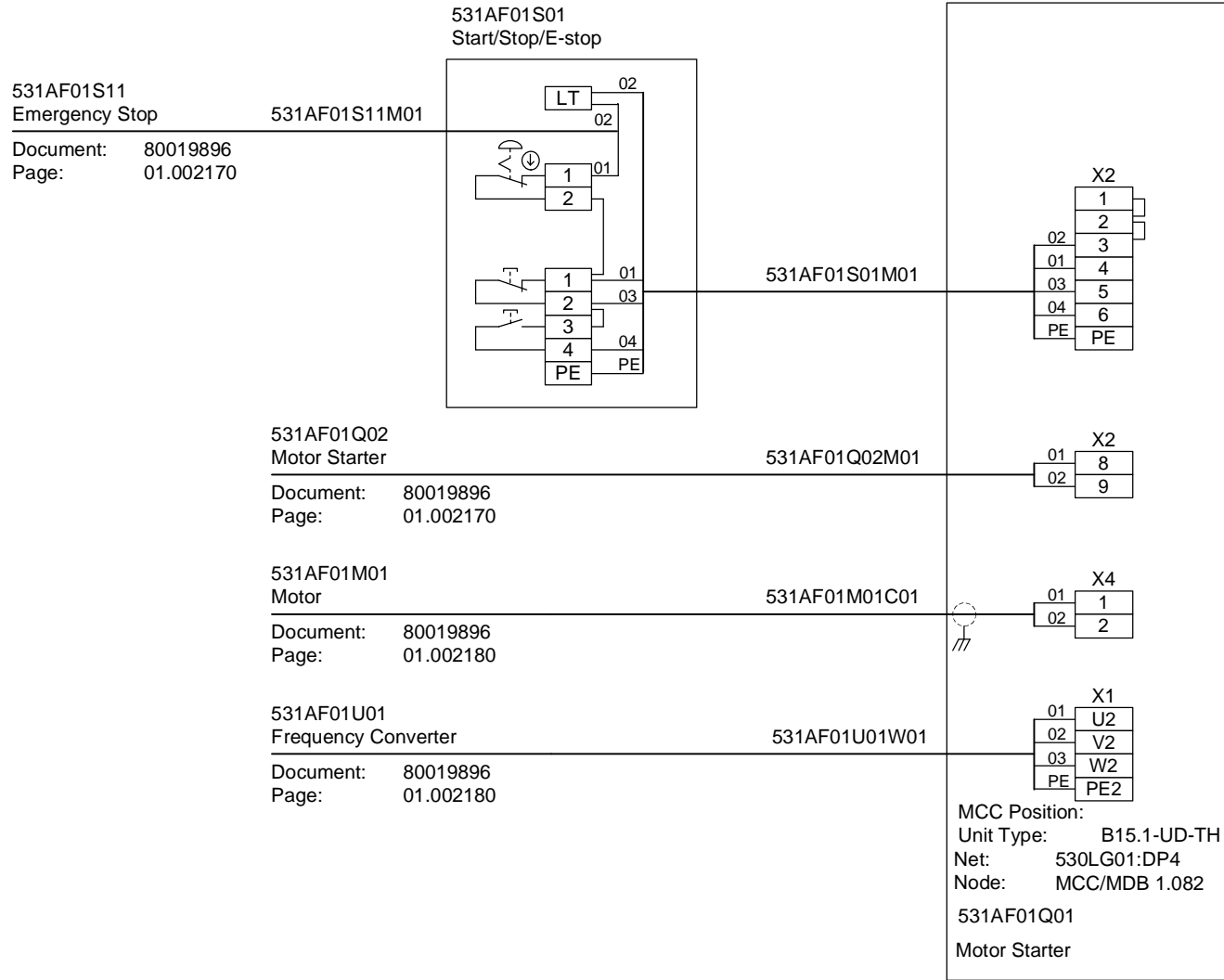
No of cables 1

531AF01M05
Motor
0.18 kW (Derated)
0.18 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.086
531AF01Q05
Motor Starter

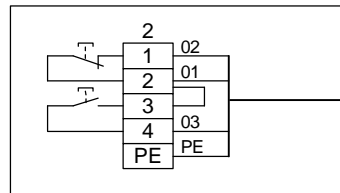
LVDB 582ER54AMC11



531AF01Q01
Motor Starter

Document: 80019896
Page: 01.002160

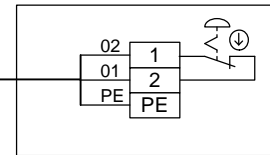
531AF01S02
Start / Stop



531AF01S01
Start/Stop/E-stop

Document: 80019896
Page: 01.002160

531AF01S11M01

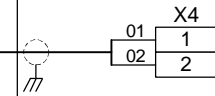


531AF01S11
Emergency Stop

531AF01M02
Motor

Document: 80019896
Page: 01.002200

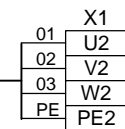
531AF01M02C01



531AF01U02
Frequency Converter

Document: 80019896
Page: 01.002200

531AF01U02W01

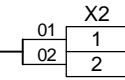


MCC Position:
Unit Type: B15.1-UD-TH
Net: 530LG01:DP4
Node: MCC/MDB 1.083

531AF01Q02
Motor Starter

LVDB 582ER54AMC11

531AF01Q02M01



531AF01S02M01

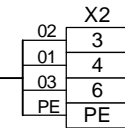
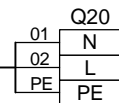


ABB
Frequency Drive
ACS800-04-0025-3

301UP110A03
Distribution

531AF01U01M01

Document: 80019896
Page: 01.000290



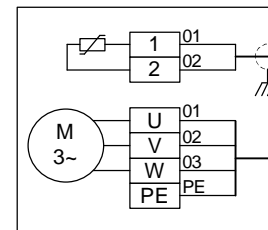
531AF01Q01
Motor Starter

531AF01M01C01

Doc: 80019896
Page: 01.002160

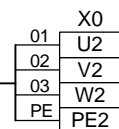


531AF01M01
Motor
18.5 kW



531AF01M01W01

No of cables 1

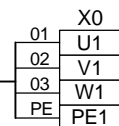


531AF01Q01
Motor Starter

531AF01U01W01

Document: 80019896
Page: 01.002160

No of cables 1

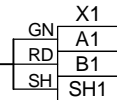


Net: 530LG01:DP3
Node: Field Device.011
531AF01U01
Frequency Converter

ABB
Frequency Drive
ACS800-04-0025-3

582ER54BLV01Q01
Power Feeder

531AF01U01Y01

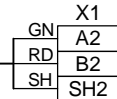


To
Previous
DP

Document: 80019896
Page: 01.005770

531AF01U02
Frequency Converter

531AF01U02Y01

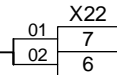


From
Next
DP

Document: 80019896
Page: 01.002200

531AF01U02
Frequency Converter

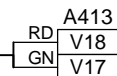
531AF01U02C01



Document: 80019896
Page: 01.002200

531AF01U02
Frequency Converter

531AF01U02Y02



Document: 80019896
Page: 01.002200

531AF01U01
Frequency Converter



531AF01U01

Apron Feeder
Frequency Converter

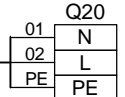
80019896

01.002190

ABB
Frequency Drive
ACS800-04-0025-3

301UP110A03
Distribution
Document: 80019896
Page: 01.000270

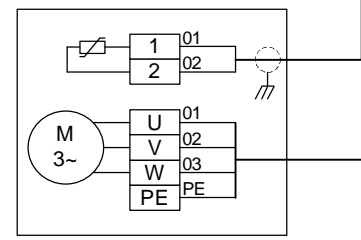
531AF01U02M01



531AF01Q02
Motor Starter
Doc: 80019896
Page: 01.002170

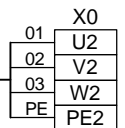
531AF01M02C01

531AF01M02
Motor
18.5 kW



531AF01M02W01

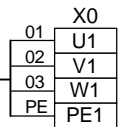
No of cables 1



531AF01Q02
Motor Starter
Document: 80019896
Page: 01.002170

531AF01U02W01

No of cables 1



Net: 530LG01:DP3
Node: Field Device.012
531AF01U02
Frequency Converter

ABB
Frequency Drive
ACS800-04-0025-3

531AF01U01 Frequency Converter	531AF01U02Y01	GN RD SH	X1 A1 B1 SH1	To Previous DP
Document: 80019896 Page: 01.002180				

531AF02U01 Frequency Converter	531AF02U01Y01	GN RD SH	X1 A2 B2 SH2	From Next DP
Document: 80019896 Page: 01.002240				

531AF01U01 Frequency Converter	531AF01U02C01	01 02	X27 2 3	
Document: 80019896 Page: 01.002180				

531AF01U01 Frequency Converter	531AF01U02Y02	RD GN	A413 V17 V18	
Document: 80019896 Page: 01.002180				

531AF01U02
Frequency Converter



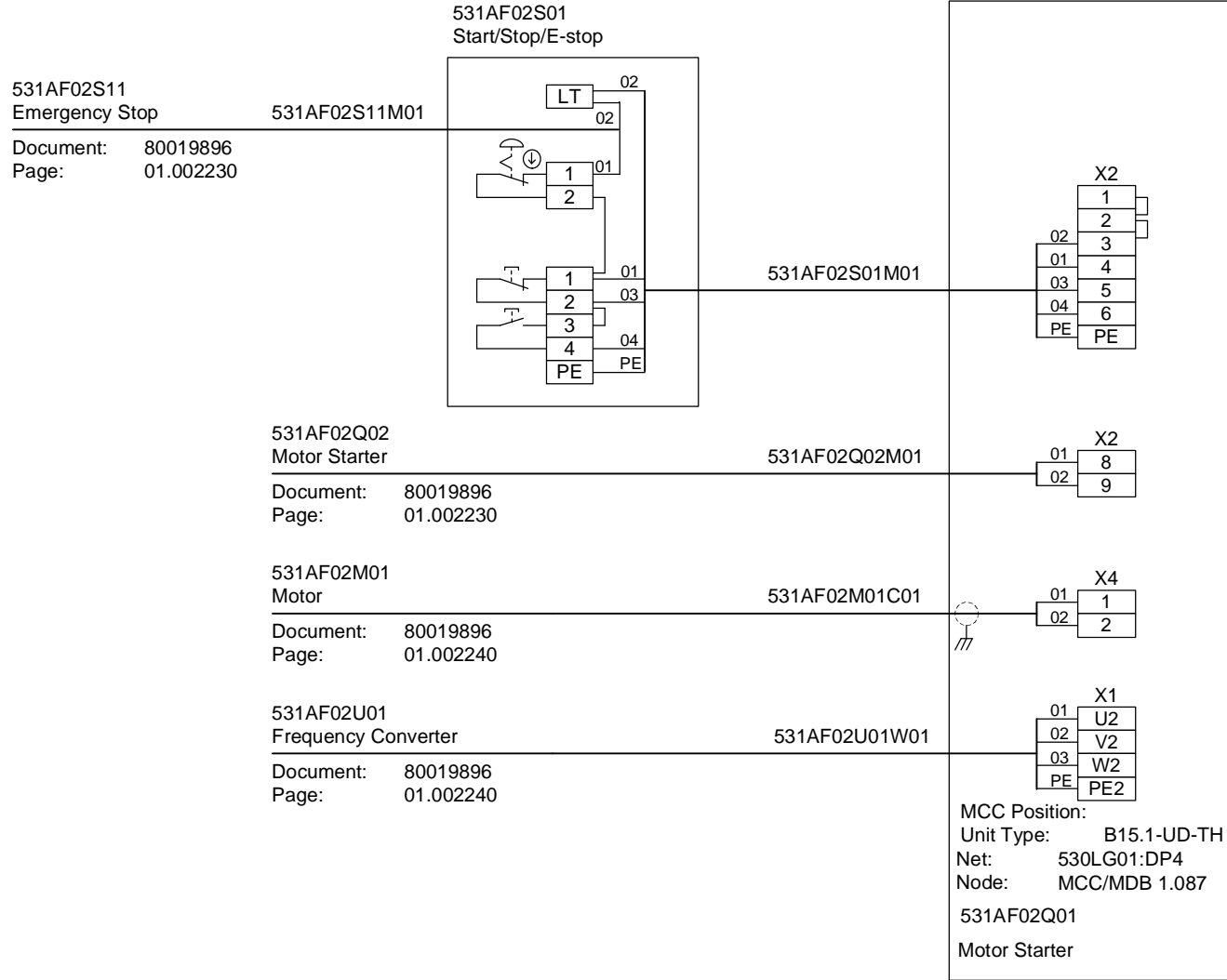
531AF01U02

Apron Feeder
Frequency Converter

80019896

01.002210

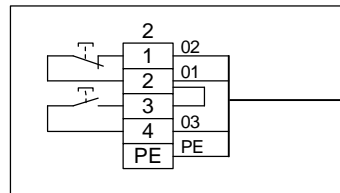
LVDB 582ER54AMC11



531AF02Q01
Motor Starter

Document: 80019896
Page: 01.002220

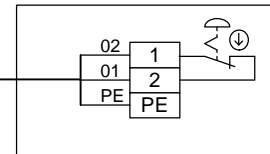
531AF02S02
Start / Stop



531AF02S01
Start/Stop/E-stop

Document: 80019896
Page: 01.002220

531AF02S11M01



531AF02S11
Emergency Stop

531AF02M02
Motor

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Page: 01.002260

531AF02U02
Frequency Converter

Document: 80019896
Page: 01.002260

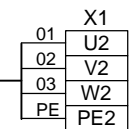
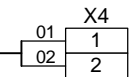
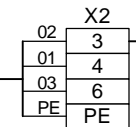
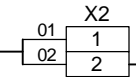
531AF02Q02M01

531AF02S02M01

531AF02M02C01

531AF02U02W01

LVDB 582ER54AMC11



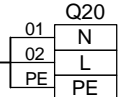
MCC Position:
Unit Type: B15.1-UD-TH
Net: 530LG01:DP4
Node: MCC/MDB 1.088

531AF02Q02
Motor Starter

ABB
Frequency Drive
ACS800-04-0011-3

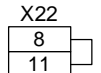
301UP110A03
Distribution
Document: 80019896
Page: 01.000290

531AF02U01M01

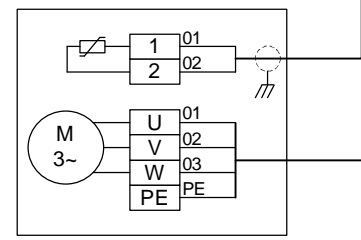


531AF02Q01
Motor Starter
Doc: 80019896
Page: 01.002220

531AF02M01C01

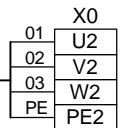


531AF02M01
Motor
5.8 kW



531AF02M01W01

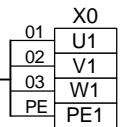
No of cables 1



531AF02Q01
Motor Starter
Document: 80019896
Page: 01.002220

531AF02U01W01

No of cables 1



Net: 530LG01:DP3
Node: Field Device.013
531AF02U01
Frequency Converter

ABB
Frequency Drive
ACS800-04-0011-3

531AF01U02
Frequency Converter 531AF02U01Y01

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Page: 01.002200

GN X1
RD A1 To
SH B1 Previous
SH1 DP

531AF02U02
Frequency Converter 531AF02U02Y01

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GN X1
RD A2 From
SH B2 Next
SH2 DP

531AF02U02
Frequency Converter 531AF02U02C01

Document: 80019896
Page: 01.002260

01 X22
02 7
6

531AF02U02
Frequency Converter 531AF02U02Y02

Document: 80019896
Page: 01.002260

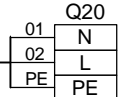
RD A413
GN V18
V17

531AF02U01
Frequency Converter

ABB
Frequency Drive
ACS800-04-0011-3

301UP110A03
Distribution
Document: 80019896
Page: 01.000270

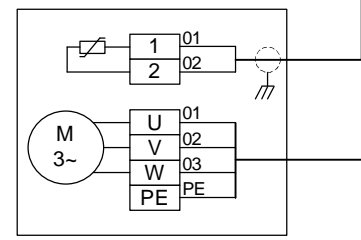
531AF02U02M01



531AF02Q02
Motor Starter
Doc: 80019896
Page: 01.002230

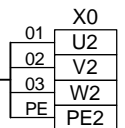
531AF02M02C01

531AF02M02
Motor
5.8 kW



531AF02M02W01

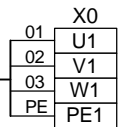
No of cables 1



531AF02Q02
Motor Starter
Document: 80019896
Page: 01.002230

531AF02U02W01

No of cables 1



Net: 530LG01:DP3
Node: Field Device.014
531AF02U02
Frequency Converter

ABB
Frequency Drive
ACS800-04-0011-3

531AF02U01
Frequency Converter 531AF02U02Y01

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Page: 01.002240

GN	X1	To Previous DP
RD	A1	
SH	B1	
	SH1	

531BC02U01
Frequency Converter 531BC02U01Y01

Document: 80019896
Page: 01.002370

GN	X1	From Next DP
RD	A2	
SH	B2	
	SH2	

531AF02U01
Frequency Converter 531AF02U02C01

Document: 80019896
Page: 01.002240

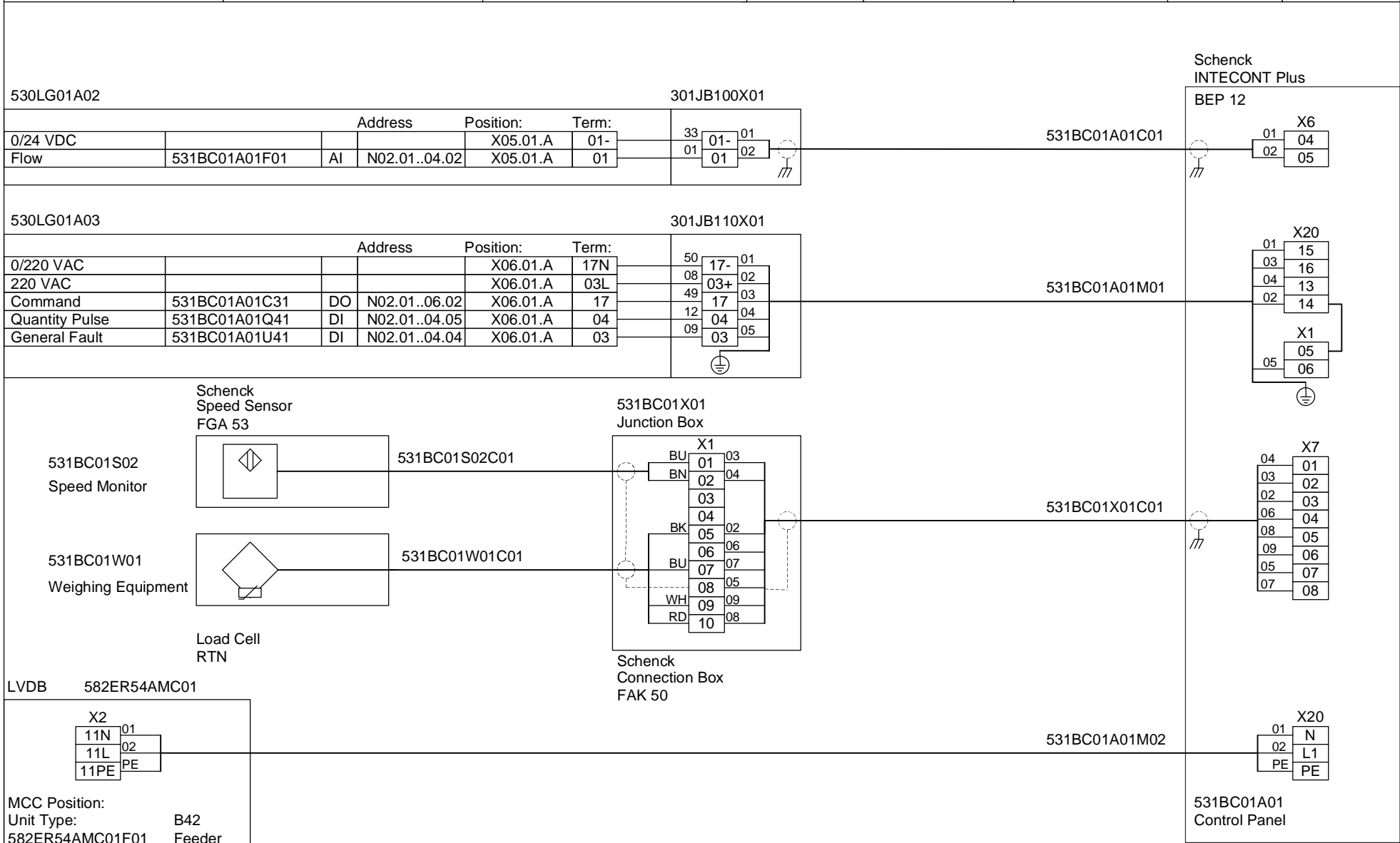
01	X27
02	2
	3

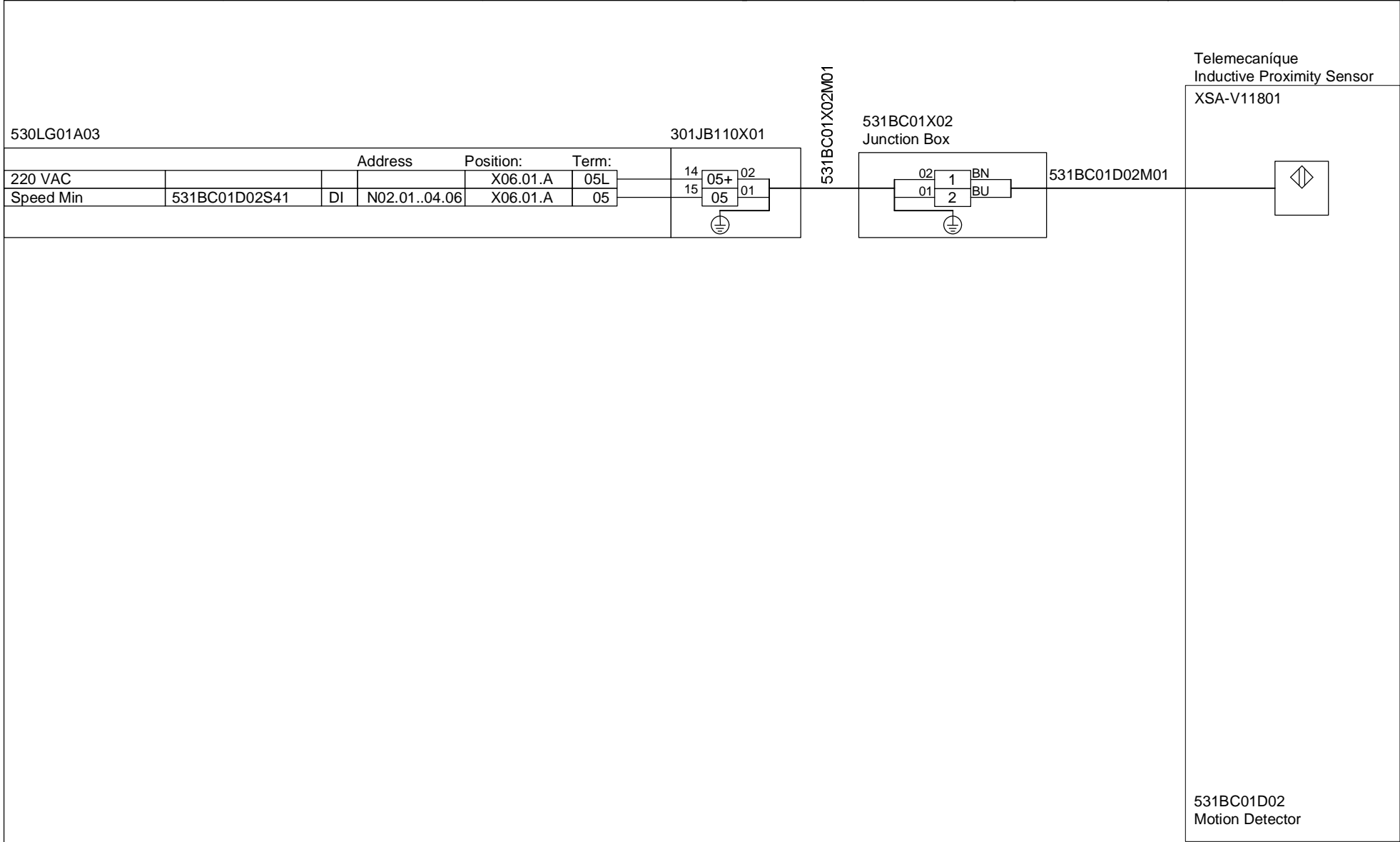
531AF02U01
Frequency Converter 531AF02U02Y02

Document: 80019896
Page: 01.002240

RD	A413
GN	V17
	V18

531AF02U02
Frequency Converter

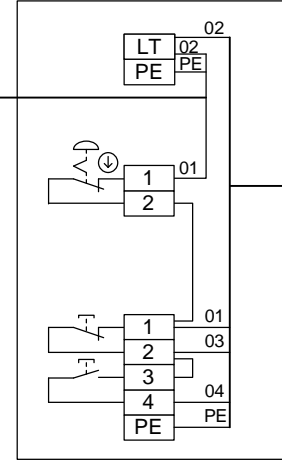




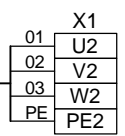
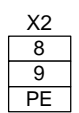
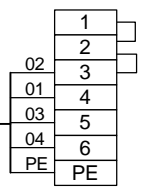
LVDB 582ER54AMC01

531BC01S01
Start/Stop/E-stop

531BC01S21
Pull Rope Switch
531BC01S21M01
Document: 80019896
Page: 01.002310

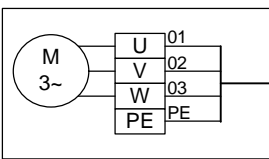


531BC01S01M01



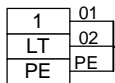
531BC01M01W01
No of cables 1

531BC01M01
Motor
5.5 kW (Derated)
5.5 kW

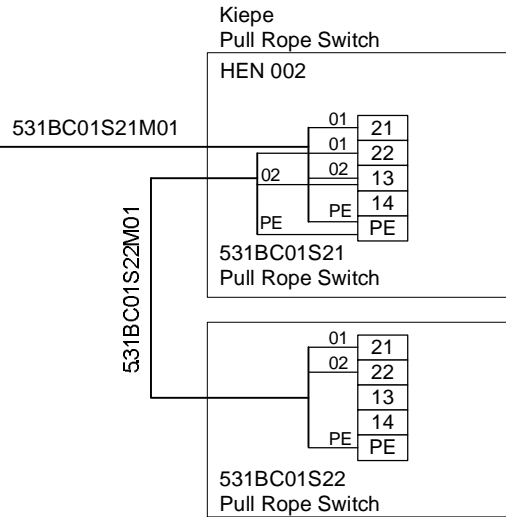


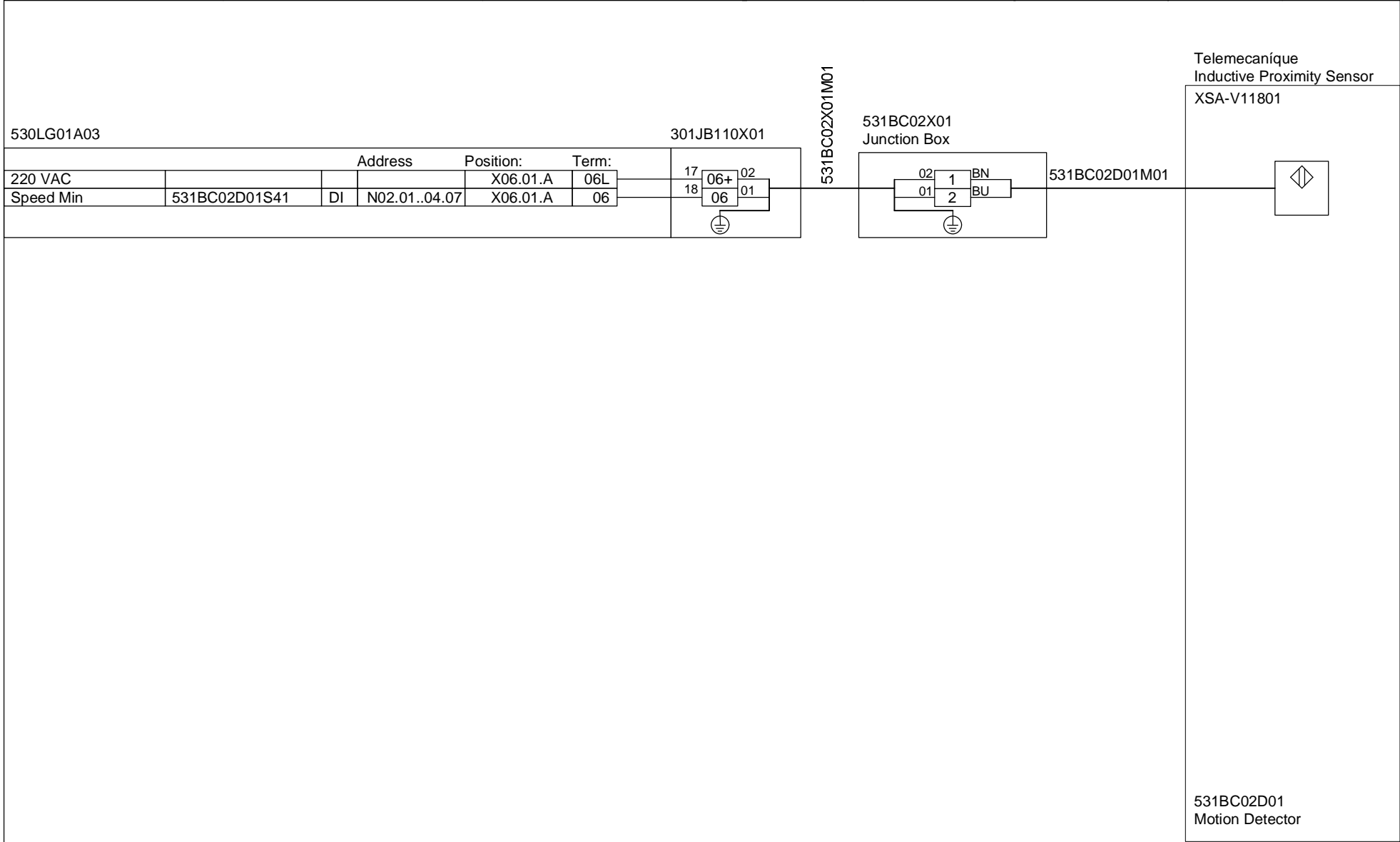
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.011
531BC01Q01
Motor Starter

531BC01S01
Start/Stop/E-stop



Document: 80019896
Page: 01.002300





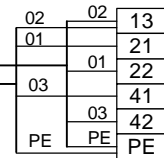
530LG01A03

301JB110X01

	Address	Position:	Term:	
220 VAC		X06.01.A	07L	20
Sway Max 1	531BC02D02Z41	DI N02.01..04.08	X06.01.A	07
Sway Max 2	531BC02D02Z42	DI N02.01..04.09	X06.01.A	08

Kiepe
Belt Drift Switch

VG 133/6



531BC02D02M01

531BC02D03M01

531BC02D04M01

531BC02D05M01

531BC02D02
Sway Detector

531BC02D03
Sway Detector

531BC02D04
Sway Detector

531BC02D05
Sway Detector



531BC02D02

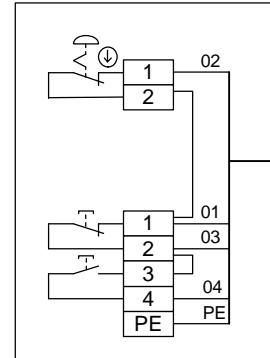
Belt Conveyor
Sway Detector

80019896

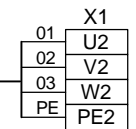
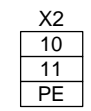
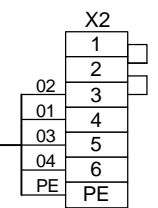
01.002330

LVDB 582ER54AMC01

531BC02S02
Start/Stop/E-stop



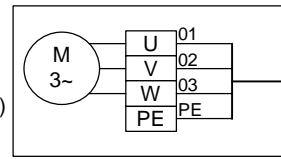
531BC02S02M01



531BC02M02W01

No of cables 1

531BC02M02
Motor
0.16 kW (Derated)
0.16 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.013
531BC02Q02
Motor Starter

MCC 582ER54AMC01

531BC02S21
Pull Rope Switch 531BC02S21M01

Document: 80019896
Page: 01.002360

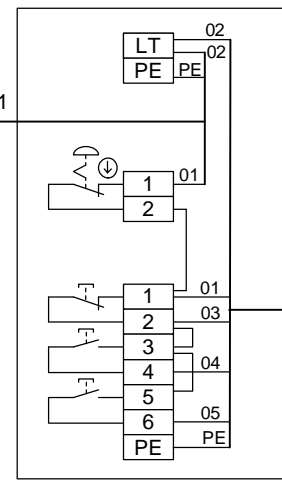
531BC02S01
Start/Stop/E-stop

531BC02M01
Motor

Document: 80019896
Page: 01.002350

531BC02U01
Frequency Converter

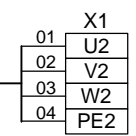
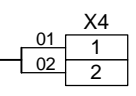
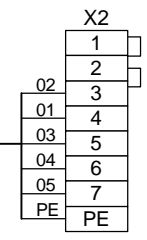
Document: 80019896
Page: 01.002370



531BC02S01M01

531BC02M01C01

531BC02U01W01



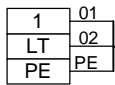
MCC/MDB position
Unit Type B15.1 - TH
Net: 530LG01:DP4
Node: MCC/MDB 1.012
531BC02Q01 Motor Starter



531BC02Q01 Belt Conveyor Motor Starter

80019896 01.002350

531BC02S01
Start/Stop/E-stop



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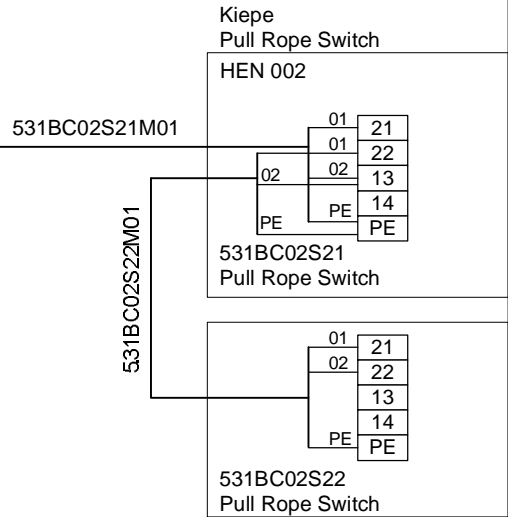
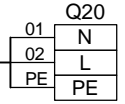


ABB
Frequency Drive
ACS800-04-0030-3

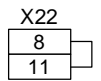
301UP110A03
Distribution
Document: 80019896
Page: 01.000270

531BC02U01M01

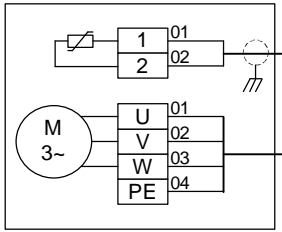


531BC02Q01
Motor Starter
Doc: 80019896
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531BC02M01C01

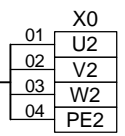


531BC02M01
Motor
20 kW



531BC02M01W01

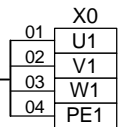
No of cables 1



531BC02Q01
Motor Starter
Document: 80019896
Page: 01.002350

531BC02U01W01

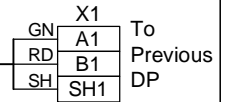
No of cables 1



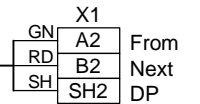
Net: 530LG01:DP3
Node: Field Device.015
531BC02U01
Frequency Converter

ABB
Frequency Drive
ACS800-04-0030-3

531AF02U02
Frequency Converter 531BC02U01Y01
Document: 80019896
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531BC03U01
Frequency Converter 531BC03U01Y01
Document: 80019896
Page: 01.002430



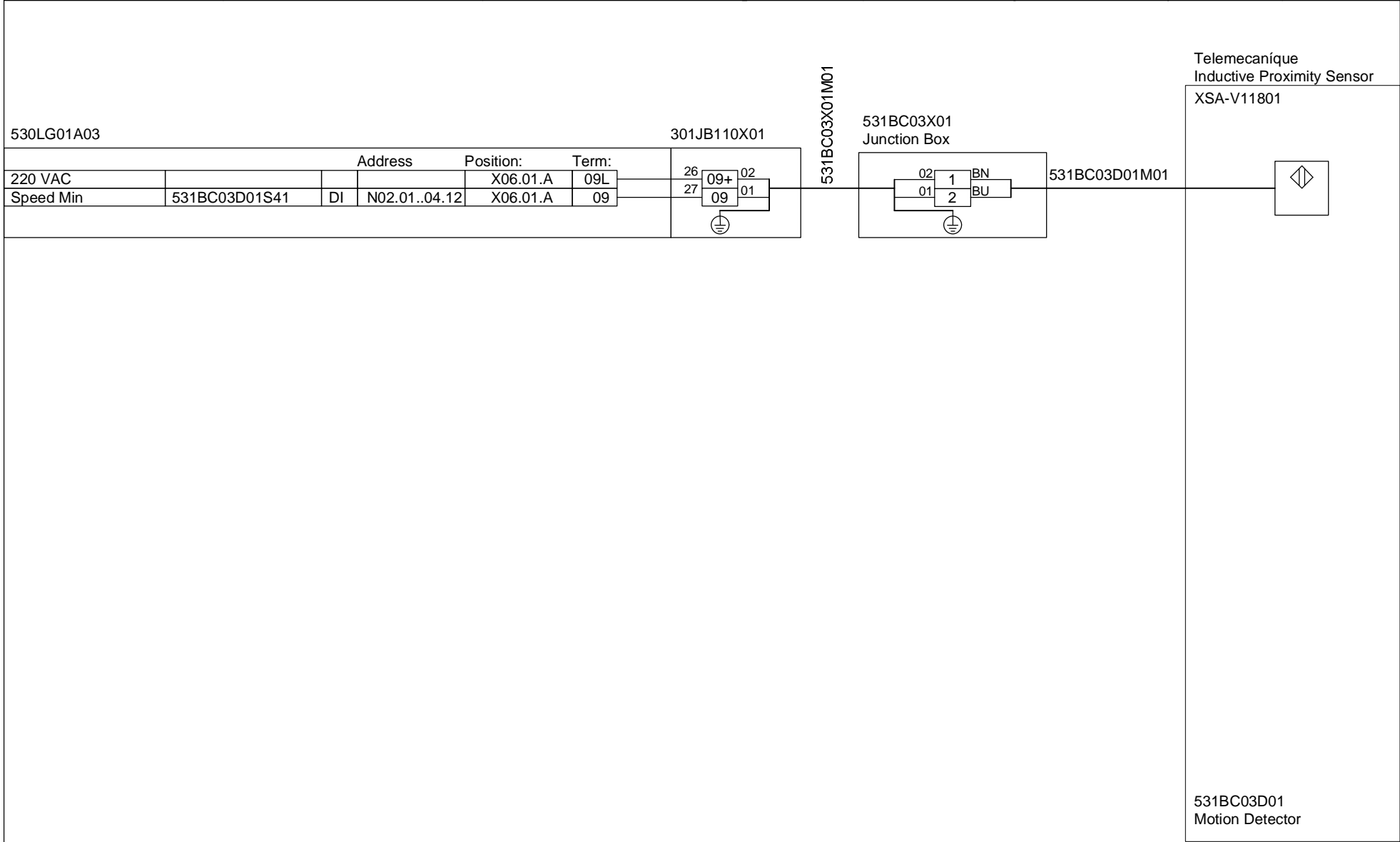
531BC02U01
Frequency Converter



531BC02U01 Belt Conveyor
Frequency Converter

80019896

01.002380



530LG01A03

301JB110X01

	Address	Position:	Term:
220 VAC		X06.01.A	10L
Sway Max 1	531BC03D02Z41	DI N02.01..04.13	X06.01.A 10
Sway Max 2	531BC03D02Z42	DI N02.01..04.14	X06.01.A 11

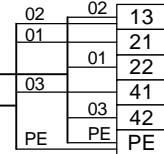
Kiepe
Belt Drift Switch

VG 133/6

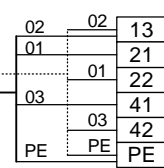
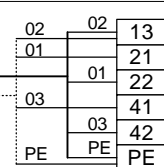
531BC03D02M01

531BC03D03M01

531BC03D07M01



531BC03D02
Sway Detector

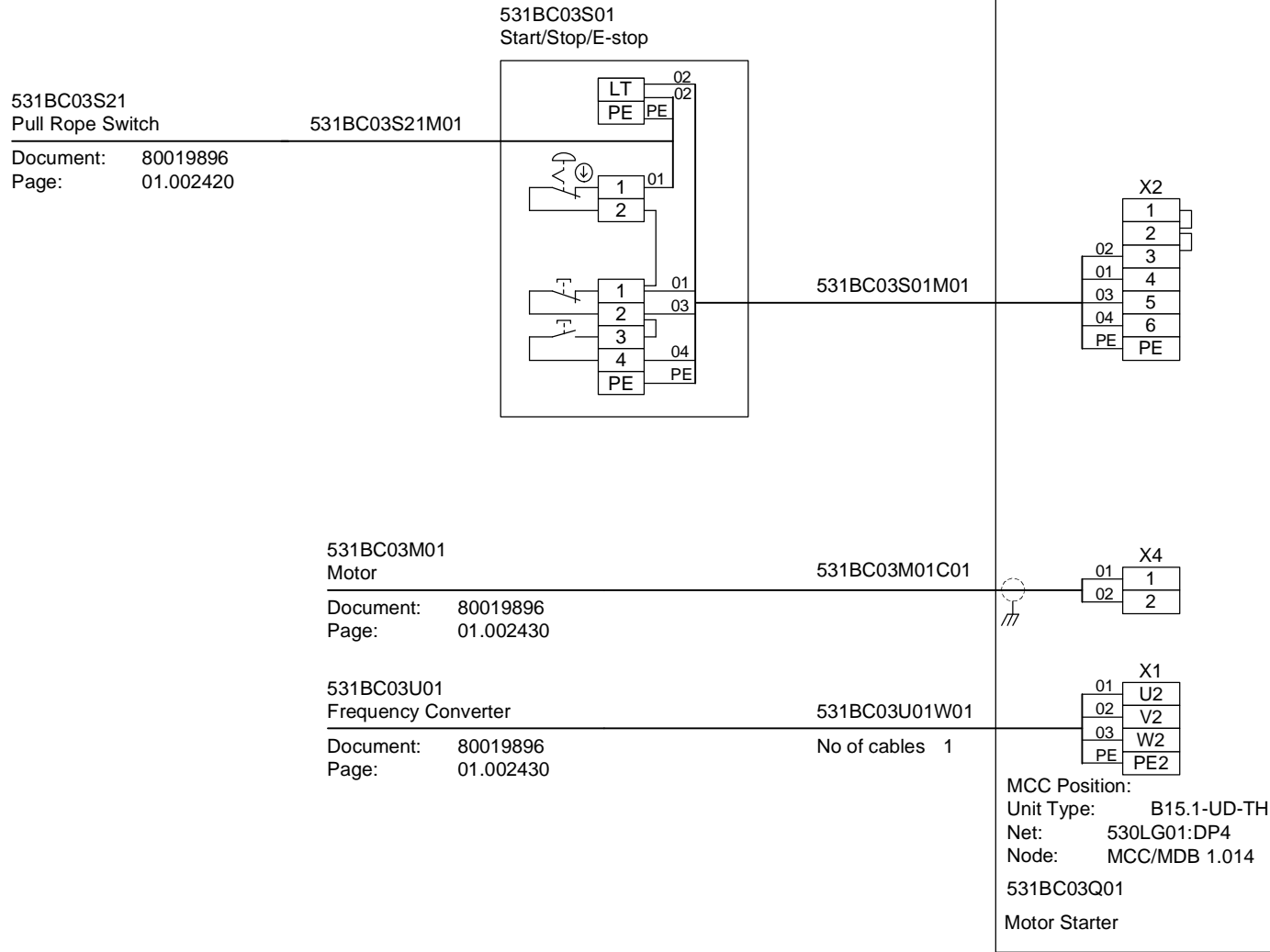


531BC03D07
Sway Detector

Cable List:

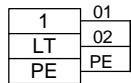
- 531BC03D04M01
- 531BC03D05M01
- 531BC03D06M01

LVDB 582ER54AMC01



MCC Position:
Unit Type: B15.1-UD-TH
Net: 530LG01:DP4
Node: MCC/MDB 1.014
531BC03Q01
Motor Starter

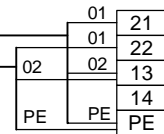
531BC03S01
Start/Stop/E-stop



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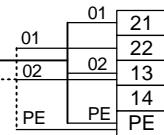
Kiepe
Pull Rope Switch
HEN 002

531BC03S21M01



531BC03S22M01

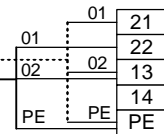
531BC03S21
Pull Rope Switch



Cable List: Pull Rope switches

- 531BC03S23M01
- 531BC03S24M01
- 531BC03S25M01
- 531BC03S26M01
- 531BC03S27M01

531BC03S28M01



531BC03S28
Pull Rope Switch

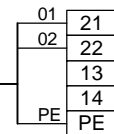
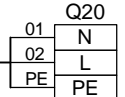


ABB
Frequency Drive
ACS800-02-0210-3

301UP110A03
Distribution

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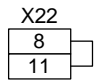
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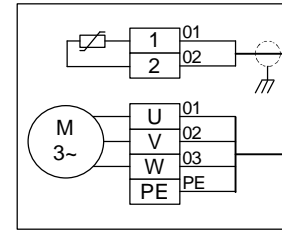
531BC03Q01
Motor Starter

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531BC03M01C01

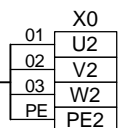


531BC03M01
Motor
121 kW



531BC03M01W01

No of cables 1

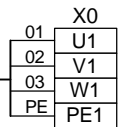


531BC03Q01
Motor Starter

Document: 80019896
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531BC03U01W01

No of cables 1



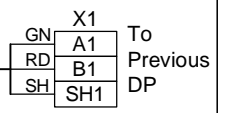
Net: 530LG01:DP3
Node: Field Device.016
531BC03U01
Frequency Converter

Tonasa	U LV ELP B15.1-UD-TH	Conv. Type A, DP	-	2/25/2010 7:39:30 AM	1/27/2012 10:36:31 AM	Customer	A2
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ABB
Frequency Drive
ACS800-02-0210-3

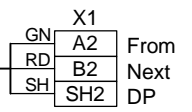
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Frequency Converter
Document: 80019896
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531BC03U01Y01



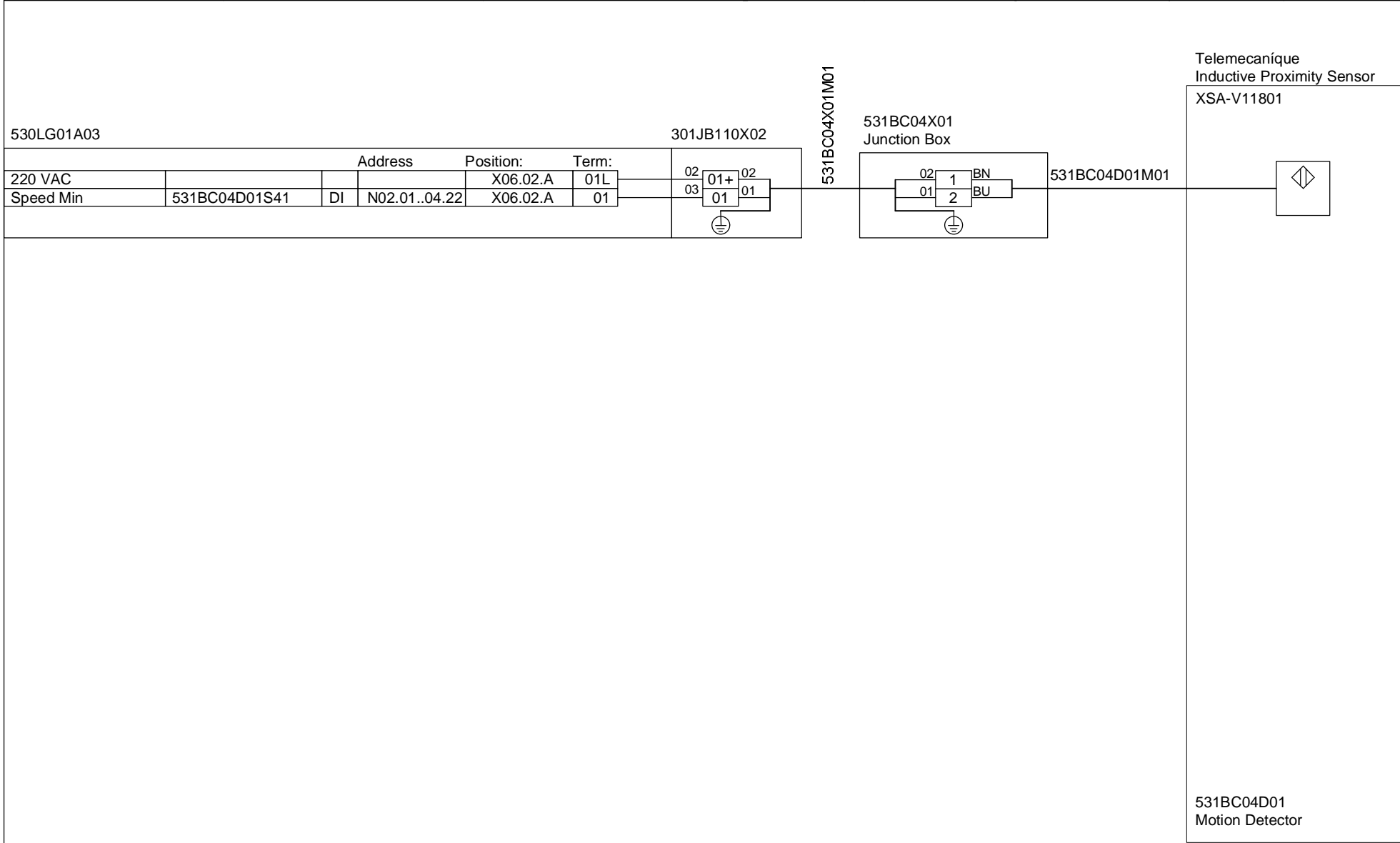
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Frequency Converter
Document: 80019896
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531BC04U01Y01



531BC03U01
Frequency Converter

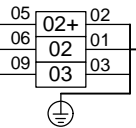
	531BC03U01	Belt Conveyor Frequency Converter	80019896	01.002440
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530LG01A03

301JB110X02

	Address	Position:	Term:
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Sway Max 1	531BC04D02Z41	N02.01..04.23	X06.02.A
Sway Max 2	531BC04D02Z42	N02.01..04.24	X06.02.A



531BC04D02M01

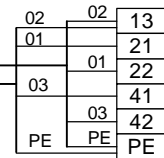
531BC04D03M01

531BC04D04M01

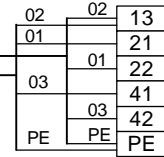
531BC04D05M01

Kiepe
Belt Drift Switch

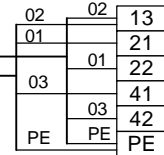
VG 133/6



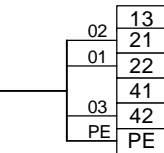
531BC04D02
Sway Detector



531BC04D03
Sway Detector



531BC04D04
Sway Detector



531BC04D05
Sway Detector



531BC04D02

Belt Conveyor
Sway Detector

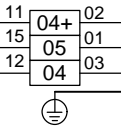
80019896

01.002460

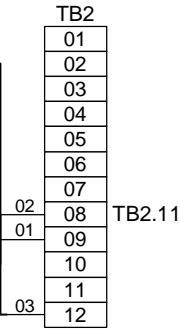
530LG01A03 Eriez Magnetics Europe Ltd.
Metalarm MA3500 CE

		Address	Position:	Term:		
220 VAC			X06.02.A	04L	11	04+
Metal Detected	531BC04D11M41	DI	N02.01..04.26	X06.02.A	15	05
Unit Fault	531BC04D11U41	DI	N02.01..04.25	X06.02.A	12	04

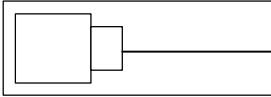
301JB110X02



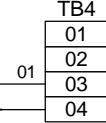
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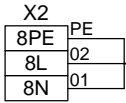
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Sensor



531BC04B11Y01

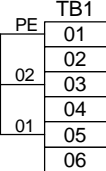


LVDB 582ER54AMC01



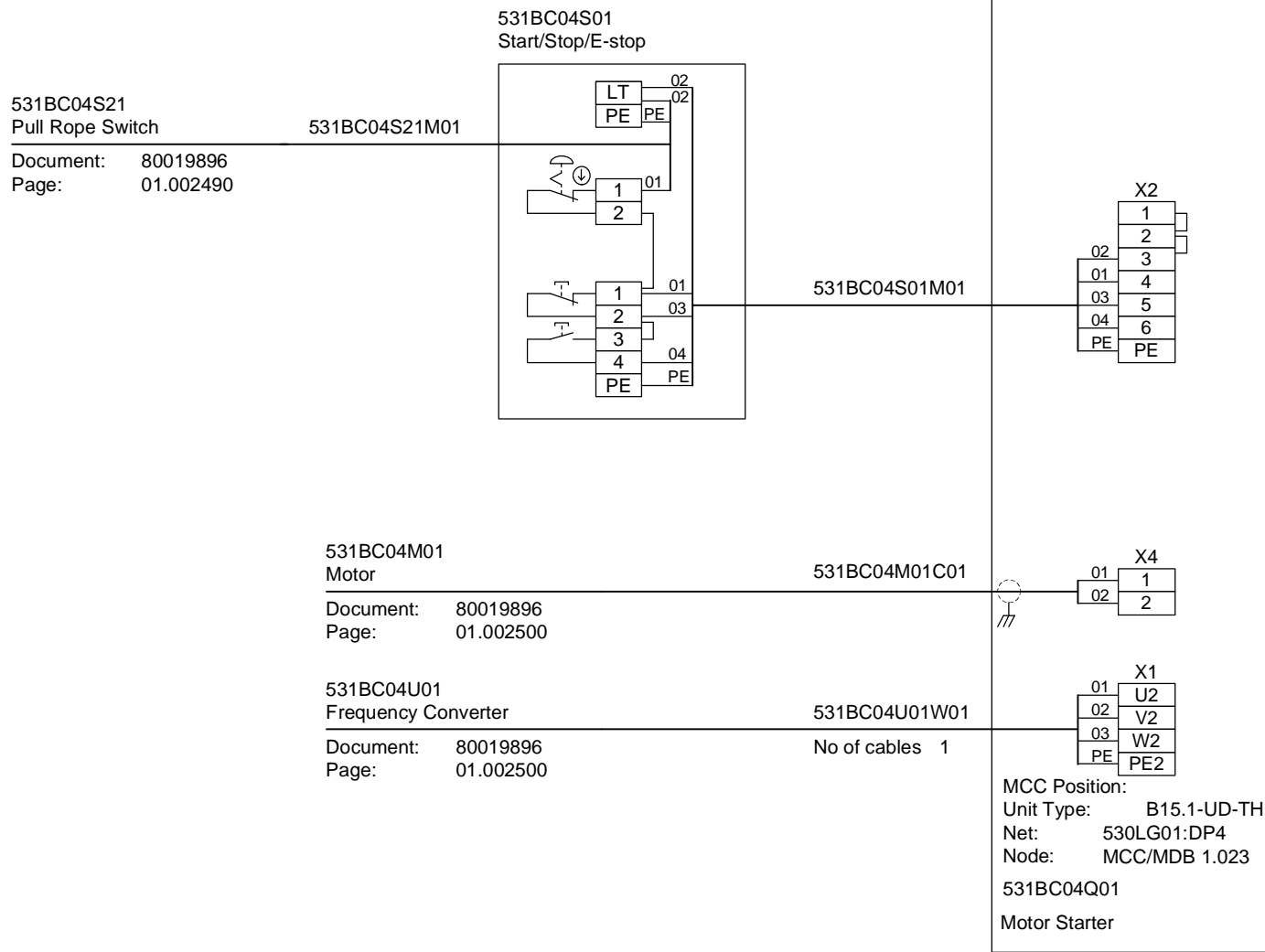
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Unit Type: B42
582ER54AMC01F01 Feeder

531BC04D11M02

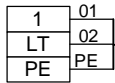


531BC04D11
Transducer

LVDB 582ER54AMC01



531BC04S01
Start/Stop/E-stop



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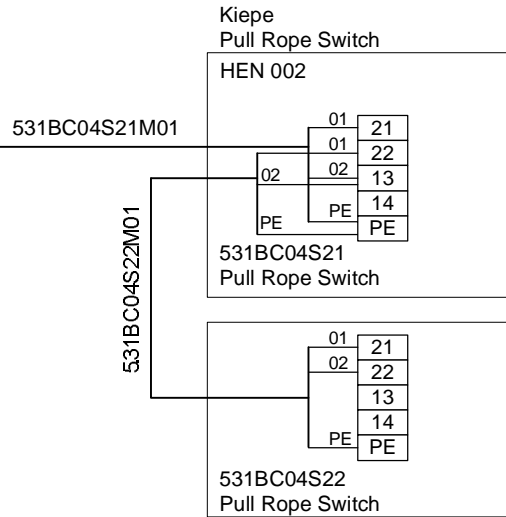
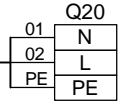


ABB
Frequency Drive
ACS800-04-0023-3

301UP110A03
Distribution

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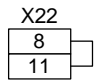
531BC04U01M01



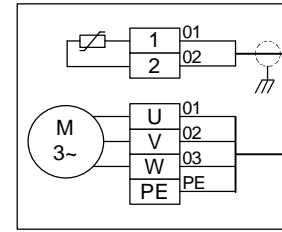
531BC04Q01
Motor Starter

Doc: 80019896
Page: 01.002480

531BC04M01C01

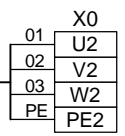


531BC04M01
Motor
15 kW



531BC04M01W01

No of cables 1

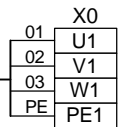


531BC04Q01
Motor Starter

Document: 80019896
Page: 01.002480

531BC04U01W01

No of cables 1

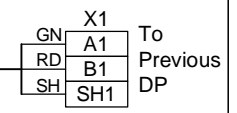


Net: 530LG01:DP3
Node: Field Device.017
531BC04U01
Frequency Converter

ABB
Frequency Drive
ACS800-04-0023-3

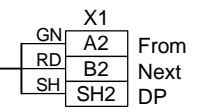
531BC03U01
Frequency Converter
Document: 80019896
Page: 01.002430

531BC04U01Y01



532MD02U01
Frequency Converter
Document: 80019896
Page: 01.003980

532MD02U01Y01



531BC04U01
Frequency Converter

530LG01A03

301JB110X01

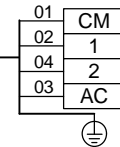
FLSmidth
CE-X-25

JETCON M01

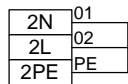
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0/220 VAC		X06.01.A	18N	52 18- 01
220 VAC		X06.01.A	12L	35 12+ 02
Command	531BF01A01C31	DO N02.01..06.03	X06.01.A	51 18 03
Pressure Max	531BF01A01P41	DI N02.01..04.15	X06.01.A	36 12 04

⊕

531BF01A01M01

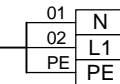


LVDB 582ER54AMC01



MCC Position
Unit Conn. Type B42
582ER54AMC01F01 Feeder

531BF01A01M02



531BF01A01
Control Panel



531BF01A01

Bag Filter
Control Panel

80019896

01.002520

530LG01A03

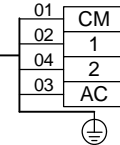
301JB110X02

FLSmidth
CE-X-10

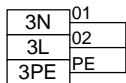
JETCON M01

	Address	Position:	Term:	
0/220 VAC		X06.02.A	17N	50 17- 01
220 VAC		X06.02.A	09L	26 09+ 02
Command	531BF02A01C31	DO	N02.01..06.12	49 17 03
Pressure Max	531BF02A01P41	DI	N02.01..04.32	27 09 04

531BF02A01M01

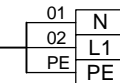


LVDB 582ER54AMC01



MCC Position
Unit Conn. Type B42
582ER54AMC01F01 Feeder

531BF02A01M02



531BF02A01
Control Panel



531BF02A01

Bag Filter
Control Panel

80019896

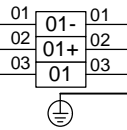
01.002530

Tonasa	DL Siemens CLS 300	DL Siemens Pointek CLS 300	-	2/25/2010 8:19:52 AM	1/27/2012 10:36:40 AM	Customer	A2
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530LG01A07

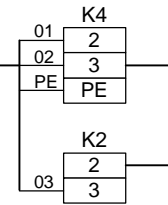
101JB110X01

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0/220 VAC		X06.03.A	01N	01
220 VAC		X06.03.A	01L	02
Level Max	531BI01D01L41	DI N02.01..06.02	X06.03.A	03



Siemens
Pointek CLS300
7ML5510-2AF40-2AA0

531BI01D01M01



531BI01D01
Level Switch



531BI01D01

Feed Bin Limestone/Clay
Level Switch

80019896

01.002540

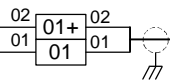
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530LG01A04

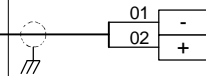
101JB100X01

Siemens
Microwave Radar
SITRANS LR260

	Address	Position:	Term:
+24 VDC		X05.02.A	01+
Level	531BI01N01L01	N02.01..07.02	X05.02.A 01



531BI01N01C01



Range 0 - 100 %

531BI01N01
Level Transmitter



531BI01N01

Feed Bin Limestone/Clay
Level Transmitter

80019896

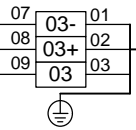
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530LG01A07

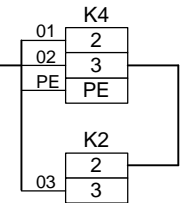
101JB110X01

Siemens
Pointek CLS300
7ML5510-2AF40-2AA0

	Address	Position:	Term:	
0/220 VAC		X06.03.A	03N	07
220 VAC		X06.03.A	03L	08
Level Max	531BI02D01L41	DI	N02.01..06.04	X06.03.A
				03



531BI02D01M01



531BI02D01
Level Switch



531BI02D01 Feed Bin Silica Sand Level Switch

80019896

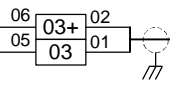
01.002560

530LG01A04

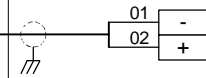
101JB100X01

Siemens
Microwave Radar
SITRANS LR260

	Address	Position:	Term:
+24 VDC		X05.02.A	03+
Level	531BI02N01L01	N02.01..07.06	X05.02.A 03



531BI02N01C01



Range 0 - 100 %

531BI02N01
Level Transmitter



531BI02N01

Feed Bin Silica Sand
Level Transmitter

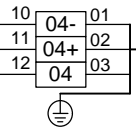
80019896

01.002570

530LG01A07

101JB110X01

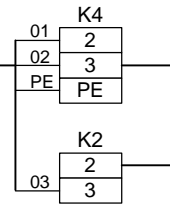
	Address	Position:	Term:	
0/220 VAC		X06.03.A	04N	10
220 VAC		X06.03.A	04L	11
Level Max	531BI03D01L41	DI	N02.01..06.05	X06.03.A
			04	12



Siemens
Pointek CLS300

7ML5510-2AF40-2AA0

531BI03D01M01



531BI03D01
Level Switch



531BI03D01

Feed Bin Iron Sand
Level Switch

80019896

01.002580

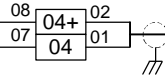
Tonasa	NL Sitrans LR260	Sitrans LR260	-	2/25/2010 8:23:16 AM	1/27/2012 10:36:44 AM	Customer	A2
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530LG01A04

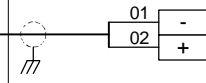
101JB100X01

Siemens
Microwave Radar
SITRANS LR260

	Address	Position:	Term:
+24 VDC		X05.02.A	04+
Level	531BI03N01L01	N02.01..07.08	X05.02.A 04



531BI03N01C01



Range 0 - 100 %

531BI03N01
Level Transmitter



531BI03N01 Feed Bin Iron Sand
Level Transmitter

80019896

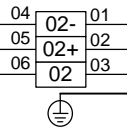
01.002590

530LG01A07

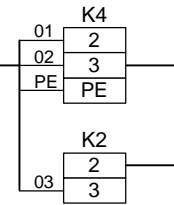
101JB110X01

Siemens
Pointek CLS300
7ML5510-2AF40-2AA0

	Address	Position:	Term:	
0/220 VAC		X06.03.A	02N	04
220 VAC		X06.03.A	02L	05
Level Max	531BI04D01L41	DI	N02.01..06.03	X06.03.A
				02



531BI04D01M01



531BI04D01
Level Switch



531BI04D01

Feed Bin Lime Stone
Level Switch

80019896

01.002600

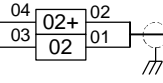
Tonasa	NL Sitrans LR260	Sitrans LR260	-	2/25/2010 8:22:45 AM	1/27/2012 10:36:46 AM	Customer	A2
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530LG01A04

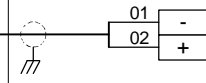
101JB100X01

Siemens
Microwave Radar
SITRANS LR260

	Address	Position:	Term:
+24 VDC		X05.02.A	02+
Level	531BI04N01L01	N02.01..07.04	X05.02.A 02



531BI04N01C01



Range 0 - 100 %

531BI04N01
Level Transmitter



531BI04N01

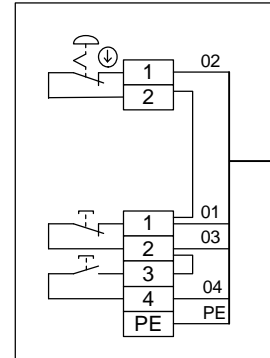
Feed Bin Lime Stone
Level Transmitter

80019896

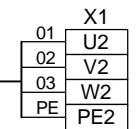
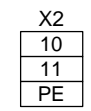
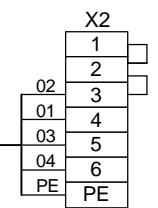
01.002610

LVDB 582ER54AMC01

531FN01S01
Start/Stop/E-stop



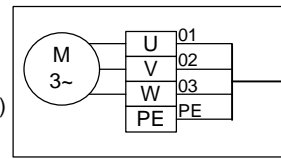
531FN01S01M01



531FN01M01W01

No of cables 1

531FN01M01
Motor
72 kW (Derated)
75 kW

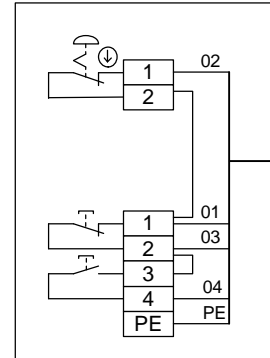


MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP4
Node: MCC/MDB 1.015
531FN01Q01
Motor Starter

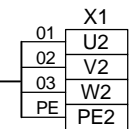
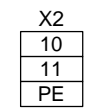
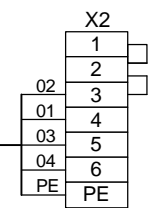
	531FN01M01	Filter Fan Motor	80019896	01.002620
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LVDB 582ER54AMC02

531FN02S01
Start/Stop/E-stop



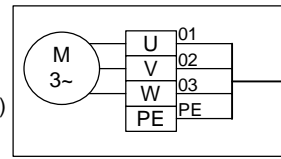
531FN02S01M01



531FN02M01W01

No of cables 1

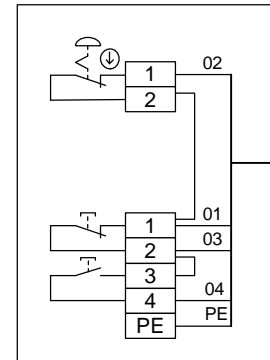
531FN02M01
Motor
36 kW (Derated)
37 kW



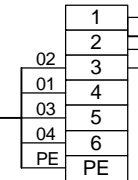
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.033
531FN02Q01
Motor Starter

LVDB 582ER54AMC01

531MS01S01
Start/Stop/E-stop



531MS01S01M01



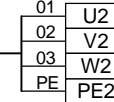
X2



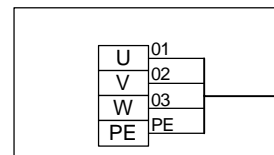
X4



X1



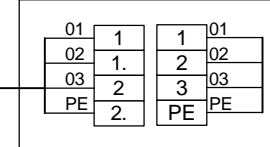
531MS01M01
Magnet
9.7 kW



531MS01M01W01

No of cables

531MS01U01 Rectifier



531MS01U01W01

No of cables 1

Position:
Unit Conn. Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.016
531MS01Q01 Motor Starter



531MS01M01

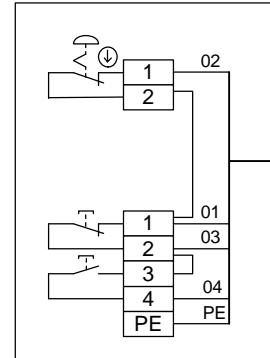
Magnetic Separator Magnet
Magnet

80019896

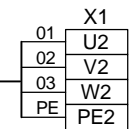
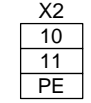
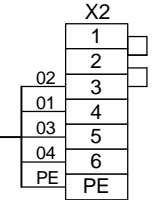
01.002640

LVDB 582ER54AMC01

531MS01S02
Start/Stop/E-stop



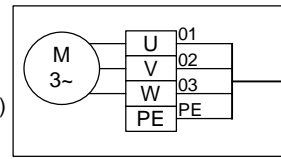
531MS01S02M01



531MS01M02W01

No of cables 1

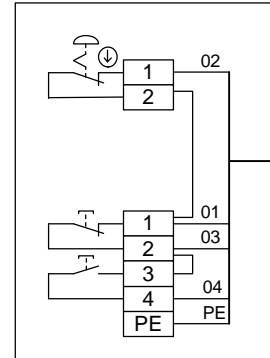
531MS01M02
Motor
4 kW (Derated)
4 kW



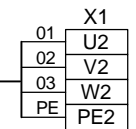
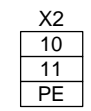
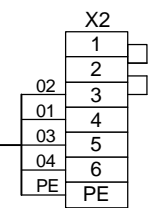
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.017
531MS01Q02
Motor Starter

LVDB 582ER54AMC01

531RF01S01
Start/Stop/E-stop



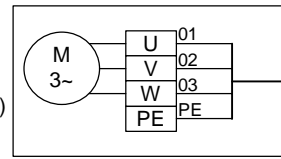
531RF01S01M01



531RF01M01W01

No of cables 1

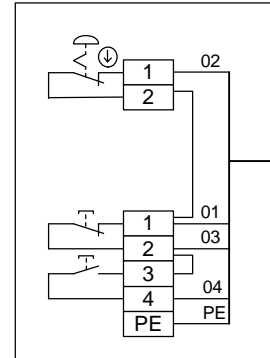
531RF01M01
Motor
0.37 kW (Derated)
0.37 kW



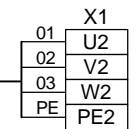
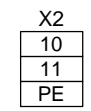
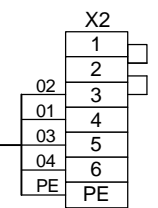
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.018
531RF01Q01
Motor Starter

LVDB 582ER54AMC02

531RF02S01
Start/Stop/E-stop



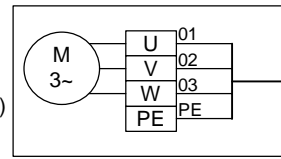
531RF02S01M01



531RF02M01W01

No of cables 1

531RF02M01
Motor
0.37 kW (Derated)
0.37 kW

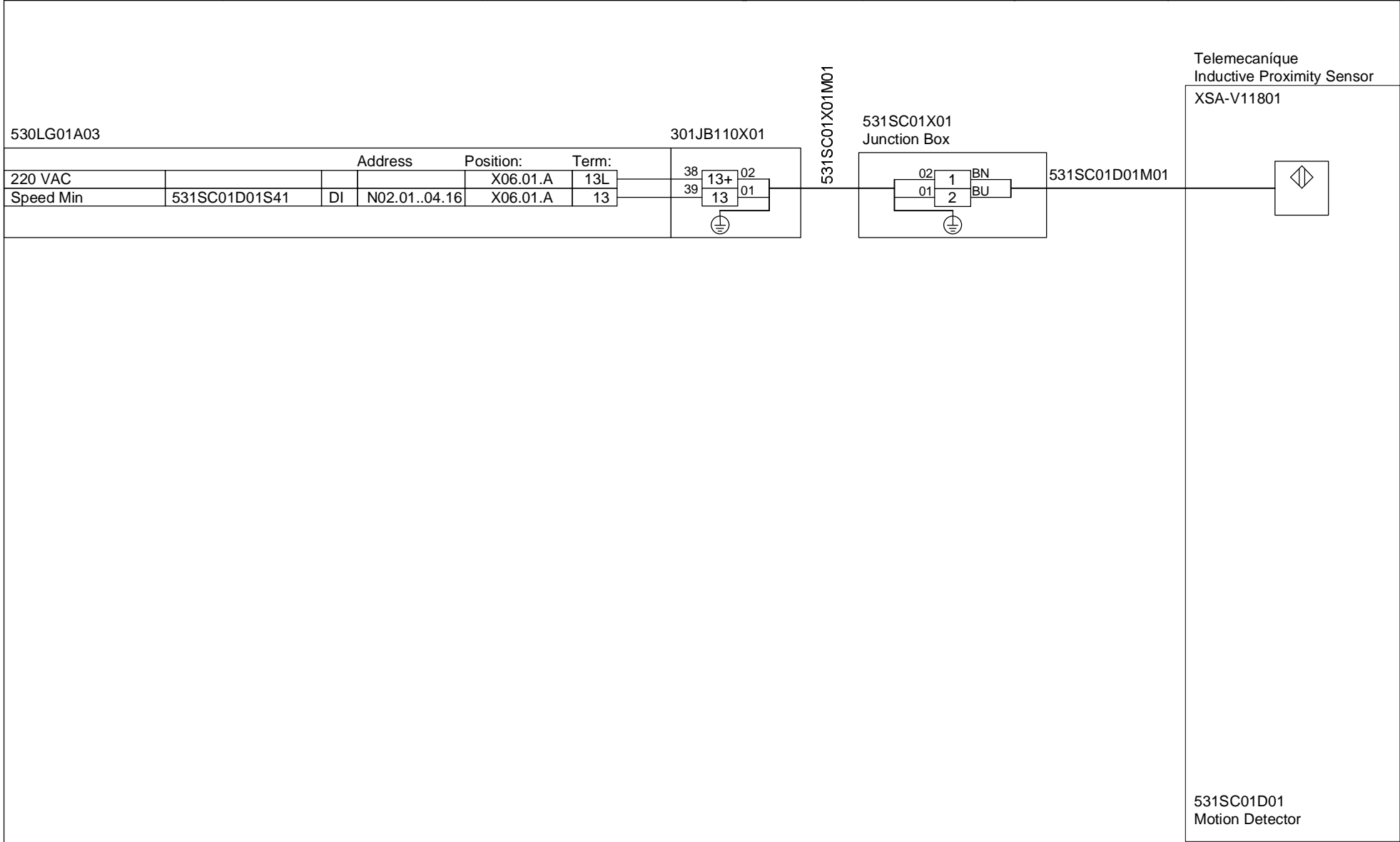


MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.054
531RF02Q01
Motor Starter



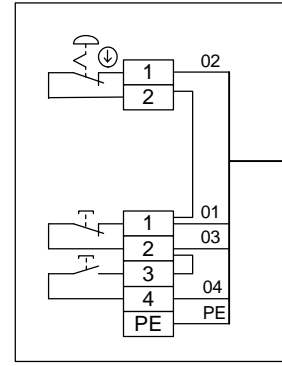
531RF02M01 Rotary Air lock Motor

80019896 01.002670

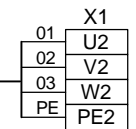
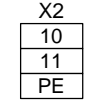
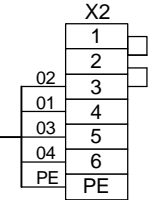


LVDB 582ER54AMC01

531SC01S01
Start/Stop/E-stop



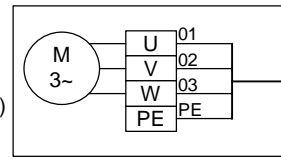
531SC01S01M01



531SC01M01W01

No of cables 1

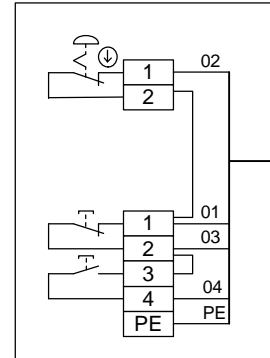
531SC01M01
Motor
2.2 kW (Derated)
2.2 kW



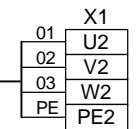
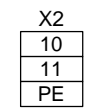
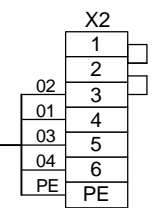
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.019
531SC01Q01
Motor Starter

LVDB 582ER54AMC01

531SX01S01
Start/Stop/E-stop



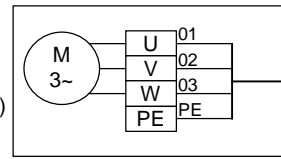
531SX01S01M01



531SX01M01W01

No of cables 1

531SX01M01
Motor
0.75 kW (Derated)
0.75 kW

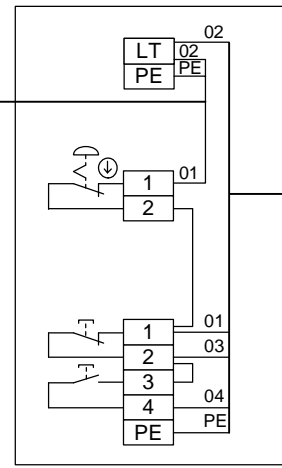


MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.020
531SX01Q01
Motor Starter

LVDB 582ER54AMC01

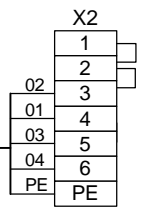
531SX02S11
Emergency Stop
Document: 80019896
Page: 01.002720

531SX02S01
Start/Stop/E-stop



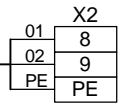
531SX02S11M01

531SX02S01M01

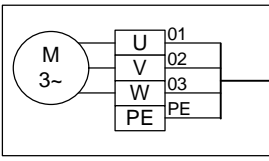


531SX02Q02
Motor Starter
Document: 80019896
Page: 01.002720

311SX241Q02M01

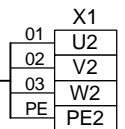


531SX02M01
Motor
0.55 kW (Derated)
0.55 kW



531SX02M01W01

No of cables 1

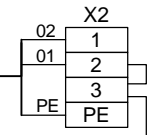


MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.021
531SX02Q01
Motor Starter

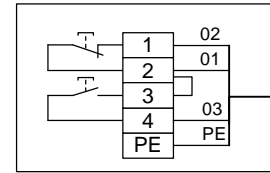
LVDB 582ER54AMC01

531SX02Q01
Motor Starter
Document: 80019896
Page: 01.002710

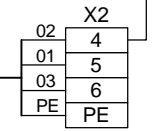
531SX02Q02M01



531SX02S02
Start / Stop

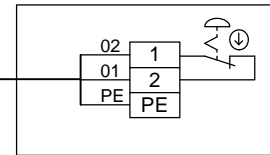


531SX02S02M01



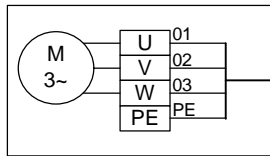
531SX02S01
Start/Stop/E-stop
Document: 80019896
Page: 01.002710

531SX02S11M01



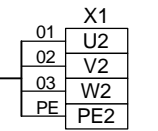
531SX02S11
Emergency Stop

531SX02M02
Motor
0.55 kW (Derated)
0.55 kW



531SX02M02W01

No of cables 1



Position:
Unit Conn. Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.022
531SX02Q02 Motor Starter

Tonasa	Pfister Dosimat	Pfister Dosimat	-	6/30/2010 5:56:43 AM	1/27/2012 10:36:55 AM	Customer	A2
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Pfister
DOSIMAT
A2-200x3.5 LI

Net: 530LG01:DP3
Node: Field Device.031
531WF01A01
Control



531WF01A01

Limestone Feeder
Control

80019896

01.002730

Tonasa	Pfister Dosax	Pfister Dosax	-	6/30/2010 5:59:06 AM	1/27/2012 10:36:55 AM	Customer	A2
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Pfister
DOSAX
1400x3.0 RI

Net: 530LG01:DP3
Node: Field Device.032
531WF02A01
Control



531WF02A01

Silica Feeder
Control

80019896

01.002740

Tonasa	Pfister Dosax	Pfister Dosax	-	6/30/2010 6:08:08 AM	1/27/2012 10:36:56 AM	Customer	A2
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Pfister
DOSAX
1400x3.0 RI

Net: 530LG01:DP3
Node: Field Device.033
531WF03A01
Control



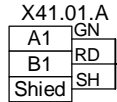
531WF03A01

Iron Ore Feeder
Control

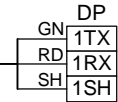
80019896

01.002750

530LG01A17
Network Interface Box Profibus

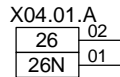


531WF05A01Y01

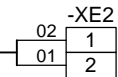


Document: 80019896
Page: 01.002020

530LG01A01
PLC Cpu-Cabinet ER-54

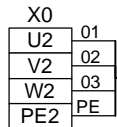


531WF05A01M01



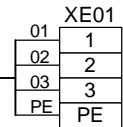
Document: 80019896
Page: 01.001890

LVDB 582ER54AMC11



531WF05Q01W01

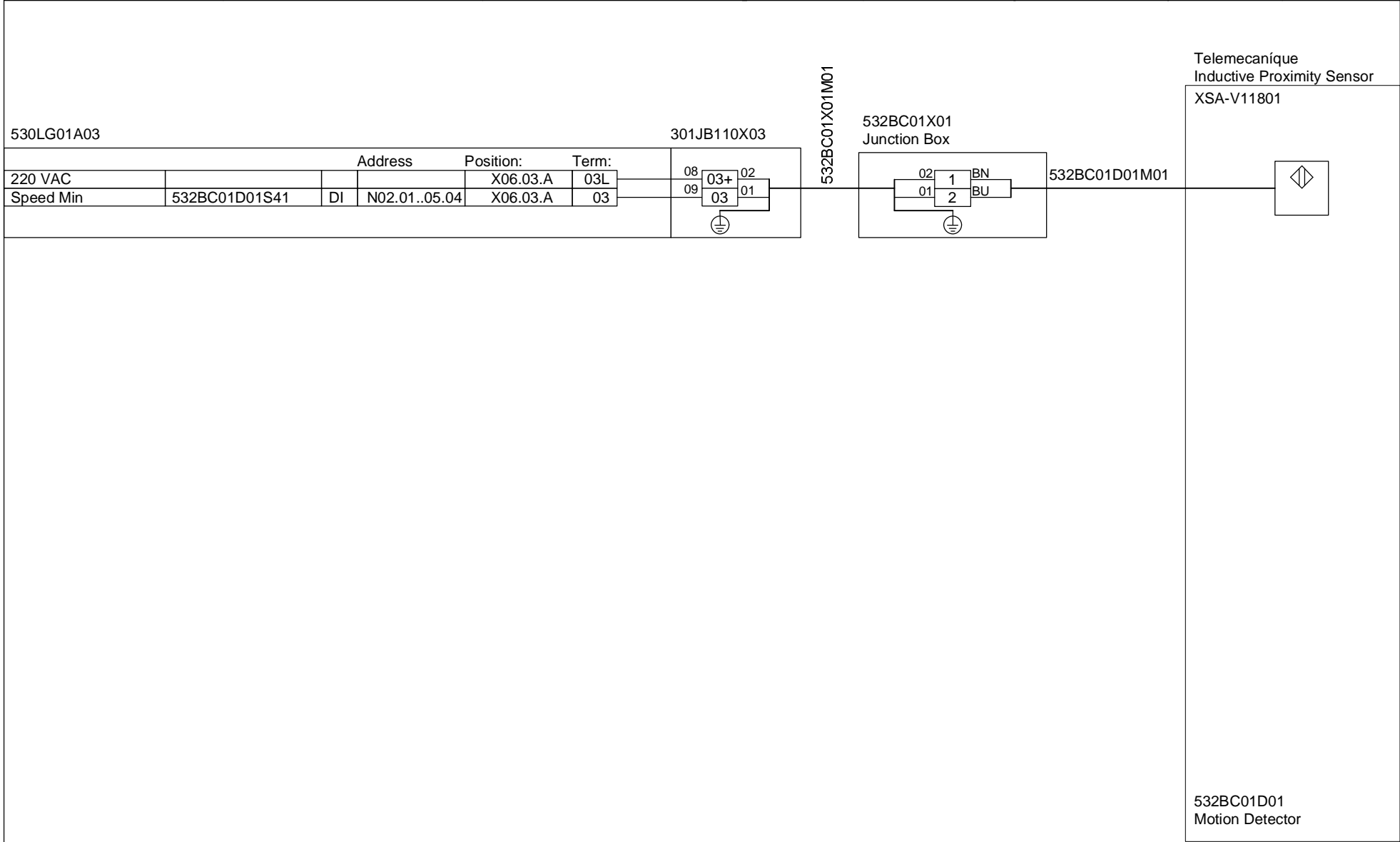
No of cables 1



MCC Position:
Unit Type: B32
531WF05Q01 Feeder

531WF05A01
Control Panel

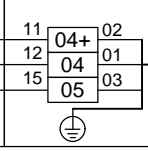




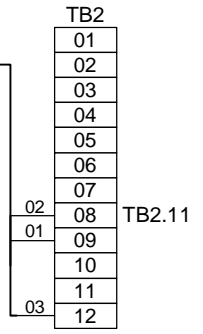
530LG01A03 Eriez Magnetics Europe Ltd.
Metalarm MA3500 CE

	Address	Position:	Term:
220 VAC		X06.03.A	04L
Metal Detected	532BC01D11M41	DI N02.01..05.05	X06.03.A 04
Unit Fault	532BC01D11U41	DI N02.01..05.06	X06.03.A 05

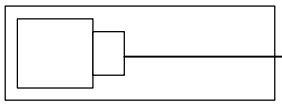
301JB110X03



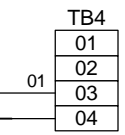
532BC01D11M01



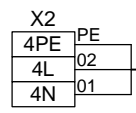
532BC01B11
Sensor



532BC01B11Y01

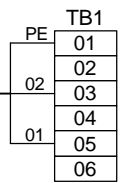


LVDB 582ER54AMC02



MCC Position:
Unit Type: B42
582ER54AMC02F01 Feeder

532BC01D11M02

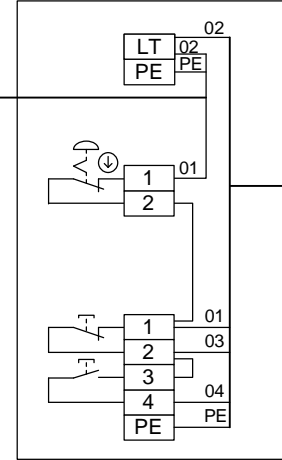


532BC01D11
Transducer

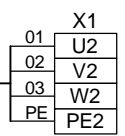
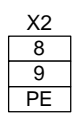
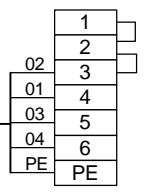
LVDB 582ER54AMC02

532BC01S01
Start/Stop/E-stop

532BC01S21
Pull Rope Switch
Document: 80019896
Page: 01.002800



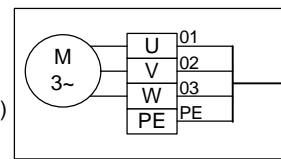
532BC01S01M01



532BC01M01W01

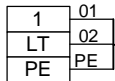
No of cables 1

532BC01M01
Motor
7.5 kW (Derated)
7.5 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.032
532BC01Q01
Motor Starter

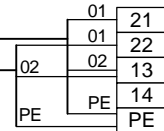
532BC01S01
Start/Stop/E-stop



Document: 80019896
Page: 01.002790

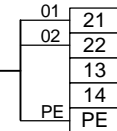
Kiepe
Pull Rope Switch
HEN 002

532BC01S21M01

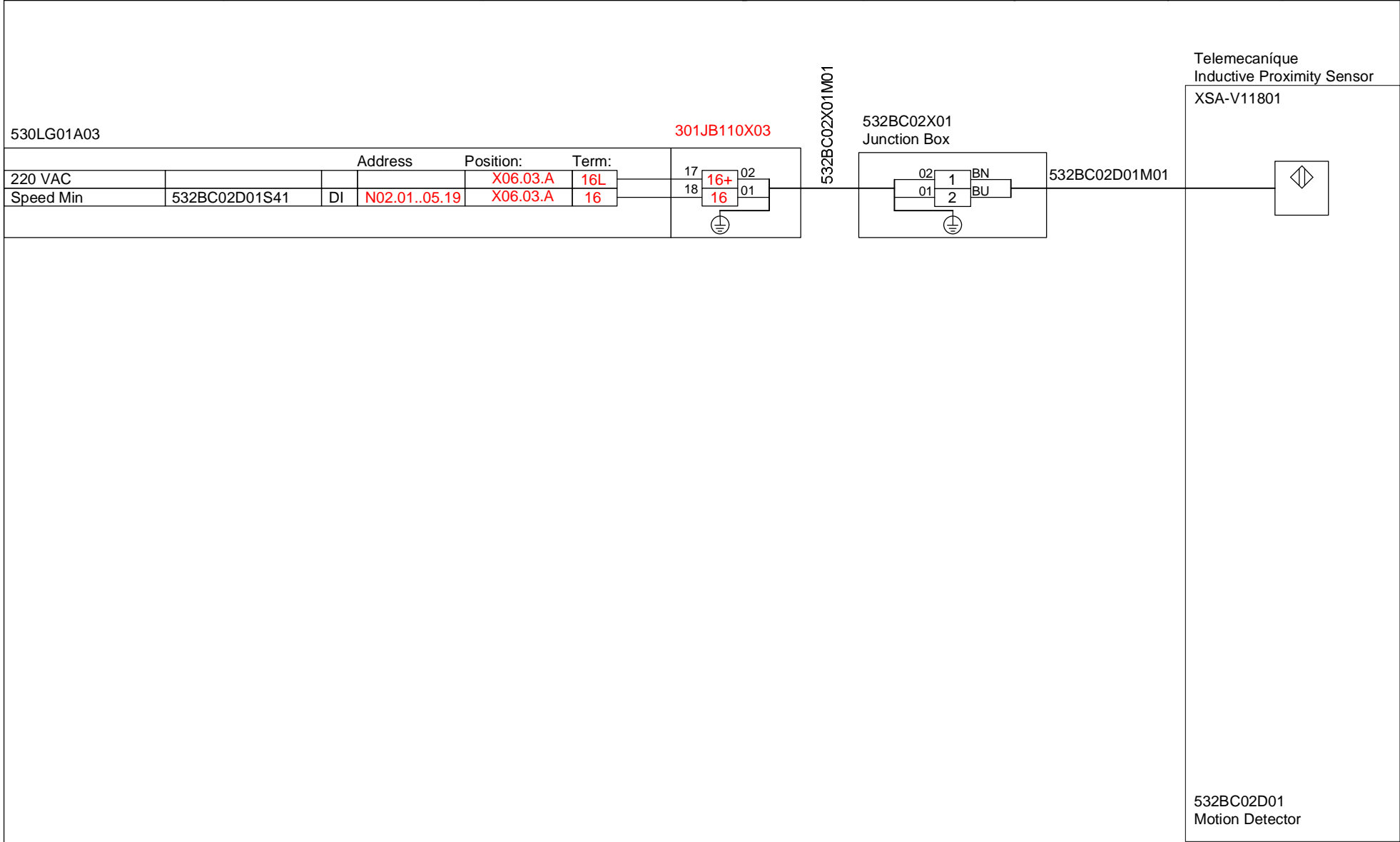


532BC01S21
Pull Rope Switch

532BC01S22M01



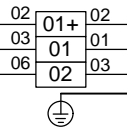
532BC01S22
Pull Rope Switch



530LG01A03

301JB110X03

	Address	Position:	Term:
220 VAC		X06.03.A	01L
Sway Max 1	532BC02D02Z41	N02.01..05.02	X06.03.A 01
Sway Max 2	532BC02D02Z42	N02.01..05.03	X06.03.A 02



532BC02D02M01

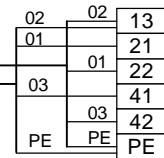
532BC02D03M01

532BC02D04M01

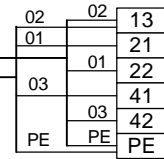
532BC02D05M01

Kiepe
Belt Drift Switch

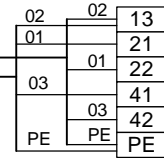
VG 133/6



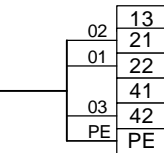
532BC02D02
Sway Detector



532BC02D03
Sway Detector



532BC02D04
Sway Detector



532BC02D05
Sway Detector



532BC02D02

Belt Conveyor
Sway Detector

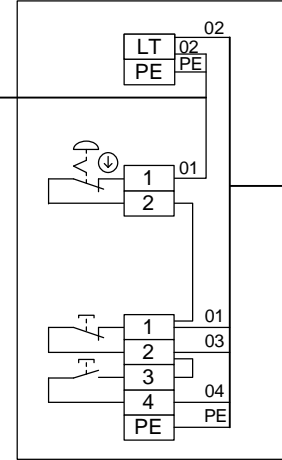
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01.002820

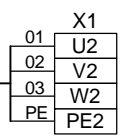
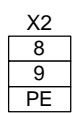
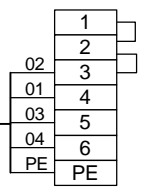
LVDB 582ER54AMC02

532BC02S01
Start/Stop/E-stop

532BC02S21
Pull Rope Switch
532BC02S21M01
Document: 80019896
Page: 01.002840

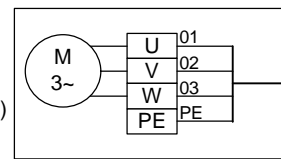


532BC02S01M01



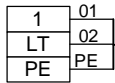
532BC02M01W01
No of cables 1

532BC02M01
Motor
14.5 kW (Derated)
15 kW

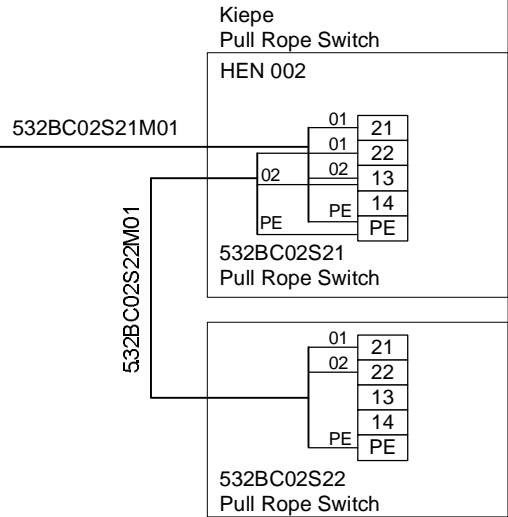


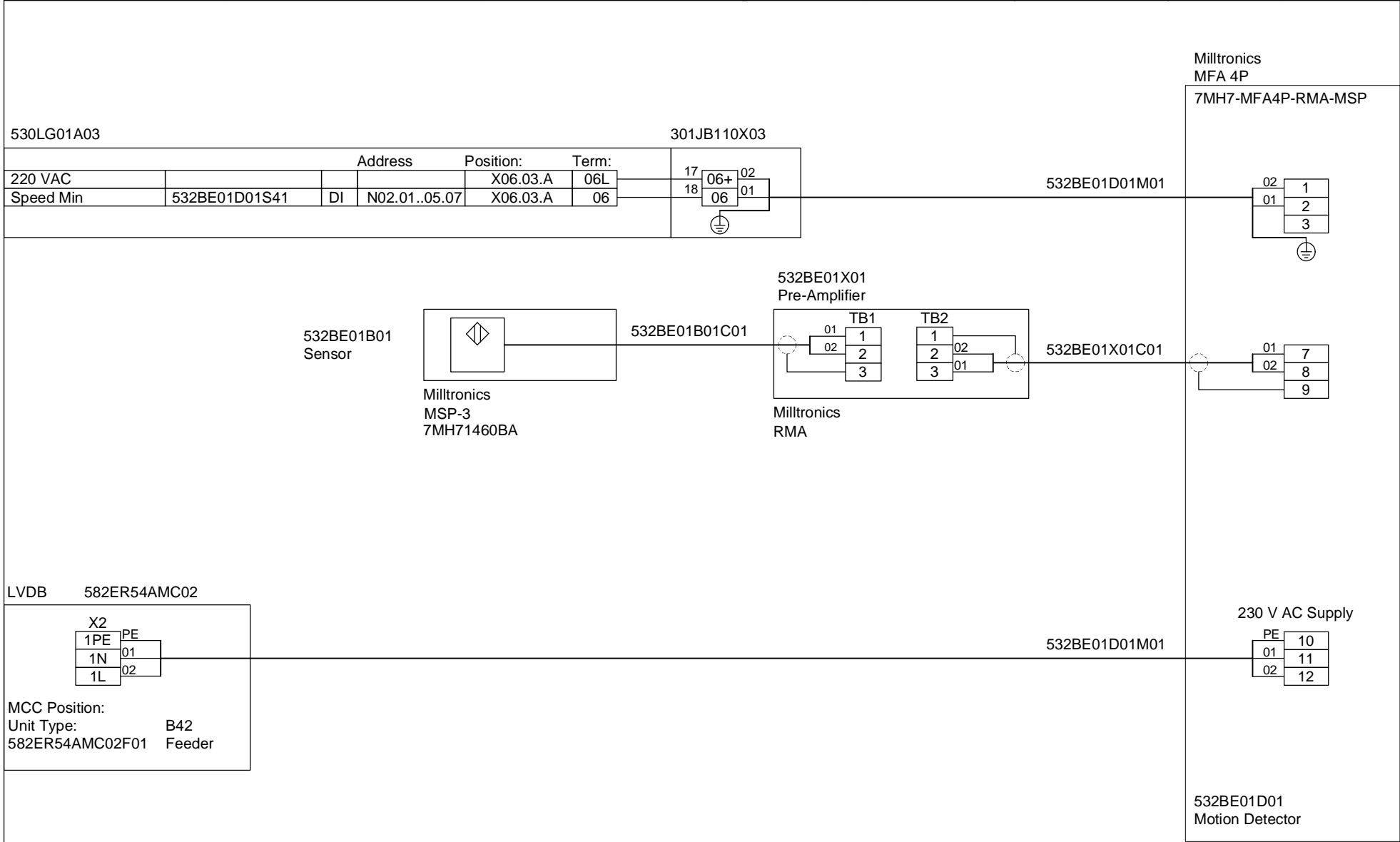
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.031
532BC02Q01
Motor Starter

532BC02S01
Start/Stop/E-stop

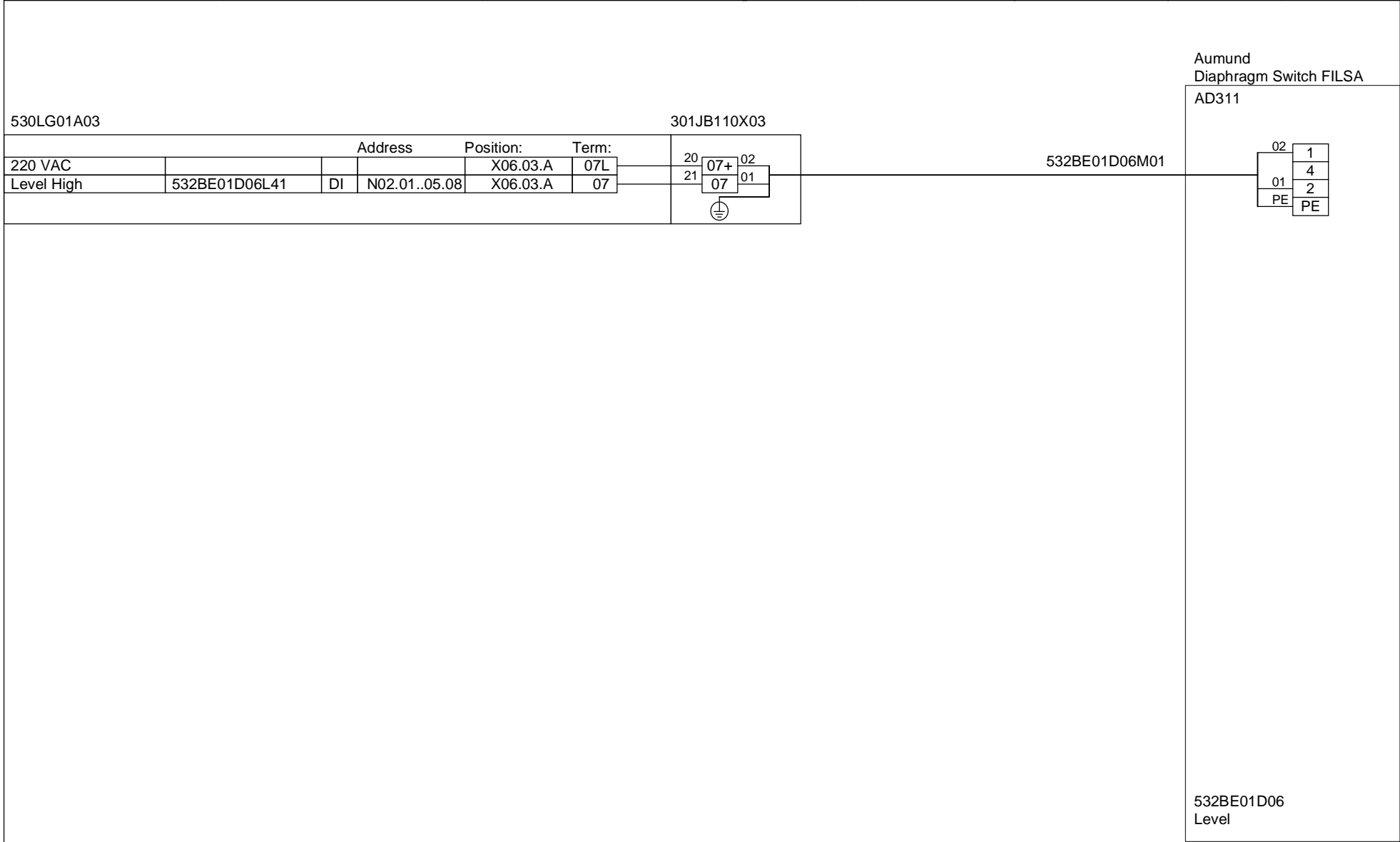


Document: 80019896
Page: 01.002830





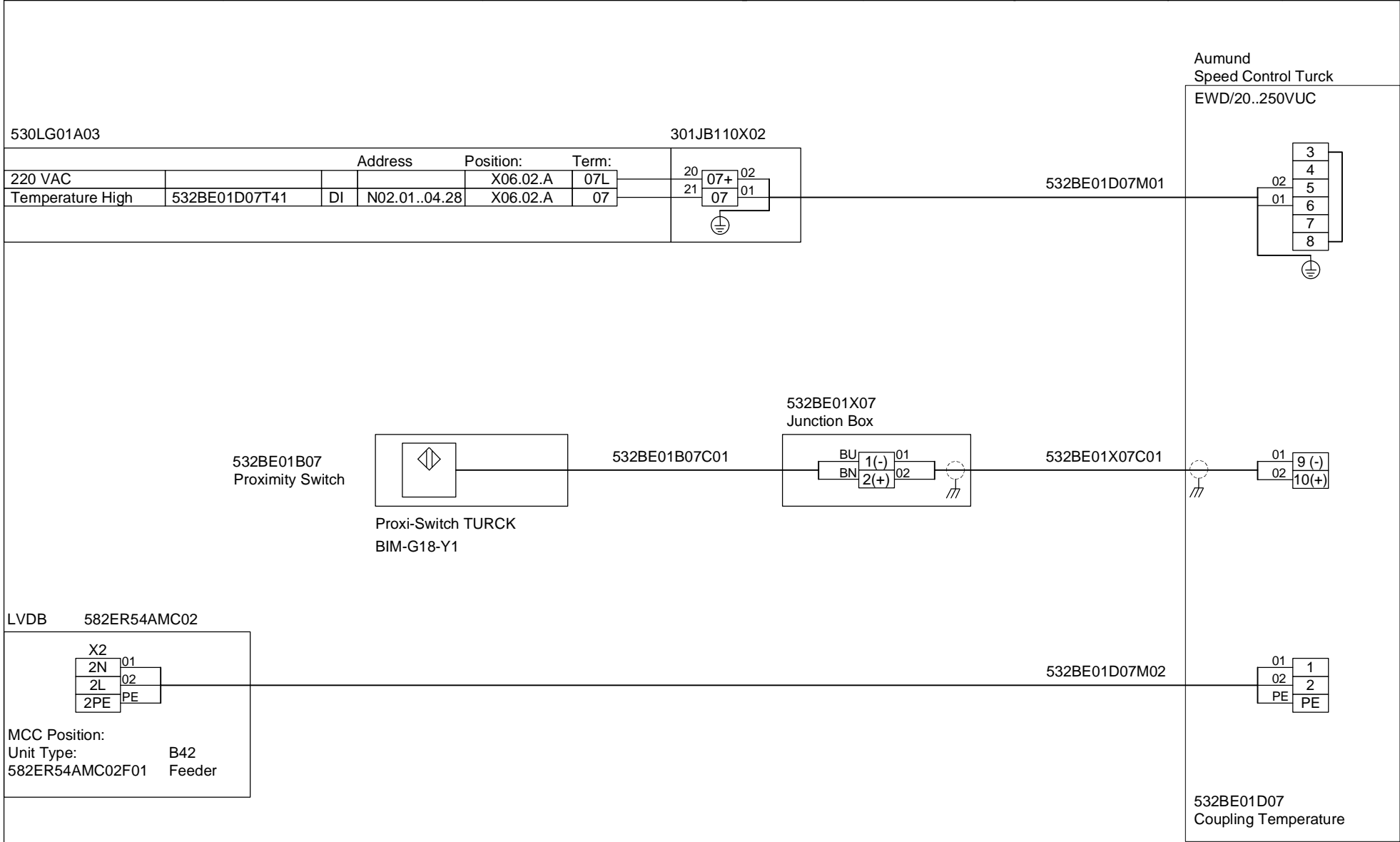
Tonasa	DL Aumund AD311	DL Aumund AD311	-	3/15/2010 4:52:31 AM	1/27/2012 10:37:04 AM	Customer	A2
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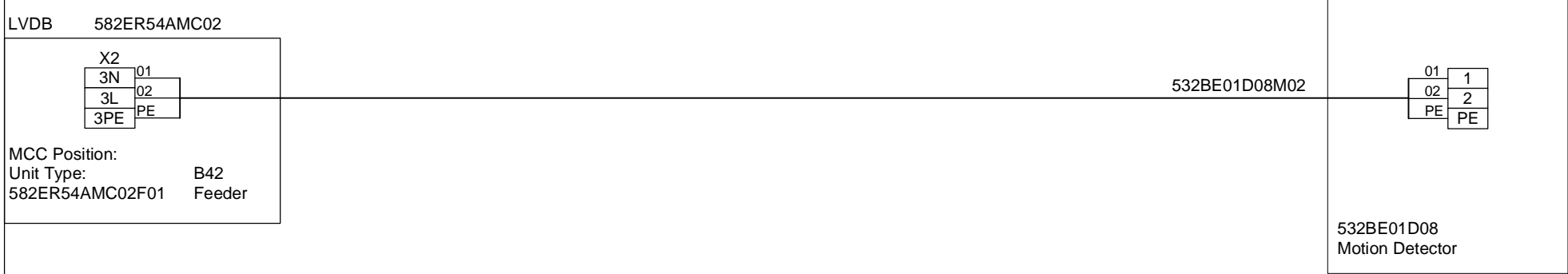
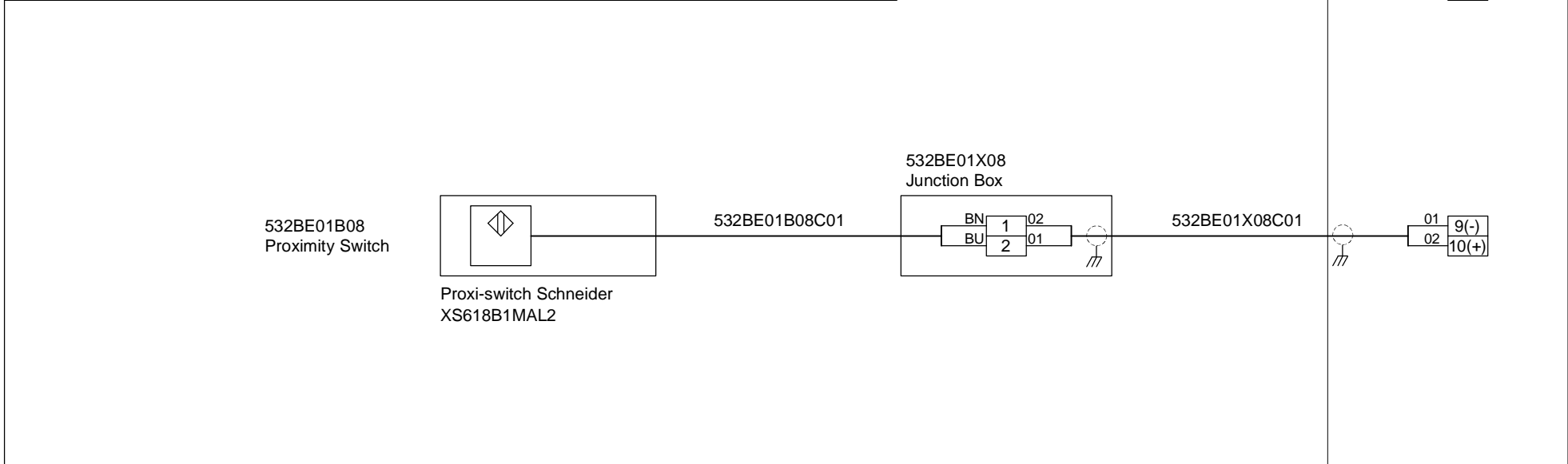
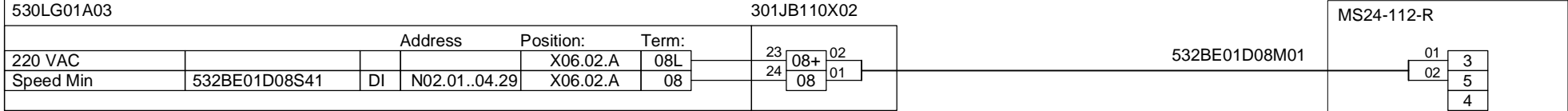


532BE01D06 Bucket Elevator Boot Level Switch

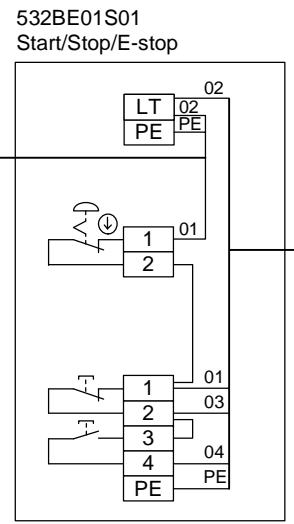
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01.002860



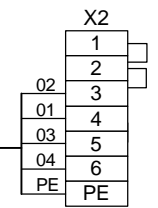


LVDB 582ER54AMC01



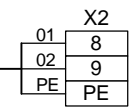
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Emergency Stop 532BE01S11M01
Document: 80019896
Page: 01.002900

532BE01S01M01

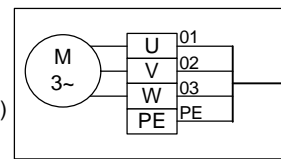


532BE01Q02
Motor Starter
Document: 80019896
Page: 01.002900

321BE220Q02M01

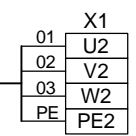


532BE01M01
Motor
72 kW (Derated)
75 kW



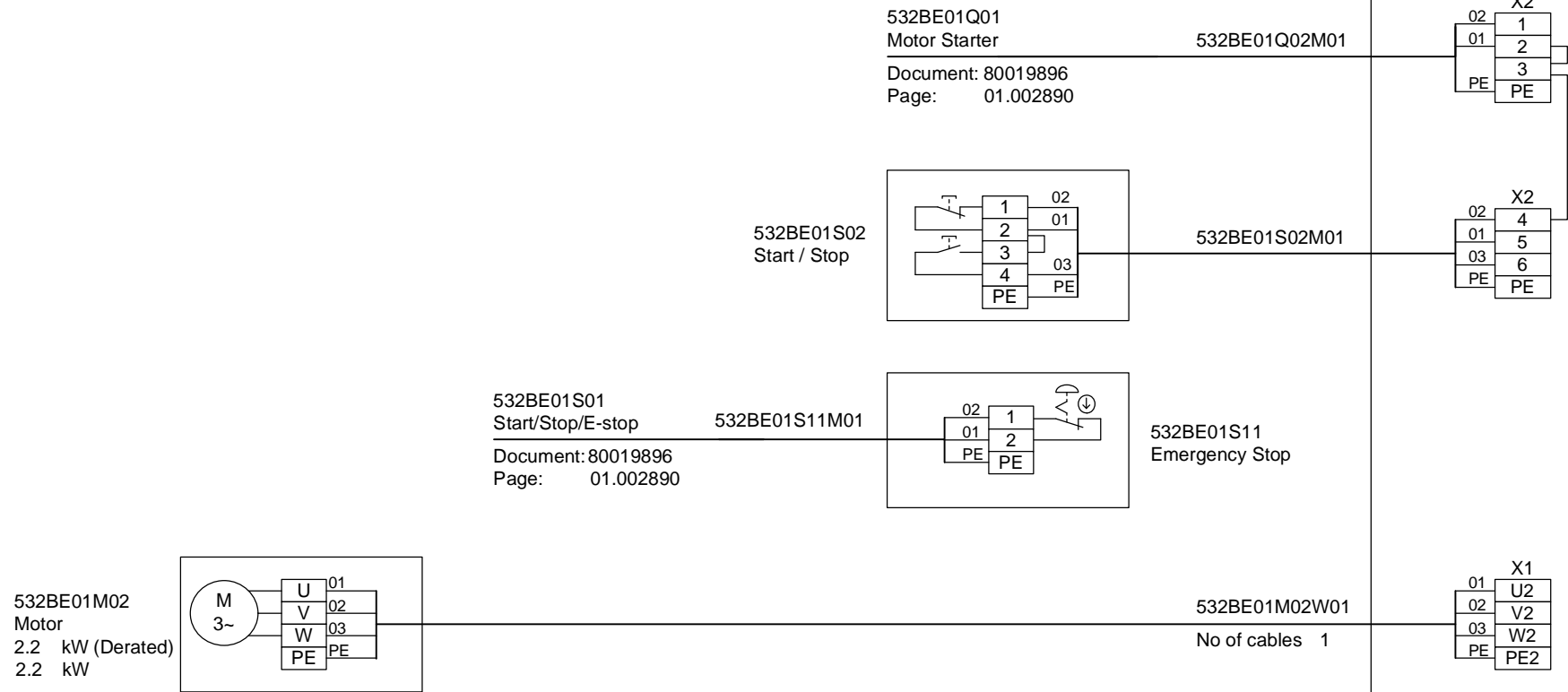
532BE01M01W01

No of cables 1

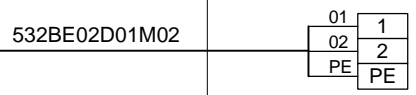
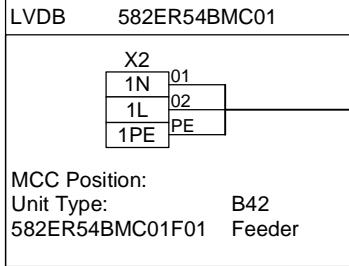
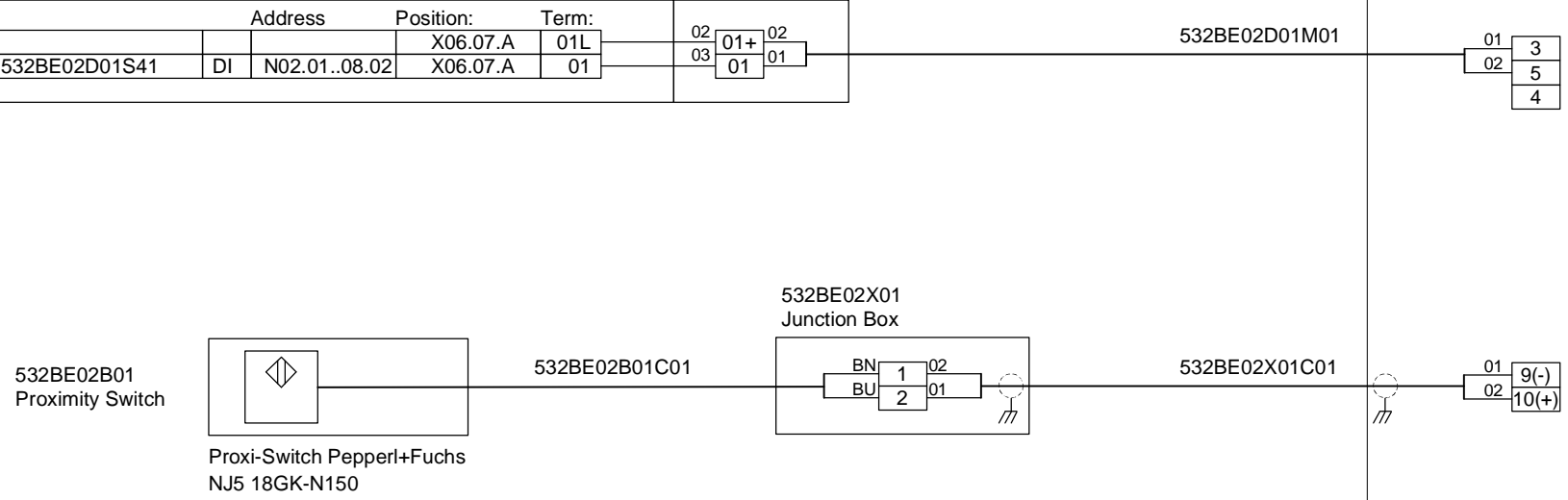


MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP4
Node: MCC/MDB 1.024
532BE01Q01
Motor Starter

LVDB 582ER54AMC01



Position:
 Unit Conn. Type: B01 - NO
 Net: 530LG01:DP4
 Node: MCC/MDB 1.025
 532BE01Q02 Motor Starter

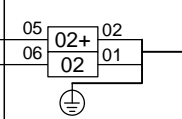


532BE02D01
 Motion Detector

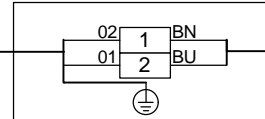
530LG01A03

	Address	Position:	Term:
220 VAC		X06.07.A	02L
Sway Max	532BE02D02Z41	DI N02.01..08.03	X06.07.A 02

301JB110X07



532BE02X02
Junction Box



532BE02X02M01

532BE02D02M01

Telemecanique
Proximity Switch
XS630B1MAL2



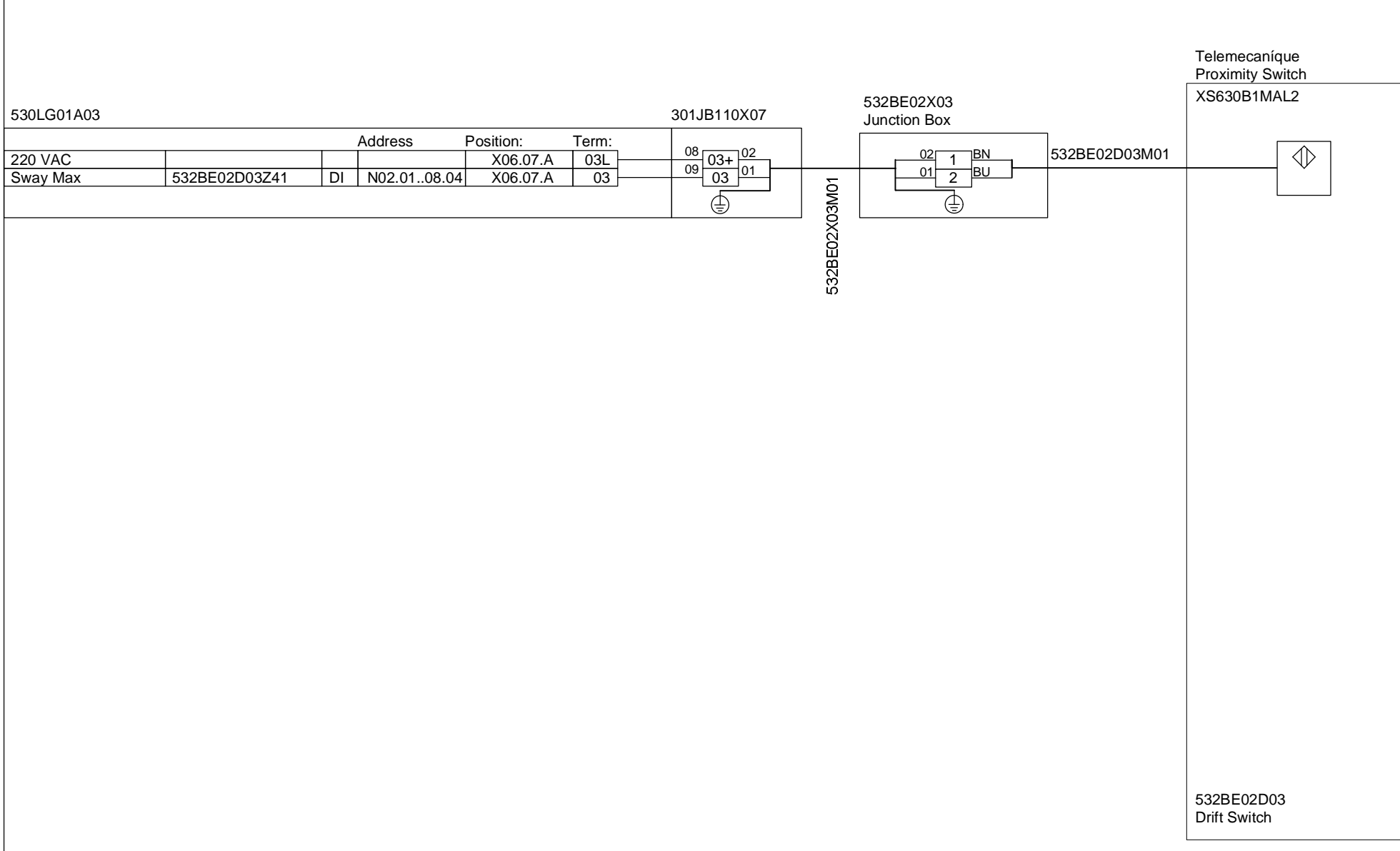
532BE02D02
Drift Switch



532BE02D02 Bucket Elevator
Drift Switch

80019896

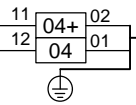
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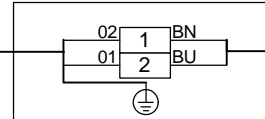
530LG01A03

	Address	Position:	Term:
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Sway Max	532BE02D04Z41	DI N02.01..08.05	X06.07.A 04

301JB110X07



532BE02X04
Junction Box



532BE02X04M01

532BE02D04M01

Telemecanique
Proximity Switch
XS630B1MAL2



532BE02D04
Drift Switch



532BE02D04 Bucket Elevator
Drift Switch

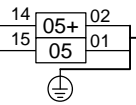
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01.002940

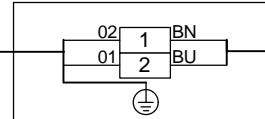
530LG01A03

	Address	Position:	Term:
220 VAC		X06.07.A	05L
Sway Max	532BE02D05Z41	DI N02.01..08.06	X06.07.A 05

301JB110X07



532BE02X05
Junction Box



532BE02X05M01

532BE02D05M01

Telemecanique
Proximity Switch
XS630B1MAL2



532BE02D05
Drift Switch

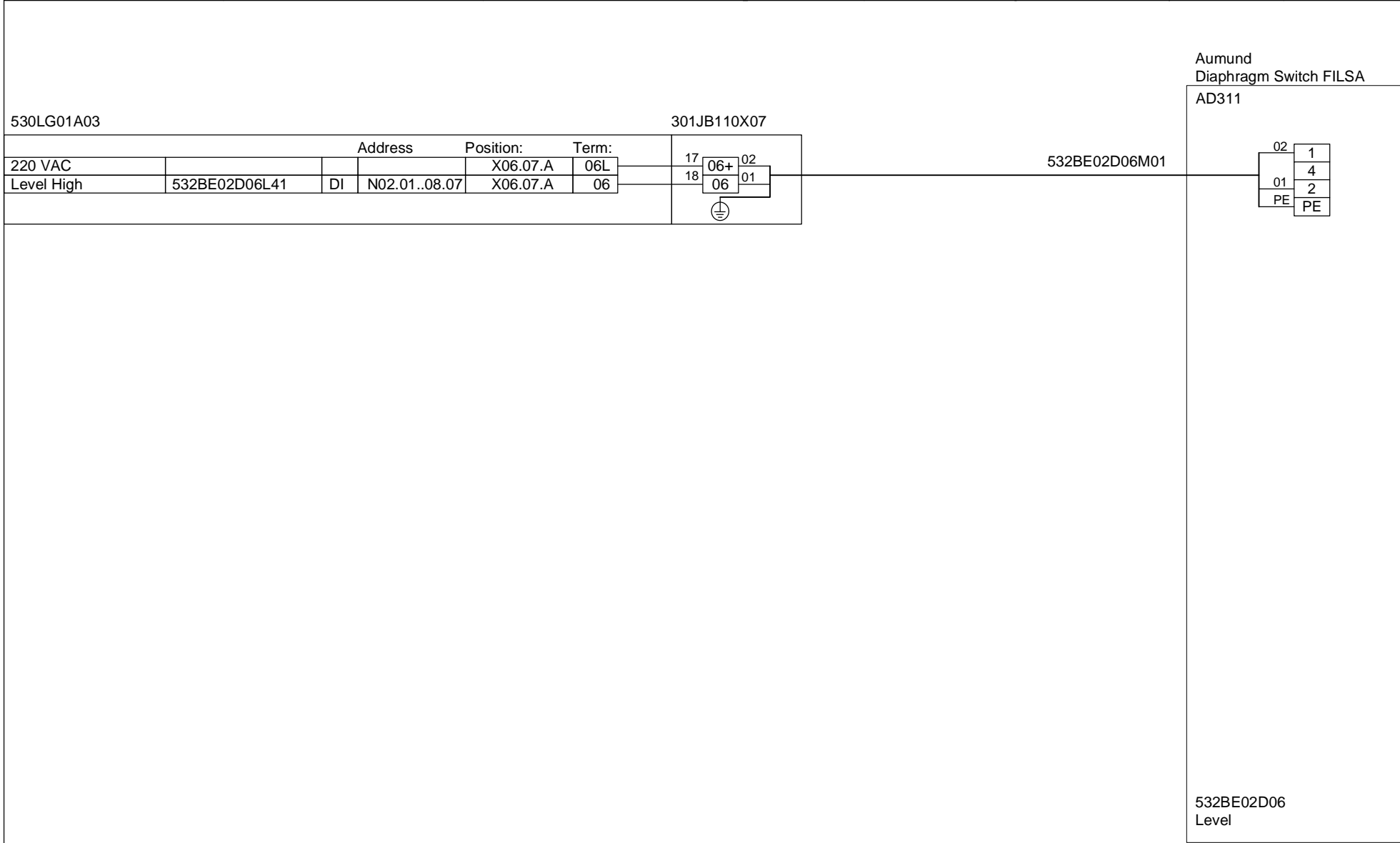


532BE02D05 Bucket Elevator
Drift Switch

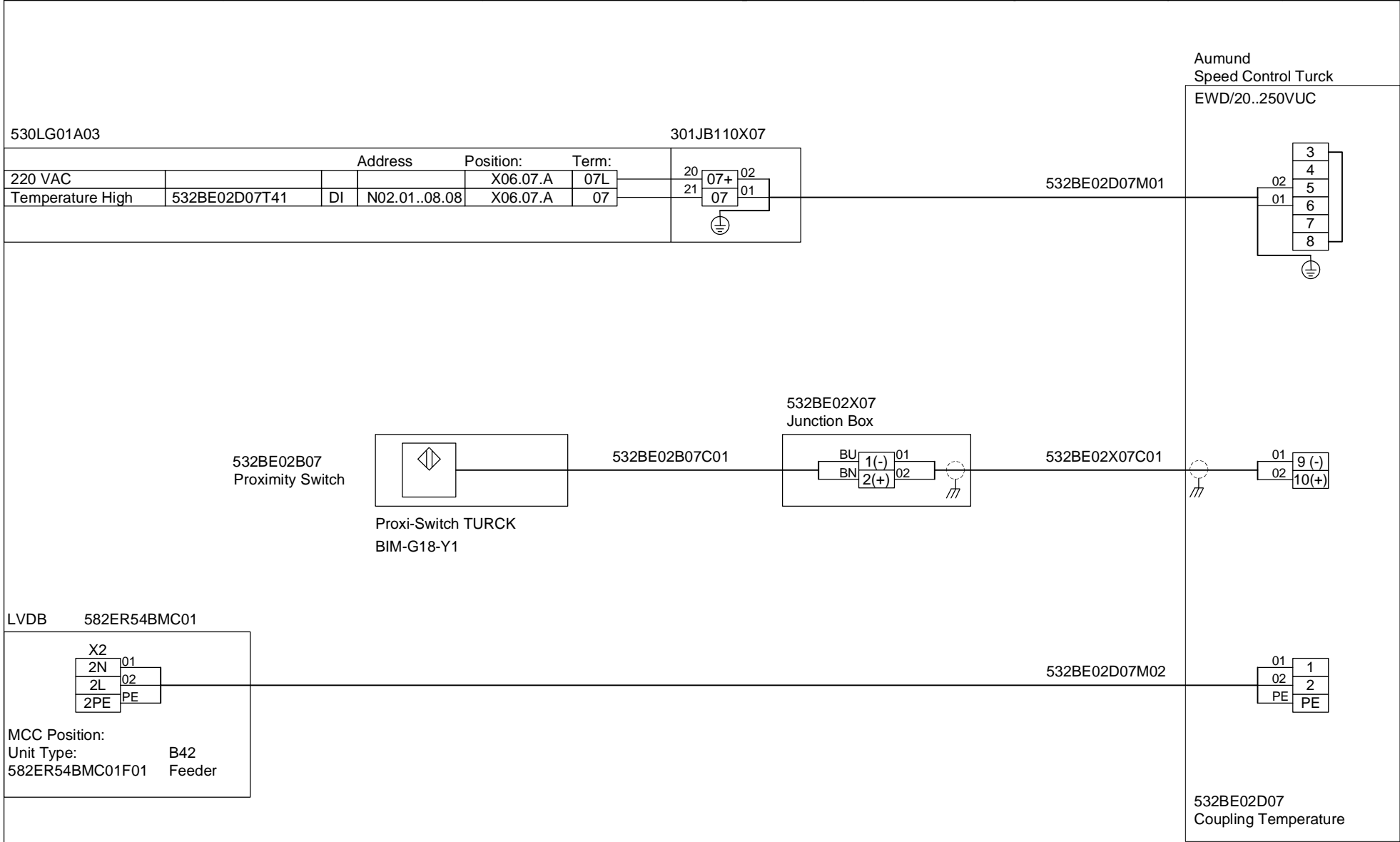
80019896

01.002950

Tonasa	DL Aumund AD311	DL Aumund AD311	-	4/9/2010 11:28:34 AM	1/27/2012 10:37:11 AM	Customer	A2
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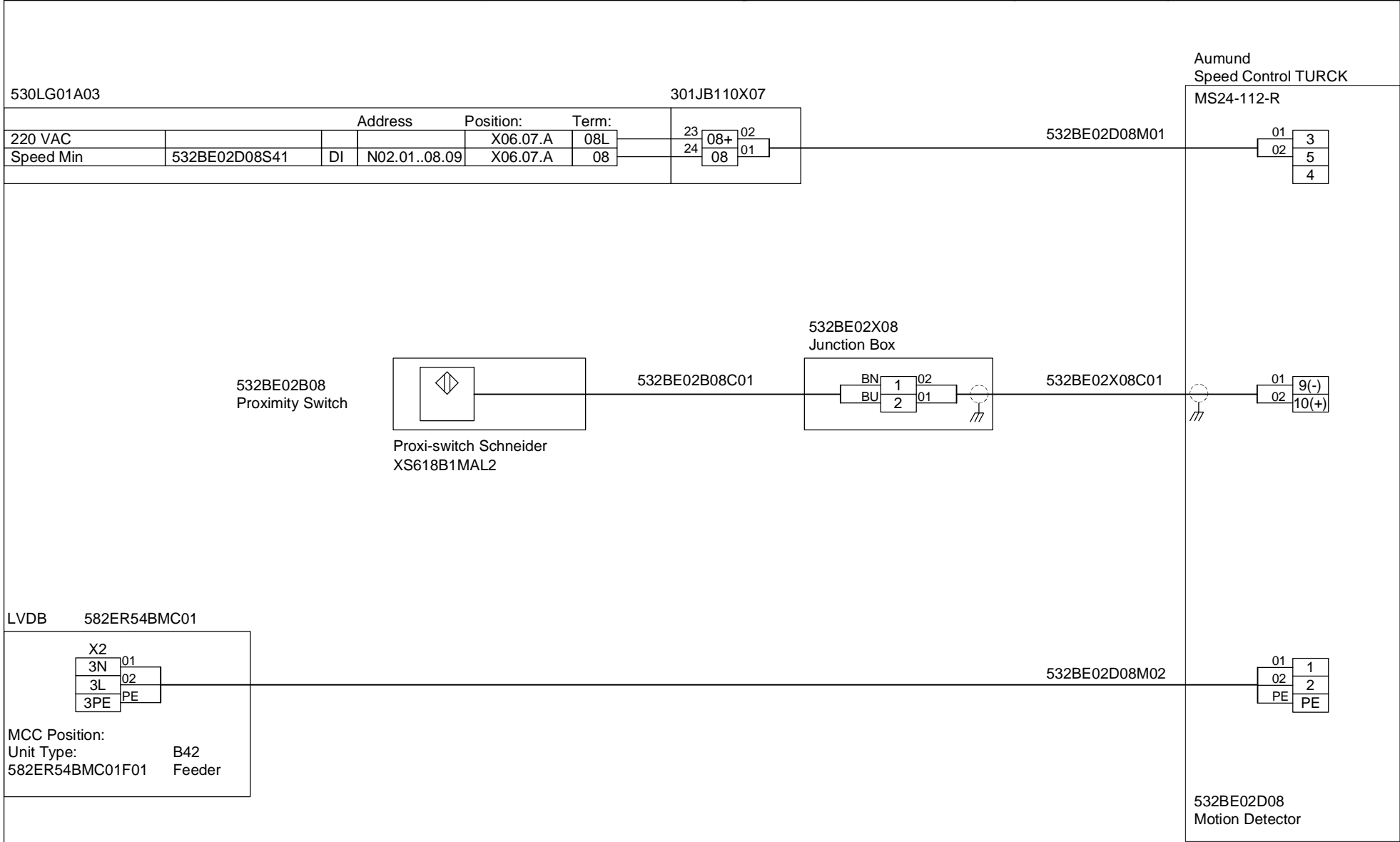
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LVDB 582ER54BMC01

X2	
2N	01
2L	02
2PE	PE

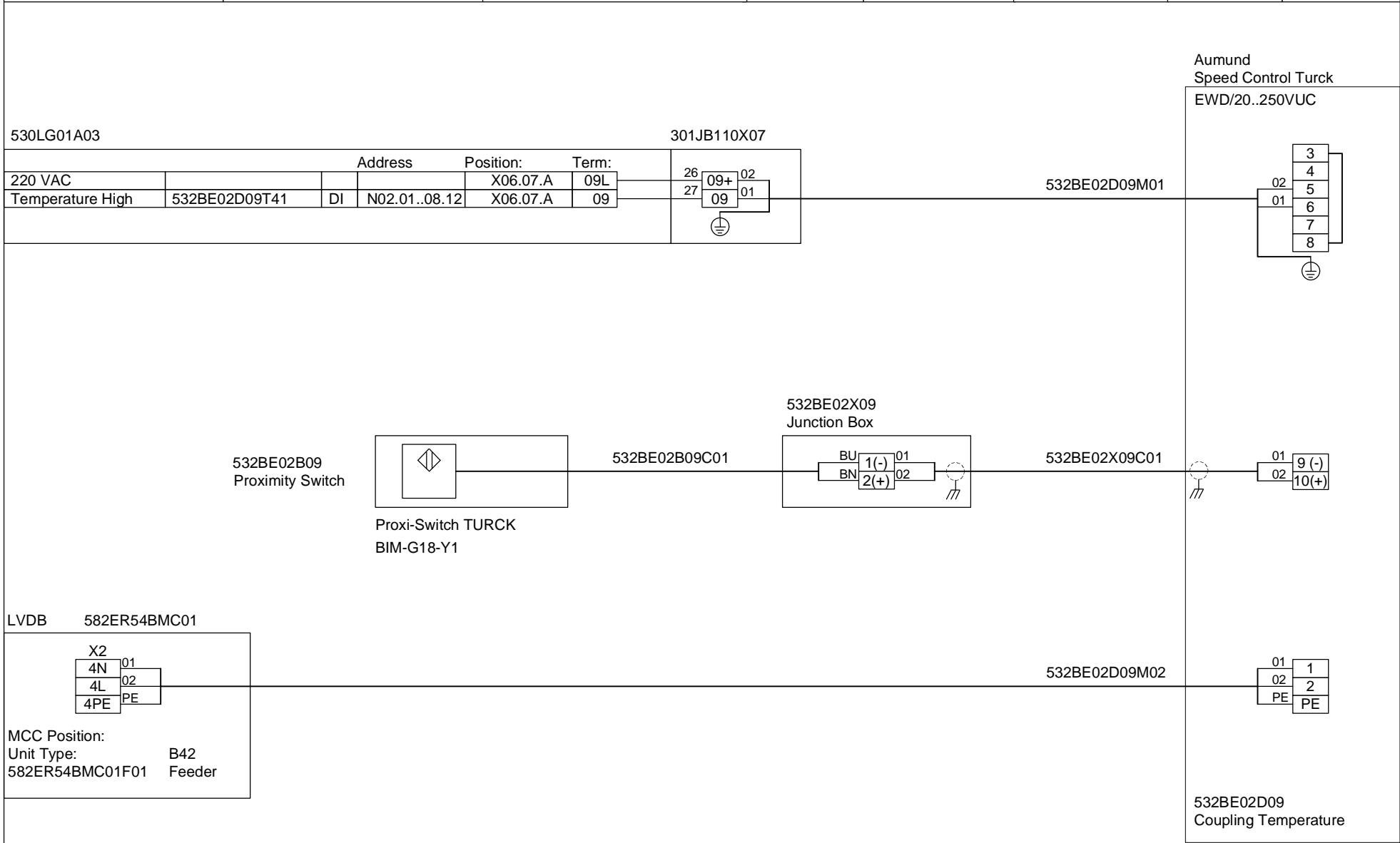
MCC Position:
Unit Type: B42
582ER54BMC01F01 Feeder



LVDB 582ER54BMC01

X2	
3N	01
3L	02
3PE	PE

MCC Position:
Unit Type: B42
582ER54BMC01F01 Feeder

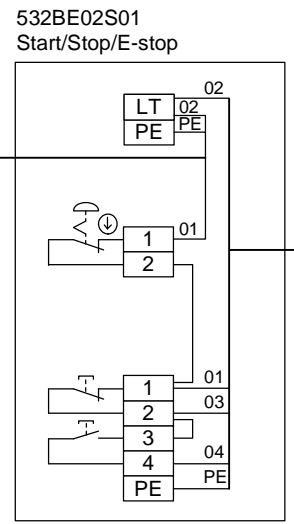


LVDB 582ER54BMC01

X2	
4N	01
4L	02
4PE	PE

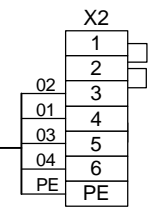
MCC Position:
Unit Type: B42
582ER54BMC01F01 Feeder

LVDB 582ER54BMC01



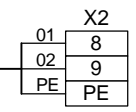
532BE02S11
Emergency Stop 532BE02S11M01
Document: 80019896
Page: 01.003010

532BE02S01M01

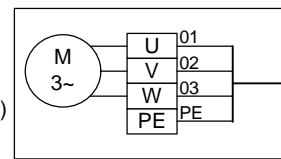


532BE02Q02
Motor Starter
Document: 80019896
Page: 01.003010

341BE050Q02M01

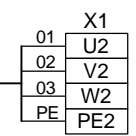


532BE02M01
Motor
193 kW (Derated)
200 kW

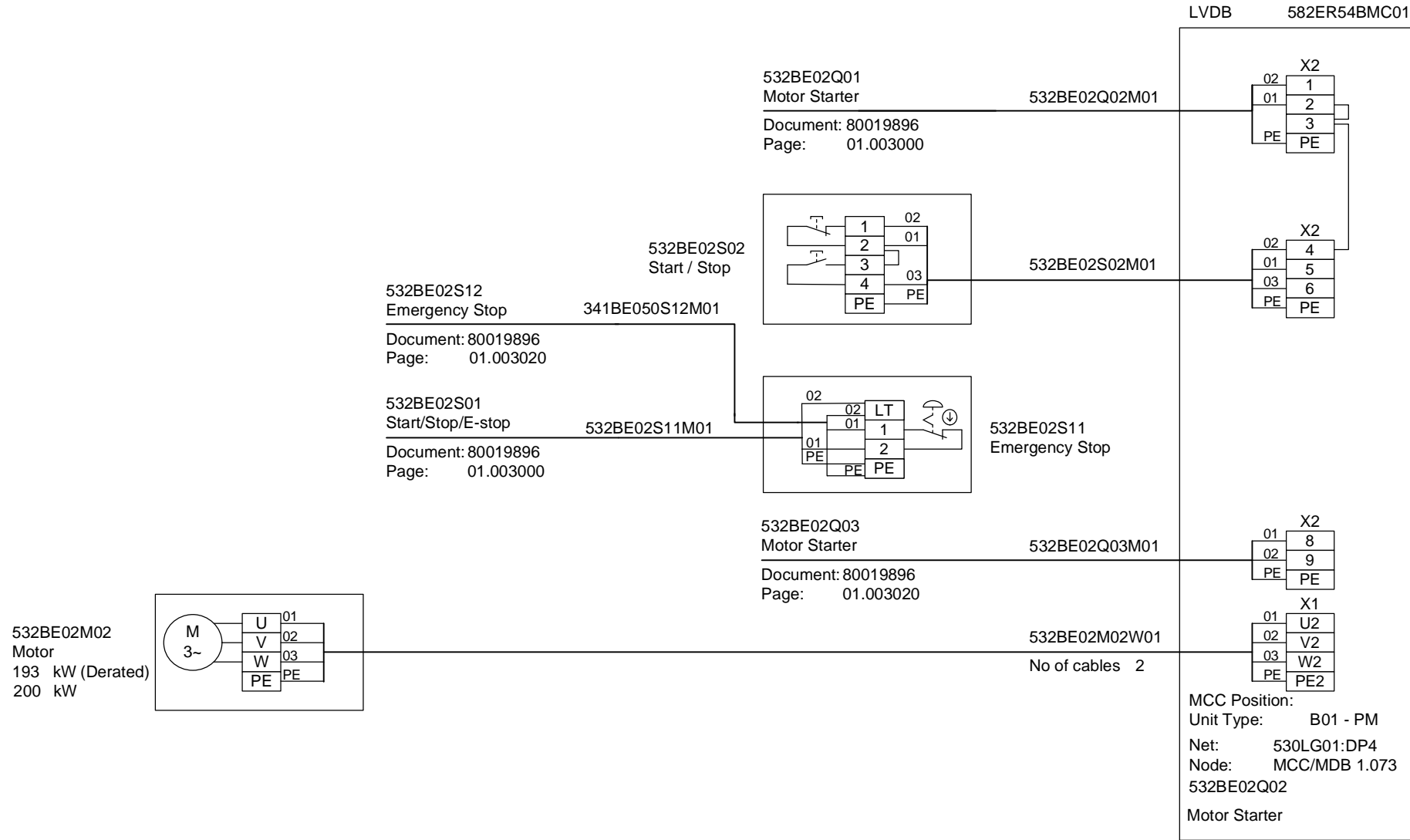


532BE02M01W01

No of cables 2



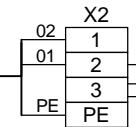
MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP4
Node: MCC/MDB 1.072
532BE02Q01
Motor Starter



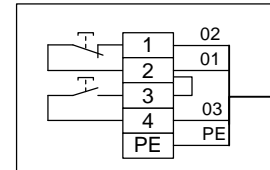
LVDB 582ER54BMC01

532BE02Q02
Motor Starter
Document: 80019896
Page: 01.003010

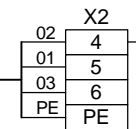
532BE02Q03M01



532BE02S03
Start / Stop

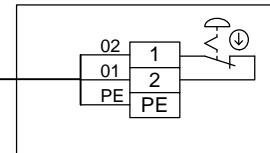


532BE02S03M01



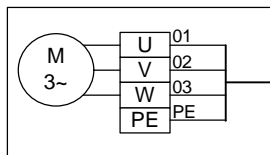
532BE02S11
Emergency Stop
Document: 80019896
Page: 01.003010

532BE02S12M01



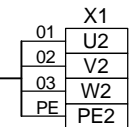
532BE02S12
Emergency Stop

532BE02M03
Motor
4 kW (Derated)
4 kW



532BE02M03W01

No of cables 1



Position:
Unit Conn. Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.074
532BE02Q03 Motor Starter

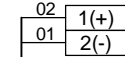
530LG01A02

301JB100X05

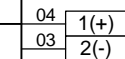
	Address	Position:	Term:	02	01+	02
+24 VDC			X05.05.A	01	01	01
Winding Temp. -U	532BE02N21T01	AI	N02.02..08.02	X05.05.A	01	01
+24 VDC			X05.05.A	02+	04	04
Winding Temp. -V	532BE02N22T01	AI	N02.02..08.04	X05.05.A	02	03
+24 VDC			X05.05.A	03+	06	06
Winding Temp. -W	532BE02N23T01	AI	N02.02..08.06	X05.05.A	03	05

ABB
TMT 182

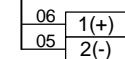
Temperature Transmitter
U



V



W



532BE02N21C01

Range: 0 - 200 °C

532BE02N21
Temperature



532BE02N21

Bucket Elevator Motor-1 Winding
Temperature

80019896

01.003030

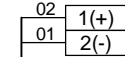
530LG01A02

301JB100X05

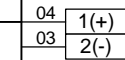
	Address	Position:	Term:	08	04+	02
+24 VDC			X05.05.A	04+	01	
Winding Temp. -U	532BE02N24T01	AI	N02.02..08.08	X05.05.A	04	01
+24 VDC			X05.05.A	05+	04	
Winding Temp. -V	532BE02N25T01	AI	N02.02..08.12	X05.05.A	05	03
+24 VDC			X05.05.A	06+	06	
Winding Temp. -W	532BE02N26T01	AI	N02.02..08.14	X05.05.A	06	05

ABB
TMT 182

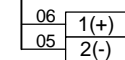
Temperature Transmitter
U



V



W



532BE02N24C01

Range: 0 - 200 °C

532BE02N24
Temperature



532BE02N24

Bucket Elevator Motor-2 Winding
Temperature

80019896

01.003040

530LG01A03

301JB110X02

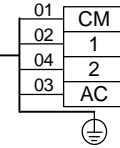
FLSmidth
CE-X-15

JETCON M01

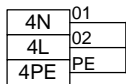
	Address	Position:	Term:	
0/220 VAC		X06.02.A	18N	52 18- 01
220 VAC		X06.02.A	10L	29 10+ 02
Command	532BF01A01C31	DO N02.01..06.13	X06.02.A 18	51 18 03
Pressure Max	532BF01A01P41	DI N02.01..04.33	X06.02.A 10	30 10 04

⊕

532BF01A01M01

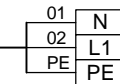


LVDB 582ER54AMC01



MCC Position
Unit Conn. Type B42
582ER54AMC01F01 Feeder

532BF01A01M02



532BF01A01
Control Panel



532BF01A01

Bag Filter
Control Panel

80019896

01.003050

530LG01A03

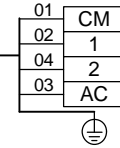
301JB110X04

FLSmidth
CE-X-10

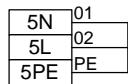
JETCON M01

	Address	Position:	Term:	
0/220 VAC		X06.04.A	17N	50 17- 01
220 VAC		X06.04.A	01L	02 01+ 02
Command	532BF02A01C31	DO	N02.01..06.32	49 17 03
Pressure Max	532BF02A01P41	DI	N02.01..05.22	03 01 04

532BF02A01M01

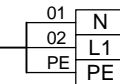


LVDB 582ER54AMC01



MCC Position
Unit Conn. Type B42
582ER54AMC01F01 Feeder

532BF02A01M02



532BF02A01
Control Panel



532BF02A01

Bag Filter
Control Panel

80019896

01.003060

530LG01A03

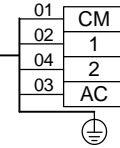
301JB110X04

FLSmidth
CE-X-10

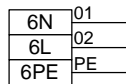
JETCON M01

	Address	Position:	Term:	
0/220 VAC		X06.04.A	18N	52 18- 01
220 VAC		X06.04.A	02L	05 02+ 02
Command	532BF03A01C31	DO N02.01..06.33	X06.04.A	18 03
Pressure Max	532BF03A01P41	DI N02.01..05.23	X06.04.A	06 02 04

532BF03A01M01

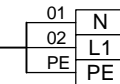


LVDB 582ER54AMC01



MCC Position
Unit Conn. Type B42
582ER54AMC01F01 Feeder

532BF03A01M02



532BF03A01
Control Panel



532BF03A01

Bag Filter
Control Panel

80019896

01.003070

530LG01A03

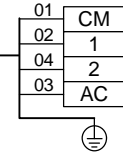
301JB110X04

FLSmidth
IN-54V

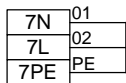
5.019253

	Address	Position:	Term:	
0/220 VAC		X06.04.A	19N	54 19- 01
220 VAC		X06.04.A	03L	08 03+ 02
Command	532BF04A01C31	DO N02.01..06.34	X06.04.A	19 19 03
Pressure Max	532BF04A01P41	DI N02.01..05.24	X06.04.A	09 03 04

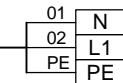
532BF04A01M01



LVDB 582ER54AMC01



532BF04A01M02



MCC Position
Unit Conn. Type B42
582ER54AMC01F01 Feeder

532BF04A01
Control Panel



532BF04A01

Bag Filter
Control Panel

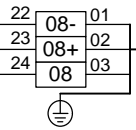
80019896

01.003080

530LG01A03

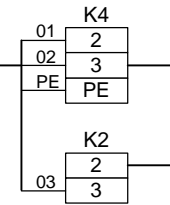
301JB110X03

	Address	Position:	Term:	
0/220 VAC		X06.03.A	08N	22
220 VAC		X06.03.A	08L	23
Level Max	532BI01D01L41	DI	N02.01..05.09	24
		X06.03.A	08	



532BI01D01M01

Siemens
Pointek CLS300
7ML5510-2AF40-2AA0



532BI01D01
Level Switch

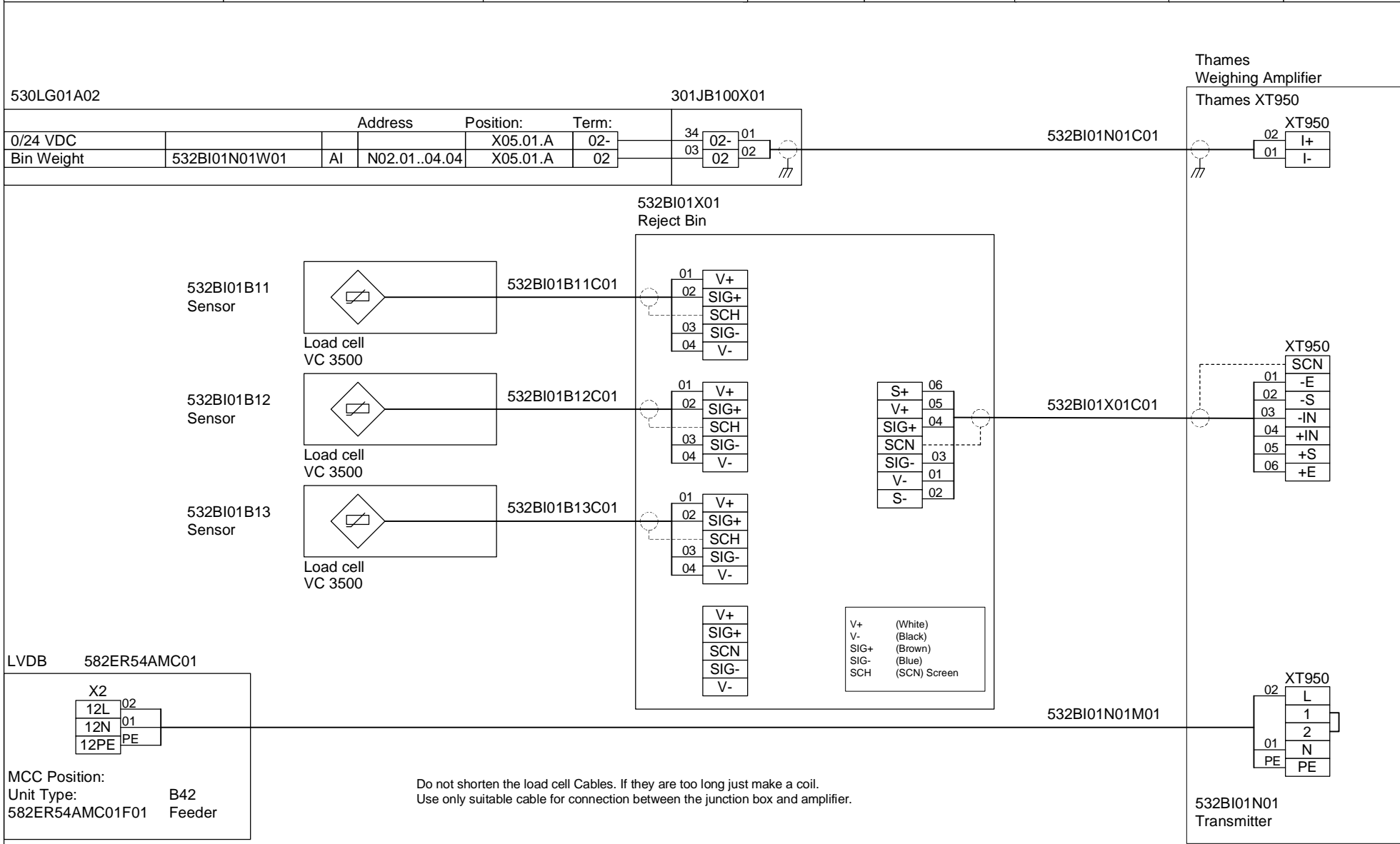


532BI01D01

Reject Bin
Level Switch

80019896

01.003090



Tonasa	A Crane/Hoist	Cranes / Hoist	-	7/1/2010 1:11:00 PM	1/27/2012 10:37:23 AM	Customer	A2
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Customer
Supply

LVDB 582ER54AMC02

X0	
U2	01
V2	02
W2	03
PE2	.

MCC Position:
Type: 532CA01Q01 B32
Power Feeder

532CA01Q01W01

No of cables 1

01	U1
02	V1
03	W1
.	PE1

532CA01A01
Cabinet



532CA01A01

Overhead Crane
Cabinet

80019896

01.003110

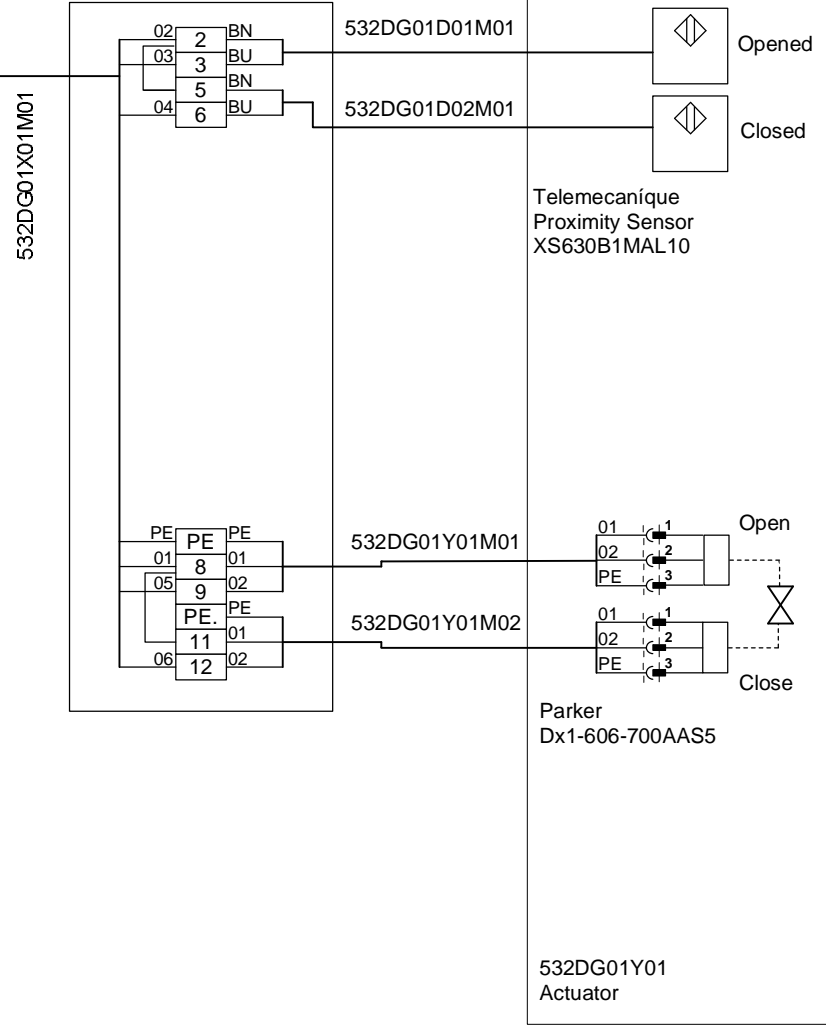
530LG01A03

301JB110X02

	Address	Position:	Term:		
0/220 VAC			X06.02.A	19N	54 19- 01
220 VAC			X06.02.A	11L	32 11+ 02
Open	532DG01Y01Z41	DI	N02.01..04.34	X06.02.A	11 03
Closed	532DG01Y01Z42	DI	N02.01..04.35	X06.02.A	12 04
Command	532DG01Y01C31	DO	N02.01..06.14	X06.02.A	19 05
Command	532DG01Y01C32	DO	N02.01..06.15	X06.02.A	20 06

532DG01X01
Junction Box

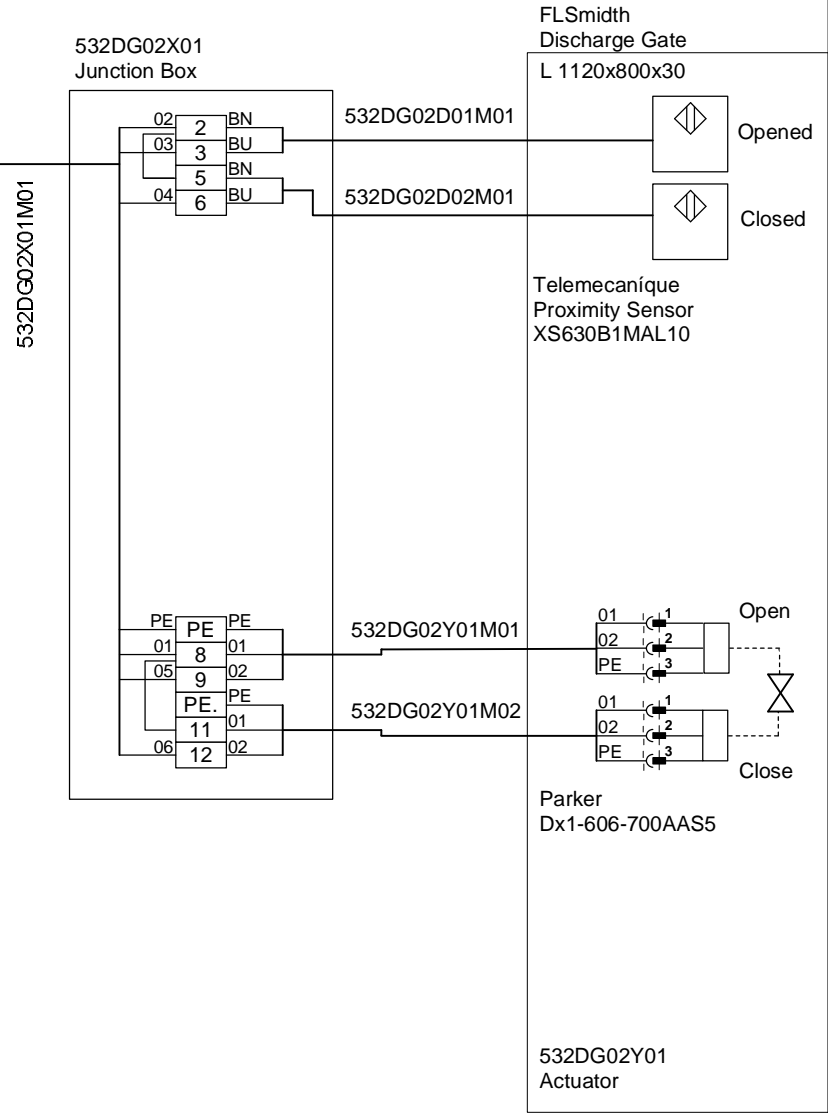
FLSmidth
Discharge Gate
L 1400x800x30

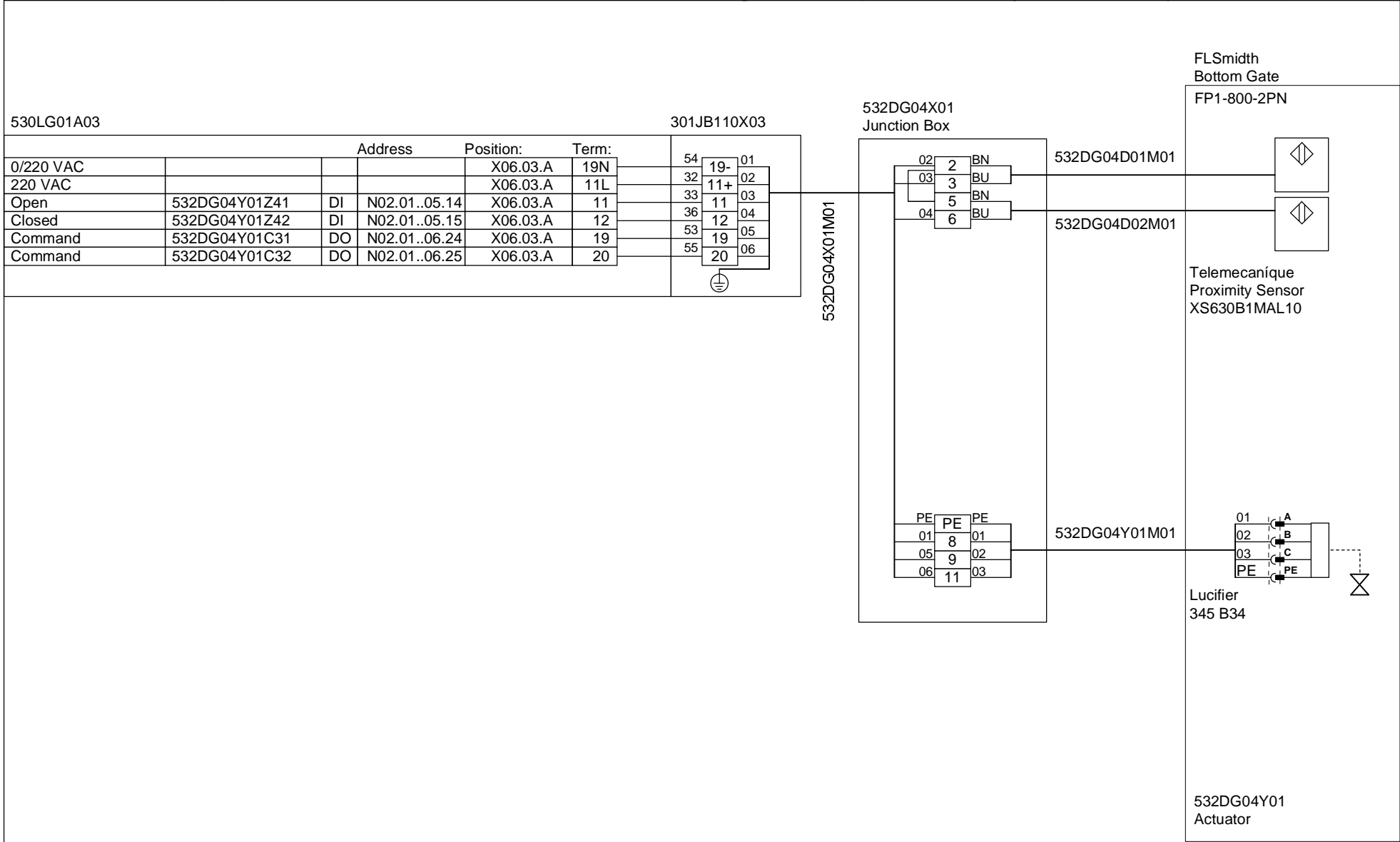


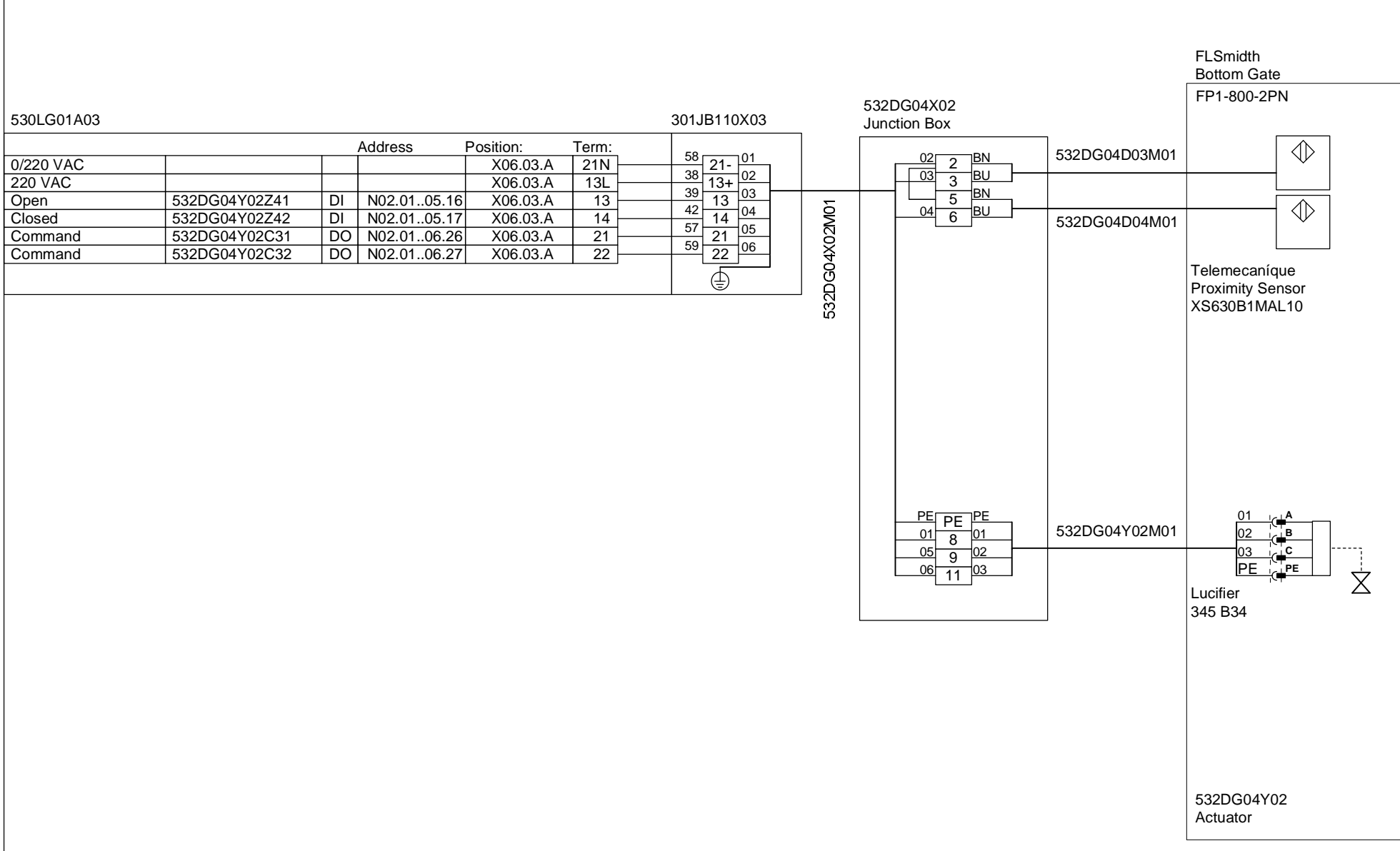
530LG01A03

301JB110X03

	Address	Position:	Term:	50	17-	01
0/220 VAC			X06.03.A	17N	01	02
220 VAC			X06.03.A	09L	09+	03
Open	532DG02Y01Z41	DI	N02.01..05.12	X06.03.A	09	04
Closed	532DG02Y01Z42	DI	N02.01..05.13	X06.03.A	10	05
Command	532DG02Y01C31	DO	N02.01..06.22	X06.03.A	17	06
Command	532DG02Y01C32	DO	N02.01..06.23	X06.03.A	18	06





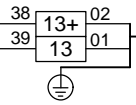


Tonasa	DZ Z4VH 336-11z	DZ Z4VH 336-11z	-	6/8/2010 1:41:57 PM	1/27/2012 10:37:26 AM	Customer	A2
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530LG01A03

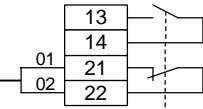
301JB110X07

	Address	Position:	Term:
220 VAC		X06.07.A	13L
Distributor Pos. OK	532DI02D01Z41	DI N02.01..08.16	X06.07.A 13



532DI02D01M01

Schmersal
Position Switch
Z4VH 336-11z



Pos. A | Pos. C
Pos. B

532DI02D01
Limit Switch



532DI02D01

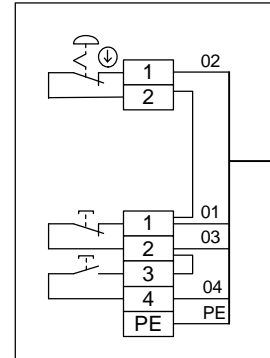
Air Distributor
Limit Switch

80019896

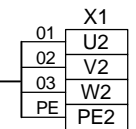
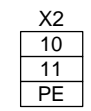
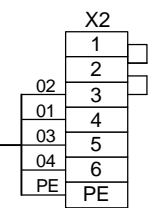
01.003160

LVDB 582ER54BMC01

532DI02S01
Start/Stop/E-stop



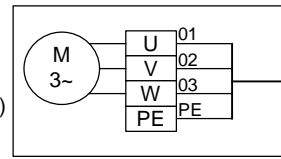
532DI02S01M01



532DI02M01W01

No of cables 1

532DI02M01
Motor
0.06 kW (Derated)
0.06 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.075
532DI02Q01
Motor Starter



532DI02M01 Air Distributor Motor

80019896 01.003170

Tonasa	A Crane/Hoist	Cranes / Hoist	-	3/15/2010 5:23:50 AM	1/27/2012 10:37:28 AM	Customer	A2
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Munck
Electric Hoist

LVDB 582ER54AMC02

X0	
U2	01
V2	02
W2	03
PE2	PE

MCC Position:
Type: 532EH01Q01 B32
Power Feeder

532EH01Q01W01

No of cables 1

01	U1
02	V1
03	W1
PE	PE1

532EH01A01
Cabinet



532EH01A01 Electrical Hoist (RM)
Cabinet

80019896

01.003180

Tonasa	A Crane/Hoist	Cranes / Hoist	-	7/1/2010 1:18:27 PM	1/27/2012 10:37:28 AM	Customer	A2
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Customer
Supply

LVDB 582ER54AMC02

X0	
U2	01
V2	02
W2	03
PE2	.

MCC Position:
Type: 532EH02Q01 B32
Power Feeder

532EH02Q01W01

No of cables 1

01	U1
02	V1
03	W1
.	PE1

532EH02A01
Cabinet



532EH02A01

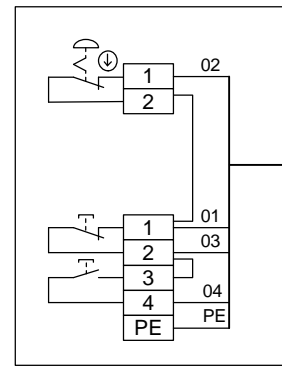
Electrical Hoist (BE)
Cabinet

80019896

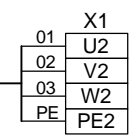
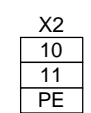
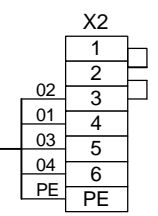
01.003190

LVDB 582ER54AMC02

532FN01S03
Start/Stop/E-stop



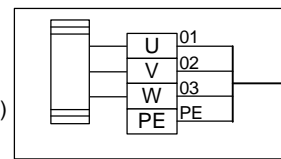
532FN01S03M01



532FN01E03W01

No of cables 1

532FN01E03
Heating Element
0.54 kW (Derated)
0.54 kW



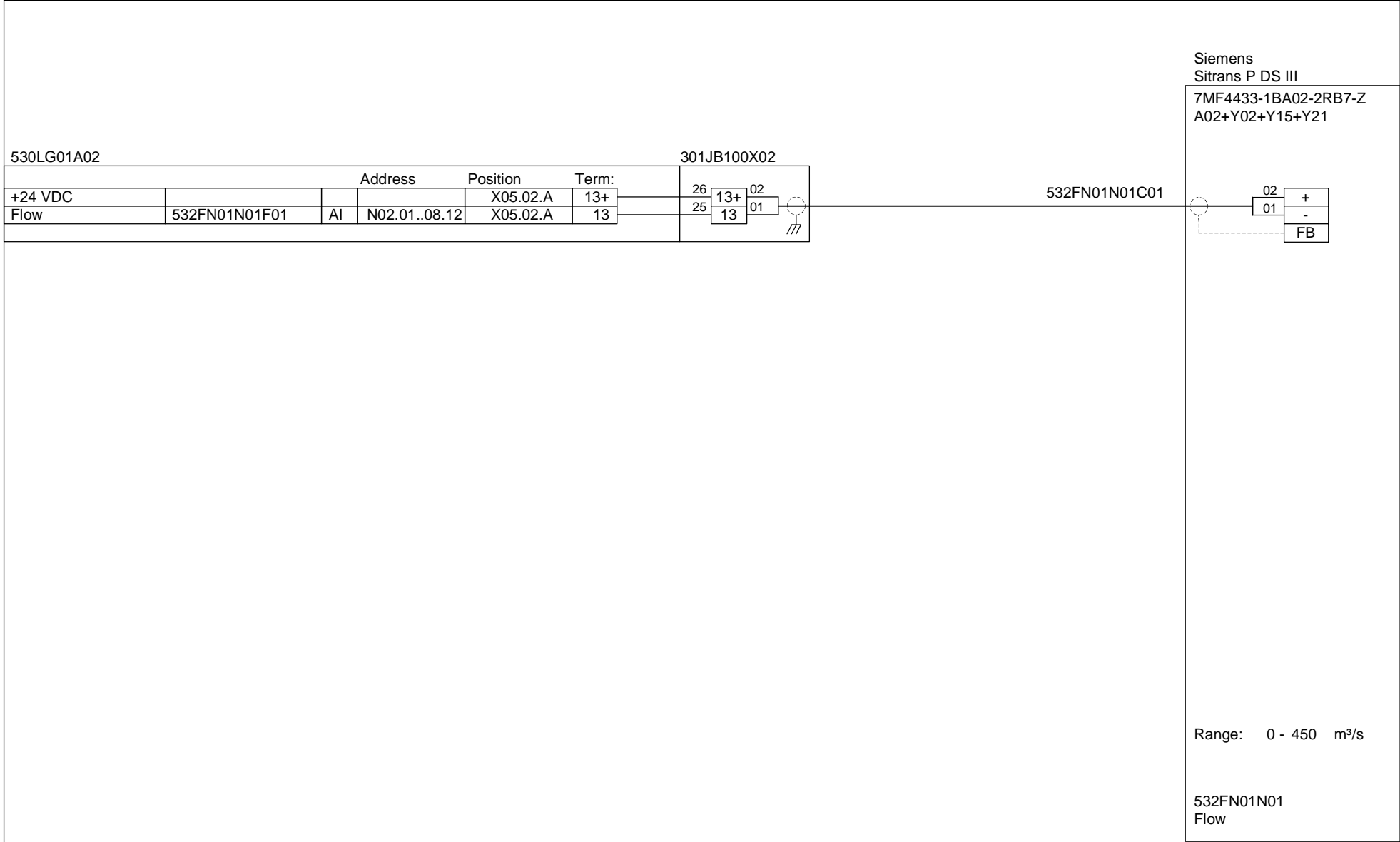
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.036
532FN01Q03
Motor Starter



532FN01E03 RM Fan Space Heater Heating Element

80019896 01.003200

Tonasa	NP Sitrans P DS III, 7MF4433 - LD	NP Sitrans P DS III, 7MF4433 - LD	-	5/13/2010 10:15:45 AM	1/27/2012 10:37:30 AM	Customer	A2
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	532FN01N01	Raw Mil Fan Flow	80019896	01.003210
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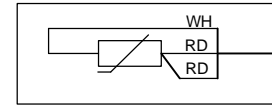
530LG01A02

301JB100X02

Brdr. Jørgensen Inst.
Siemens TH300
B92.0000.0Z

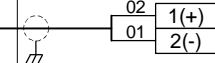
	Address	Position:	Term:
+24 VDC		X05.02.A	02+
Temperature	532FN01N11T01	AI N02.01..07.04	X05.02.A 02

532FN01B11
Sensor

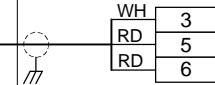


Pt100 RTD

532FN01N11C01



532FN01B11C01



Range 0 - 150 °C

532FN01B11
Sensor

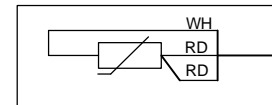
530LG01A02

301JB100X02

Brdr. Jørgensen Inst.
Siemens TH300
B92.0000.0Z

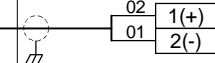
	Address	Position:	Term:
+24 VDC		X05.02.A	03+
Temperature	532FN01N12T01	AI N02.01..07.06	X05.02.A 03

532FN01B12
Sensor

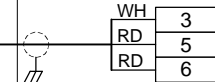


Pt100 RTD

532FN01N12C01

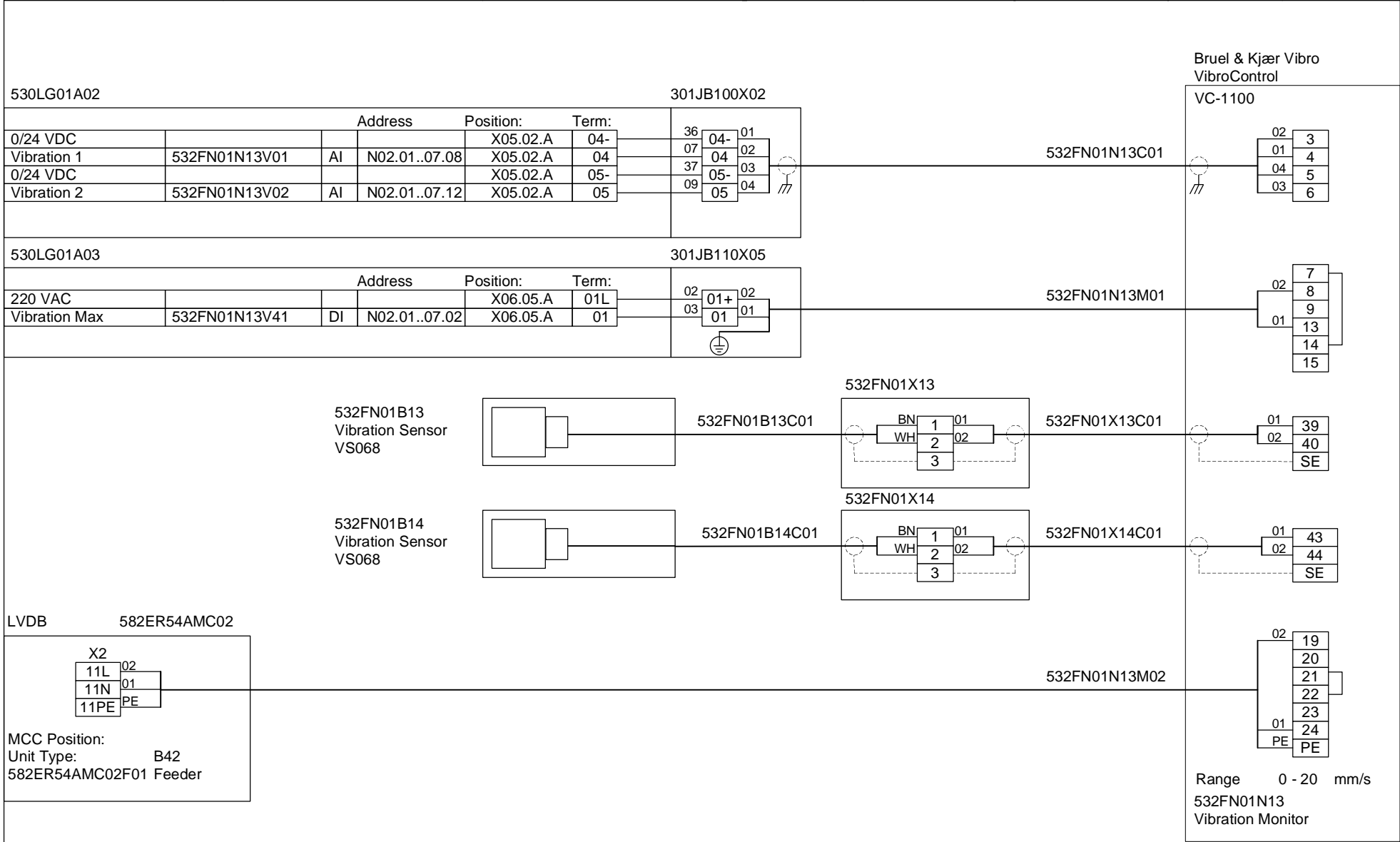


532FN01B12C01



Range 0 - 150 °C

532FN01B12
Sensor



LVDB **582ER54AMC02**

X2	02
11L	01
11N	PE
11PE	

MCC Position:
Unit Type: B42
582ER54AMC02F01 Feeder

Tonasa	NT E&H TMT 182 - 5 Nos	NT E&H TMT 182 - 5 Nos	-	4/7/2010 10:14:36 AM	1/27/2012 10:37:32 AM	Customer	A2
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530LG01A02

301JB100X02

	Address	Position:	Term:			
+24 VDC			X05.02.A	06+	12	02
Temp. Winding U	532FN01N21T01	AI	N02.01..07.14	X05.02.A	11	01
+24 VDC			X05.02.A	07+	14	04
Temp. Winding V	532FN01N22T01	AI	N02.01..07.16	X05.02.A	13	03
+24 VDC			X05.02.A	08+	16	06
Temp. Winding W	532FN01N23T01	AI	N02.01..07.18	X05.02.A	15	05
+24 VDC			X05.02.A	09+	18	08
Temp. DE Bearing	532FN01N24T01	AI	N02.01..08.02	X05.02.A	17	07
+24 VDC			X05.02.A	10+	20	10
Temp. NDE Bearing	532FN01N25T01	AI	N02.01..08.04	X05.02.A	19	09

Endress & Hauser
Temperature Transmitter
iTemp PCP TMT 182

532FN01N21C01

Winding U

02	1+
01	2-

Winding V

04	1+
03	2-

Winding W

06	1+
05	2-

DE Bearing

08	1+
07	2-

NDE Bearing

10	1+
09	2-

Range: 0 - 200 °C

532FN01N21
Temperature



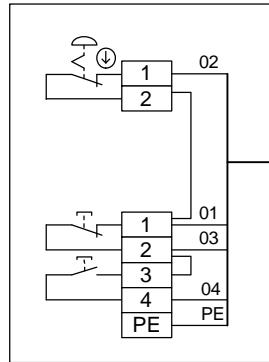
532FN01N21

Raw Mil Fan
Temperature

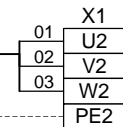
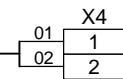
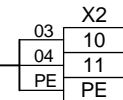
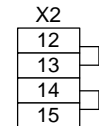
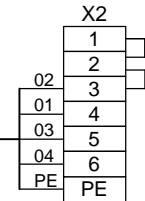
80019896

01.003250

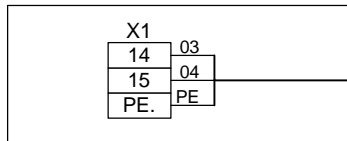
532FN01S01
Start/Stop/E-stop



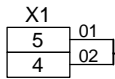
MVDB 582ER54



532FN01R01
Rotor Starter



532FN01R01
Rotor Starter



Document: 80019896
Page: 01.003280

Document: 80019896
Page: 01.003280

532FN01S01M01

532FN01R01M01

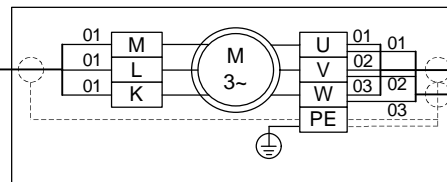
532FN01R01C01

532FN01R01
Rotor Starter

Document: 80019896
Page: 01.003280

321FN400R01H01

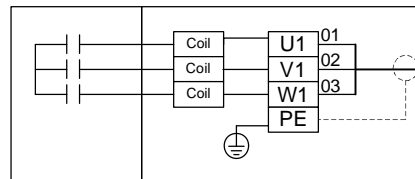
532FN01M01
Motor
7600 kW



532FN01M01H01

No of cables 3

532FN01C01
Capacitor Bank



532FN01C01H01

No of cables 1

MCC Position:
Unit Type: C01 NO
Net: 530LG01:DP3
Node: Field Device.044
532FN01Q01
Power Feeder

MVDB 582ER54

532MD02Q01
Power Feeder

532FN01Q01Y01

Document: 80019896
Page: 01.003970

X3	
GN	1
RD	2
SH	SH1

532MD01Q01
Power Feeder

532MD01Q01Y01

Document: 80019896
Page: 01.003930

X3	
GN	1.1
RD	2.1
SH	SH2

MCC Position:
Unit Type: C01 NO
Net: 530LG01:DP3
Node: Field Device.044
532FN01Q01
Power Feeder



532FN01Q01

Raw Mil Fan
Power Feeder

80019896

01.003270

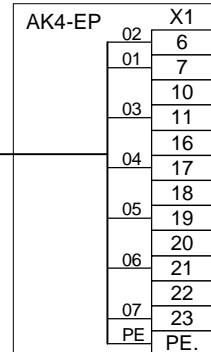
530LG01A03

301JB110X06

AKA
Rotor Starter

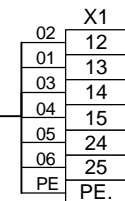
	Address	Position:	Term:
220 VAC		X06.06.A	01L
Unit Ready	532FN01R01C41	DI	N02.01..07.24 X06.06.A 03
Temperature Alarm >73°C	532FN01R01T41	DI	N02.01..07.26 X06.06.A 05
Temperature Alarm >85°C	532FN01R01T42	DI	N02.01..07.25 X06.06.A 04
General Warning	532FN01R01U42	DI	N02.01..07.27 X06.06.A 06
Starter In First Step	532FN01R01Z41	DI	N02.01..07.22 X06.06.A 01
Starter In Last Step	532FN01R01Z42	DI	N02.01..07.23 X06.06.A 02

532FN01R01M02



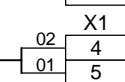
532FN01Q01
Power Feeder 532FN01R01M01

Document: 80019896
Page: 01.003260



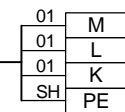
532FN01Q01
Power Feeder 532FN01R01C01

Document: 80019896
Page: 01.003260

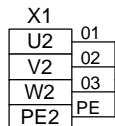


532FN01M01
Motor 532FN01R01H01

Document: 80019896 No of cables 15
Page: 01.003260



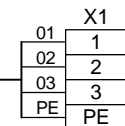
LVDB 582ER54AMC02



MCC Position:
Unit Type: B32
532FN01Q02 Feeder

532FN01Q02W01

No of cables 1



532FN01R01
Rotor Starter



532FN01R01

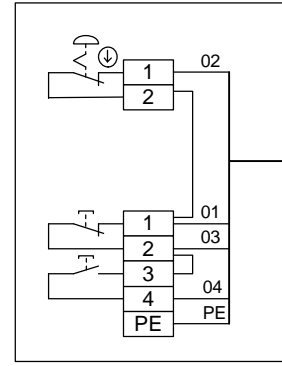
Raw Mil Fan
Rotor Starter

80019896

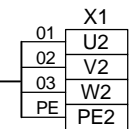
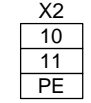
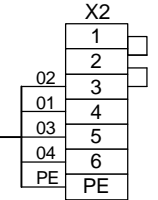
01.003280

LVDB 582ER54AMC02

532FN02S01
Start/Stop/E-stop



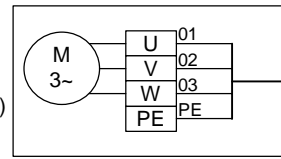
532FN02S01M01



532FN02M01W01

No of cables 1

532FN02M01
Motor
7.5 kW (Derated)
7.5 kW



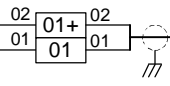
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.034
532FN02Q01
Motor Starter

530LG01A02

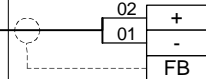
301JB100X02

Siemens
Sitrans P DS III
7MF4033-1BA00-2RB7-Z
A02+Y01+Y15+Y21

	Address	Position:	Term:
+24 VDC		X05.02.A	01+
Pressure	532FN02N01P01	N02.01..07.02	X05.02.A
			01



532FN02N01C01



Range 0 - 50 mbar

532FN02N01
Pressure



532FN02N01

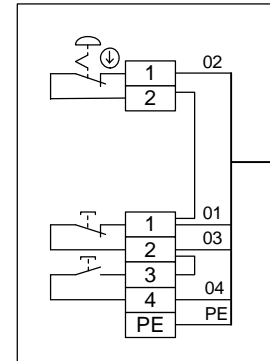
Sealing Air Fan
Pressure

80019896

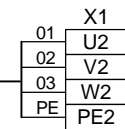
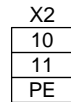
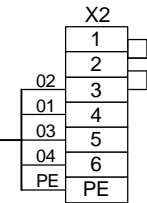
01.003300

LVDB 582ER54AMC02

532FN03S01
Start/Stop/E-stop



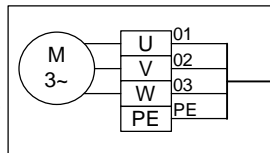
532FN03S01M01



532FN03M01W01

No of cables 1

532FN03M01
Motor
36 kW (Derated)
37 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.035
532FN03Q01
Motor Starter



532FN03M01

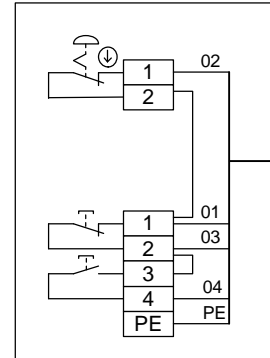
Filter Fan
Motor

80019896

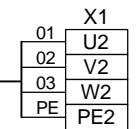
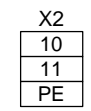
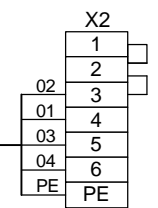
01.003310

LVDB 582ER54AMC02

532FN04S01
Start/Stop/E-stop



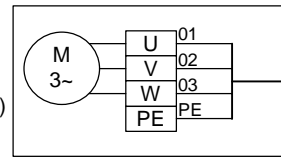
532FN04S01M01



532FN04M01W01

No of cables 1

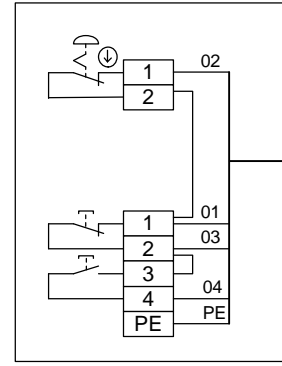
532FN04M01
Motor
14.5 kW (Derated)
15 kW



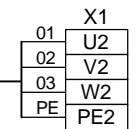
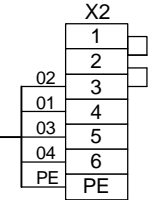
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.040
532FN04Q01
Motor Starter

LVDB 582ER54AMC02

532FN05S01
Start/Stop/E-stop



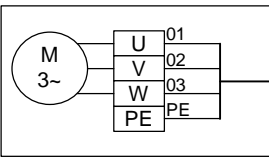
532FN05S01M01



532FN05M01W01

No of cables 1

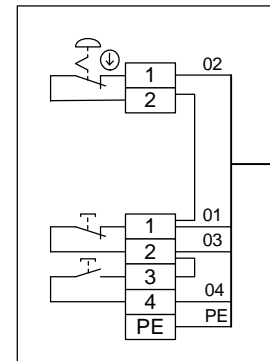
532FN05M01
Motor
4 kW (Derated)
4 kW



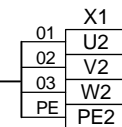
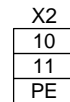
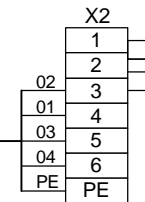
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.037
532FN05Q01
Motor Starter

LVDB 582ER54AMC02

532FN06S01
Start/Stop/E-stop



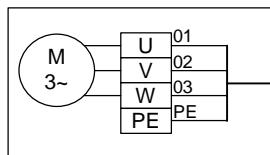
532FN06S01M01



532FN06M01W01

No of cables 1

532FN06M01
Motor
4 kW (Derated)
4 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.038
532FN06Q01
Motor Starter



532FN06M01

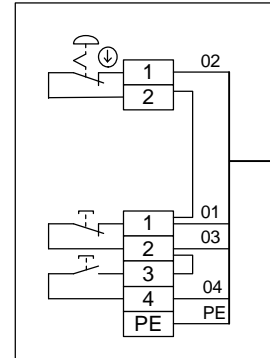
Fluxoslide Fan
Motor

80019896

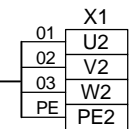
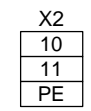
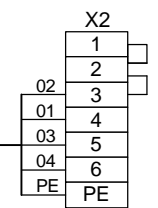
01.003340

LVDB 582ER54AMC02

532FN08S01
Start/Stop/E-stop



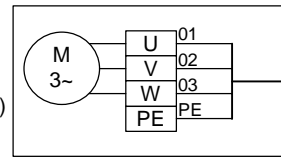
532FN08S01M01



532FN08M01W01

No of cables 1

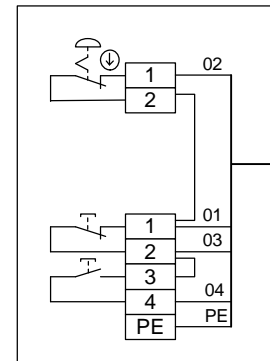
532FN08M01
Motor
4 kW (Derated)
4 kW



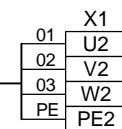
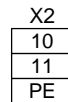
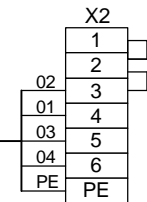
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.039
532FN08Q01
Motor Starter

LVDB 582ER54AMC02

532FN09S01
Start/Stop/E-stop



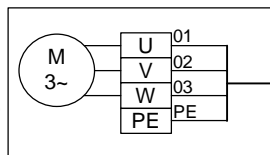
532FN09S01M01



532FN09M01W01

No of cables 1

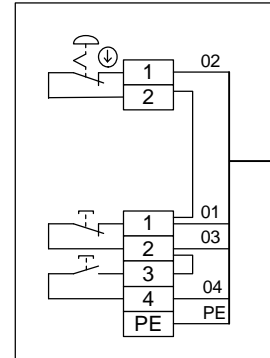
532FN09M01
Motor
4 kW (Derated)
4 kW



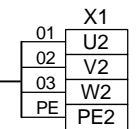
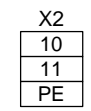
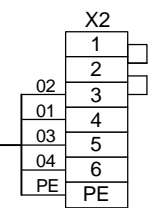
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.041
532FN09Q01
Motor Starter

LVDB 582ER54AMC02

532FN10S01
Start/Stop/E-stop



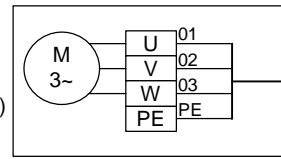
532FN10S01M01



532FN10M01W01

No of cables 1

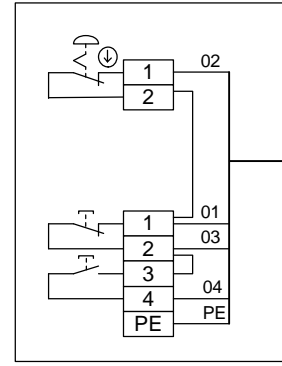
532FN10M01
Motor
4 kW (Derated)
4 kW



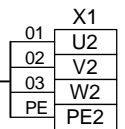
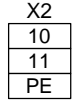
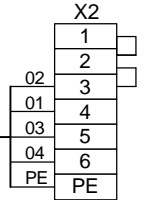
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.042
532FN10Q01
Motor Starter

LVDB 582ER54AMC02

532FN11S01
Start/Stop/E-stop



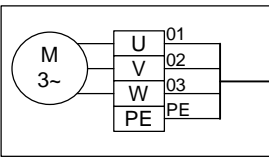
532FN11S01M01



532FN11M01W01

No of cables 1

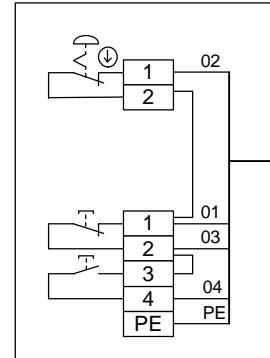
532FN11M01
Motor
4 kW (Derated)
4 kW



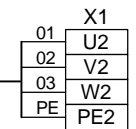
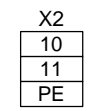
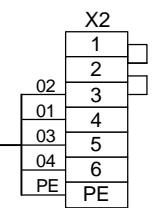
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.043
532FN11Q01
Motor Starter

LVDB 582ER54BMC01

532FN12S01
Start/Stop/E-stop



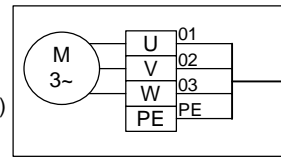
532FN12S01M01



532FN12M01W01

No of cables 1

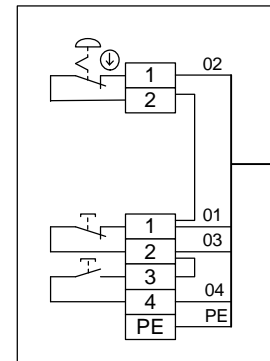
532FN12M01
Motor
4 kW (Derated)
4 kW



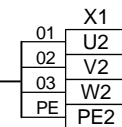
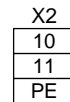
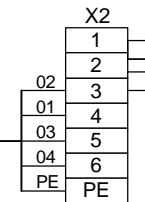
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.076
532FN12Q01
Motor Starter

LVDB 582ER54BMC01

532FN13S01
Start/Stop/E-stop



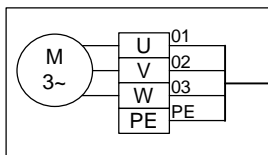
532FN13S01M01



532FN13M01W01

No of cables 1

532FN13M01
Motor
4 kW (Derated)
4 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.077
532FN13Q01
Motor Starter



532FN13M01

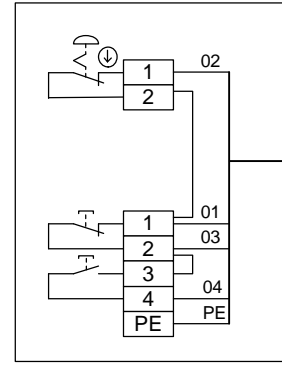
Fluxoslide Fan
Motor

80019896

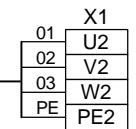
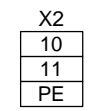
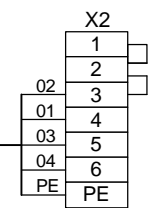
01.003400

LVDB 582ER54BMC01

532FN14S01
Start/Stop/E-stop



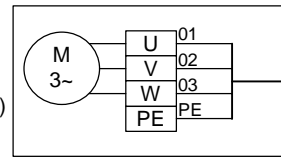
532FN14S01M01



532FN14M01W01

No of cables 1

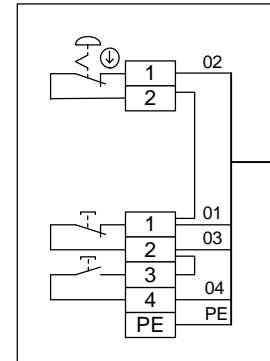
532FN14M01
Motor
4 kW (Derated)
4 kW



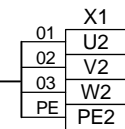
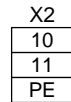
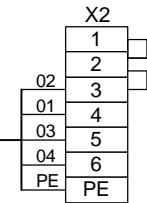
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.070
532FN14Q01
Motor Starter

LVDB 582ER54AMC02

532FN15S01
Start/Stop/E-stop



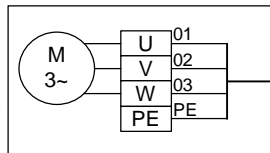
532FN15S01M01



532FN15M01W01

No of cables 1

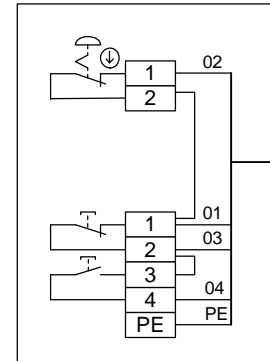
532FN15M01
Motor
11 kW (Derated)
11 kW



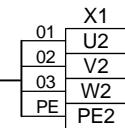
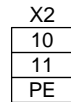
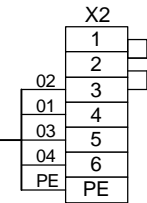
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.045
532FN15Q01
Motor Starter

LVDB 582ER54AMC02

532FN16S01
Start/Stop/E-stop



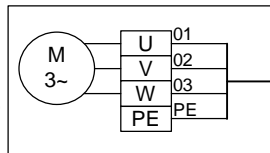
532FN16S01M01



532FN16M01W01

No of cables 1

532FN16M01
Motor
4 kW (Derated)
4 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.044
532FN16Q01
Motor Starter



532FN16M01

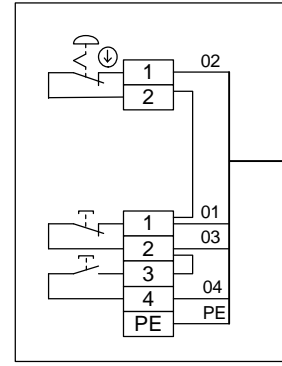
Fluxoslide Fan
Motor

80019896

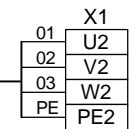
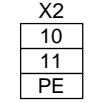
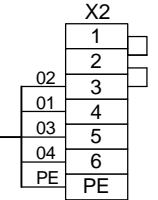
01.003430

LVDB 582ER54AMC02

532FN17S01
Start/Stop/E-stop



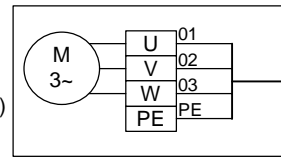
532FN17S01M01



532FN17M01W01

No of cables 1

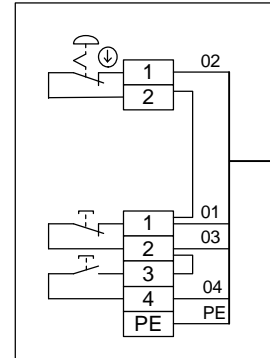
532FN17M01
Motor
4 kW (Derated)
4 kW



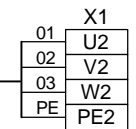
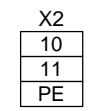
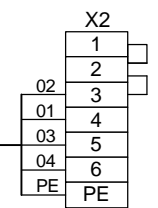
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.046
532FN17Q01
Motor Starter

LVDB 582ER54AMC02

532FN21S03
Start/Stop/E-stop



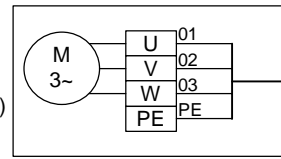
532FN21S03M01



532FN21E01W01

No of cables 1

532FN21E01
Motor
0.27 kW (Derated)
0.27 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.047
532FN21Q03
Motor Starter

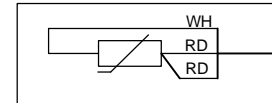
530LG01A02

301JB100X03

Brdr. Jørgensen Inst.
Siemens TH300
B92.0000.0Z

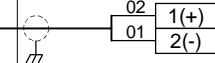
	Address	Position:	Term:
+24 VDC		X05.03.A	02+
Temperature	532FN21N11T01	AI N02.01..10.04	X05.03.A 02

532FN21B11
Sensor

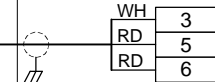


Pt100 RTD

532FN21N11C01



532FN21B11C01



Range 0 - 150 °C

532FN21B11
Sensor



532FN21N11

Hot Gas Fan DE Brg.
Temperature

80019896

01.003460

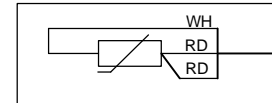
530LG01A02

301JB100X03

Brdr. Jørgensen Inst.
Siemens TH300
B92.0000.0Z

	Address	Position:	Term:
+24 VDC		X05.03.A	03+
Temperature	532FN21N12T01	AI N02.01..10.06	X05.03.A 03

532FN21B12
Sensor

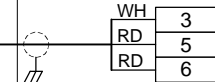


Pt100 RTD

532FN21N12C01



532FN21B12C01



Range 0 - 150 °C

532FN21B12
Sensor

Tonasa	NT E&H TMT 182 - 5 Nos	NT E&H TMT 182 - 5 Nos	-	4/7/2010 10:15:52 AM	1/27/2012 10:37:47 AM	Customer	A2
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530LG01A02

301JB100X03

	Address	Position:	Term:			
+24 VDC			X05.03.A	04+	08	02
Temp. Winding U	532FN21N21T01	AI	N02.01..10.08	X05.03.A	07	01
+24 VDC			X05.03.A	05+	10	04
Temp. Winding V	532FN21N22T01	AI	N02.01..10.12	X05.03.A	09	03
+24 VDC			X05.03.A	06+	12	06
Temp. Winding W	532FN21N23T01	AI	N02.01..10.14	X05.03.A	11	05
+24 VDC			X05.03.A	07+	14	08
Temp. DE Bearing	532FN21N24T01	AI	N02.01..10.16	X05.03.A	13	07
+24 VDC			X05.03.A	08+	16	10
Temp. NDE Bearing	532FN21N25T01	AI	N02.01..10.18	X05.03.A	15	09

Endress & Hauser
Temperature Transmitter
iTemp PCP TMT 182

532FN21N21C01

Winding U

02	1+
01	2-

Winding V

04	1+
03	2-

Winding W

06	1+
05	2-

DE Bearing

08	1+
07	2-

NDE Bearing

10	1+
09	2-

Range: 0 - 200 °C

532FN21N21
Temperature

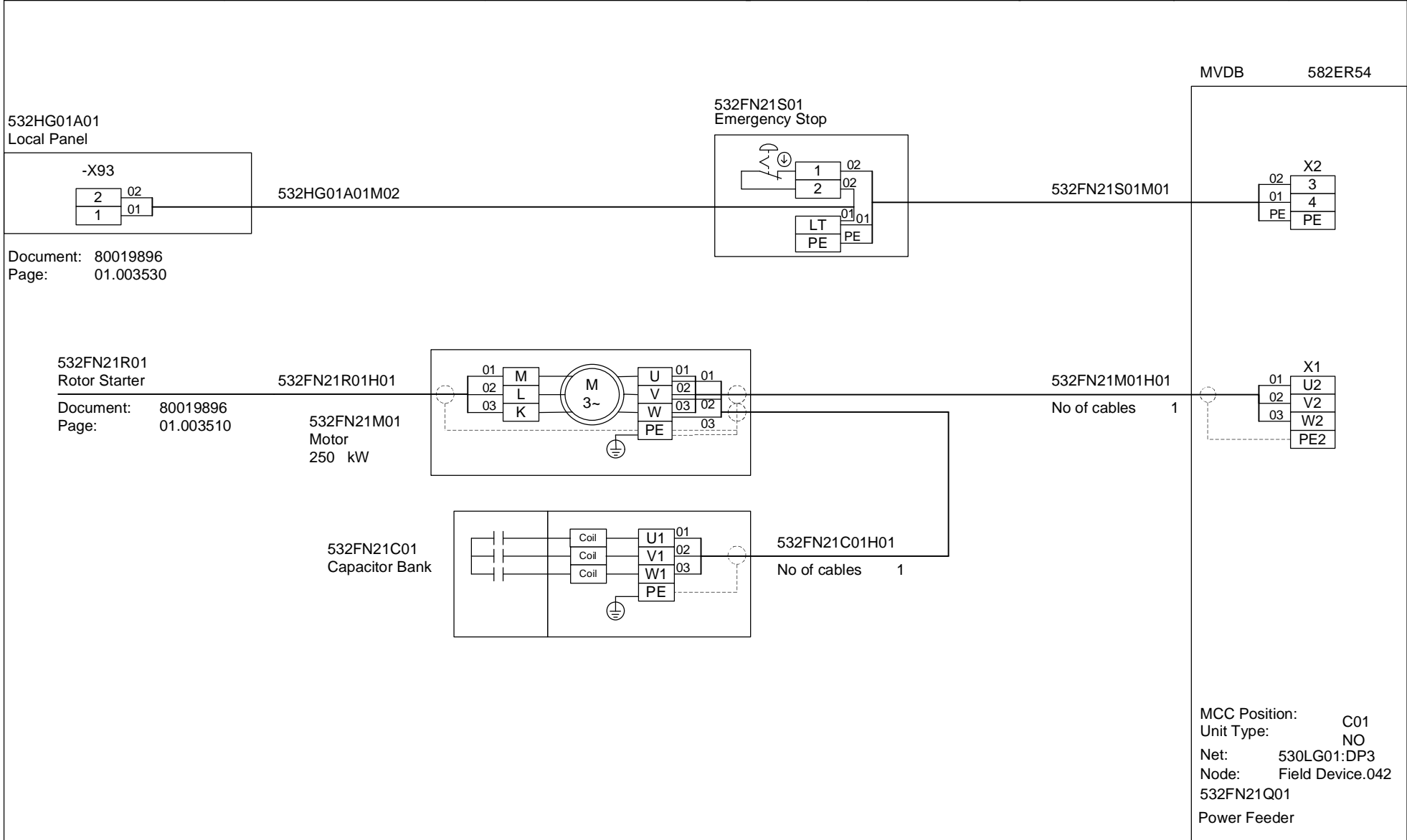


532FN21N21

Hot Gas Fan
Temperature

80019896

01.003480



Document: 80019896
Page: 01.003530

532FN21R01
Rotor Starter
Document: 80019896
Page: 01.003510

532FN21M01
Motor
250 kW

532FN21C01
Capacitor Bank

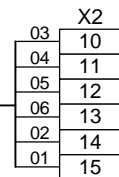
MCC Position: C01
Unit Type: NO
Net: 530LG01:DP3
Node: Field Device.042
532FN21Q01
Power Feeder

MVDB 582ER54

532FN21R01
Rotor Starter

532FN21R01M01

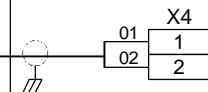
Document: 80019896
Page: 01.003510



532FN21R01
Rotor Starter

532FN21R01C01

Document: 80019896
Page: 01.003510



MCC Position:
Unit Type: C01 NO
Net: 530LG01:DP3
Node: Field Device.042
532FN21Q01
Power Feeder



532FN21Q01

Hot Gas Fan
Power Feeder

80019896

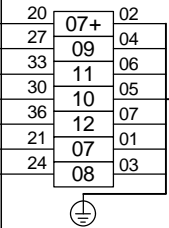
01.003500

530LG01A03

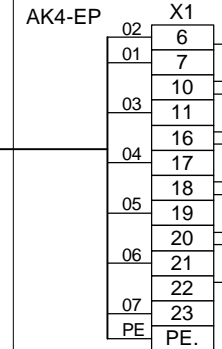
301JB110X06

AKA
Rotor Starter

	Address	Position:	Term:
220 VAC		X06.06.A	07L
Unit Ready	532FN21R01C41	DI	N02.01..07.32
Temperature Alarm >73°C	532FN21R01T41	DI	N02.01..07.34
Temperature Alarm >85°C	532FN21R01T42	DI	N02.01..07.33
General Warning	532FN21R01U42	DI	N02.01..07.35
Starter In First Step	532FN21R01Z41	DI	N02.01..07.28
Starter In Last Step	532FN21R01Z42	DI	N02.01..07.29

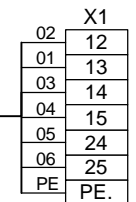


532FN21R01M02



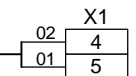
532FN21Q01
Power Feeder
Document: 80019896
Page: 01.003490

532FN21R01M01



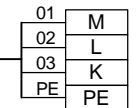
532FN21Q01
Power Feeder
Document: 80019896
Page: 01.003490

532FN21R01C01

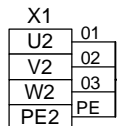


532FN21M01
Motor
Document: 80019896
Page: 01.003490

532FN21R01H01



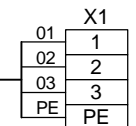
LVDB 582ER54AMC02



MCC Position:
Unit Type: B32
532FN21Q02 Feeder

532FN21Q02W01

No of cables 1



532FN21R01
Rotor Starter



532FN21R01

Hot Gas Fan
Rotor Starter

80019896

01.003510

Tonasa	A GLU, Separator	A GLU, Separator	-	3/15/2010 5:53:17 AM	1/27/2012 10:37:50 AM	Customer	A2
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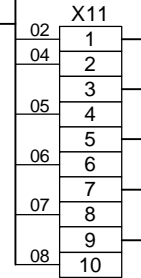
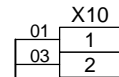
530LG01A03

301JB110X04

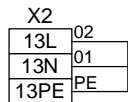
Woerner
FLS Separator GLU

	Address	Position:	Term:		
0/220 VAC			X06.04.A	20N	56 20- 01
220 VAC			X06.04.A	11L	32 11+ 02
Command	532GS01A01C31	DO	N02.01..06.35	X06.04.A	20 03
Unit Ready	532GS01A01C41	DI	N02.01..05.34	X06.04.A	11 04
Local Start	532GS01A01C51	DI	N02.01..05.36	X06.04.A	13 06
Unit Started	532GS01A01C61	DI	N02.01..05.35	X06.04.A	12 05
Grease Distributor	532GS01A01F41	DI	N02.01..05.38	X06.04.A	15 08
Level Min	532GS01A01L41	DI	N02.01..05.37	X06.04.A	14 07

532GS01A01M01

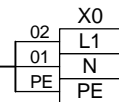


LVDB 582ER54AMC01



MCC Position:
Unit Type: B42
582ER54AMC01F01 Feeder

532GS01A01M02



532GS01A01
Local Control Panel



532GS01A01

Grease Lubrication Unit
Local Control Panel

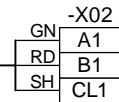
80019896

01.003520

FLSmidth ED
BU-HG-B-11

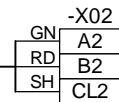
532LQ01A01
Local Panel
Document: 80019896
Page: 01.003640

532HG01A01Y01



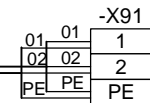
530LG01A11
Network Interface Box Profibus
Document: 80019896
Page: 01.001960

530LG01A11Y02



530LG01A01
PLC Cpu-Cabinet ER-54
Document: 80019896
Page: 01.001890

532HG01A01M01

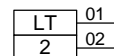


Dept.
E-Stop

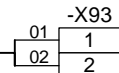
532HY01A01
Local Panel
Document: 80019896
Page: 01.003540

532HY01A01M01

532FN21S01
Emergency Stop

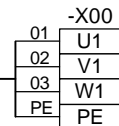


532HG01A01M02



Document: 80019896
Page: 01.003490

532HG01Q01W01

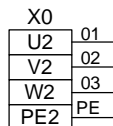


No of cables 1

Net: 530LG01:DP2
Node: Sub PLC.14
532HG01A01
Local Panel

80017652

LVDB 582ER54AMC02



MCC Position:
Unit Type: B32
532HG01Q01 Feeder



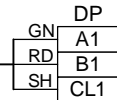
532HG01A01 Hot Gas Generator
Local Panel

80019896

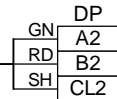
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FLSmith ED
HY-AM-10

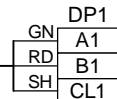
530LG01A11
Network Interface Box Profibus
532HY01A01Y01
Document: 80019896
Page: 01.001960



532LQ03A01
Local Panel
532LQ03A01Y01
Document: 80019896
Page: 01.003750

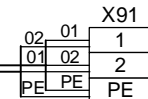


582ER54AMC21Q02
Feeder
532HY01A01Y02
Document: 80019896
Page: 01.005610



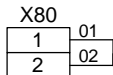
To MCC

532HG01A01
Local Panel
532HY01A01M01
Document: 80019896
Page: 01.003530

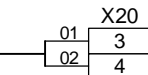


Dept.
E-Stop

532LQ01A01
Local Panel



532LQ03A01
Local Panel
532LQ03A01M01
Document: 80019896
Page: 01.003750



Net: 530LG01:DP2
Node: Sub PLC.11

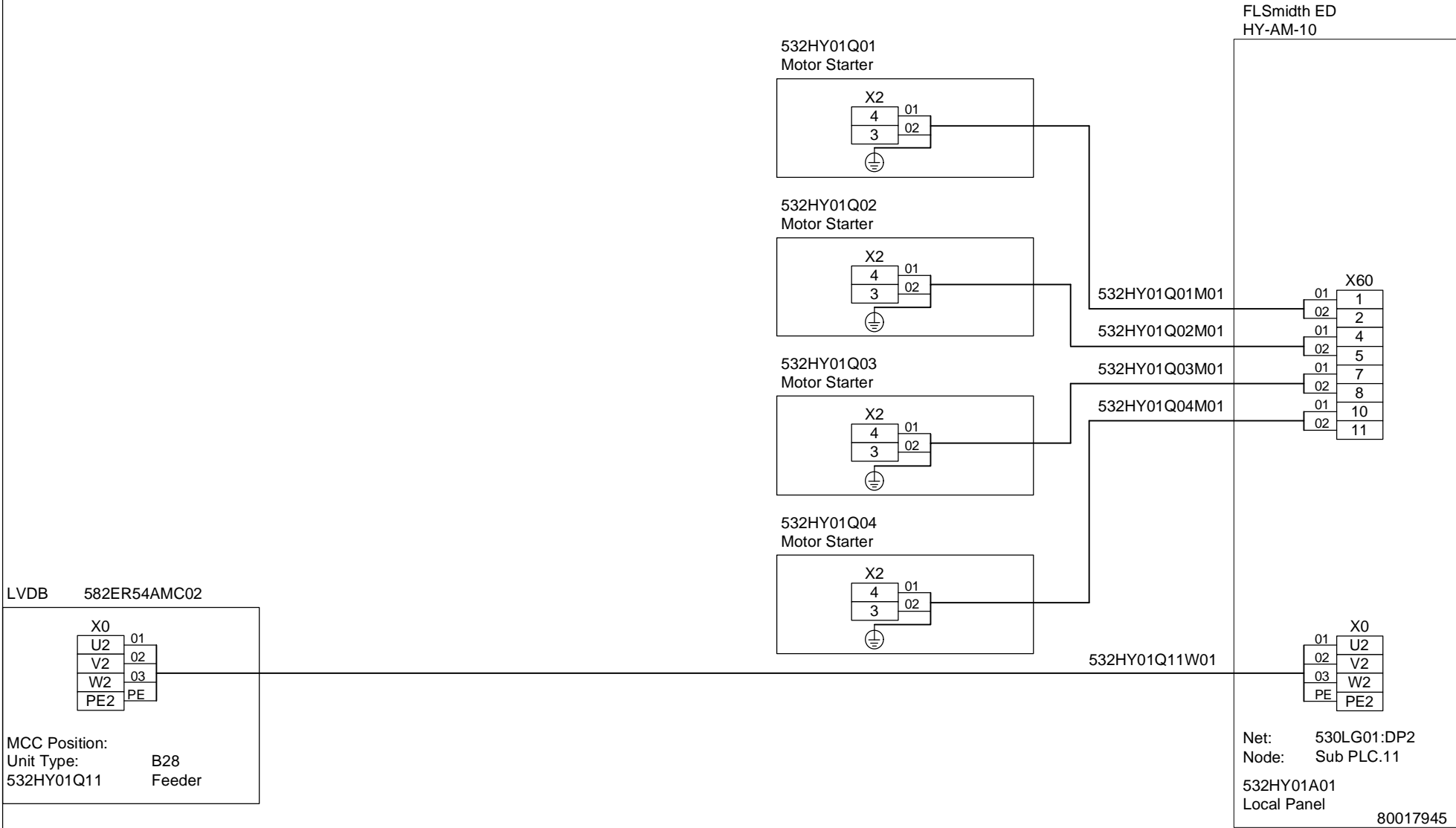
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Local Panel
80017945

Document: 80019896
Page: 01.003640



532HY01A01 Hydraulic Station
Local Panel

80019896 01.003540



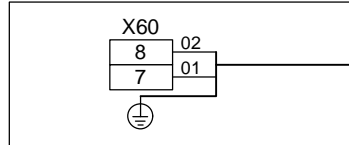
LVDB 582ER54AMC02

X0	
U2	01
V2	02
W2	03
PE2	PE

MCC Position:
Unit Type: B28
532HY01Q11 Feeder

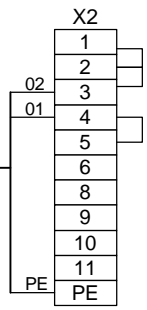
LVDB 582ER54AMC21

532HY01A01
Local Panel

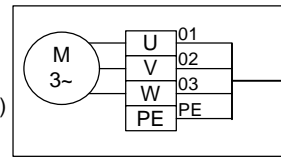


Document: 80019896
Page: 01.003540

532HY01Q03M01

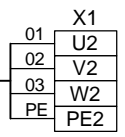


532HY01E01.
Motor
2.7 kW (Derated)
2.7 kW



532HY01E01.W01

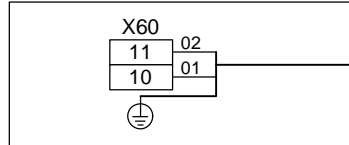
No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532HY01:DP4
Node: MCC.23
532HY01Q03
Motor Starter

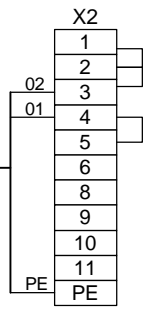
LVDB 582ER54AMC21

532HY01A01
Local Panel

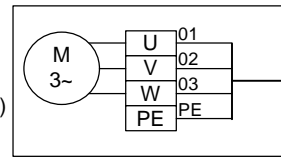


Document: 80019896
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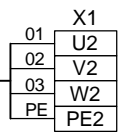
532HY01Q04M01



532HY01E02
Motor
2.7 kW (Derated)
2.7 kW



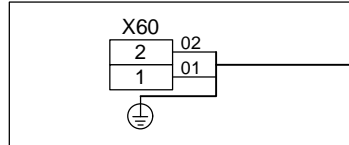
532HY01E02W01
No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532HY01:DP4
Node: MCC.24
532HY01Q04
Motor Starter

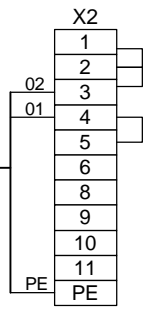
LVDB 582ER54AMC21

532HY01A01
Local Panel

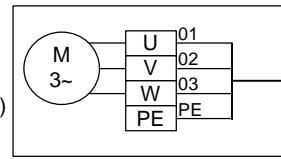


Document: 80019896
Page: 01.003540

532HY01Q01M01

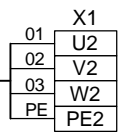


532HY01M01
Motor
5.5 kW (Derated)
5.5 kW



532HY01M01W01

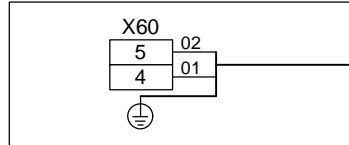
No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532HY01:DP4
Node: MCC.21
532HY01Q01
Motor Starter

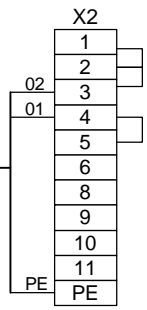
LVDB 582ER54AMC21

532HY01A01
Local Panel

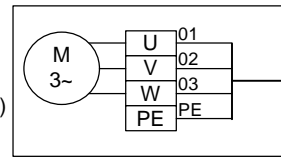


Document: 80019896
Page: 01.003540

532HY01Q02M01

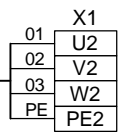


532HY01M02
Motor
43 kW (Derated)
45 kW



532HY01M02W01

No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532HY01:DP4
Node: MCC.22
532HY01Q02
Motor Starter

Tonasa	Q B28 Lighting	Q B28 Lighting	-	11/30/2010 12:08:10 PM	1/27/2012 10:37:54 AM	Customer	A2
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Customer
Supply

LVDB 583ER54MC01

X1	
U2	02
V2	03
W2	04
N2	01
PE2	PE

MCC Position:
Unit Type: B28
532LD01Q01 Feeder

532LD01Q01W01

No of cables 1

02	U1
03	V1
04	W1
01	N1
PE	PE1

532LD01A01
Cabinet



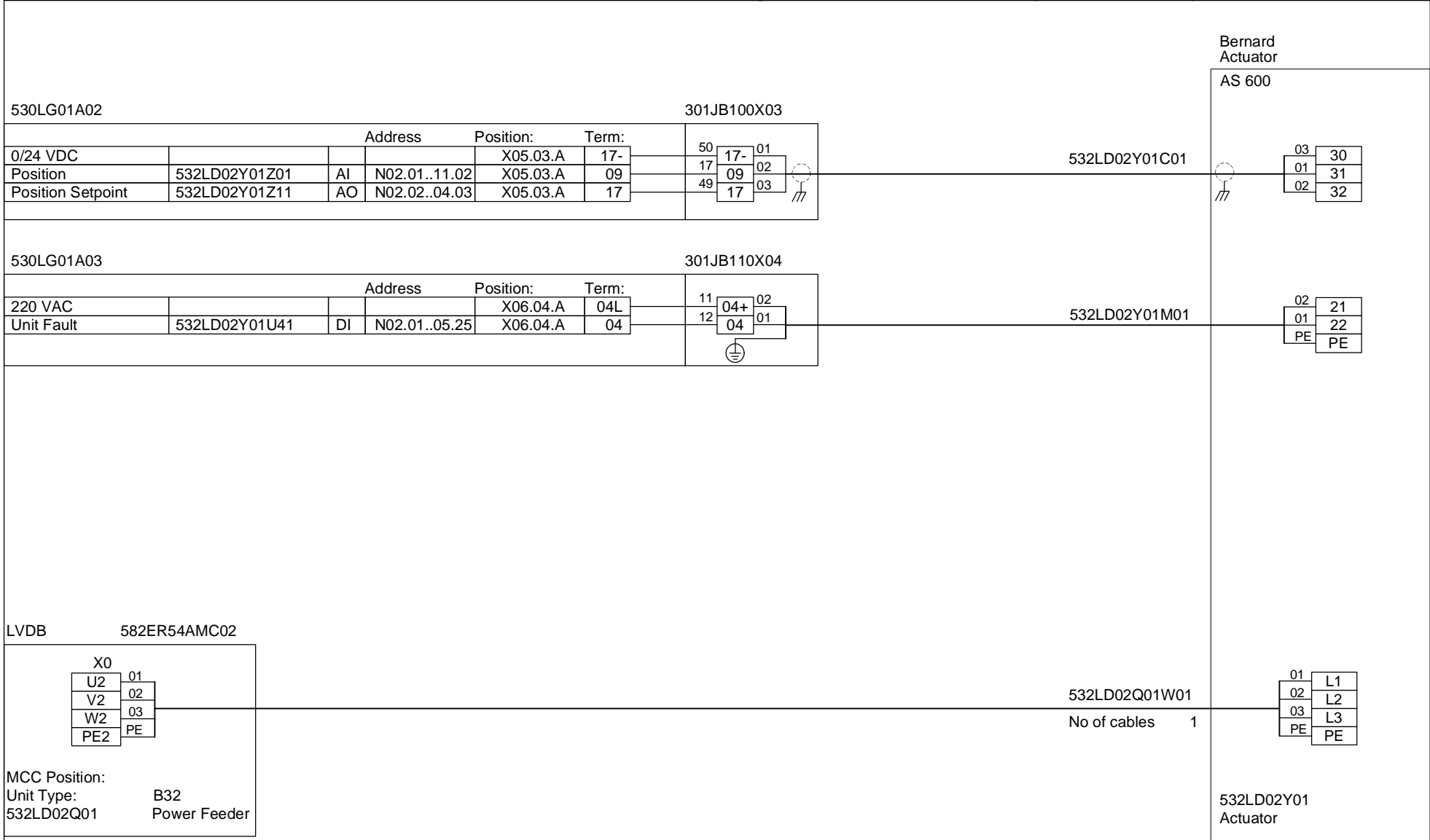
532LD01A01

Lighting Transformer
Cabinet

80019896

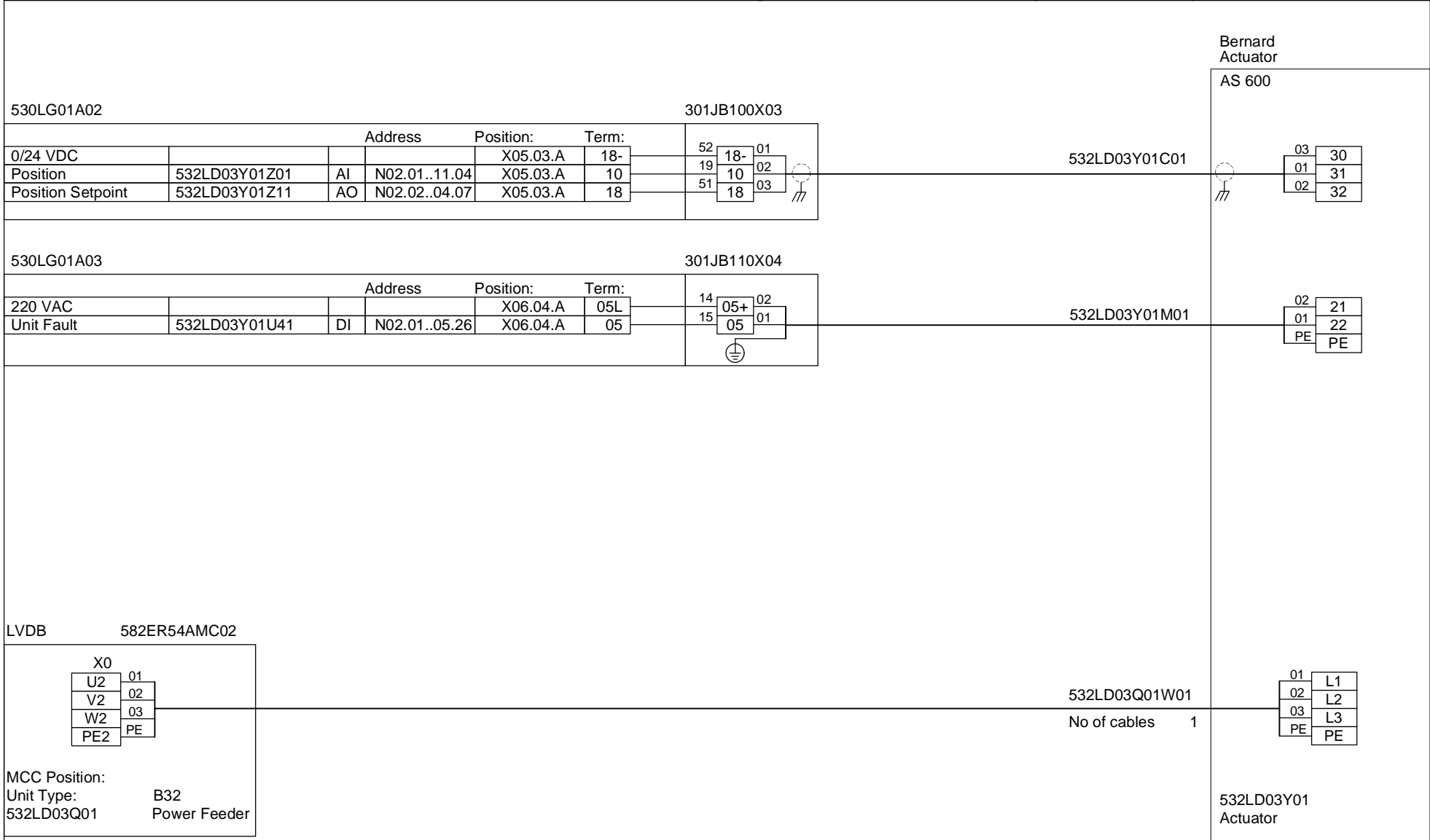
01.003600

Tonasa	Y DA Bernard Actuator	Y DA Bernard Actuator	-	3/15/2010 5:54:58 AM	1/27/2012 10:37:55 AM	Customer	A2
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	532LD02Y01	Louvre Damper Actuator	80019896	01.003610
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Tonasa	Y DA Bernard Actuator	Y DA Bernard Actuator	-	3/15/2010 5:55:23 AM	1/27/2012 10:37:56 AM	Customer	A2
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	532LD03Y01	Louvre Damper Actuator	80019896	01.003620
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Tonasa	Q B28 Dist. Transformer	Q B28 Dist. Transformer	-	11/30/2010 12:07:44 PM	1/27/2012 10:37:57 AM	Customer	A2
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Customer
Supply

LVDB 583ER54MC01

X1	
U2	02
V2	03
W2	04
N2	01
PE2	PE

MCC Position:
Unit Type: B28
532LP01Q01 Feeder

532LP01Q01W01

No of cables 1

02	U1
03	V1
04	W1
01	N1
PE	PE1

532LP01A01
Cabinet



532LP01A01

Distribution Transformer
Cabinet

80019896

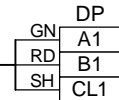
01.003630

FLSmidth ED
LQ-MA-D-01

532LQ03A01
Local Panel

532LQ01A01Y01

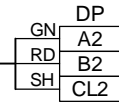
Document: 80019896
Page: 01.003750



532HG01A01
Local Panel

532HG01A01Y01

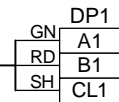
Document: 80019896
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582ER54AMC22Q02
Feeder

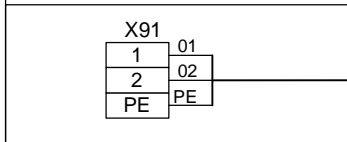
532LQ01A01Y02

Document: 80019896
Page: 01.005660



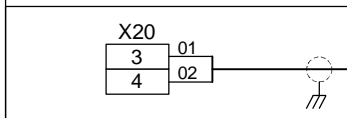
To MCC

532LQ03A01
Local Panel



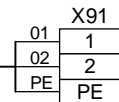
Document: 80019896
Page: 01.003750

532HY01A01
Local Panel



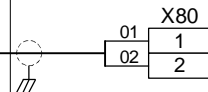
Document: 80019896
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532LQ01A01M01



Dept. Stop

532LQ01A01C01



Net: 530LG01:DP2
Node: Sub PLC.13

532LQ01A01
Local Panel

80017950

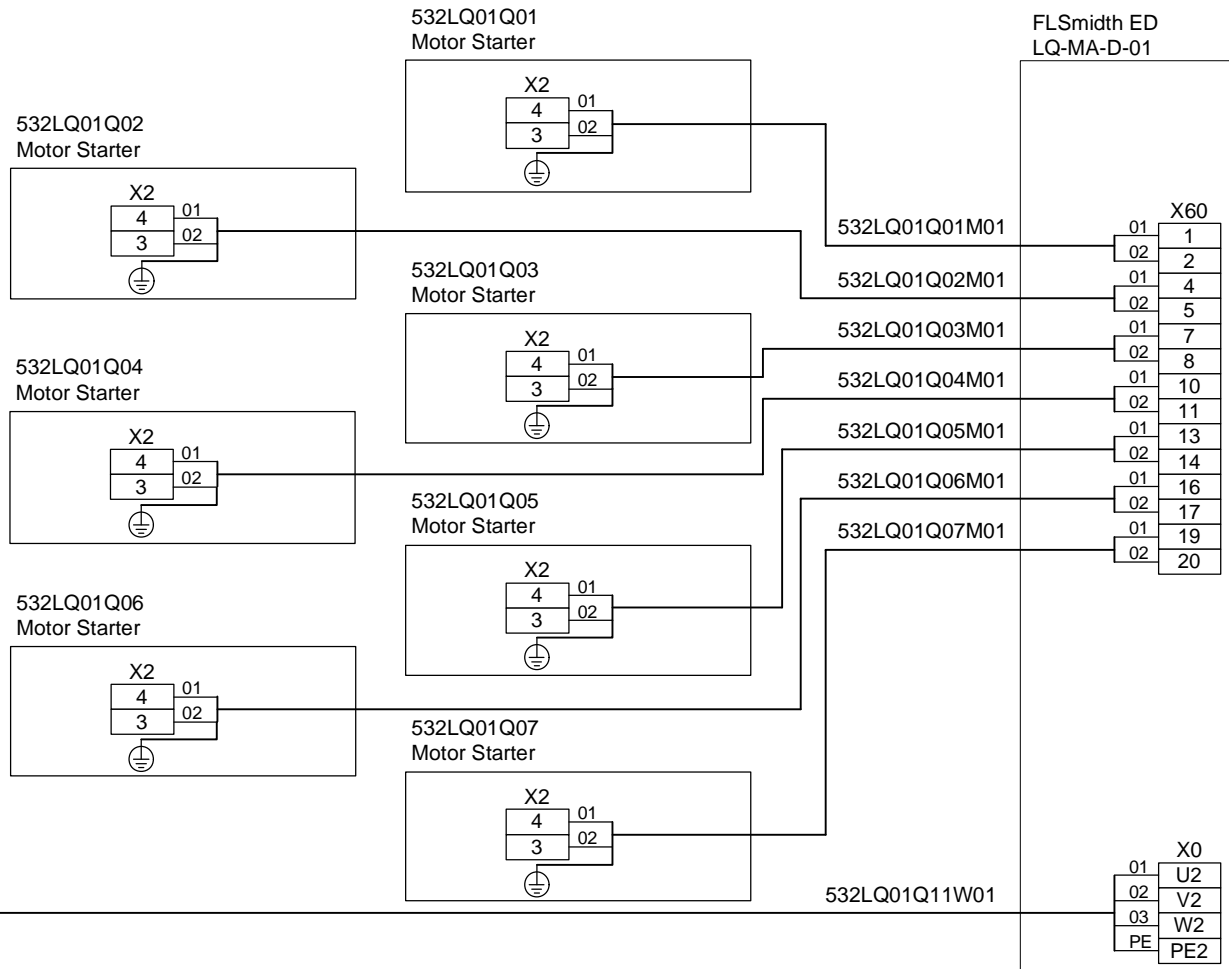


532LQ01A01

Gear Lub. System
Local Panel

80019896

01.003640



LVDB 582ER54AMC02

X0	
U2	01
V2	02
W2	03
PE2	PE

MCC Position:
Unit Type: B32
532LQ01Q11 Feeder

FLSmidth ED
LQ-MA-D-01

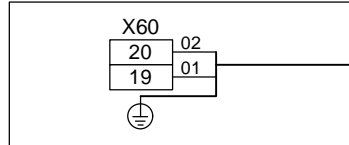
X60	
01	1
02	2
01	4
02	5
01	7
02	8
01	10
02	11
01	13
02	14
01	16
02	17
01	19
02	20

X0	
01	U2
02	V2
03	W2
PE	PE2

Net: 530LG01:DP2
Node: Sub PLC.13
532LQ01A01
Local Panel
80017950

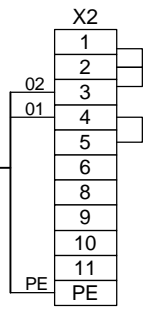
LVDB 582ER54AMC22

532LQ01A01
Local Panel

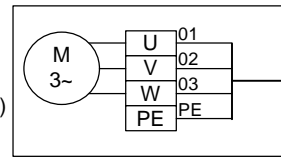


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532LQ01Q07M01

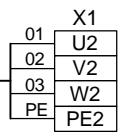


532LQ01E01.
Motor
8 kW (Derated)
8 kW



532LQ01E01.W01

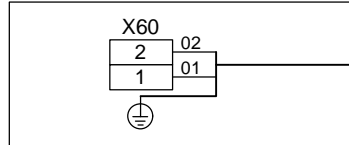
No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532LQ01:DP4
Node: MCC.27
532LQ01Q07
Motor Starter

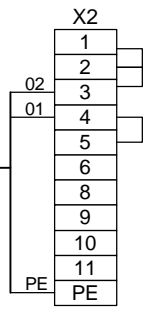
LVDB 582ER54AMC22

532LQ01A01
Local Panel

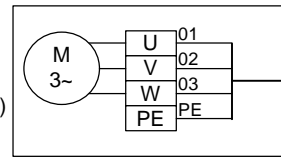


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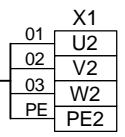
532LQ01Q01M01



532LQ01M01
Motor
29 kW (Derated)
30 kW



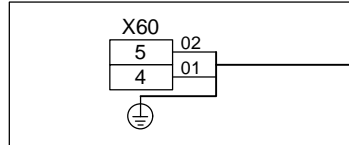
532LQ01M01W01
No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532LQ01:DP4
Node: MCC.21
532LQ01Q01
Motor Starter

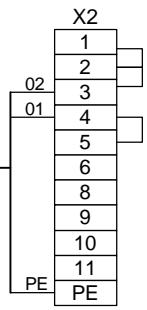
LVDB 582ER54AMC22

532LQ01A01
Local Panel

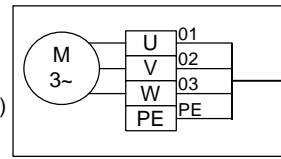


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532LQ01Q02M01

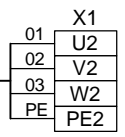


532LQ01M02
Motor
21 kW (Derated)
22 kW



532LQ01M02W01

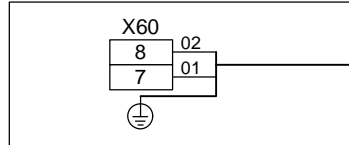
No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532LQ01:DP4
Node: MCC.22
532LQ01Q02
Motor Starter

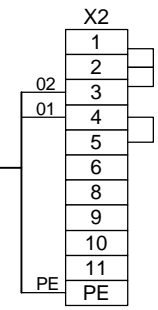
LVDB 582ER54AMC22

532LQ01A01
Local Panel

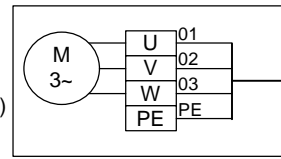


Document: 80019896
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532LQ01Q03M01

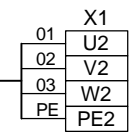


532LQ01M03
Motor
7.5 kW (Derated)
7.5 kW



532LQ01M03W01

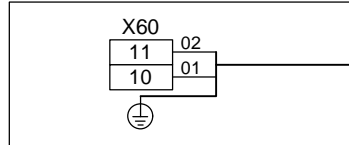
No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532LQ01:DP4
Node: MCC.23
532LQ01Q03
Motor Starter

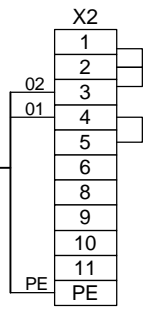
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532LQ01A01
Local Panel

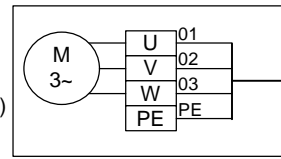


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532LQ01Q04M01

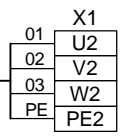


532LQ01M04
Motor
7.5 kW (Derated)
7.5 kW



532LQ01M04W01

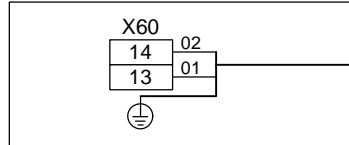
No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532LQ01:DP4
Node: MCC.24
532LQ01Q04
Motor Starter

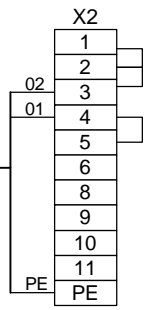
LVDB 582ER54AMC22

532LQ01A01
Local Panel

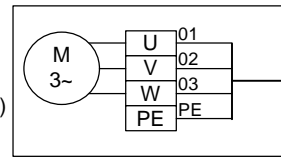


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532LQ01Q05M01

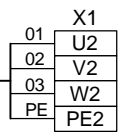


532LQ01M05
Motor
7.5 kW (Derated)
7.5 kW



532LQ01M05W01

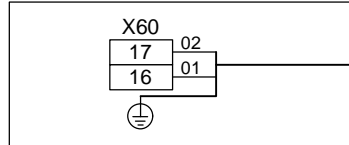
No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532LQ01:DP4
Node: MCC.25
532LQ01Q05
Motor Starter

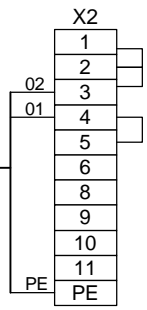
LVDB 582ER54AMC22

532LQ01A01
Local Panel

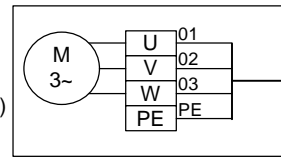


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532LQ01Q06M01

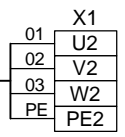


532LQ01M06
Motor
7.5 kW (Derated)
7.5 kW



532LQ01M06W01

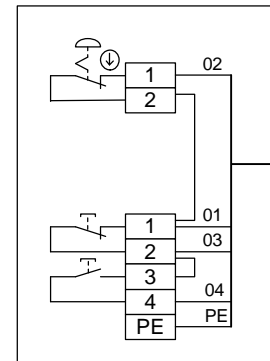
No of cables 1



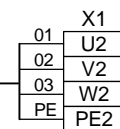
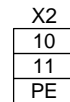
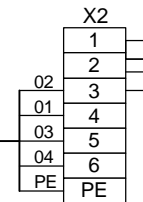
MCC Position:
Unit Type: B01 - NO
Net: 532LQ01:DP4
Node: MCC.26
532LQ01Q06
Motor Starter

LVDB 582ER54AMC02

532LQ02S01
Start/Stop/E-stop



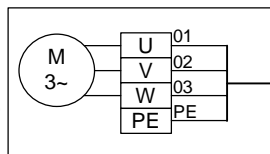
532LQ02S01M01



532LQ02M01W01

No of cables 1

532LQ02M01
Motor
1.5 kW (Derated)
1.5 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.048
532LQ02Q01
Motor Starter



532LQ02M01

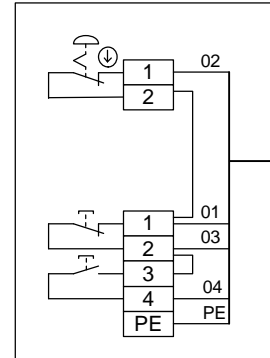
Gear Oil Pump
Motor

80019896

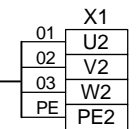
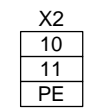
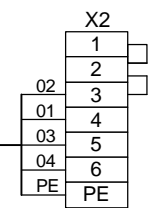
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LVDB 582ER54AMC02

532LQ02S02
Start/Stop/E-stop



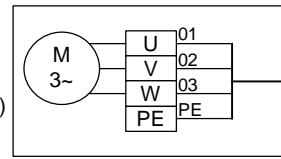
532LQ02S02M01



532LQ02M02W01

No of cables 1

532LQ02M02
Motor
3 kW (Derated)
3 kW

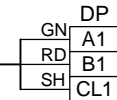


MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.049
532LQ02Q02
Motor Starter

FLSmidth ED
LQ-AM-01

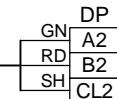
532HY01A01
Local Panel
Document: 80019896
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532LQ03A01Y01



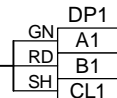
532LQ01A01
Local Panel
Document: 80019896
Page: 01.003640

532LQ01A01Y01



582ER54AMC23Q02
Feeder
Document: 80019896
Page: 01.005710

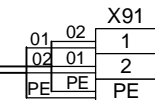
532LQ03A01Y02



To MCC

532HY01A01
Local Panel
Document: 80019896
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532LQ03A01M01



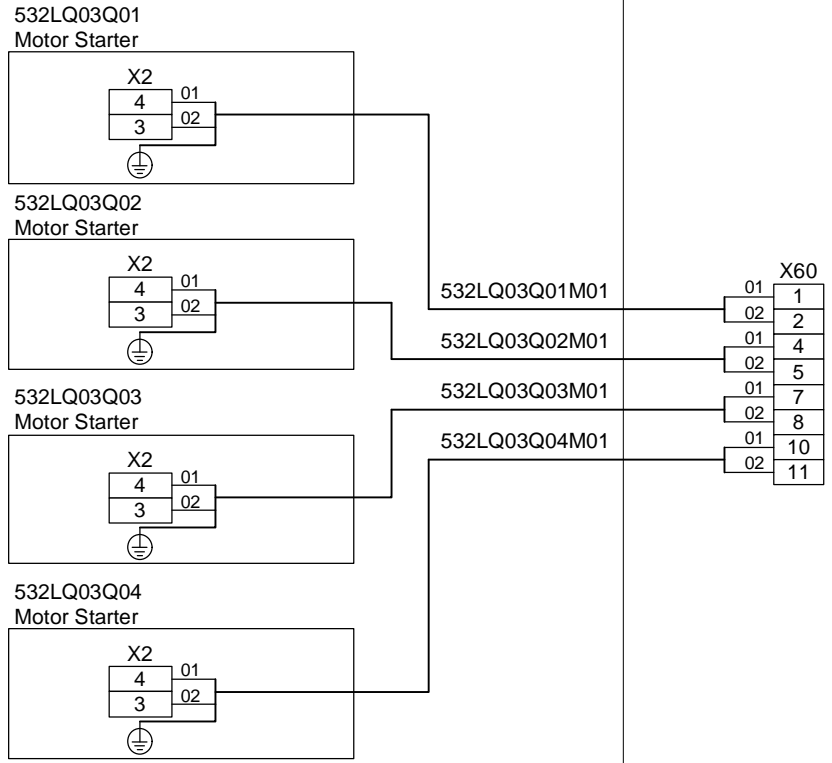
Dept.
E-Stop

532LQ01A01
Local Panel
Document: 80019896
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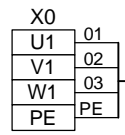
532LQ01A01M01

Net: 530LG01:DP2
Node: Sub PLC.12
532LQ03A01
Local Panel
80017948

FLSmidth ED
LQ-AM-01

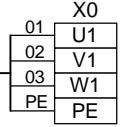


LVDB 582ER54AMC02



MCC Position:
Unit Type: B32
532LQ03Q11 Feeder

532LQ03Q11W01
No of cables 1



Net: 530LG01:DP2
Node: Sub PLC.12
532LQ03A01
Local Panel

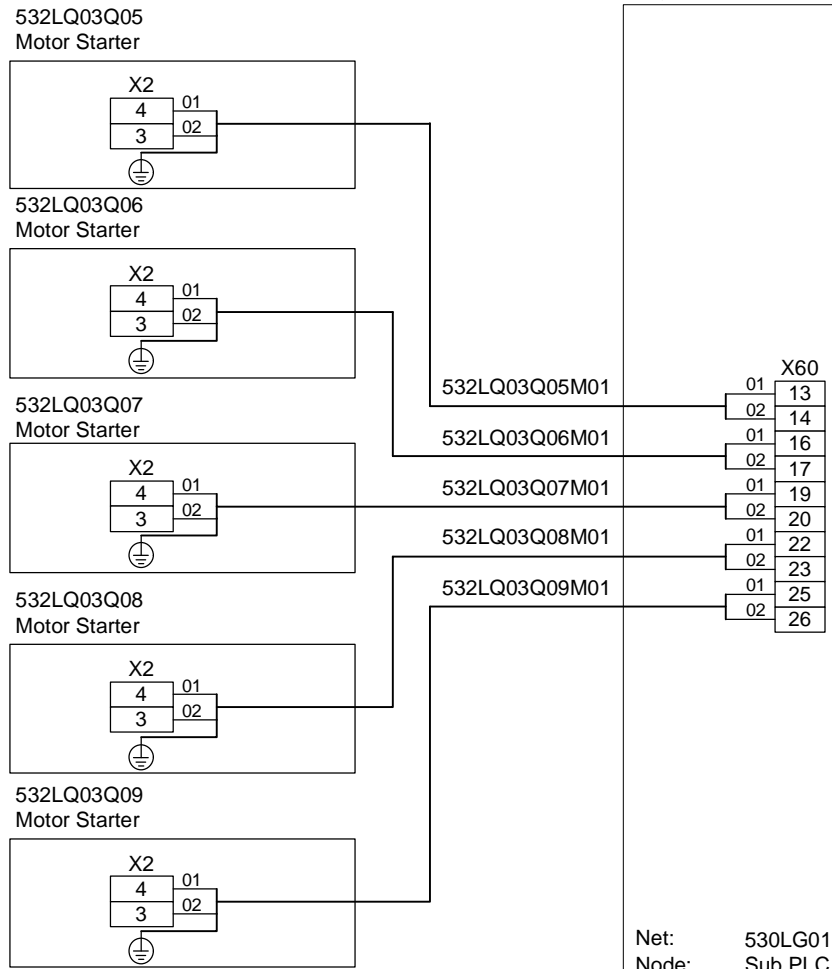
80017948



532LQ03A01 Roller Lub. System
Local Panel

80019896 01.003760

FLSmidth ED
LQ-AM-01

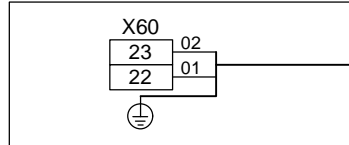


Net: 530LG01:DP2
Node: Sub PLC.12

532LQ03A01
Local Panel
80017948

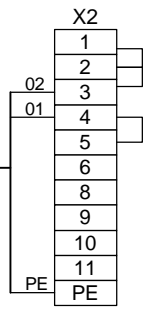
LVDB 582ER54AMC23

532LQ03A01
Local Panel

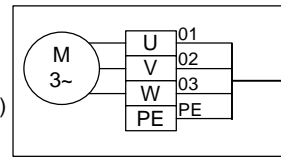


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532LQ03Q08M01

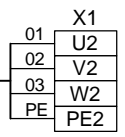


532LQ03E01.
Motor
1.4 kW (Derated)
1.4 kW



532LQ03E01.W01

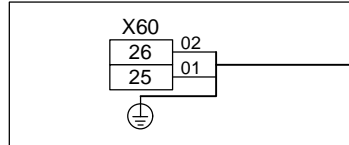
No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532LQ03:DP4
Node: MCC.28
532LQ03Q08
Motor Starter

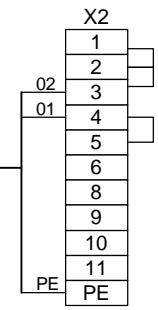
LVDB 582ER54AMC23

532LQ03A01
Local Panel

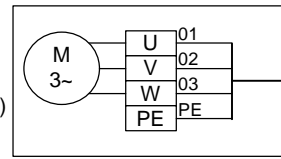


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532LQ03Q09M01

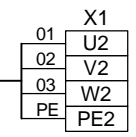


532LQ03E02
Motor
1.4 kW (Derated)
1.4 kW



532LQ03E02W01

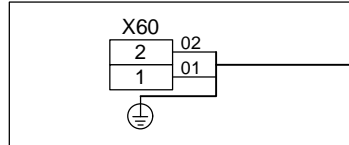
No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532LQ03:DP4
Node: MCC.29
532LQ03Q09
Motor Starter

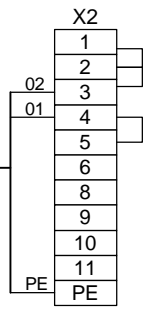
LVDB 582ER54AMC23

532LQ03A01
Local Panel

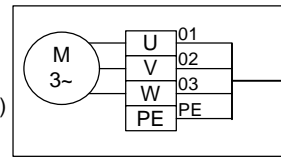


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532LQ03Q01M01

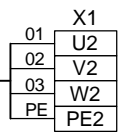


532LQ03M01
Motor
5.5 kW (Derated)
5.5 kW



532LQ03M01W01

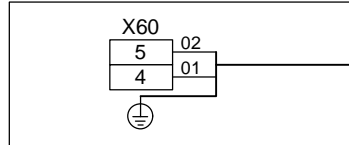
No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532LQ03:DP4
Node: MCC.21
532LQ03Q01
Motor Starter

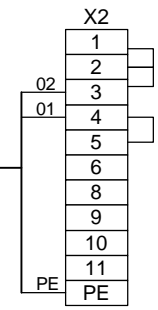
LVDB 582ER54AMC23

532LQ03A01
Local Panel

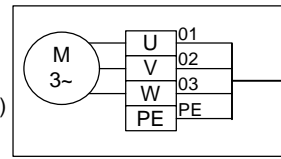


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532LQ03Q02M01

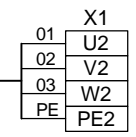


532LQ03M02
Motor
2.2 kW (Derated)
2.2 kW



532LQ03M02W01

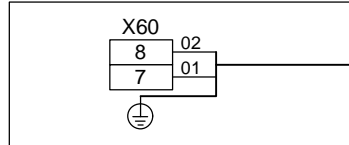
No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532LQ03:DP4
Node: MCC.22
532LQ03Q02
Motor Starter

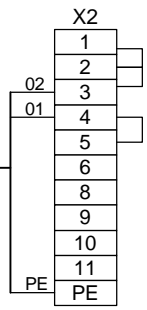
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532LQ03A01
Local Panel

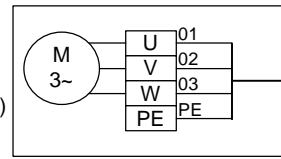


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532LQ03Q03M01

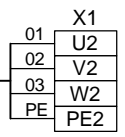


532LQ03M03
Motor
2.2 kW (Derated)
2.2 kW



532LQ03M03W01

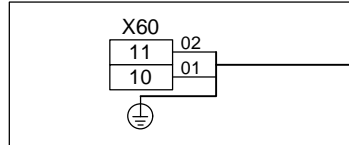
No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532LQ03:DP4
Node: MCC.23
532LQ03Q03
Motor Starter

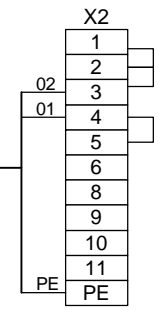
LVDB 582ER54AMC23

532LQ03A01
Local Panel

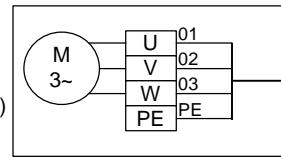


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532LQ03Q04M01

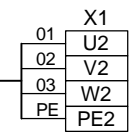


532LQ03M04
Motor
2.2 kW (Derated)
2.2 kW



532LQ03M04W01

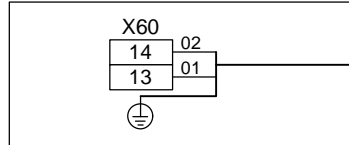
No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532LQ03:DP4
Node: MCC.24
532LQ03Q04
Motor Starter

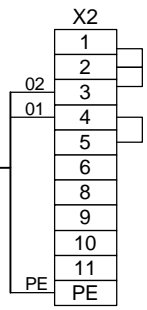
LVDB 582ER54AMC23

532LQ03A01
Local Panel

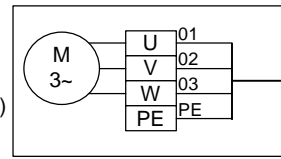


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532LQ03Q05M01

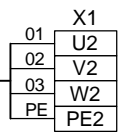


532LQ03M05
Motor
2.2 kW (Derated)
2.2 kW



532LQ03M05W01

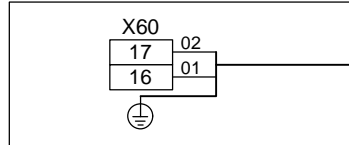
No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532LQ03:DP4
Node: MCC.25
532LQ03Q05
Motor Starter

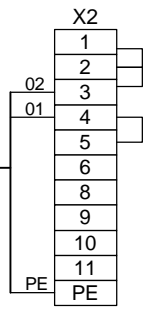
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532LQ03A01
Local Panel

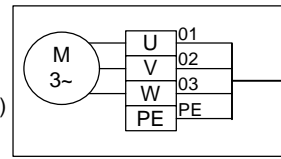


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532LQ03Q06M01

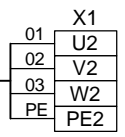


532LQ03M06
Motor
2.2 kW (Derated)
2.2 kW



532LQ03M06W01

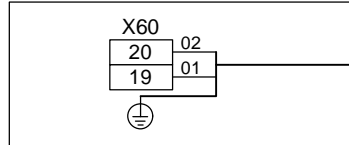
No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532LQ03:DP4
Node: MCC.26
532LQ03Q06
Motor Starter

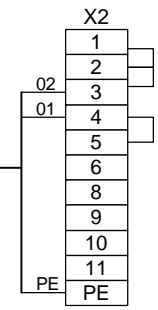
LVDB 582ER54AMC23

532LQ03A01
Local Panel

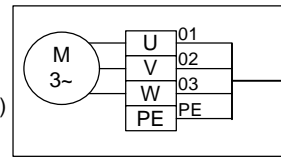


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532LQ03Q07M01

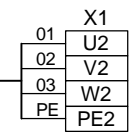


532LQ03M07
Motor
2.2 kW (Derated)
2.2 kW



532LQ03M07W01

No of cables 1



MCC Position:
Unit Type: B01 - NO
Net: 532LQ03:DP4
Node: MCC.27
532LQ03Q07
Motor Starter

530LG01A03

301JB110X05

EMA MICHAUX
Lubrication System
Lub Unit 400 L

	Address	Position:	Term:			
220 VAC			X06.05.A	03L	08	02
Level Min2	532LQ04A01L41	DI	N02.01..07.08	X06.05.A	07	06
Temp. Max1	532LQ04A01T41	DI	N02.01..07.06	X06.05.A	05	04
Temp. Max2	532LQ04A01T42	DI	N02.01..07.07	X06.05.A	06	05
Pressure Min1	532LQ04A01P41	DI	N02.01..07.04	X06.05.A	03	01
Pressure Min2	532LQ04A01P42	DI	N02.01..07.05	X06.05.A	04	03
Diff Pressure	532LQ04A01P43	DI	N02.01..07.09	X06.05.A	08	07

532LQ04A01M01

02	11
01	12
PE	PE
	14
03	15
	17
04	18
	20
05	21
	22
06	23
	25
07	26

532LQ04A01
Lubrication Supervision



532LQ04A01

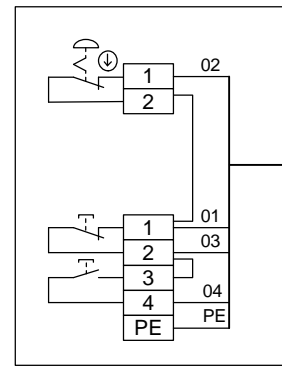
Raw Mil Fan
Lubrication Supervision

80019896

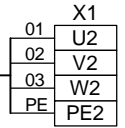
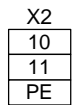
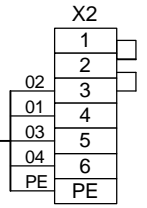
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LVDB 582ER54AMC02

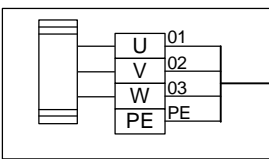
532LQ04S03
Start/Stop/E-stop



532LQ04S03M01



532LQ04E01
Heating Element
2 kW (Derated)
2 kW



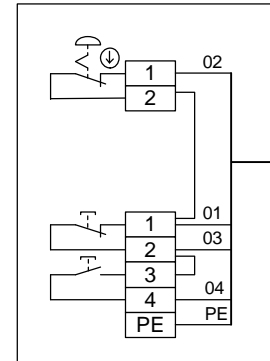
532LQ04E01W01

No of cables 1

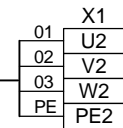
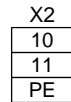
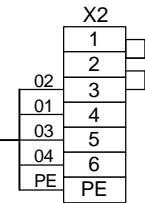
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.052
532LQ04Q03
Motor Starter

LVDB 582ER54AMC02

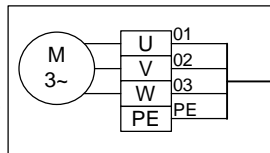
532LQ04S01
Start/Stop/E-stop



532LQ04S01M01



532LQ04M01
Motor
1.1 kW (Derated)
1.1 kW



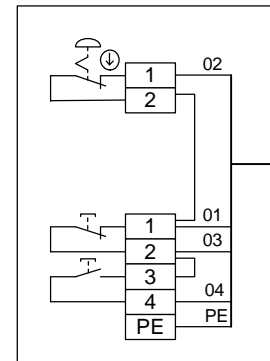
532LQ04M01W01

No of cables 1

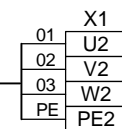
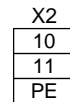
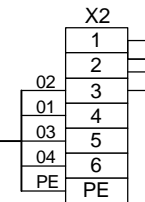
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.050
532LQ04Q01
Motor Starter

LVDB 582ER54AMC02

532LQ04S02
Start/Stop/E-stop



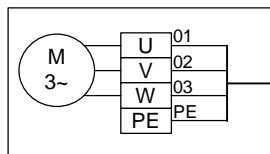
532LQ04S02M01



532LQ04M02W01

No of cables 1

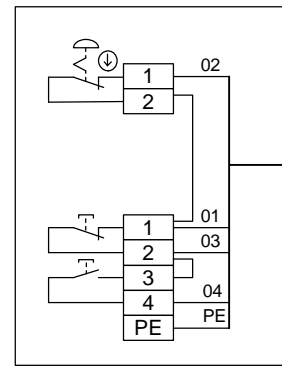
532LQ04M02
Motor
1.1 kW (Derated)
1.1 kW



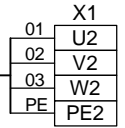
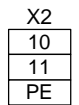
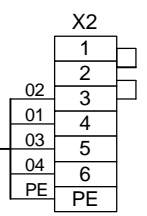
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.051
532LQ04Q02
Motor Starter

LVDB 582ER54AMC02

532MD01S03
Start/Stop/E-stop



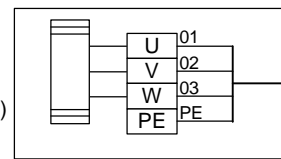
532MD01S03M01



532MD01E03W01

No of cables 1

532MD01E03
Heating Element
0.54 kW (Derated)
0.54 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.053
532MD01Q03
Motor Starter

530LG01A02

301JB100X04

	Address	Position:	Term:			
+24 VDC			X05.04.A	01+	02	01+
Temp. Winding U	532MD01N21T01	AI	N02.02..05.02	X05.04.A	01	01
+24 VDC			X05.04.A	02+	04	02+
Temp. Winding V	532MD01N22T01	AI	N02.02..05.04	X05.04.A	02	03
+24 VDC			X05.04.A	03+	06	03+
Temp. Winding W	532MD01N23T01	AI	N02.02..05.06	X05.04.A	03	05
+24 VDC			X05.04.A	04+	08	04+
Temp. DE Bearing	532MD01N24T01	AI	N02.02..05.08	X05.04.A	04	07
+24 VDC			X05.04.A	05+	10	05+
Temp. NDE Bearing	532MD01N25T01	AI	N02.02..05.12	X05.04.A	05	09

Endress & Hauser
Temperature Transmitter
iTemp PCP TMT 182

532MD01N21C01

Winding U

02	1+
01	2-

Winding V

04	1+
03	2-

Winding W

06	1+
05	2-

DE Bearing

08	1+
07	2-

NDE Bearing

10	1+
09	2-

Range: 0 - 200 °C

532MD01N21
Temperature



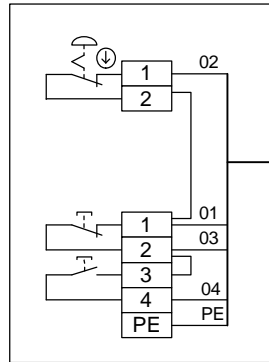
532MD01N21

Raw Mill Motor
Temperature

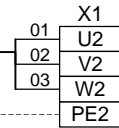
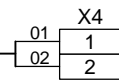
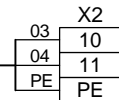
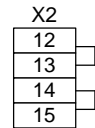
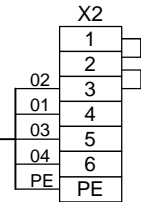
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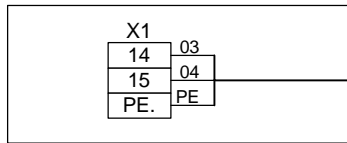
532MD01S01
Start/Stop/E-stop



MVDB 582ER54

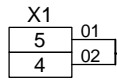


532MD01R01
Rotor Starter



Document: 80019896
Page: 01.003950

532MD01R01
Rotor Starter



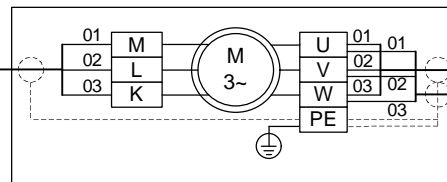
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Page: 01.003950

532MD01R01
Rotor Starter

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Page: 01.003950

321MD140R01H01

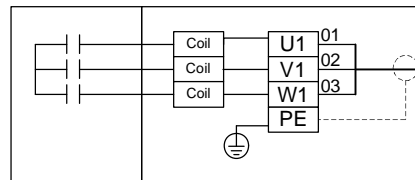
532MD01M01
Motor
5350 kW



532MD01M01H01

No of cables 2

532MD01C01
Capacitor Bank



532MD01C01H01

No of cables 1

MCC Position:
Unit Type: C01 NO
Net: 530LG01:DP3
Node: Field Device.045
532MD01Q01
Power Feeder



532MD01Q01

Raw Mill Motor
Power Feeder

80019896

01.003930

MVDB 582ER54

532FN01Q01
Power Feeder

532MD01Q01Y01

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Page: 01.003260

X3	
GN	1
RD	2
SH	SH1

582ER54ALV01Q01
Power Feeder

582ER54ALV01Q01
Y01

Document: 80019896
Page: 01.005290

X3	
GN	1.1
RD	2.1
SH	SH2

MCC Position:
Unit Type: C01 NO
Net: 530LG01:DP3
Node: Field Device.045
532MD01Q01
Power Feeder



532MD01Q01

Raw Mill Motor
Power Feeder

80019896

01.003940

530LG01A03

301JB110X08

AKA
Rotor Starter

	Address	Position:	Term:
220 VAC		X06.08.A	01L
Unit Ready	532MD01R01C41	DI	N02.01..08.24 X06.08.A 03
Temperature Alarm >73°C	532MD01R01T41	DI	N02.01..08.26 X06.08.A 05
Temperature Alarm >85°C	532MD01R01T42	DI	N02.01..08.25 X06.08.A 04
General Warning	532MD01R01U42	DI	N02.01..08.27 X06.08.A 06
Starter In First Step	532MD01R01Z41	DI	N02.01..08.22 X06.08.A 01
Starter In Last Step	532MD01R01Z42	DI	N02.01..08.23 X06.08.A 02

532MD01R01M02

AK4-EP	X1
02	6
01	7
03	10
	11
	16
04	17
	18
05	19
	20
06	21
	22
07	23
PE	PE.

532MD01Q01
Power Feeder 532MD01R01M01

Document: 80019896
Page: 01.003930

X1
02
01
03
04
05
06
PE
12
13
14
15
24
25
PE.

532MD01Q01
Power Feeder 532MD01R01C01

Document: 80019896
Page: 01.003930

X1
02
01
4
5

532MD01M01
Motor 532MD01R01H01

Document: 80019896 No of cables 6
Page: 01.003930

01
02
03
PE
M
L
K
PE

LVDB 582ER54AMC02

X1
U2
V2
W2
PE2
01
02
03
PE

MCC Position:
Unit Type: B32
532MD01Q02 Feeder

532MD01Q02W01

No of cables 1

X1
01
02
03
PE
1
2
3
PE

532MD01R01
Rotor Starter



532MD01R01

Raw Mill Motor
Rotor Starter

80019896

01.003950

Tonasa	NT E&H TMT 182 - 3 Nos	NT E&H TMT 182 - 3 Nos	-	3/15/2010 7:07:00 AM	1/27/2012 10:38:16 AM	Customer	A2
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530LG01A02

301JB100X01

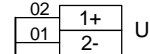
	Address	Position:	Term:			
+24 VDC			X05.01.A	07+	12	02
Winding U	532MD02N21T01	AI	N02.01..04.16	X05.01.A	11	01
+24 VDC			X05.01.A	08+	14	04
Winding V	532MD02N22T01	AI	N02.01..04.18	X05.01.A	13	03
+24 VDC			X05.01.A	09+	16	06
Winding W	532MD02N23T01	AI	N02.01..05.02	X05.01.A	15	05

532MD02N21C01

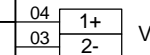
Endress & Hauser
Temperature Transmitter

iTemp PCP TMT 182

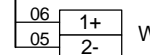
TRS1



TRS2



TRS3



Range: 0 - 200 °C

532MD02N21
Temperature



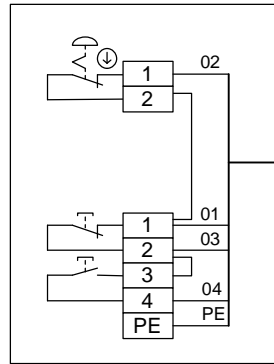
532MD02N21

Separator
Temperature

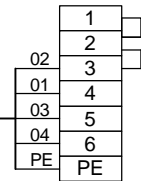
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01.003960

532MD02S01
Start/Stop/E-stop



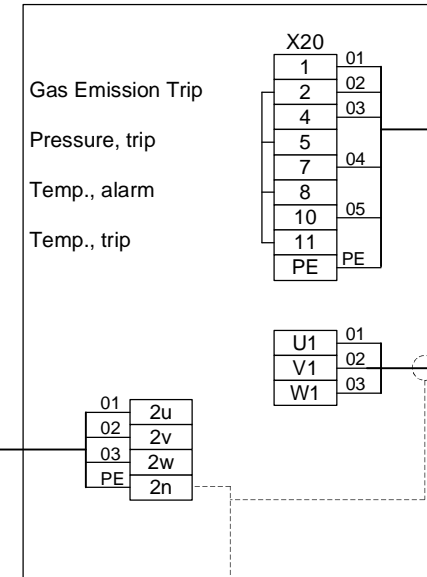
MVDB 582ER54



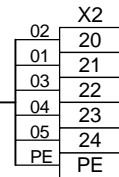
532MD02S01M01

532MD02T01

Transformer

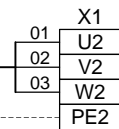


532MD02T01M01



532MD02T01H01

No of cables 1



532MD02U01
Frequency Converter

321MD152U01W01

Document: 80019896
Page: 01.003980

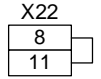
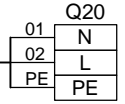
MCC Position:
Unit Type: C21 NO
Net: 530LG01:DP3
Node: Field Device.043
532MD02Q01
Power Feeder

ABB
Frequency Drive
ACS800-17-0540-7

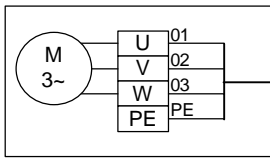
301UP110A03
Distribution

532MD02U01M01

Document: 80019896
Page: 01.000270

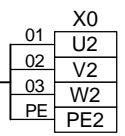


532MD02M01
Motor
390 kW



532MD02M01W01

No of cables 2

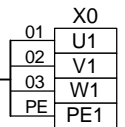


532MD02T01
Transformer

532MD02U01W01

No of cables 2

Document: 80019896
Page: 01.003970



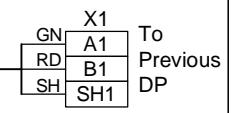
Net: 530LG01:DP3
Node: Field Device.018

532MD02U01
Frequency Converter

ABB
Frequency Drive
ACS800-17-0540-7

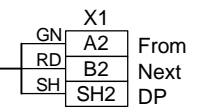
531BC04U01
Frequency Converter
Document: 80019896
Page: 01.002500

532MD02U01Y01



530LG01A01
PLC Cpu-Cabinet ER-54
Document: 80019896
Page: 01.001890

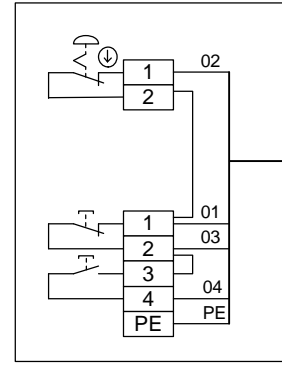
530LG01A01Y03



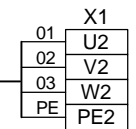
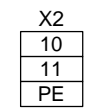
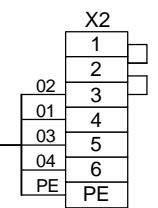
532MD02U01
Frequency Converter

LVDB 582ER54AMC02

532RF01S01
Start/Stop/E-stop



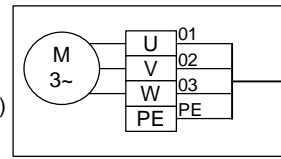
532RF01S01M01



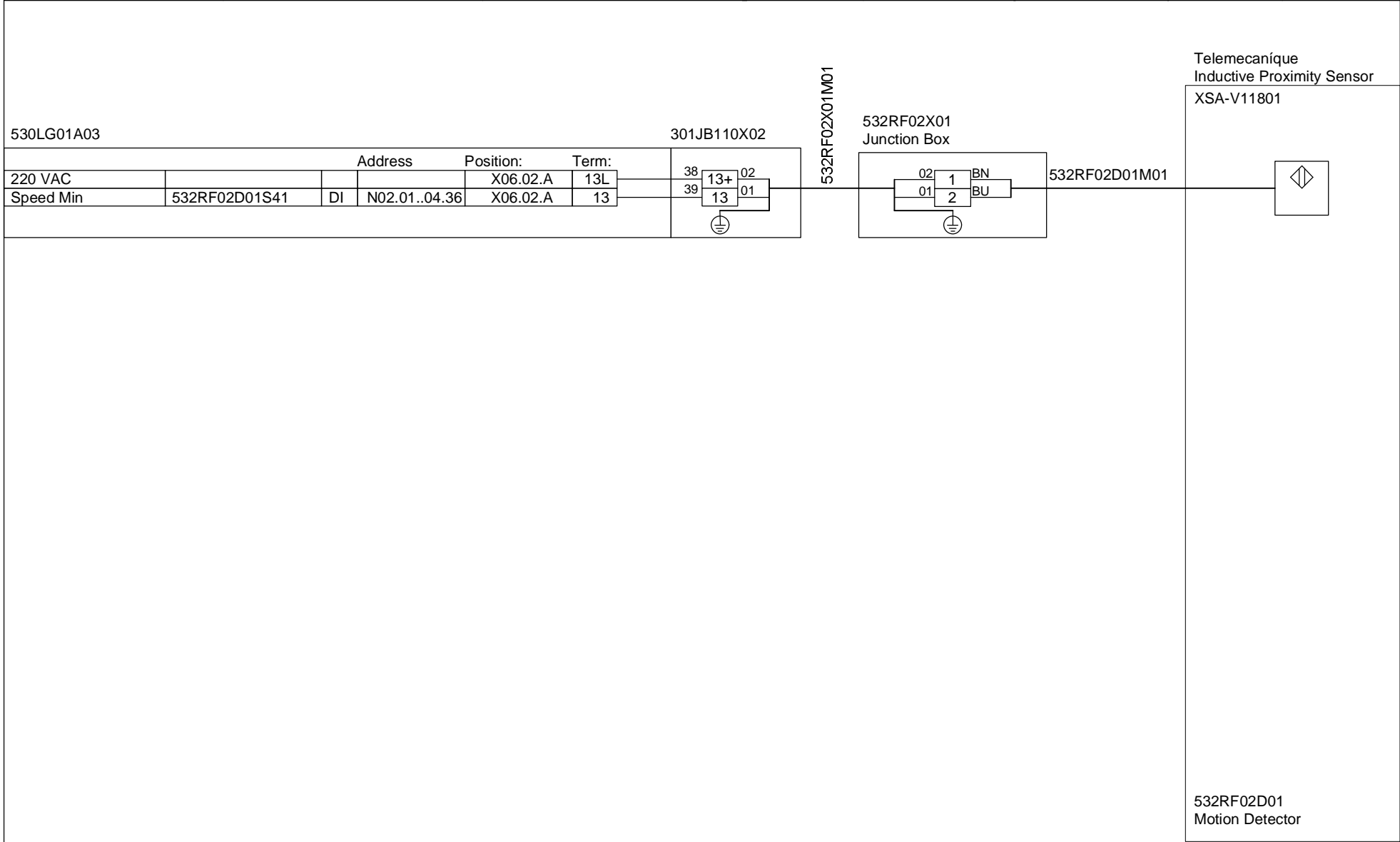
532RF01M01W01

No of cables 1

532RF01M01
Motor
0.37 kW (Derated)
0.37 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.056
532RF01Q01
Motor Starter



530LG01A03

301JB110X02

532RF02X01M01

532RF02X01
Junction Box

Telemecanique
Inductive Proximity Sensor
XSA-V11801

	Address	Position:	Term:
220 VAC		X06.02.A	13L
Speed Min	532RF02D01S41	DI N02.01..04.36	X06.02.A 13

532RF02D01M01

532RF02D01
Motion Detector



532RF02D01

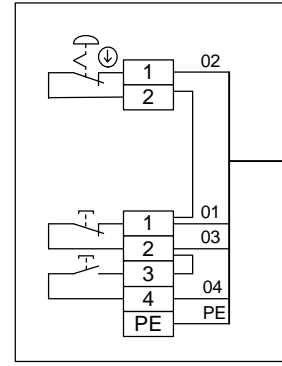
Rotary Feeder
Motion Detector

80019896

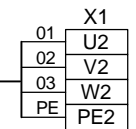
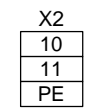
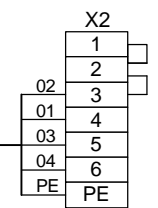
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LVDB 582ER54AMC02

532RF02S01
Start/Stop/E-stop



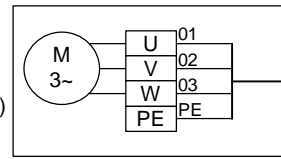
532RF02S01M01



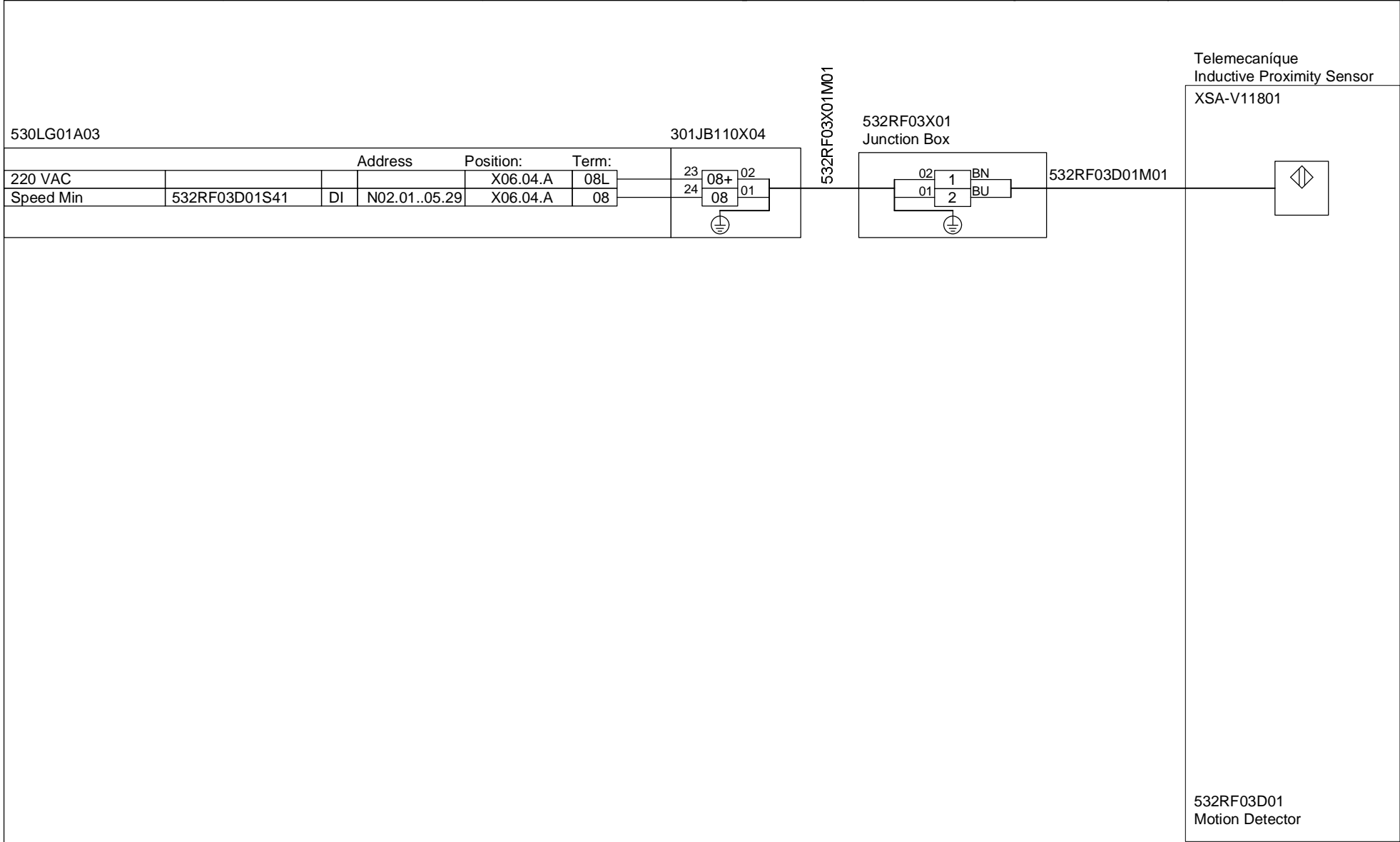
532RF02M01W01

No of cables 1

532RF02M01
Motor
14.5 kW (Derated)
15 kW

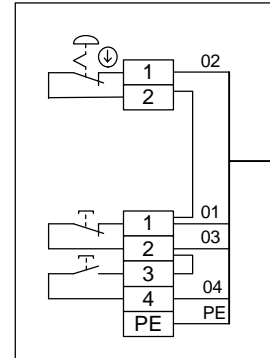


MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.055
532RF02Q01
Motor Starter

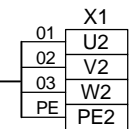
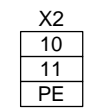
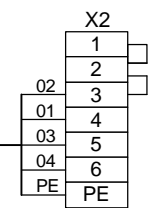


LVDB 582ER54AMC02

532RF03S01
Start/Stop/E-stop



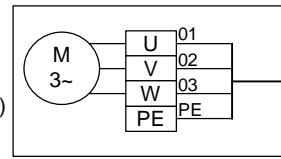
532RF03S01M01



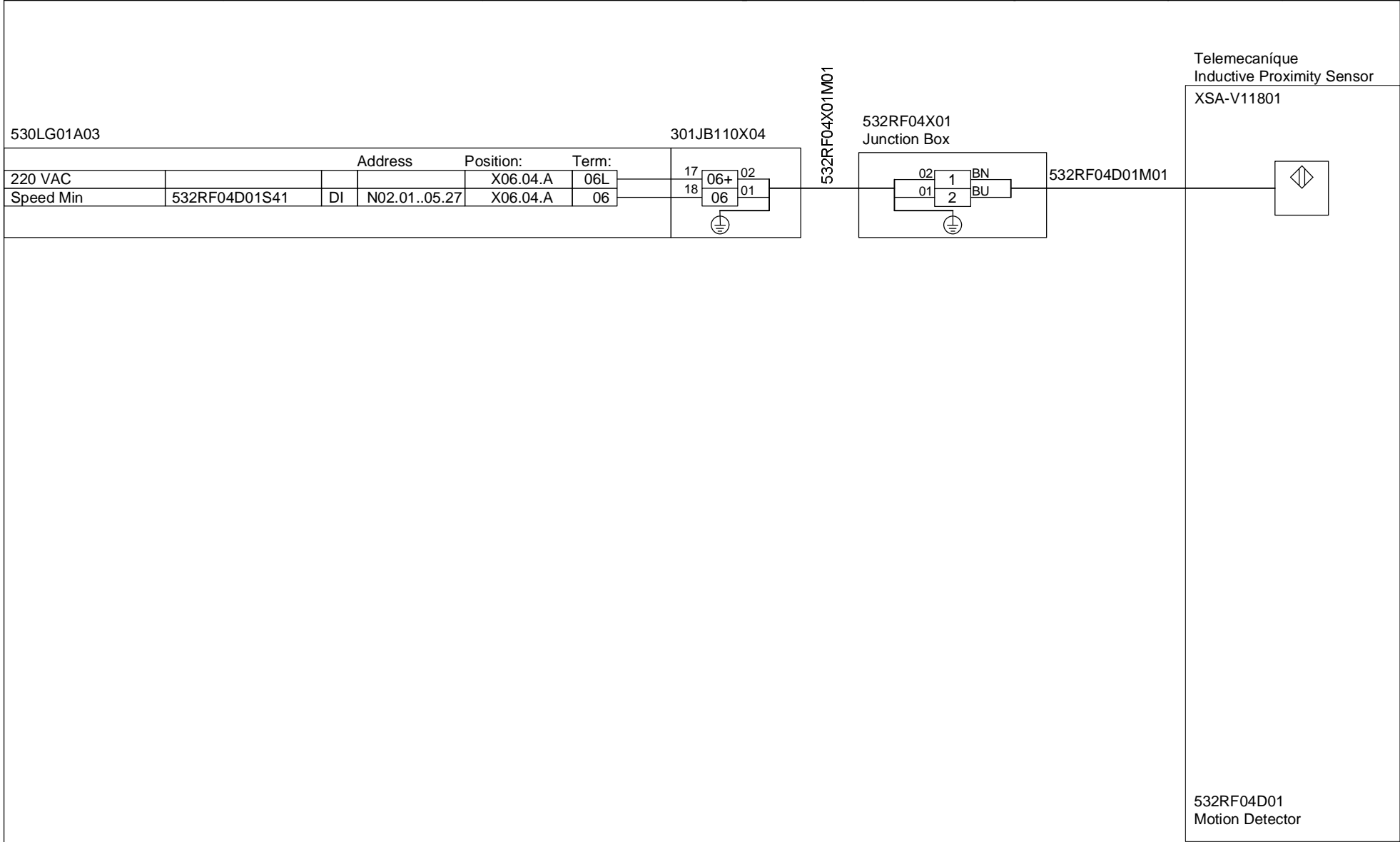
532RF03M01W01

No of cables 1

532RF03M01
Motor
4 kW (Derated)
4 kW

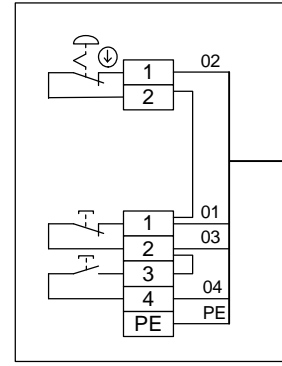


MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.059
532RF03Q01
Motor Starter

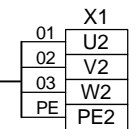
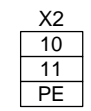
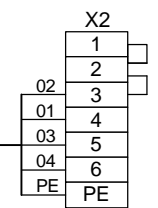


LVDB 582ER54AMC02

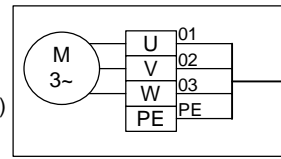
532RF04S01
Start/Stop/E-stop



532RF04S01M01



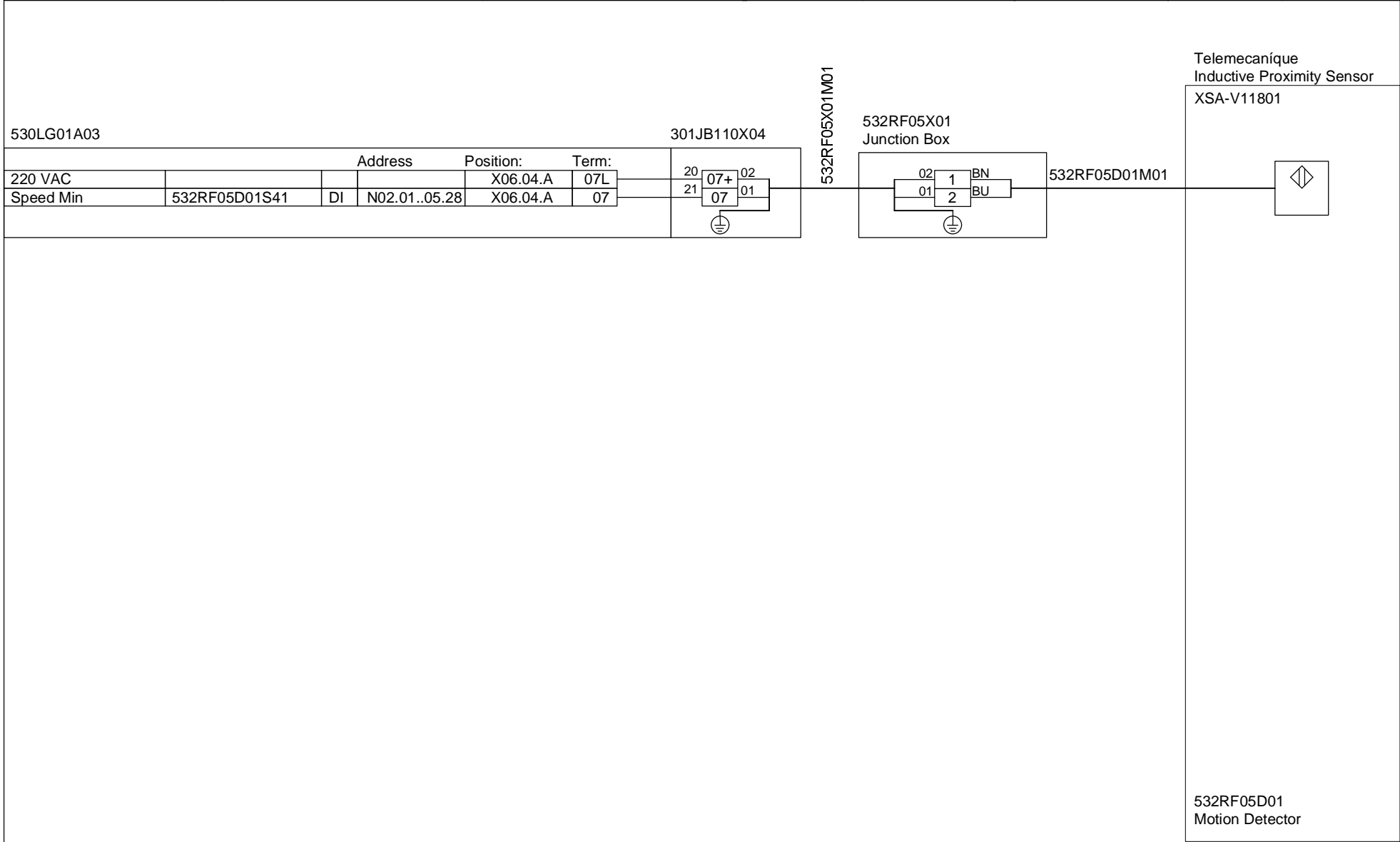
532RF04M01
Motor
4 kW (Derated)
4 kW



532RF04M01W01

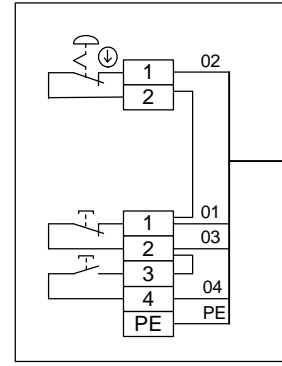
No of cables 1

MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.057
532RF04Q01
Motor Starter

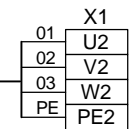
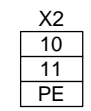
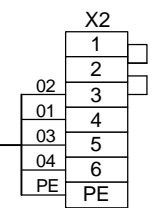


LVDB 582ER54AMC02

532RF05S01
Start/Stop/E-stop



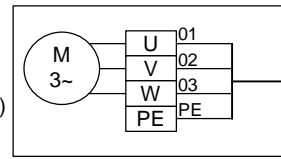
532RF05S01M01



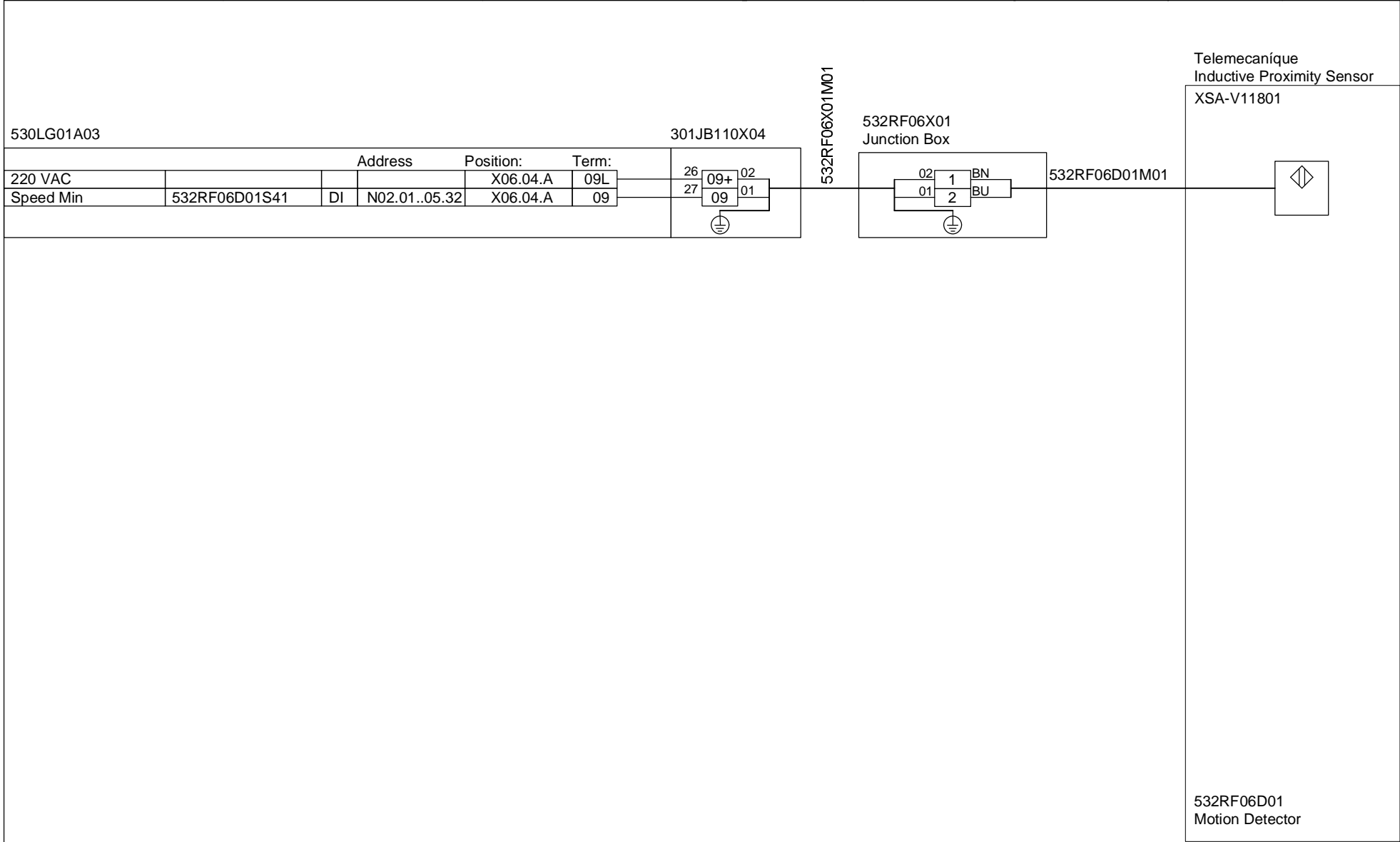
532RF05M01W01

No of cables 1

532RF05M01
Motor
4 kW (Derated)
4 kW

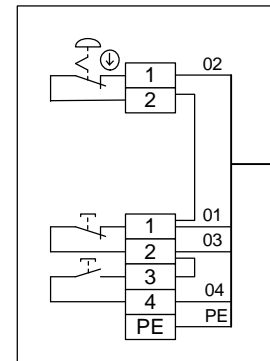


MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.058
532RF05Q01
Motor Starter

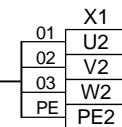
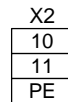
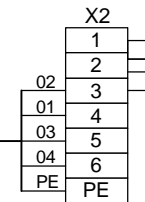


LVDB 582ER54AMC02

532RF06S01
Start/Stop/E-stop



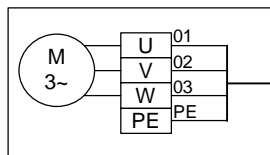
532RF06S01M01



532RF06M01W01

No of cables 1

532RF06M01
Motor
4 kW (Derated)
4 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.060
532RF06Q01
Motor Starter



532RF06M01

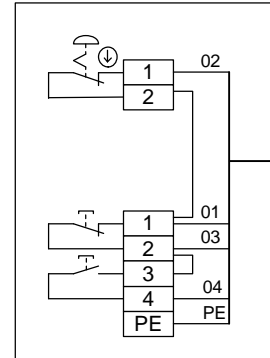
Rotary Feeder
Motor

80019896

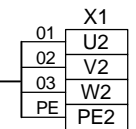
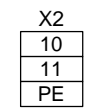
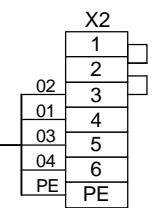
01.004100

LVDB 582ER54AMC02

532RF07S01
Start/Stop/E-stop



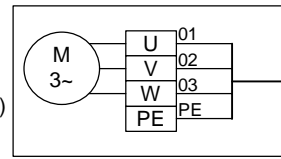
532RF07S01M01



532RF07M01W01

No of cables 1

532RF07M01
Motor
0.37 kW (Derated)
0.37 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.062
532RF07Q01
Motor Starter

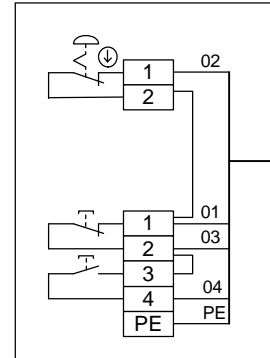


532RF07M01 Rotary Air lock Motor

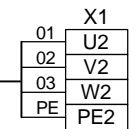
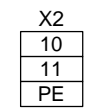
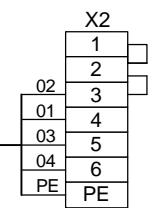
80019896 01.004110

LVDB 582ER54AMC02

532RF08S01
Start/Stop/E-stop



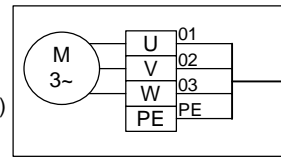
532RF08S01M01



532RF08M01W01

No of cables 1

532RF08M01
Motor
0.37 kW (Derated)
0.37 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.061
532RF08Q01
Motor Starter



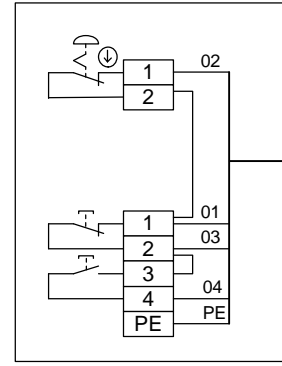
532RF08M01 Rotary Air lock Motor

80019896

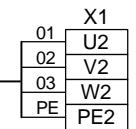
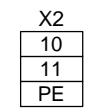
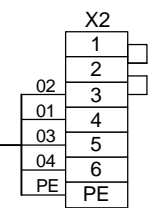
01.004120

LVDB 582ER54AMC02

532RF09S01
Start/Stop/E-stop



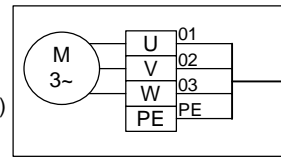
532RF09S01M01



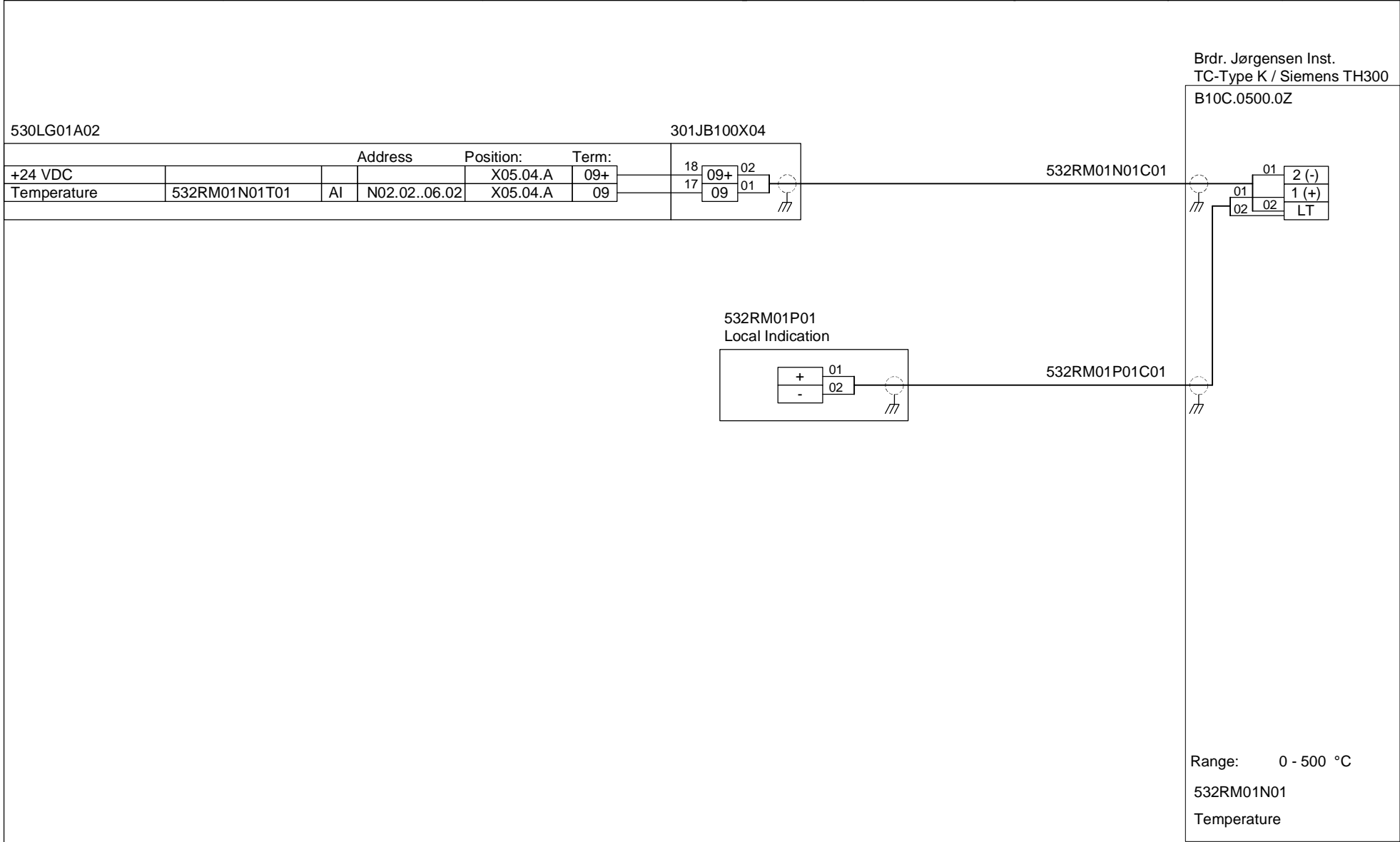
532RF09M01W01

No of cables 1

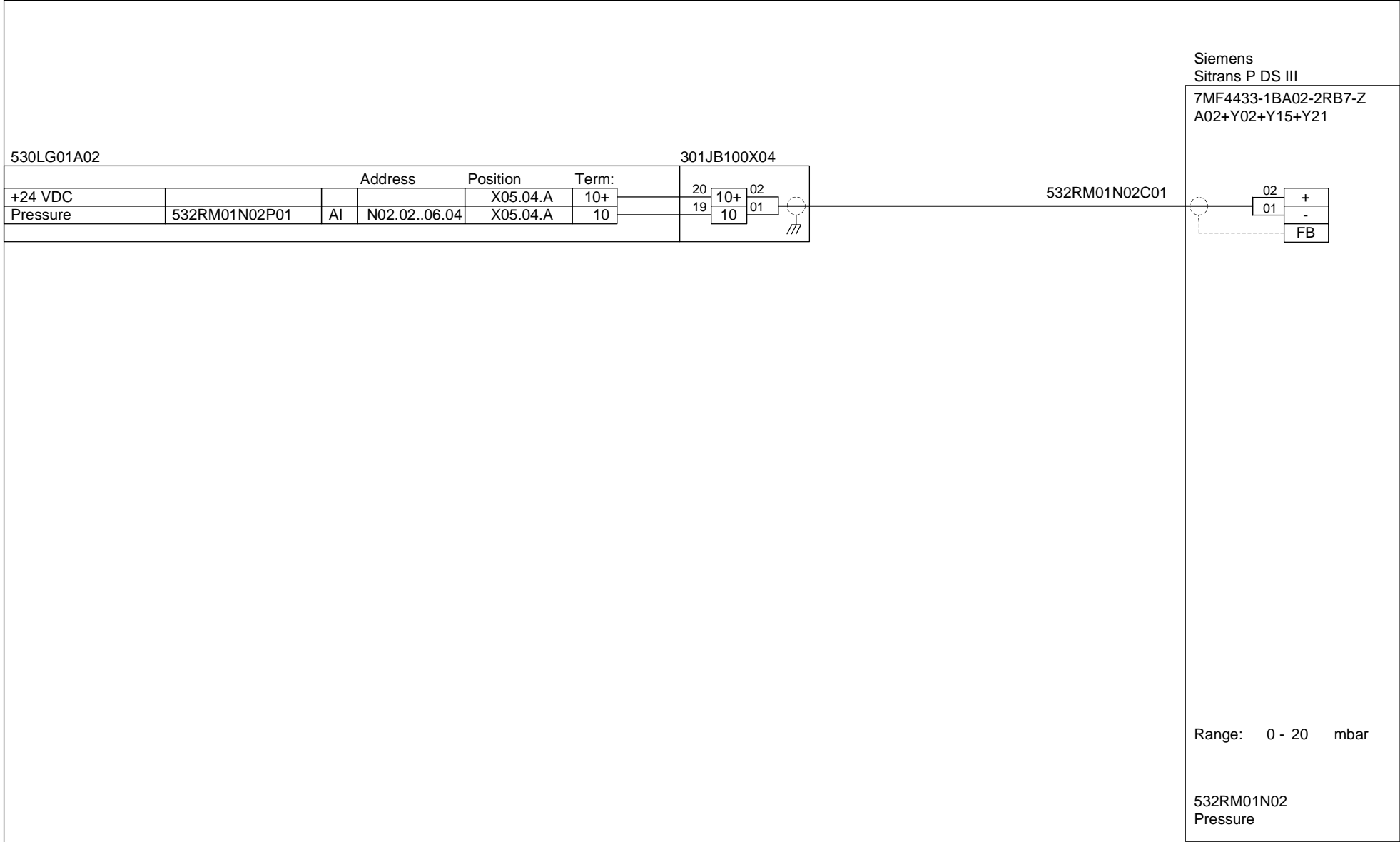
532RF09M01
Motor
0.37 kW (Derated)
0.37 kW



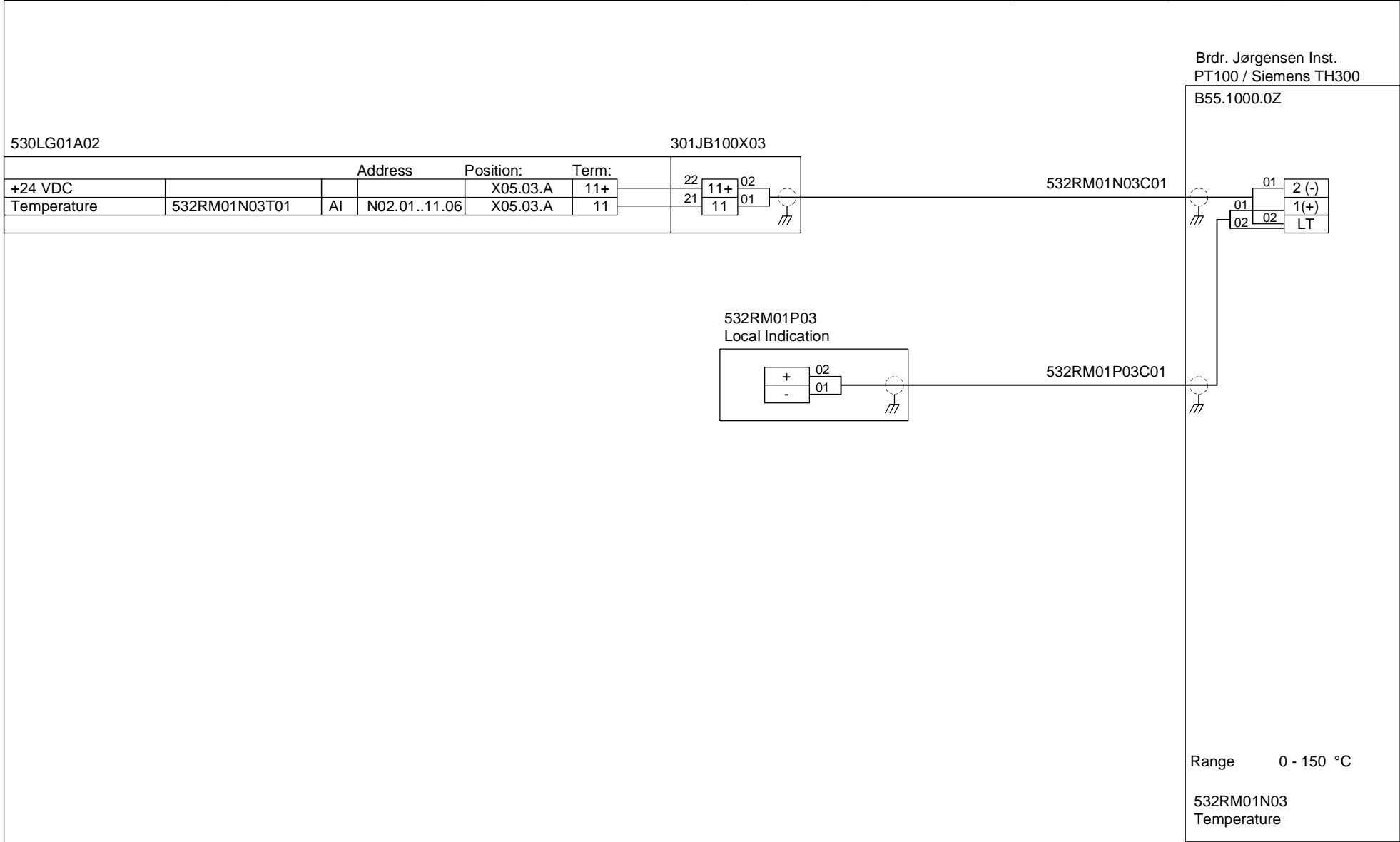
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.063
532RF09Q01
Motor Starter



Tonasa	NP Sitrans P DS III, 7MF4433 - LD	NP Sitrans P DS III, 7MF4433 - LD	-	3/15/2010 12:01:10 PM	1/27/2012 10:38:28 AM	Customer	A2
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	532RM01N02	Raw Mill Inlet Pressure	80019896	01.004150
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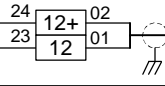


Tonasa	NP Sitrans P DS III, 7MF4033 - LD	NP Sitrans P DS III, 7MF4033 - LD	-	3/15/2010 12:02:11 PM	1/27/2012 10:38:30 AM	Customer	A2
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530LG01A02

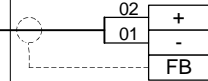
301JB100X03

	Address	Position:	Term:
+24 VDC		X05.03.A	12+
Pressure	532RM01N04P01	AI N02.01..11.08	X05.03.A 12



532RM01N04C01

Siemens
Sitrans P DS III
7MF4033-1BA00-2RB7-Z
A02+Y01+Y15+Y21

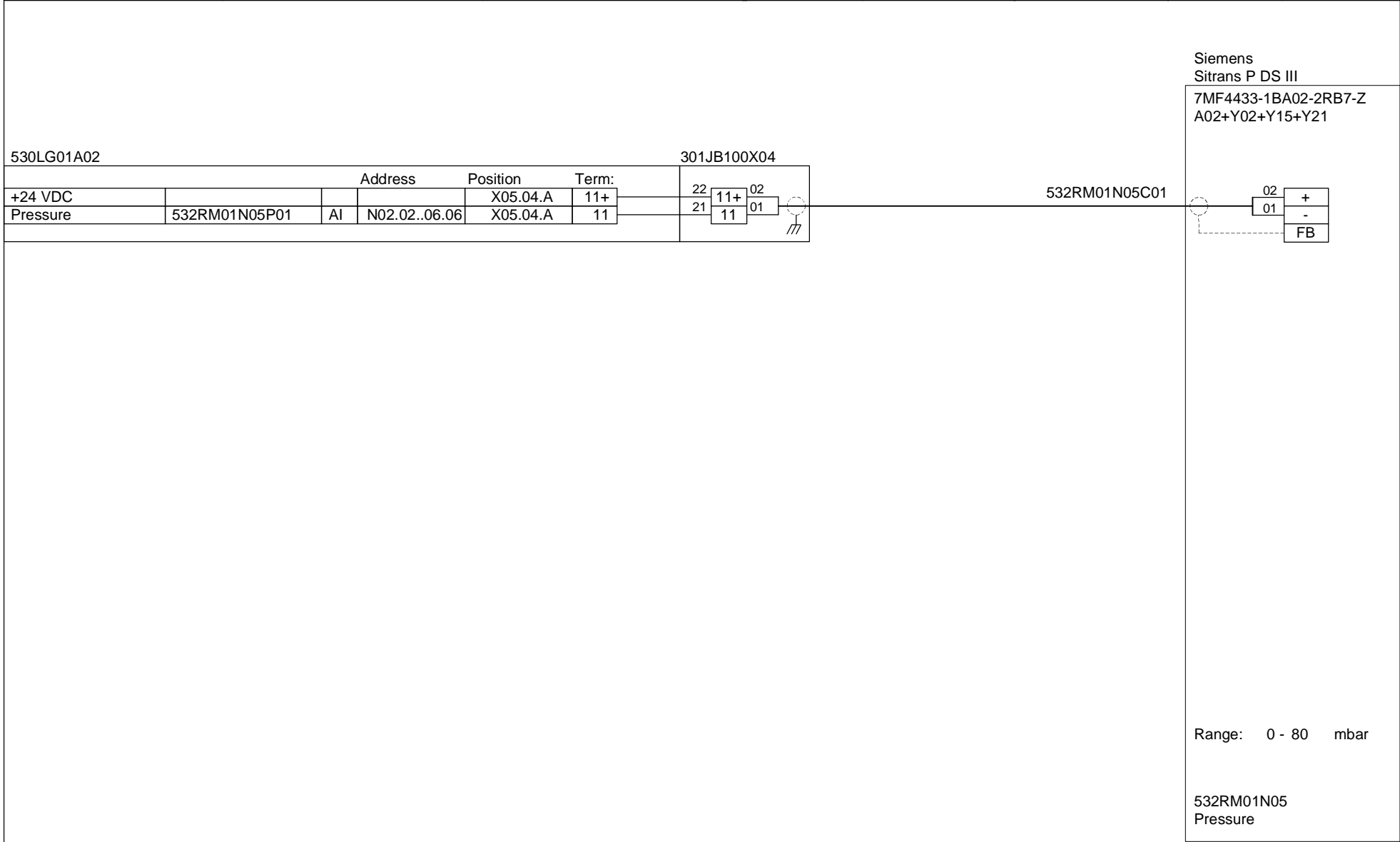


Range 0 - 100 mbar

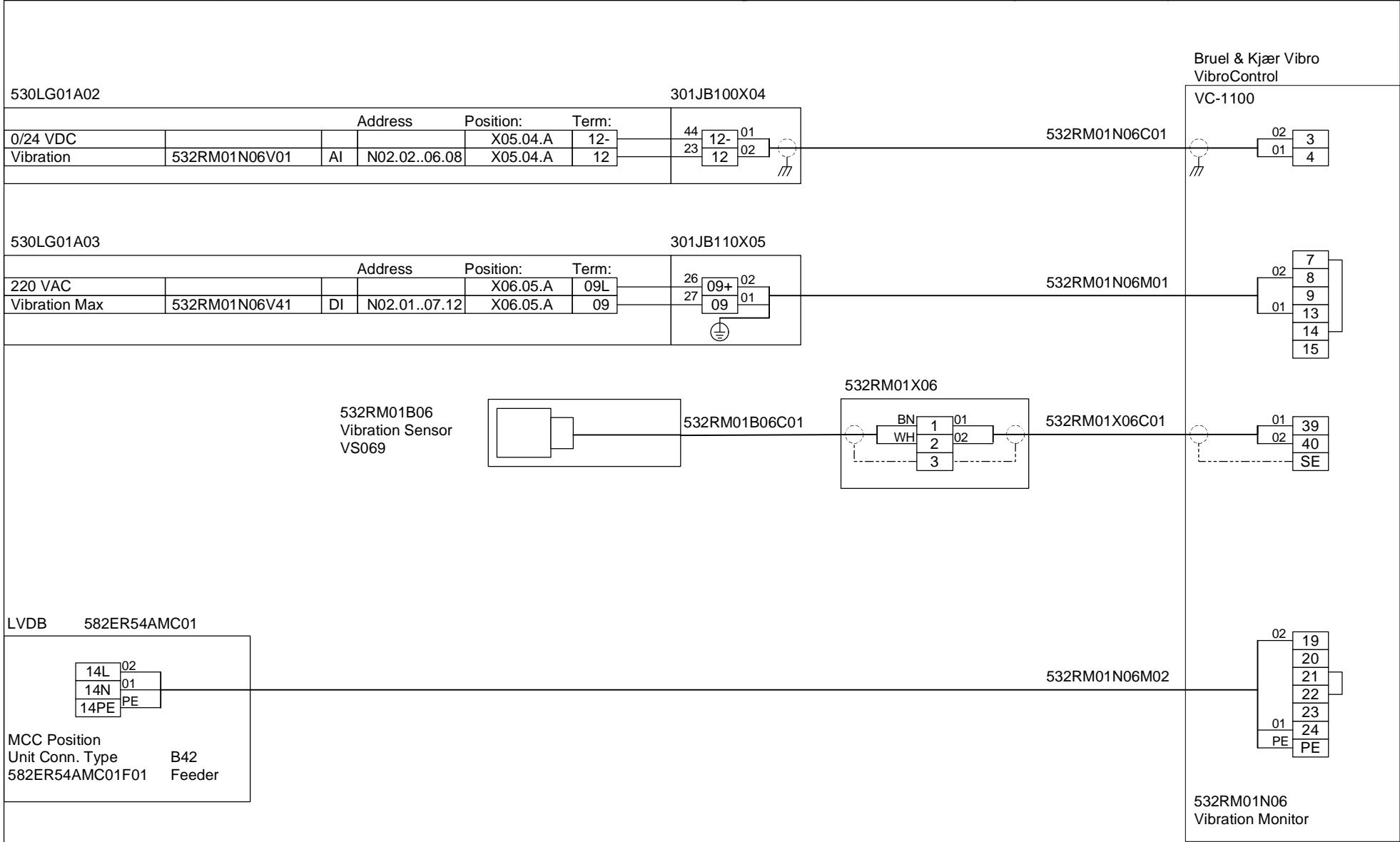
532RM01N04
Pressure

	532RM01N04	Raw Mill Outlet Pressure	80019896	01.004170
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Tonasa	NP Sitrans P DS III, 7MF4433 - LD	NP Sitrans P DS III, 7MF4433 - LD	-	3/15/2010 12:01:37 PM	1/27/2012 10:38:30 AM	Customer	A2
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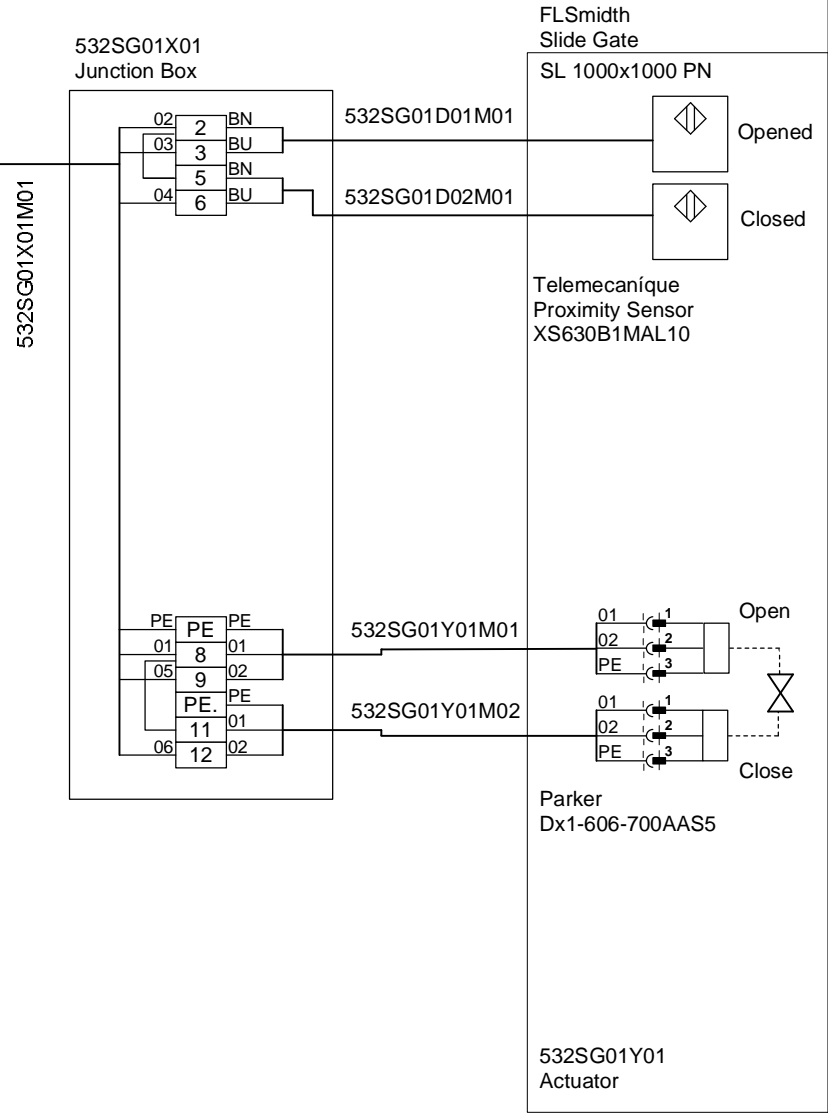
	532RM01N05	Raw Mill Differential Pressure	80019896	01.004180
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530LG01A03

301JB110X05

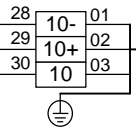
	Address	Position:	Term:	50	17-	01
0/220 VAC			X06.05.A	17N	29	02
220 VAC			X06.05.A	10L	30	03
Open	532SG01Y01Z41	DI	N02.01..07.13	X06.05.A	10	04
Closed	532SG01Y01Z42	DI	N02.01..07.14	X06.05.A	11	05
Command	532SG01Y01C31	DO	N02.01..09.02	X06.05.A	17	06
Command	532SG01Y01C32	DO	N02.01..09.03	X06.05.A	18	06



530LG01A03

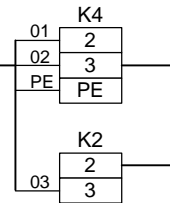
301JB110X07

	Address	Position:	Term:	
0/220 VAC		X06.07.A	10N	28
220 VAC		X06.07.A	10L	29
Level Max	532SI01D01L41	DI	N02.01..08.13	X06.07.A
				10



Siemens
Pointek CLS300
7ML5510-2AF40-2AA0

532SI01D01M01



532SI01D01
Level Switch -1



532SI01D01

Silo
Level Switch -1

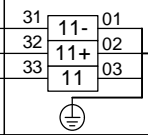
80019896

01.004210

530LG01A03

301JB110X07

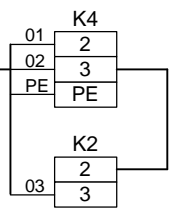
	Address	Position:	Term:	
0/220 VAC		X06.07.A	11N	31
220 VAC		X06.07.A	11L	32
Level Max	532SI01D02L41	DI	N02.01..08.14	33



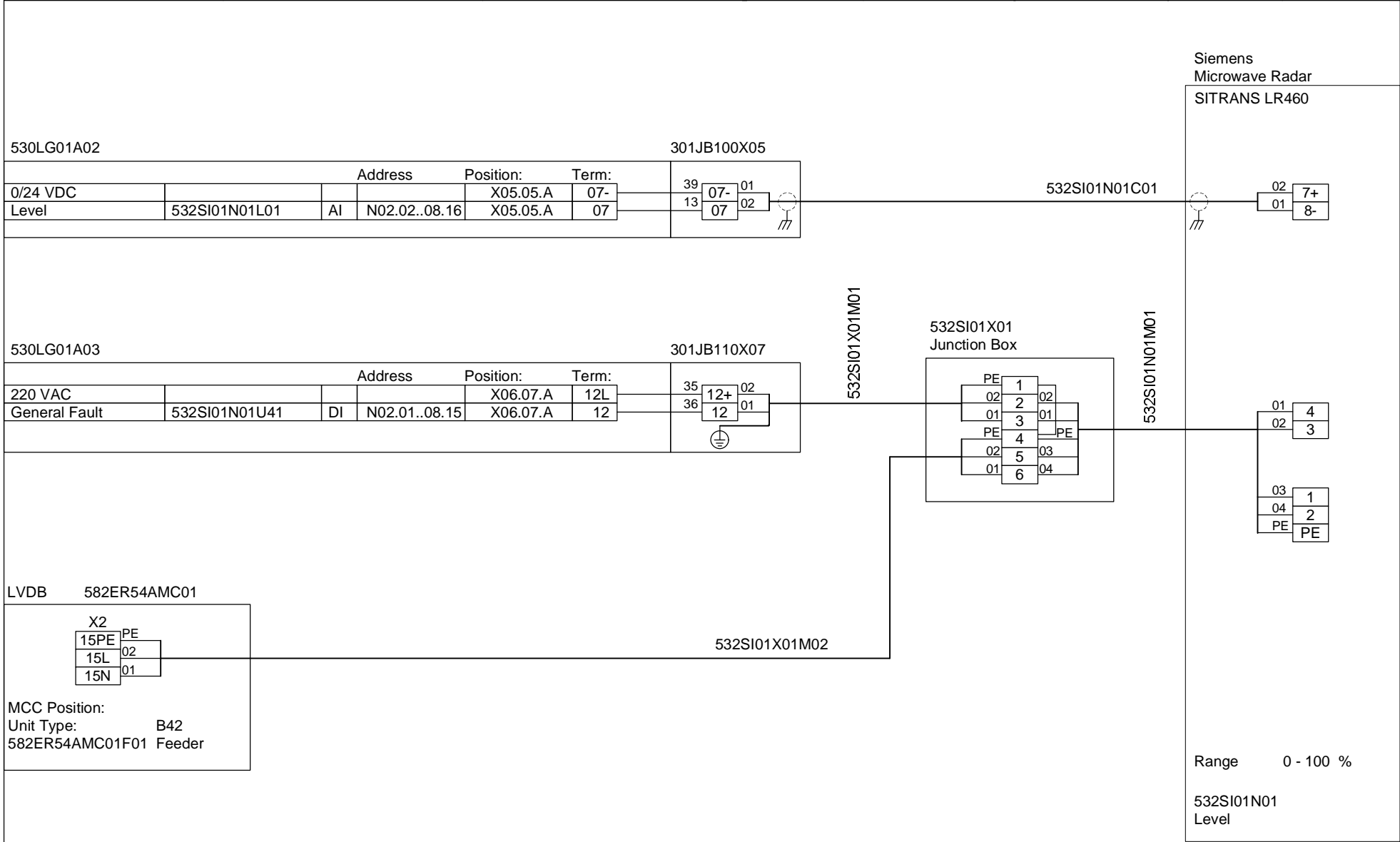
532SI01D02M01

Siemens
Pointek CLS300

7ML5510-2AF40-2AA0



532SI01D02
Level Switch -2



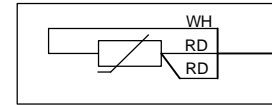
530LG01A02

301JB100X01

Brdr. Jørgensen Inst.
Siemens TH300
B92.0000.0Z

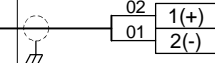
	Address	Position:	Term:
+24 VDC		X05.01.A	03+
Temperature	532SR01N11T01	AI N02.01..04.06	X05.01.A 03

532SR01B11
Sensor



Pt100 RTD

532SR01N11C01



532SR01B11C01



Range 0 - 150 °C

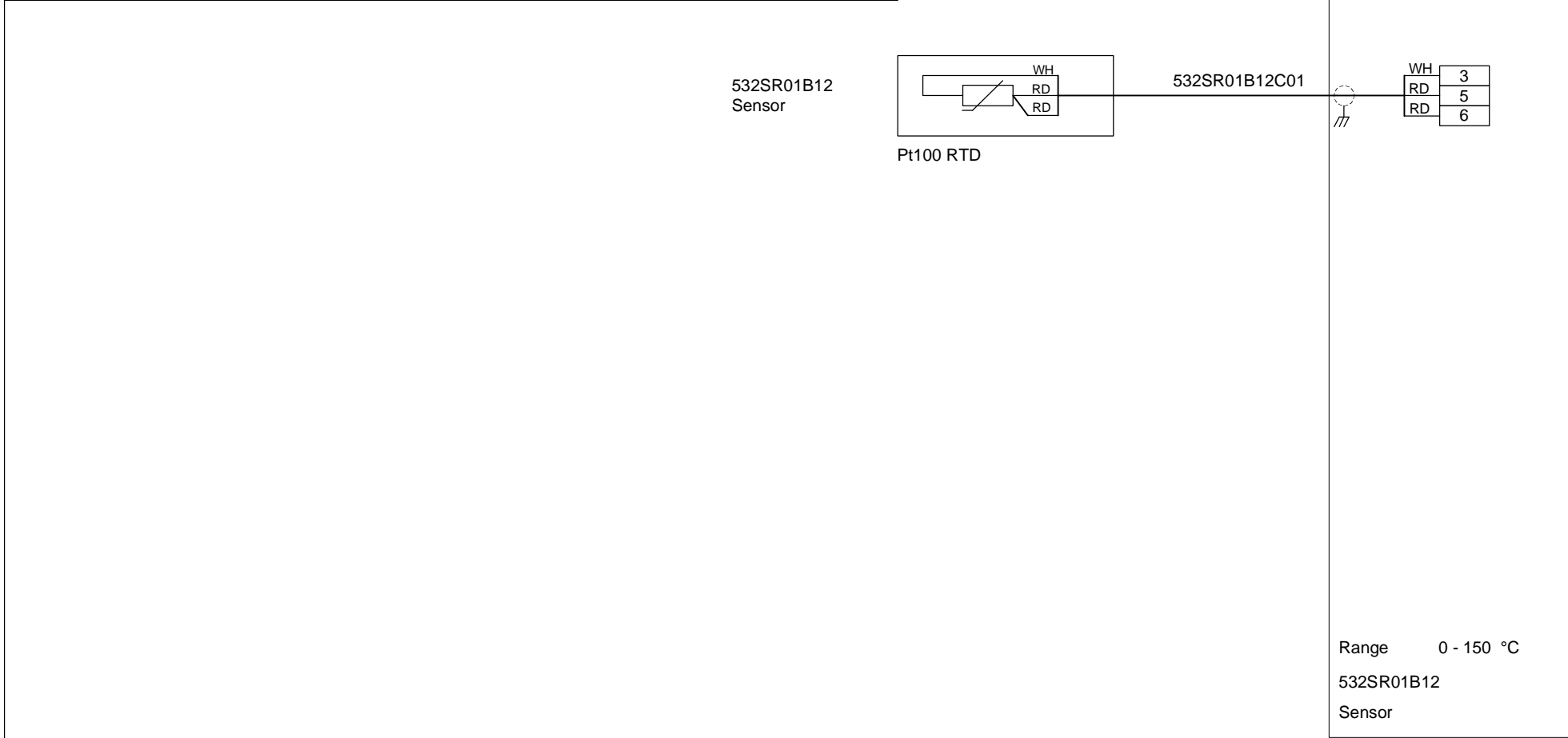
532SR01B11
Sensor

530LG01A02

301JB100X01

Brdr. Jørgensen Inst.
Siemens TH300
B92.0000.0Z

	Address	Position:	Term:
+24 VDC		X05.01.A	04+
Temperature	532SR01N12T01	AI N02.01..04.08	X05.01.A 04



Range 0 - 150 °C

532SR01B12
Sensor

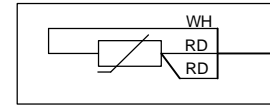
530LG01A02

301JB100X01

Brdr. Jørgensen Inst.
Siemens TH300
B92.0000.0Z

	Address	Position:	Term:
+24 VDC		X05.01.A	05+
Temperature	532SR01N13T01	AI N02.01..04.12	X05.01.A 05

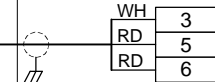
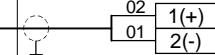
532SR01B13
Sensor



Pt100 RTD

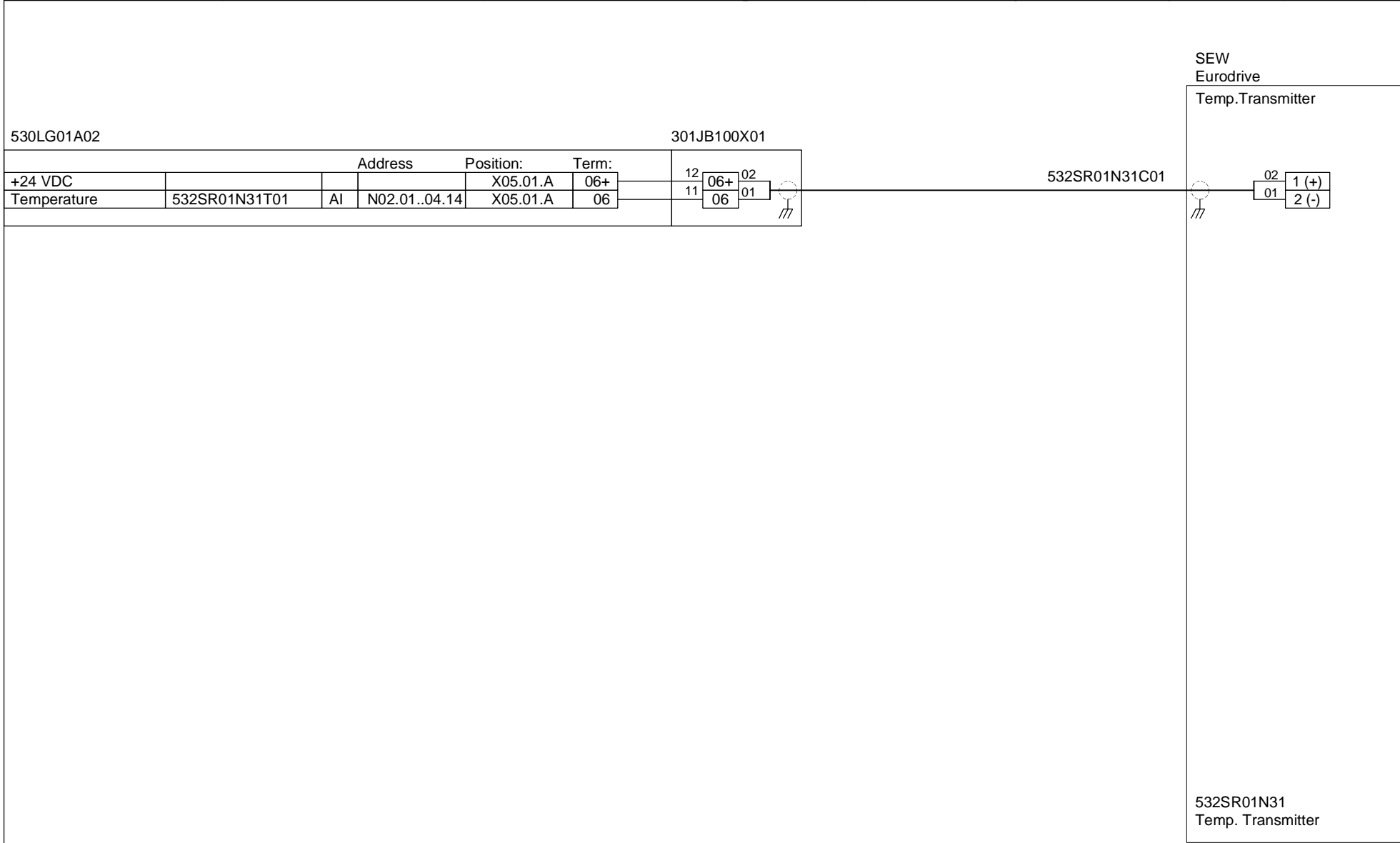
532SR01N13C01

532SR01B13C01



Range 0 - 150 °C

532SR01B13
Sensor



Tonasa	Y Kinetrol Butterfly Valve	Y Kinetrol Butterfly Valve	-	4/8/2010 10:37:08 AM	1/27/2012 10:38:37 AM	Customer	A2
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530LG01A02

301JB100X02

	Address	Position:	Term:	
0/24 VDC		X05.02.A	18-	52
+24 VDC		X05.02.A	12+	24
Pos. Setpoint	532TV01Y01Z11	AO N02.01..09.07	X05.02.A	18
Position	532TV01Y01Z01	AI N02.01..08.08	X05.02.A	12

Kinetrol
SPDT

532TV01Y01C01

01	12
03	11
02	31
04	32

532TV01Y01
Actuator



532TV01Y01

Fresh Air
Actuator

80019896

01.004280

Tonasa	DL Siemens LVL 200	DL Siemens LVL200	-	3/15/2010 7:31:57 AM	1/27/2012 10:38:38 AM	Customer	A2
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530LG01A03

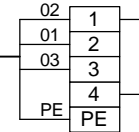
301JB110X05

Siemens
Sitrans LVL200

7ML5746-2AA07-4AA0

	Address	Position:	Term:	
0/220 VAC		X06.05.A	12N	34 12- 01
220 VAC		X06.05.A	12L	35 12+ 02
Level Max	532WI01D01L41	DI	N02.01..07.15	36 12 03

532WI01D01M01



532WI01D01
Level Switch



532WI01D01

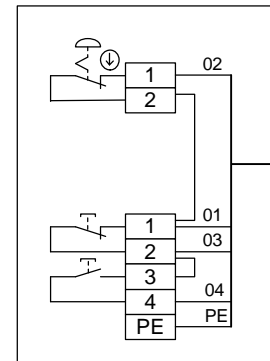
Water Injection
Level Switch

80019896

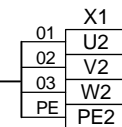
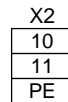
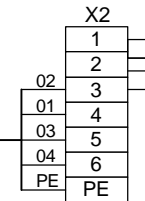
01.004290

LVDB 582ER54AMC02

532WI01S01
Start/Stop/E-stop



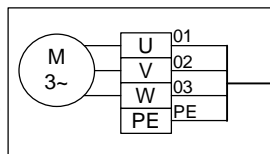
532WI01S01M01



532WI01M01W01

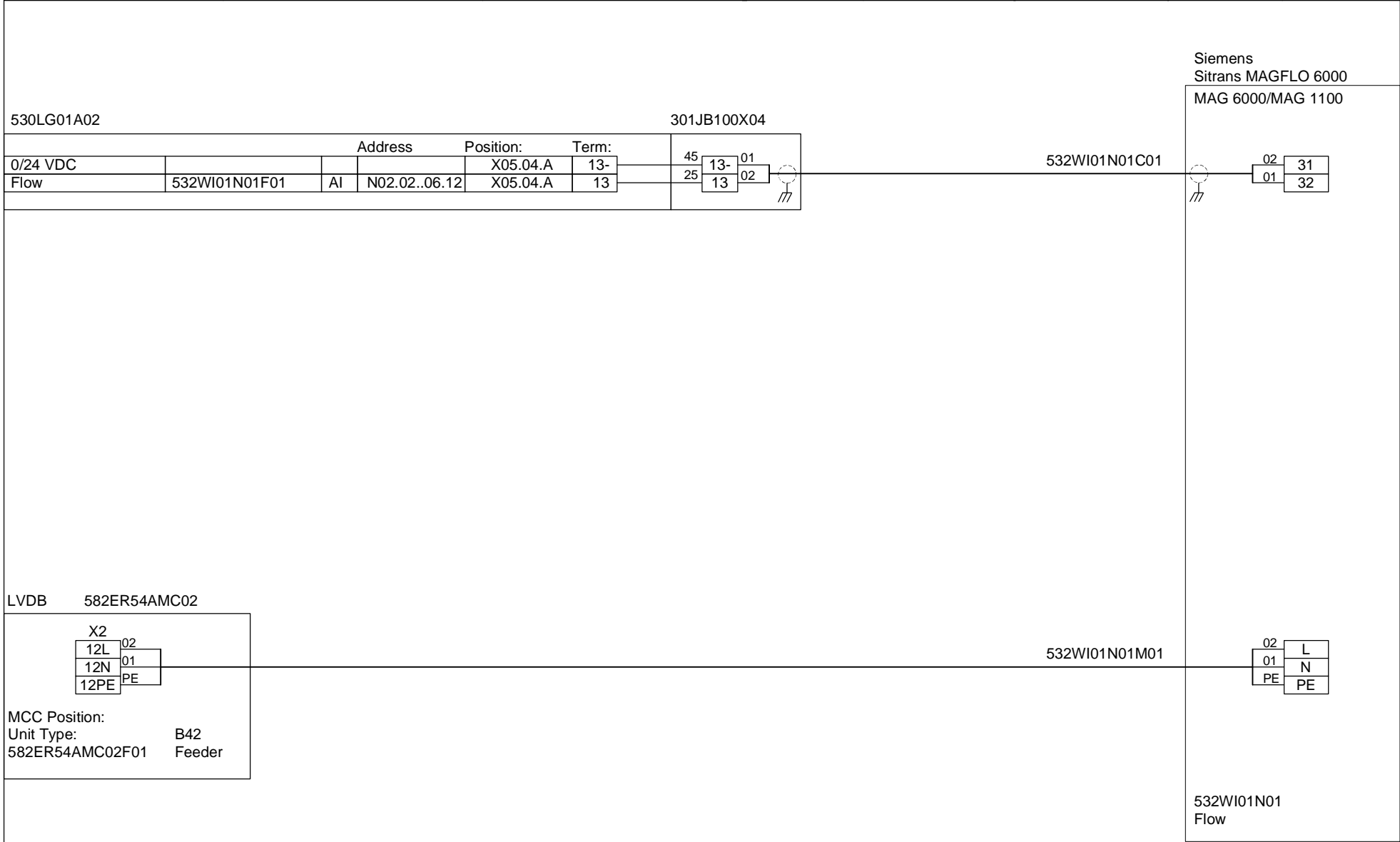
No of cables 1

532WI01M01
Motor
11 kW (Derated)
11 kW

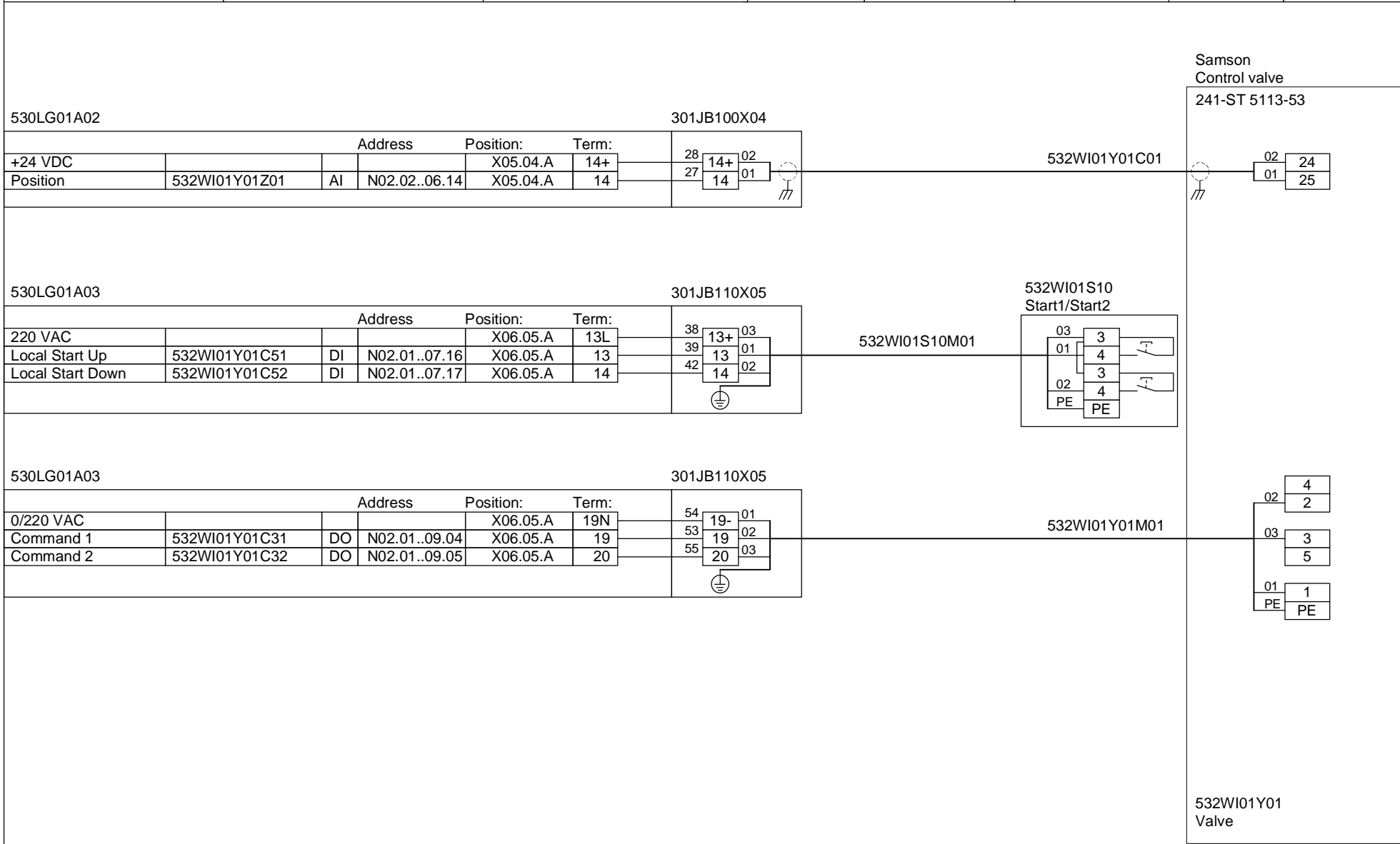


MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.064
532WI01Q01
Motor Starter

Tonasa	NF Sitrans MAGFLO 1100	NF Sitrans MAGFLO 1100	-	3/16/2010 7:14:34 AM	1/27/2012 10:38:39 AM	Customer	A2
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	532WI01N01	Water Injection Flow	80019896	01.004310
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Tonasa	Q B28 Lighting	Q B28 Lighting	-	11/30/2010 10:58:03 AM	1/27/2012 10:38:40 AM	Customer	A2
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Customer
Supply

LVDB 583ER53MC01

X1	
U2	02
V2	03
W2	04
N2	01
PE2	PE

MCC Position:
Unit Type: B28
544LD01Q01 Feeder

544LD01Q01W01

No of cables 2

02	U1
03	V1
04	W1
01	N1
PE	PE1

544LD01A01
Cabinet



544LD01A01

Lighting Transformer
Cabinet

80019896

01.004330

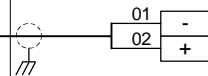
Tonasa	NL Generic (Single-AI)	NL Generic (Single-AI)	-	5/2/2011 9:19:13 AM	1/27/2012 10:38:41 AM	Customer	A2
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530LG01A06

	Address	Position	Term:
+24 VDC		X05.02.A	04+
Temperature High	547CT01N01T01	AI N02.01..07.08	X05.02.A 04

Customer
Supply

547CT01N01C01



This model needs detailed information from Client on terminals to be connected.
Terminals considered now are tentative

Range 0 - 130 °C

547CT01N01
Temperature

	547CT01N01	Cooling Tower Temperature	80019896	01.004340
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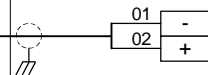
Tonasa	NL Generic (Single-AI)	NL Generic (Single-AI)	-	5/2/2011 9:20:58 AM	1/27/2012 10:38:42 AM	Customer	A2
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530LG01A06

	Address	Position	Term:
+24 VDC		X05.02.A	05+
Level	547CT01N02L01	AI N02.01..07.12	05

Customer
Supply

547CT01N02C01



This model needs detailed information from Client on terminals to be connected.
Terminals considered now are tentative

Range 0 - 100 %

547CT01N02
Level

	547CT01N02	Cooling Tower Level	80019896	01.004350
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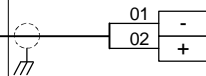
Tonasa	NL Generic (Single-AI)	NL Generic (Single-AI)	-	5/2/2011 9:21:32 AM	1/27/2012 10:38:42 AM	Customer	A2
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530LG01A06

	Address	Position	Term:
+24 VDC		X05.02.A	06+
Temperature High	547CT02N01T01	AI N02.01..07.14	X05.02.A 06

Customer
Supply

547CT02N01C01



This model needs detailed information from Client on terminals to be connected.
Terminals considered now are tentative

Range 0 - 130 °C

547CT02N01
Temperature

	547CT02N01	Cooling Tower Temperature	80019896	01.004360
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Tonasa	NL Generic (Single-AI)	NL Generic (Single-AI)	-	5/2/2011 9:21:58 AM	1/27/2012 10:38:43 AM	Customer	A2
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530LG01A06

	Address	Position	Term:
+24 VDC		X05.02.A	07+
Level	547CT02N02L01	AI N02.01..07.16	07



547CT02N02C01



This model needs detailed information from Client on terminals to be connected.
Terminals considered now are tentative

Range 0 - 100 %

547CT02N02
Level

	547CT02N02	Cooling Tower Level	80019896	01.004370
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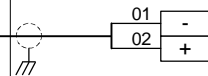
Tonasa	NL Generic (Single-AI)	NL Generic (Single-AI)	-	5/2/2011 9:22:18 AM	1/27/2012 10:38:43 AM	Customer	A2
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530LG01A06

	Address	Position	Term:
+24 VDC		X05.02.A	08+
Temperature High	547CT03N01T01	AI N02.01..07.18	X05.02.A 08

Customer
Supply

547CT03N01C01



This model needs detailed information from Client on terminals to be connected.
Terminals considered now are tentative

Range 0 - 130 °C

547CT03N01
Temperature

	547CT03N01	Cooling Tower Temperature	80019896	01.004380
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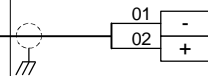
Tonasa	NL Generic (Single-AI)	NL Generic (Single-AI)	-	5/2/2011 9:26:55 AM	1/27/2012 10:38:44 AM	Customer	A2
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530LG01A06

	Address	Position	Term:
+24 VDC		X05.02.A	09+
Level	547CT03N02L01	AI N02.01..08.02	X05.02.A 09

Customer
Supply

547CT03N02C01



This model needs detailed information from Client on terminals to be connected.
Terminals considered now are tentative

Range 0 - 100 %

547CT03N02
Level

	547CT03N02	Cooling Tower Level	80019896	01.004390
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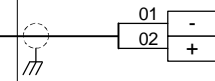
Tonasa	NL Generic (Single-AI)	NL Generic (Single-AI)	-	5/2/2011 9:27:22 AM	1/27/2012 10:38:45 AM	Customer	A2
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530LG01A06

	Address	Position	Term:
+24 VDC		X05.02.A	10+
Flow Capacity	547WT01N01F01	X05.02.A	10



547WT01N01C01



This model needs detailed information from Client on terminals to be connected.
Terminals considered now are tentative

Range 0 - 100 %

547WT01N01
Flow

	547WT01N01	Water Treatment 1 Flow Capacity	80019896	01.004400
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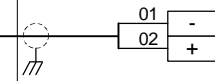
Tonasa	NL Generic (Single-AI)	NL Generic (Single-AI)	-	5/2/2011 9:27:50 AM	1/27/2012 10:38:45 AM	Customer	A2
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530LG01A06

	Address	Position	Term:
+24 VDC		X05.02.A	11+
Flow Capacity	547WT02N01F01	X05.02.A	11



547WT02N01C01



This model needs detailed information from Client on terminals to be connected.
Terminals considered now are tentative

Range 0 - 100 %

547WT02N01
Flow

	547WT02N01	Water Treatment 2 Flow Capacity	80019896	01.004410
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Tonasa	NL Generic (Single-AI)	NL Generic (Single-AI)	-	5/2/2011 9:28:13 AM	1/27/2012 10:38:46 AM	Customer	A2
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530LG01A06

	Address	Position	Term:
+24 VDC		X05.02.A	12+
Water Flow	547WT03N01F01	AI N02.01..08.08	X05.02.A 12



547WT03N01C01



This model needs detailed information from Client on terminals to be connected.
Terminals considered now are tentative

Range 0 - 100 %

547WT03N01
Flow

	547WT03N01	Water Treatment Flow Spare	80019896	01.004420
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Tonasa	Q B28 Dist. Transformer	Q B28 Dist. Transformer	-	11/30/2010 10:58:24 AM	1/27/2012 10:38:46 AM	Customer	A2
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Customer
Supply

LVDB 583ER53MC01

X1	
U2	02
V2	03
W2	04
N2	01
PE2	PE

MCC Position:
Unit Type: B28
574PD01Q01 Feeder

574PD01Q01W01

No of cables 2

02	U1
03	V1
04	W1
01	N1
PE	PE1

574PD01A01
Cabinet



574PD01A01

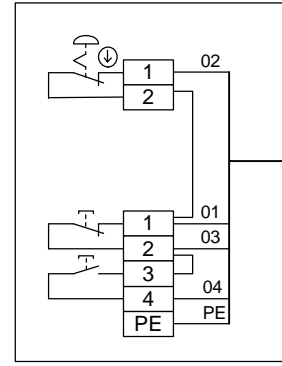
Distribution Transformer
Cabinet

80019896

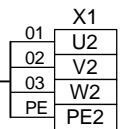
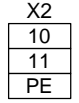
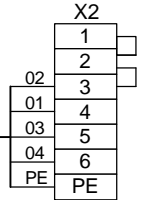
01.004430

LVDB 582ER53MC01

574WP01S01
Start/Stop/E-stop



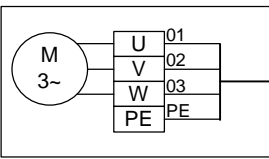
574WP01S01M01



574WP01M01W01

No of cables 1

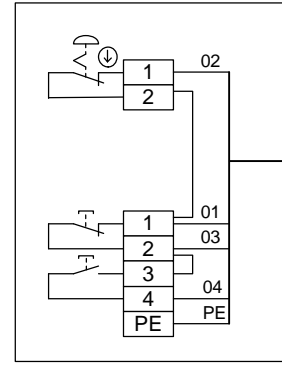
574WP01M01
Motor
106 kW (Derated)
110 kW



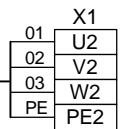
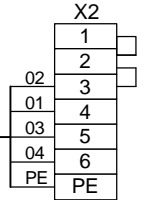
MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP5
Node: MCC/MDB 2.048
574WP01Q01
Motor Starter

LVDB 582ER53MC01

574WP02S01
Start/Stop/E-stop



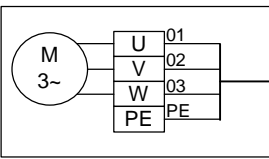
574WP02S01M01



574WP02M01W01

No of cables 1

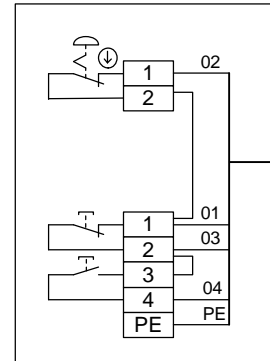
574WP02M01
Motor
106 kW (Derated)
110 kW



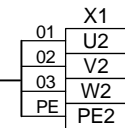
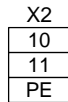
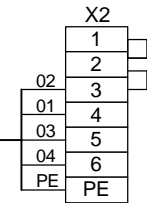
MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP5
Node: MCC/MDB 2.049
574WP02Q01
Motor Starter

LVDB 583ER53MC01

574WP03S01
Start/Stop/E-stop



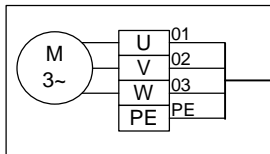
574WP03S01M01



574WP03M01W01

No of cables 1

574WP03M01
Motor
106 kW (Derated)
110 kW



MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP5
Node: MCC/MDB 2.050
574WP03Q01
Motor Starter



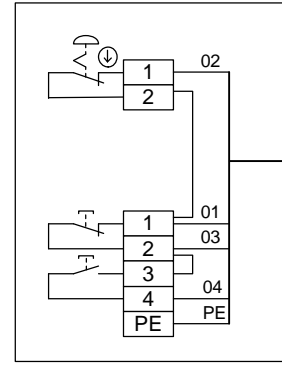
574WP03M01 Cooling Water Pump 3
Motor

80019896

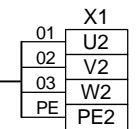
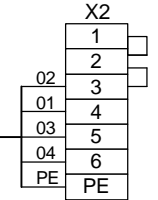
01.004460

LVDB 582ER53MC01

574WP04S01
Start/Stop/E-stop



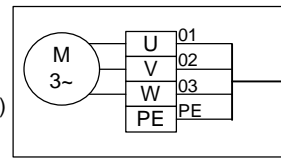
574WP04S01M01



574WP04M01W01

No of cables 1

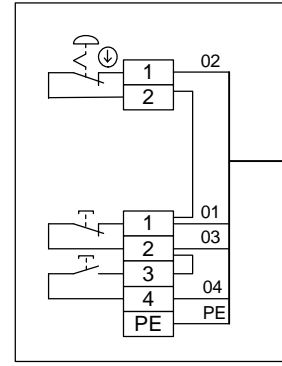
574WP04M01
Motor
93 kW (Derated)
95 kW



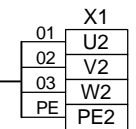
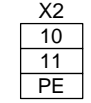
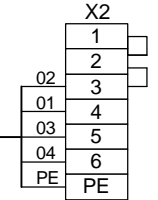
MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP5
Node: MCC/MDB 2.051
574WP04Q01
Motor Starter

LVDB 583ER53MC01

574WP04S02
Start/Stop/E-stop



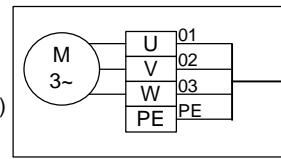
574WP04S02M01



574WP04M02W01

No of cables 1

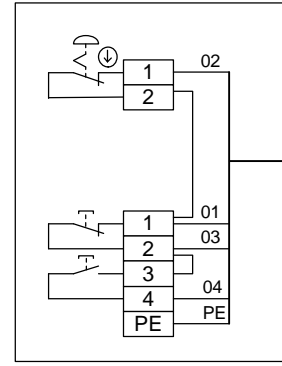
574WP04M02
Motor
72 kW (Derated)
75 kW



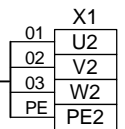
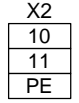
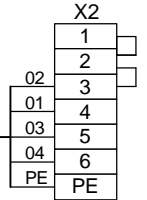
MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP5
Node: MCC/MDB 2.052
574WP04Q02
Motor Starter

LVDB 582ER53MC01

574WP05S01
Start/Stop/E-stop



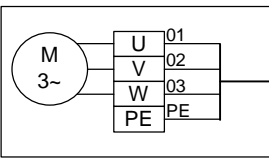
574WP05S01M01



574WP05M01W01

No of cables 1

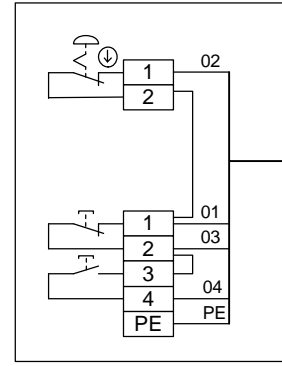
574WP05M01
Motor
93 kW (Derated)
95 kW



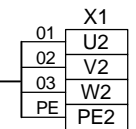
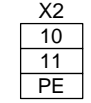
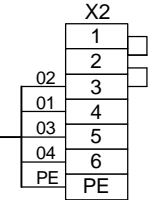
MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP5
Node: MCC/MDB 2.053
574WP05Q01
Motor Starter

LVDB 582ER53MC01

574WP06S01
Start/Stop/E-stop



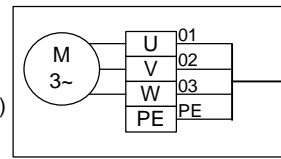
574WP06S01M01



574WP06M01W01

No of cables 1

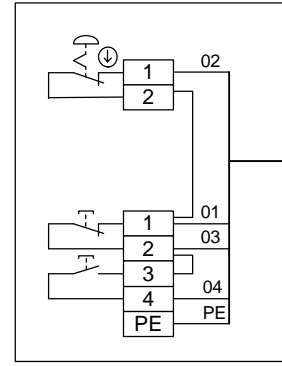
574WP06M01
Motor
106 kW (Derated)
110 kW



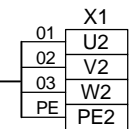
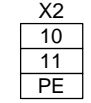
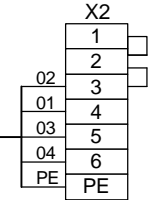
MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP5
Node: MCC/MDB 2.054
574WP06Q01
Motor Starter

LVDB 582ER53MC01

574WP07S01
Start/Stop/E-stop



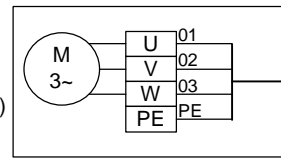
574WP07S01M01



574WP07M01W01

No of cables 1

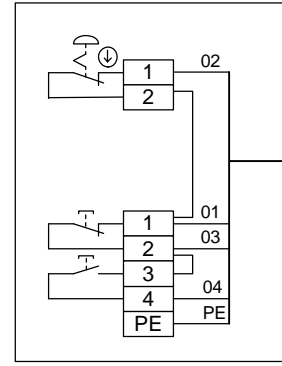
574WP07M01
Motor
106 kW (Derated)
110 kW



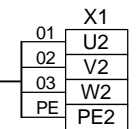
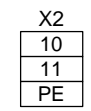
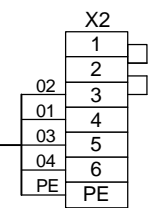
MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP5
Node: MCC/MDB 2.055
574WP07Q01
Motor Starter

LVDB 582ER53MC01

574WP08S01
Start/Stop/E-stop



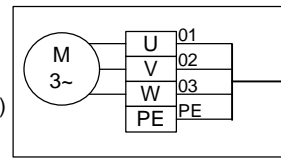
574WP08S01M01



574WP08M01W01

No of cables 1

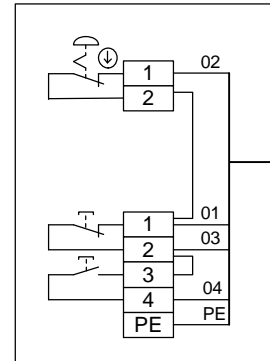
574WP08M01
Motor
106 kW (Derated)
110 kW



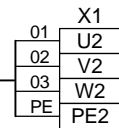
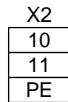
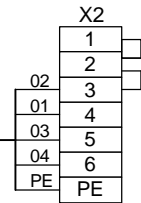
MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP5
Node: MCC/MDB 2.056
574WP08Q01
Motor Starter

LVDB 582ER53MC01

575OP01S01
Start/Stop/E-stop



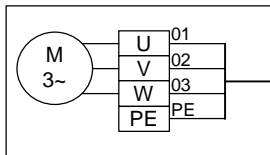
575OP01S01M01



575OP01M01W01

No of cables 1

575OP01M01
Motor
21 kW (Derated)
22 kW



MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.057
575OP01Q01
Motor Starter



575OP01M01

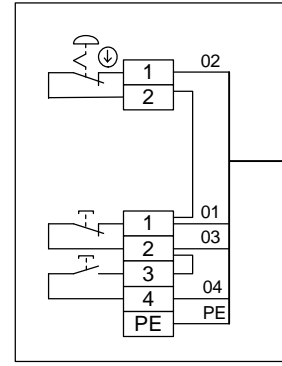
Fuel Oil
Motor

80019896

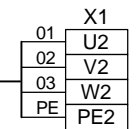
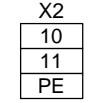
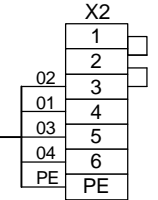
01.004530

LVDB 582ER53MC01

575OP02S01
Start/Stop/E-stop



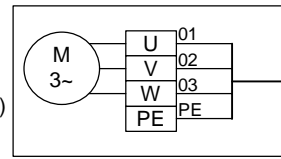
575OP02S01M01



575OP02M01W01

No of cables 1

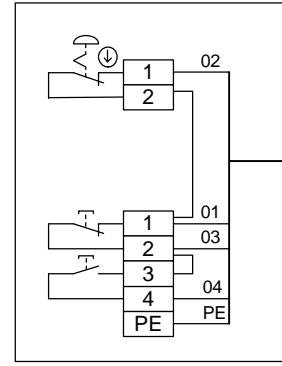
575OP02M01
Motor
21 kW (Derated)
22 kW



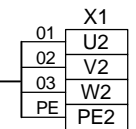
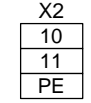
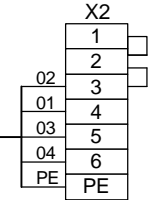
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.058
575OP02Q01
Motor Starter

LVDB 582ER53MC01

575OP03S01
Start/Stop/E-stop



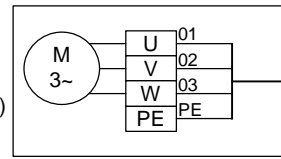
575OP03S01M01



575OP03M01W01

No of cables 1

575OP03M01
Motor
21 kW (Derated)
22 kW



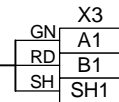
MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.059
575OP03Q01
Motor Starter

MVDB 582ER52A

582ER52ALV01Q01
Power Feeder

582ER51Q01Y01

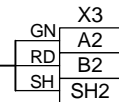
Document: 80019896
Page: 01.004620



525AF01U01
Frequency Converter

525AF01U01Y01

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Page: 01.001280

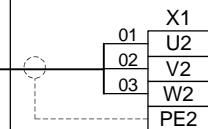


582ER51Q02
Power Feeder

582ER51Q02H01

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Page: 01.002030

No of cables



MCC Position:
Unit Type: C32 NO
Net: 530LG01:DP3
Node: Field Device.052
582ER51Q01
Power Feeder



582ER51Q01

Outgoing To 582ER51
Power Feeder

80019896

01.004560

Tonasa	Q B29 Lighting	Q B29 Lighting1	-	12/9/2010 10:25:05 AM	1/27/2012 10:38:55 AM	Customer	A2
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Customer

Supply

582ER52ALD01Q01
Feeder

582ER52ALD01Q01W01

Doc: 80019896
Page: 01.004590

No of cables 2

02	U1
03	V1
04	W1
01	N1
PE	PE1

582ER52ALD01A01
Cabinet



582ER52ALD01A01 Lighting Transformer
Cabinet

80019896

01.004570

Tonasa	Q B29 Lighting	Q B29 Lighting1	-	3/8/2011 2:44:46 PM	1/27/2012 10:38:55 AM	Customer	A2
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Customer

Supply

582ER52ALD01Q02
Feeder

582ER52ALD01Q02W01

Doc: 80019896
Page: 01.004600

No of cables 2

02	U1
03	V1
04	W1
01	N1
PE	PE1

582ER52ALD01A02
Cabinet



582ER52ALD01A02 Lighting Distribution
Cabinet

80019896

01.004580

LVDB 582ER52ALV01

582ER52AMC04Q01
Feeder

582ER52ALD01Q01Y01

Document: 80019896
Page: 01.004880

GN	DP
RD	A1
SH	B1
	CL1

582ER52ALD01Q02
Feeder

582ER52ALD01Q02Y01

Document: 80019896
Page: 01.004600

GN	DP
RD	A2
SH	B2
	CL2

582ER52ALD01A01
Cabinet

582ER52ALD01Q01W01

Doc: 80019896
Page: 01.004570

No of cables 2

	X1
02	U2
03	V2
04	W2
01	N2
PE	PE2

MCC/MDB position
Unit Conn. Type B29

582ER52ALD01Q01 Feeder



582ER52ALD01Q01 Lighting Transformer
Feeder

80019896

01.004590

LVDB 582ER52ALV01

582ER52ALD01Q01
Feeder

582ER52ALD01Q02Y01

Document: 80019896
Page: 01.004590

GN	DP
RD	A1
SH	B1
	CL1

582ER52APD01Q01
Feeder

582ER52APD01Q01Y01

Document: 80019896
Page: 01.004970

GN	DP
RD	A2
SH	B2
	CL2

582ER52ALD01A02
Cabinet

582ER52ALD01Q02W01

Doc: 80019896
Page: 01.004580

No of cables 2

	X1
02	U2
03	V2
04	W2
01	N2
PE	PE2

MCC/MDB position
Unit Conn. Type B29

582ER52ALD01Q02 Feeder



582ER52ALD01Q02 Lighting Distribution
Feeder

80019896

01.004600

530LG01A05

LVDB 582ER52ALV01

		Address	Position:	Term:
220 VAC			X06.05.A	02L ⁰²
Power Supply OK	582ER52ALV01F01E41	DI	N02.01..08.03	02 ⁰¹

582ER52ALV01F01M01

		X2
02	01	1
PE		2
		3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A) 582ER52ALV01Q02	Incoming from 582ER52A	Feeder	80019896	01.004630
F22(16A)

MCC Position
Unit Conn. Type B42

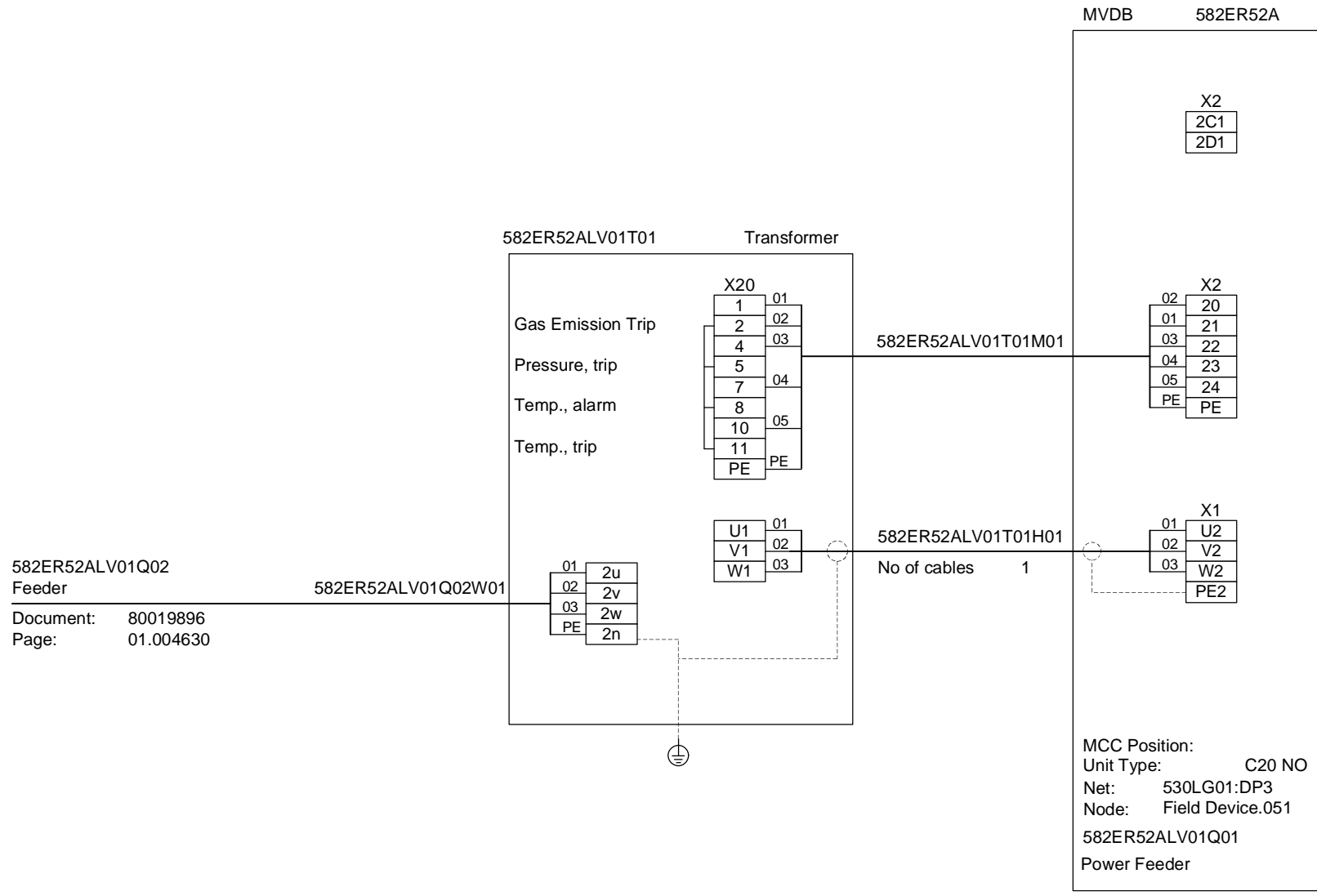
582ER52ALV01F01 Feeder

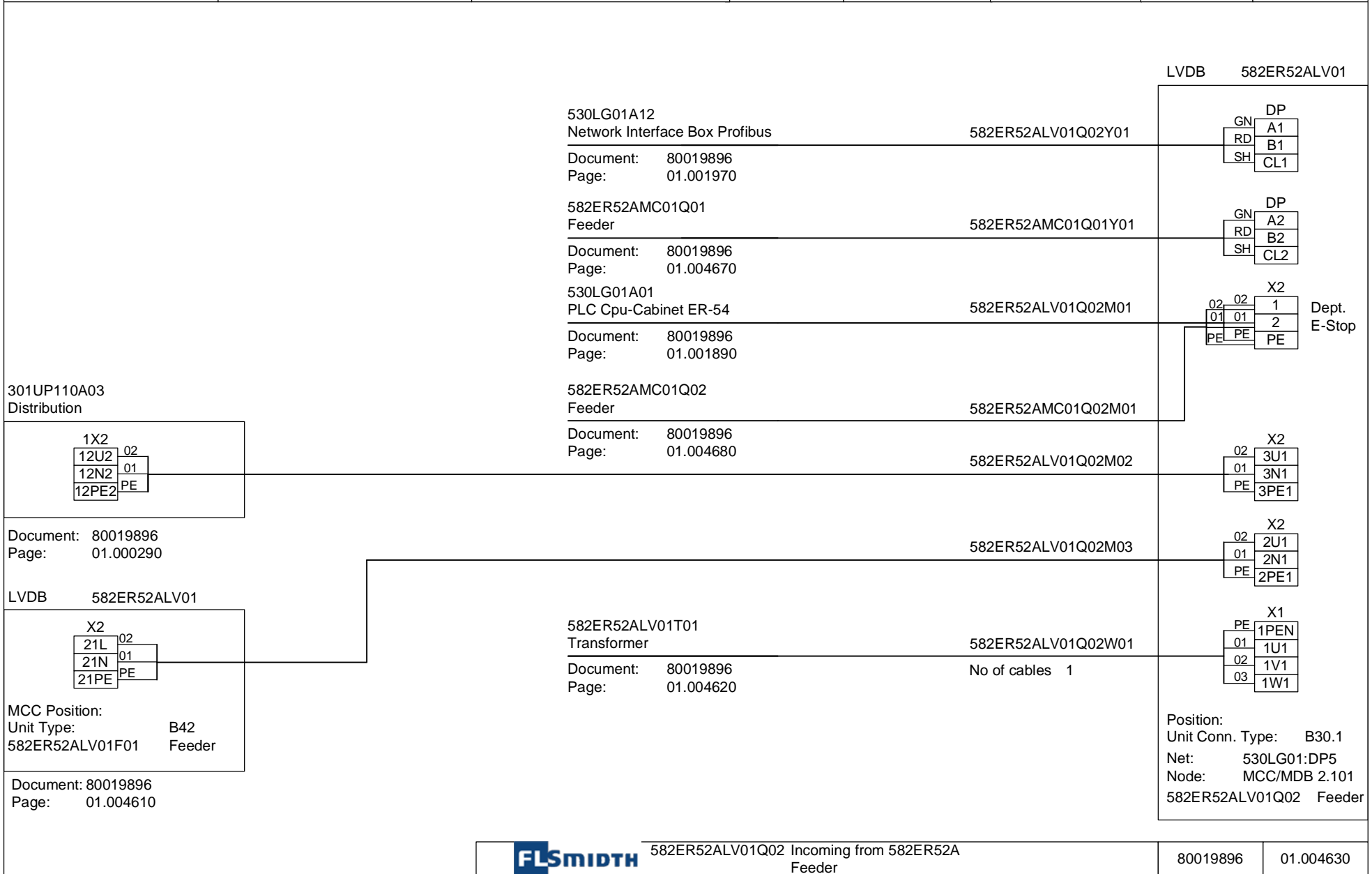


582ER52ALV01F01 Control Voltage Feeder

80019896

01.004610



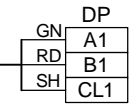


LVDB 582ER52ALV01

582ER52AMC02Q01
Feeder

582ER52ALV01Q21Y01

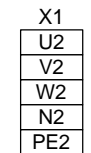
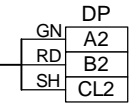
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582ER52AMC03Q01
Feeder

582ER52AMC03Q01Y01

Document: 80019896
Page: 01.004850



MCC/MDb position
Unit Conn. Type B29
Net: 530LG01:DP5
Node: MCC/MDb 2.104
582ER52ALV01Q21
Feeder

530LG01A05

LVDB 582ER52AMC01

	Address	Position:	Term:	
220 VAC		X06.05.A	07L	02
Power Supply OK	582ER52AMC01F01E41	DI	07	01

582ER52AMC01F01M01

	X2
02	1
01	2
PE	3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)	522HP01N01 Hopper	Level	80019896	01.000810
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)	522AF01U01 Apron Feeder	Frequency Converter	80019896	01.000350
F20 (6A)	522CR01U01 Crusher (Fixed Roll)	Frequency Converter	80019896	01.000710
F21(16A)	582ER52AMC01Q02 Incoming	Feeder	80019896	01.004680
F22(16A)

MCC Position
Unit Conn. Type B42

582ER52AMC01F01 Feeder



582ER52AMC01F01 Control Voltage
Feeder

80019896

01.004650

530LG01A05

LVDB 582ER52AMC01

	Address	Position:	Term:
220 VAC		X06.05.A	08L
Power Supply OK	582ER52AMC01F02E41	DI	08

582ER52AMC01F02M01

	X2
02	1
01	2
PE	3



List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)
F22(16A)

MCC Position
Unit Conn. Type B42

582ER52AMC01F02 Feeder



582ER52AMC01F02 Control Voltage
Feeder

80019896

01.004660

LVDB 582ER52ALV01

582ER52ALV01Q02
Feeder

582ER52AMC01Q01Y01

Document: 80019896
Page: 01.004630

DP	
GN	A1
RD	B1
SH	CL1

582ER52AMC02Q01
Feeder

582ER52AMC02Q01Y01

Document: 80019896
Page: 01.004780

DP	
GN	A2
RD	B2
SH	CL2

582ER52AMC01Q02
Feeder

582ER52AMC01Q01W01

Document: 80019896
Page: 01.004680

No of cables 1

X1	
02	U2
03	V2
04	W2
01	N2
PE	PE2

MCC/MDB position
Unit Conn. Type B29

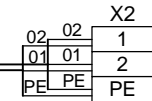
582ER52AMC01Q01
Feeder

LVDB 582ER52AMC01

582ER52ALV01Q02
Feeder

582ER52AMC01Q02M01

Document: 80019896
Page: 01.004630



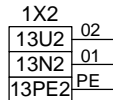
Dept.
E-Stop

582ER52AMC02Q02
Feeder

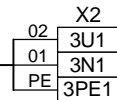
582ER52AMC02Q02M01

Document: 80019896
Page: 01.004790

301UP110A03
Distribution



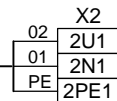
582ER52AMC01Q02M02



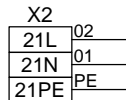
UPS

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Page: 01.000290

582ER52AMC01Q02M03



220 VAC



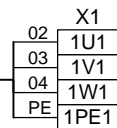
MCC Position
Unit Conn. Type B42
582ER52AMC01F01 Feeder

582ER52AMC01Q01
Feeder

582ER52AMC01Q01W01

Doc: 80019896
Page: 01.004670

No of cables



Position:
Unit Conn. Type: B30.2

582ER52AMC01Q02
Feeder



582ER52AMC01Q02 Incoming
Feeder

80019896

01.004680

LVDB 582ER52AMC01

582ER52APD01Q02
Feeder

582ER52AMC01Q02Y01

Document: 80019896
Page: 01.004980

	DP
GN	A1
RD	B1
SH	CL1

582ER52AMC02Q02
Feeder

582ER52AMC02Q02Y01

Document: 80019896
Page: 01.004790

	DP
GN	A2
RD	B2
SH	CL2

Position:
Unit Conn. Type: B30.2

582ER52AMC01Q02
Feeder



582ER52AMC01Q02 Incoming
Feeder

80019896

01.004690

Tonasa	Q B28 Spare	Q B28 Spare	-	11/29/2010 9:45:42 AM	1/27/2012 10:39:03 AM	Customer	A2
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LVDB 582ER52AMC01

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER52AMC01Q21
 Feeder



582ER52AMC01Q21 Spare
 Feeder

80019896

01.004700

Tonasa	Q B28 Spare	Q B28 Spare	-	11/29/2010 9:46:27 AM	1/27/2012 10:39:04 AM	Customer	A2
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LVDB 582ER52AMC01

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER52AMC01Q22
 Feeder



582ER52AMC01Q22 Spare
 Feeder

80019896

01.004710

Tonasa	Q B28 Spare	Q B28 Spare	-	11/29/2010 9:46:55 AM	1/27/2012 10:39:05 AM	Customer	A2
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LVDB 582ER52AMC01

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER52AMC01Q23
 Feeder

	582ER52AMC01Q23 Spare Feeder	80019896	01.004720
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Tonasa	Q B01-PM S	Q B01-ED S	-	11/29/2010 9:40:16 AM	1/27/2012 10:39:05 AM	Customer	A2
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LVDB 582ER52AMC01

X2

1
2
3
4
5
6
PE

X2

10
11
PE


X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP5
Node: MCC/MDB 2.021
582ER52AMC01Q51
Motor Starter

	582ER52AMC01Q51 Spare Motor Starter	80019896	01.004730
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Tonasa	Q B01-PM S	Q B01-ED S	-	11/29/2010 9:43:08 AM	1/27/2012 10:39:06 AM	Customer	A2
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LVDB 582ER52AMC01

X2

1
2
3
4
5
6
PE

X2

10
11
PE

X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP5
Node: MCC/MDB 2.022
582ER52AMC01Q52
Motor Starter

	582ER52AMC01Q52 Spare Motor Starter	80019896	01.004740
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Tonasa	Q B01-NO S	Q B01-NO S	-	11/29/2010 9:44:19 AM	1/27/2012 10:39:07 AM	Customer	A2
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LVDB 582ER52AMC01

X2

1
2
3
4
5
6
PE

X2

10
11
PE

X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.023
582ER52AMC01Q53
Motor Starter

	582ER52AMC01Q53 Spare Motor Starter	80019896	01.004750
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530LG01A05

LVDB 582ER52AMC02

	Address	Position:	Term:	
220 VAC		X06.05.A	03L	02
Power Supply OK	582ER52AMC02F01E41	DI	03	01

582ER52AMC02F01M01

X2	
02	1
01	2
PE	3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A) 525HP01N01	Hopper	Level	80019896	01.001510
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A) 525AF01U01	Apron Feeder	Frequency Converter	80019896	01.001280
F20 (6A) 582ER52AMC02Q02	Incoming	Feeder	80019896	01.004790
F21(16A)
F22(16A)

MCC Position
Unit Conn. Type B42

582ER52AMC02F01 Feeder



582ER52AMC02F01 Control Voltage
Feeder

80019896

01.004760

530LG01A05

LVDB 582ER52AMC02

		Address	Position:	Term:
220 VAC			X06.05.A	04L ⁰²
Power Supply OK	582ER52AMC02F02E41	DI	N02.01..08.05	04 ⁰¹

582ER52AMC02F02M01

		X2
02		1
01		2
PE		3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)
F22(16A)

MCC Position
Unit Conn. Type B42

582ER52AMC02F02 Feeder



582ER52AMC02F02 Control Voltage
Feeder

80019896

01.004770

LVDB 582ER52ALV01

582ER52AMC01Q01
Feeder

582ER52AMC02Q01Y01

Document: 80019896
Page: 01.004670

DP	
GN	A1
RD	B1
SH	CL1

582ER52ALV01Q21
Feeder

582ER52ALV01Q21Y01

Document: 80019896
Page: 01.004640

DP	
GN	A2
RD	B2
SH	CL2

582ER52AMC02Q02
Feeder

582ER52AMC02Q01W01

Document: 80019896
Page: 01.004790

No of cables 1

X1	
02	U2
03	V2
04	W2
01	N2
PE	PE2

MCC/MDB position
Unit Conn. Type B29

582ER52AMC02Q01
Feeder



582ER52AMC02Q01 MCC
Feeder

80019896

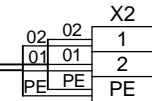
01.004780

LVDB 582ER52AMC02

582ER52AMC01Q02
Feeder

582ER52AMC02Q02M01

Document: 80019896
Page: 01.004680



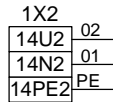
Dept.
E-Stop

582ER52AMC04Q02
Feeder

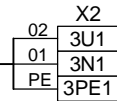
582ER52AMC04Q02M01

Document: 80019896
Page: 01.004890

301UP110A03
Distribution



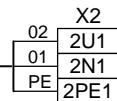
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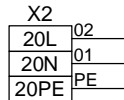
UPS

Document: 80019896
Page: 01.000290

582ER52AMC02Q02M03



220 VAC

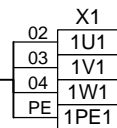


582ER52AMC02Q01
Feeder

582ER52AMC02Q01W01

Doc: 80019896
Page: 01.004780

No of cables



MCC Position
Unit Conn. Type B42
582ER52AMC02F01 Feeder

Position:
Unit Conn. Type: B30.2

582ER52AMC02Q02
Feeder



582ER52AMC02Q02 Incoming
Feeder

80019896

01.004790

LVDB 582ER52AMC02

582ER52AMC01Q02
Feeder

582ER52AMC02Q02Y01

Document: 80019896
Page: 01.004680

	DP
GN	A1
RD	B1
SH	CL1

582ER52AMC04Q02
Feeder

582ER52AMC04Q02Y01

Document: 80019896
Page: 01.004890

	DP
GN	A2
RD	B2
SH	CL2

Position:
Unit Conn. Type: B30.2

582ER52AMC02Q02
Feeder



582ER52AMC02Q02 Incoming
Feeder

80019896

01.004800

Tonasa	Q B28 Spare	Q B28 Spare	-	11/29/2010 10:00:18 AM	1/27/2012 10:39:11 AM	Customer	A2
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LVDB 582ER52AMC02

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER52AMC02Q21
 Feeder



582ER52AMC02Q21 Spare
 Feeder

80019896

01.004810

Tonasa	Q B28 Spare	Q B28 Spare	-	11/29/2010 10:00:45 AM	1/27/2012 10:39:11 AM	Customer	A2
--------	-------------	-------------	---	------------------------	-----------------------	----------	----

LVDB 582ER52AMC02

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER52AMC02Q22
 Feeder



582ER52AMC02Q22 Spare
 Feeder

80019896

01.004820

Tonasa	Q B01-NO S	Q B01-NO S	-	11/29/2010 9:58:33 AM	1/27/2012 10:39:12 AM	Customer	A2
--------	------------	------------	---	-----------------------	-----------------------	----------	----

LVDB 582ER52AMC02

X2

1
2
3
4
5
6
PE

X2

10
11
PE


X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.030
582ER52AMC02Q51
Motor Starter

	582ER52AMC02Q51 Spare Motor Starter	80019896	01.004830
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Tonasa	Q B01-NO S	Q B01-NO S	-	11/29/2010 9:59:03 AM	1/27/2012 10:39:13 AM	Customer	A2
--------	------------	------------	---	-----------------------	-----------------------	----------	----

LVDB 582ER52AMC02

X2

1
2
3
4
5
6
PE

X2

10
11
PE

X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.031
582ER52AMC02Q52
Motor Starter

	582ER52AMC02Q52 Spare Motor Starter	80019896	01.004840
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LVDB 582ER52ALV01

582ER52ALV01Q21
Feeder

582ER52AMC03Q01Y01

Document: 80019896
Page: 01.004640

DP	
GN	A1
RD	B1
SH	CL1

582ER52AMC04Q01
Feeder

582ER52AMC04Q01Y01

Document: 80019896
Page: 01.004880

DP	
GN	A2
RD	B2
SH	CL2

582ER52AMC03Q02
Feeder

582ER52AMC03Q01W01

Document: 80019895
Page: 01.002070

No of cables 1

X1	
02	U2
03	V2
04	W2
01	N2
PE	PE2

MCC/MDB position
Unit Conn. Type B29

582ER52AMC03Q01
Feeder



582ER52AMC03Q01 MCC
Feeder

80019896

01.004850

530LG01A05

LVDB 582ER52AMC04

	Address	Position:	Term:
220 VAC		X06.05.A	05L ⁰²
Power Supply OK	582ER52AMC04F01E41	DI	05 ⁰¹

582ER52AMC04F01M01

	X2
02	1
01	2
PE	3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)	526BF01X01	Bag Filter	Junction Box	80019896 01.001750
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)	526AF01U01	Apron Feeder	Frequency Converter	80019896 01.001570
F20 (6A)
F21(16A)	582ER52AMC04Q02	Incoming	Feeder	80019896 01.004890
F22(16A)

MCC Position
Unit Conn. Type B42

582ER52AMC04F01 Feeder



582ER52AMC04F01 Control Voltage
Feeder

80019896

01.004860

530LG01A05

LVDB 582ER52AMC04

		Address	Position:	Term:
220 VAC			X06.05.A	06L ⁰²
Power Supply OK	582ER52AMC04F02E41	DI	N02.01..08.07	06 ⁰¹

582ER52AMC04F02M01

		X2
02		1
01		2
PE		3



List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)
F22(16A)

MCC Position
Unit Conn. Type B42

582ER52AMC04F02 Feeder



582ER52AMC04F02 Control Voltage
Feeder

80019896

01.004870

LVDB 582ER52ALV01

582ER52AMC03Q01
Feeder

582ER52AMC04Q01Y01

Document: 80019896
Page: 01.004850

DP	
GN	A1
RD	B1
SH	CL1

582ER52ALD01Q01
Feeder

582ER52ALD01Q01Y01

Document: 80019896
Page: 01.004590

DP	
GN	A2
RD	B2
SH	CL2

582ER52AMC04Q02
Feeder

582ER52AMC04Q01W01

Document: 80019896
Page: 01.004890

No of cables 1

X1	
02	U2
03	V2
04	W2
01	N2
PE	PE2

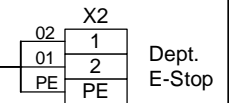
MCC/MDB position
Unit Conn. Type B29

582ER52AMC04Q01
Feeder

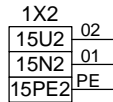
LVDB 582ER52AMC04

582ER52AMC02Q02
Feeder
Document: 80019896
Page: 01.004790

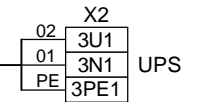
582ER52AMC04Q02M01



301UP110A03
Distribution

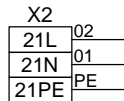
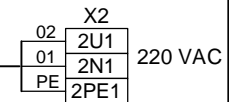


582ER52AMC04Q02M02



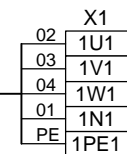
Document: 80019896
Page: 01.000290

582ER52AMC04Q02M03



582ER52AMC04Q01
Feeder
Document: 80019896
Page: 01.004880

582ER52AMC04Q01W01



MCC Position
Unit Conn. Type B42
582ER52AMC04F01 Feeder

No of cables

Position:
Unit Conn. Type: B30.2

582ER52AMC04Q02
Feeder



582ER52AMC04Q02 Incoming Feeder

80019896

01.004890

LVDB 582ER52AMC04

582ER52AMC02Q02
Feeder

582ER52AMC04Q02Y01

Document: 80019896
Page: 01.004790

	DP
GN	A1
RD	B1
SH	CL1

Position:
Unit Conn. Type: B30.2

582ER52AMC04Q02
Feeder



582ER52AMC04Q02 Incoming
Feeder

80019896

01.004900

Tonasa	Q B28 Spare	Q B28 Spare	-	11/29/2010 10:47:42 AM	1/27/2012 10:39:18 AM	Customer	A2
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LVDB 582ER52AMC04

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER52AMC04Q21
 Feeder

	582ER52AMC04Q21 Spare Feeder	80019896	01.004910
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Tonasa	Q B28 Spare	Q B28 Spare	-	11/29/2010 10:48:17 AM	1/27/2012 10:39:19 AM	Customer	A2
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LVDB 582ER52AMC04

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER52AMC04Q22
 Feeder



582ER52AMC04Q22 Spare
 Feeder

80019896

01.004920

Tonasa	Q B01-NO S	Q B01-NO S	-	11/29/2010 10:46:00 AM	1/27/2012 10:39:20 AM	Customer	A2
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LVDB 582ER52AMC04

X2

1
2
3
4
5
6
PE

X2

10
11
PE

X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.039
582ER52AMC04Q51
Motor Starter



582ER52AMC04Q51 Spare
Motor Starter

80019896

01.004930

Tonasa	Q B01-NO S	Q B01-NO S	-	11/29/2010 10:46:26 AM	1/27/2012 10:39:20 AM	Customer	A2
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LVDB 582ER52AMC04

X2

1
2
3
4
5
6
PE

X2

10
11
PE

X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.040
582ER52AMC04Q52
Motor Starter



582ER52AMC04Q52 Spare
Motor Starter

80019896

01.004940

Tonasa	Q B29 Dist Traf.	Q B29 Dist Trafo1	-	12/3/2010 11:28:46 AM	1/27/2012 10:39:21 AM	Customer	A2
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Customer

Supply

582ER52APD01Q01
Feeder

582ER52APD01Q01W01

Doc: 80019896
Page: 01.004970

No of cables 2

02	U1
03	V1
04	W1
01	N1
PE	PE1

582ER52APD01A01
Cabinet



582ER52APD01A01 Distribution Transformer
Cabinet

80019896

01.004950

Tonasa	Q B29 Dist Traf.	Q B29 Dist Trafo1	-	3/8/2011 3:00:53 PM	1/27/2012 10:39:22 AM	Customer	A2
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Customer

Supply

582ER52APD01Q02
Feeder

582ER52APD01Q02W01

Doc: 80019896
Page: 01.004980

No of cables 2

02	U1
03	V1
04	W1
01	N1
PE	PE1

582ER52APD01A02
Cabinet



582ER52APD01A02 Distribution Transformer
Cabinet

80019896

01.004960

LVDB 582ER52ALV01

582ER52ALD01Q02
Feeder

582ER52APD01Q01Y01

Document: 80019896
Page: 01.004600

GN	DP
RD	A1
SH	B1
	CL1

582ER52APD01Q02
Feeder

582ER52APD01Q02Y01

Document: 80019896
Page: 01.004980

GN	DP
RD	A2
SH	B2
	CL2

582ER52APD01A01
Cabinet

582ER52APD01Q01W01

Doc: 80019896
Page: 01.004950

No of cables 2

	X1
02	U2
03	V2
04	W2
01	N2
PE	PE2

MCC/MDB position
Unit Conn. Type B29

582ER52APD01Q01
Feeder



582ER52APD01Q01 Distribution Transformer
Feeder

80019896

01.004970

LVDB 582ER52ALV01

582ER52APD01Q01
Feeder

582ER52APD01Q02Y01

Document: 80019896
Page: 01.004970

GN	DP
RD	A1
SH	B1
	CL1

582ER52AMC01Q02
Feeder

582ER52AMC01Q02Y01

Document: 80019896
Page: 01.004680

GN	DP
RD	A2
SH	B2
	CL2

582ER52APD01A02
Cabinet

582ER52APD01Q02W01

Doc: 80019896
Page: 01.004960

No of cables 2

	X1
02	U2
03	V2
04	W2
01	N2
PE	PE2

MCC/MDB position
Unit Conn. Type B29

582ER52APD01Q02
Feeder



582ER52APD01Q02 Distribution Transformer
Feeder

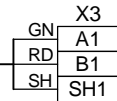
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MVDB 582ER52A

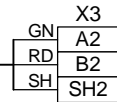
530LG01A19
Network Interface Box Profibus 582ER52AQ02Y01

Document: 80019896
Page: 01.002040



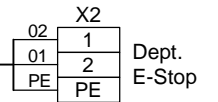
582ER53Q01
Power Feeder 582ER53Q01Y01

Document: 80019896
Page: 01.005240



530LG01A01
PLC Cpu-Cabinet ER-54 582ER52AQ02M01

Document: 80019896
Page: 01.001890

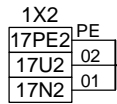


MCC Position:
Unit Type: C31 ES
Net: 530LG01:DP3
Node: Field Device.048
582ER52AQ02
Power Feeder



MVDB 582ER52A

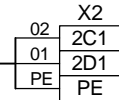
301UP110A03
Distribution



582ER51BAT110A01
Cabinet

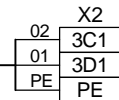
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Page: 01.001790

582ER52AQ02W01



110 VDC

582ER52AQ02M02



220 VAC
UPS

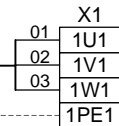
Document: 80019896
Page: 01.000270

582ER52AQ01
Power Feeder

Document: 80019899
Page: 01.003380

582ER52AQ02H01

No of cables 1



MCC Position:
Unit Type: C31 ES
Net: 530LG01:DP3
Node: Field Device.048
582ER52AQ02
Power Feeder



582ER52AQ02

Incoming from 581SS51
Power Feeder

80019896

01.005000

Tonasa	Q C32 NO Spare	Q C32 Spare	-	9/27/2011 3:16:00 PM	1/27/2012 10:39:27 AM	Customer	A2
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MVDB 582ER52A

X3
A1
B1
SH1

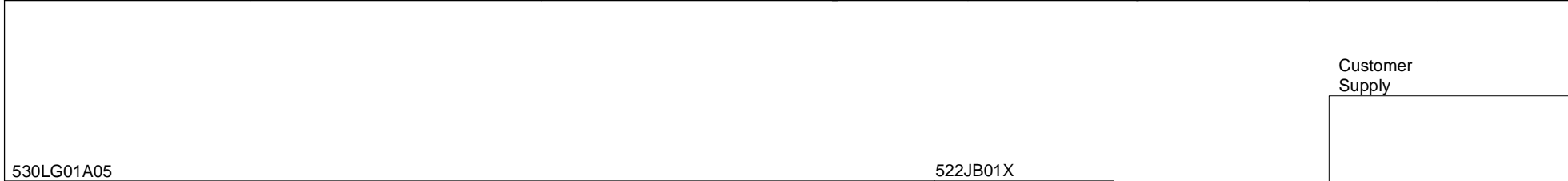
X3
A2
B2
SH2

X1
U2
V2
W2
PE2

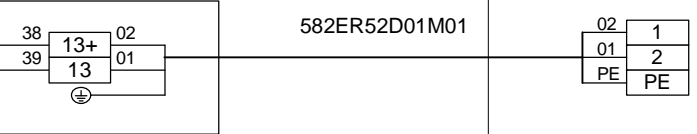
MCC Position:
Unit Type: C32 NO
Net: 530LG01:DP3
Node: Field Device.050
582ER52AQ41
Power Feeder

	582ER52AQ41	Outgoing Power Feeder	80019896	01.005010
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Tonasa	DL Generic (Single-DI)	DL Generic (Single-DI)	-	4/29/2011 1:34:58 PM	1/27/2012 10:39:28 AM	Customer	A2
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530LG01A05		522JB01X		
	Address	Position	Term:	
220 VAC		X06.01.A	13L	
Electrical Room Temp High	582ER52D01T41	X06.01.A	13	



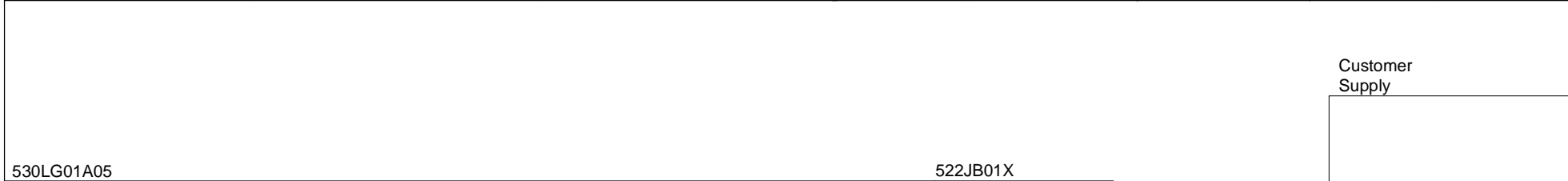
This drawing needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

582ER52D01
Switch

	582ER52D01	Electrical Room Temperature Switch	80019896	01.005020
--	------------	------------------------------------	----------	-----------

Tonasa	DL Generic (Single-DI)	DL Generic (Single-DI)	-	4/29/2011 1:35:19 PM	1/27/2012 10:39:28 AM	Customer	A2
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This drawing needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

Customer Supply

582ER52D02 Switch

	582ER52D02	Electrical Room Smoke Detector Switch	80019896	01.005030
--	------------	---------------------------------------	----------	-----------

530LG01A06

	Address	Position	Term:
+24 VDC		X05.02.A	16+ 02
Temperature	582ER52N01T01	AI N02.01..08.18	16 01



582ER52N01C01



02	1 (+)
01	2 (-)

This drawing needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

Range: 0 - 150 °C

582ER52N01
Temperature



582ER52N01

Electrical Room -52 Temperature
Temperature

80019896

01.005040

530LG01A07

	Address	Position	Term:
220 VAC		X06.04.A	01L
Electrical Room Temp High	582ER53D01X41	X06.04.A	01

582ER53D01M01

Customer
Supply

02	1
01	2
PE	PE

This drawing needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

582ER53D01
Switch

Tonasa	DL Generic (Single-DI)	DL Generic (Single-DI)	-	4/29/2011 1:36:04 PM	1/27/2012 10:39:30 AM	Customer	A2
--------	------------------------	------------------------	---	----------------------	-----------------------	----------	----

530LG01A07

	Address	Position	Term:
220 VAC		X06.04.A	02L
ER Smoke Det.Active (53)	582ER53D02X41	X06.04.A	02L
			01
			02

582ER53D02M01


Customer
Supply

02	1
01	2
PE	PE

This drawing needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

582ER53D02
Switch

	582ER53D02	Electrical Room Smoke Detector Switch	80019896	01.005060
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530LG01A05

LVDB 582ER53LV01

	Address	Position:	Term:
220 VAC		X06.05.A	11L
Power Supply OK	582ER53LV01F01E41	DI	11

582ER53LV01F01M01

	X2
02	1
01	2
PE	3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)	582ER53LV01Q02	Incoming	80019896	01.005090
F22(16A)

MCC Position
Unit Conn. Type B42

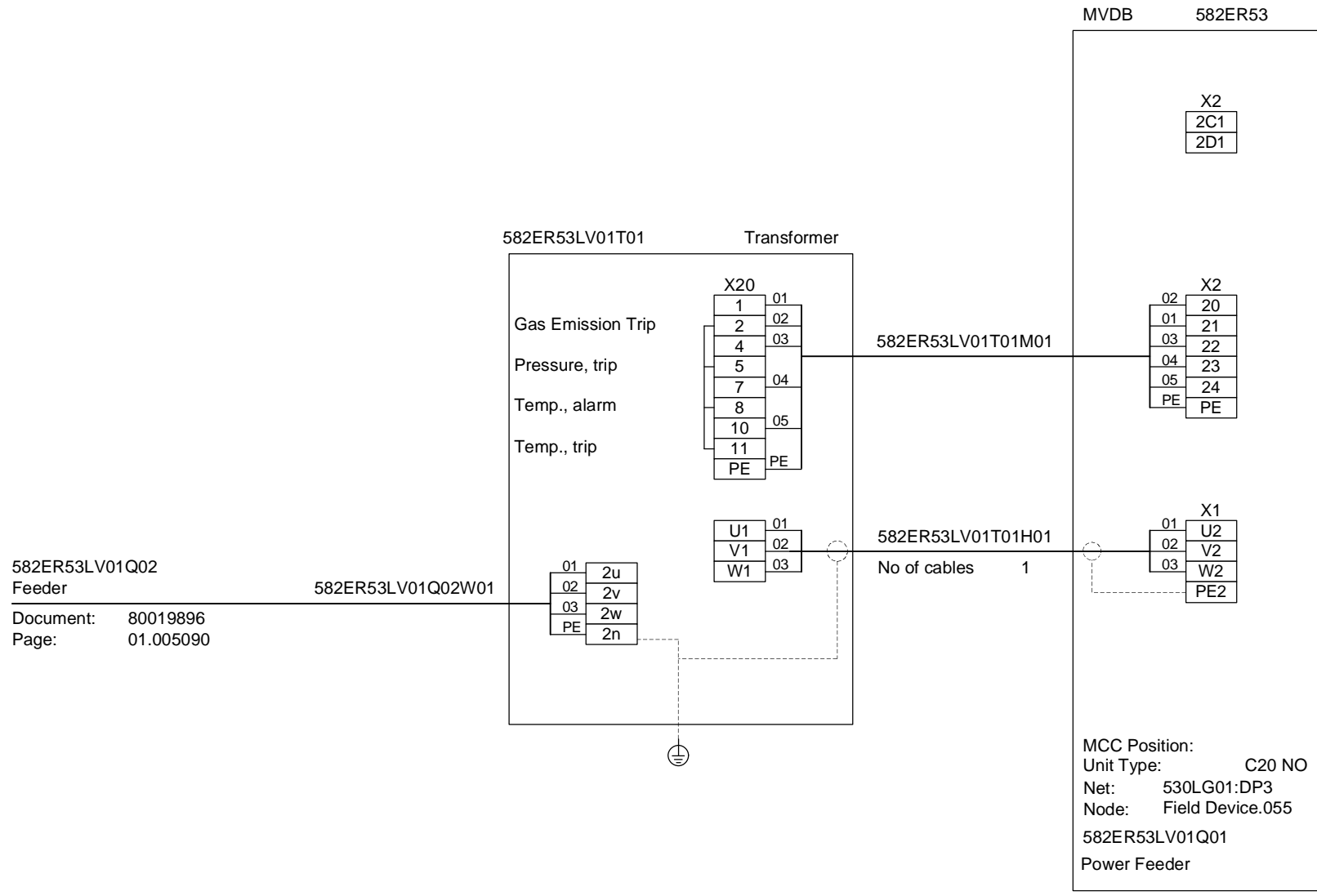
582ER53LV01F01 Feeder



582ER53LV01F01 Control Voltage Feeder

80019896

01.005070



LVDB 582ER53LV01

530LG01A13
Network Interface Box Profibus 582ER53LV01Q02Y01

Document: 80019896
Page: 01.001980

GN	DP
RD	A1
SH	B1
	CL1

582ER53MC01Q01
Feeder 582ER53MC01Q01Y01

Document: 80019896
Page: 01.005130

GN	DP
RD	A2
SH	B2
	CL2

582ER53Q02
Power Feeder 582ER53LV01Q02M01

Document: 80019896
Page: 01.005250

02	02	X2
01	01	1
PE	PE	2
		PE

Dept.
E-Stop

301UP110A03
Distribution

582ER53MC01Q02
Feeder 582ER53MC01Q02M01

Document: 80019896
Page: 01.005140

02	X2
01	3U1
PE	3N1
	3PE1

2X2	
10U2	02
10N2	01
10PE2	PE

Document: 80019896
Page: 01.000290

582ER53LV01Q02M02

02	X2
01	2U1
PE	2N1
	2PE1

LVDB 582ER53LV01

582ER53LV01T01
Transformer 582ER53LV01Q02W01

Document: 80019896
Page: 01.005080

PE	X1
01	1PEN
02	1U1
03	1V1
	1W1

X2	
21L	02
21N	01
21PE	PE

MCC Position:
Unit Type: B42
582ER53LV01F01 Feeder

Position:
Unit Conn. Type: B30.1
Net: 530LG01:DP5
Node: MCC/MDB 2.111
582ER53LV01Q02 Feeder

Document: 80019896
Page: 01.005070



582ER53LV01Q02 Incoming Feeder

80019896

01.005090

LVDB 582ER53LV01

524ER53PD01Q01
Feeder

582ER53LV01Q21Y01

Document: 80019896
Page: 01.001130

GN	DP
RD	A1
SH	B1
	CL1

582ER53MC01Q02
Feeder

582ER53MC01Q02Y01

Document: 80019896
Page: 01.005140

GN	DP
RD	A2
SH	B2
	CL2

X1

U2
V2
W2
N2
PE2

MCC/MDb position
Unit Conn. Type B29
Net: 530LG01:DP5
Node: MCC/MDb 2.116
582ER53LV01Q21
Feeder



582ER53LV01Q21 MCC Spare
Feeder

80019896

01.005100

530LG01A05

LVDB 582ER53MC01

		Address	Position:	Term:
220 VAC			X06.05.A	12L ⁰²
Power Supply OK	582ER53MC01F01E41	DI	N02.01..08.15	12 ⁰¹

582ER53MC01F01M01

		X2
⁰²		1
01		2
PE		3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A) 524BF01X01	Bag Filter	Junction Box	80019896	01.001080
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A) 582ER53MC01Q02	Incoming	Feeder	80019896	01.005140
F22(16A)

MCC Position
Unit Conn. Type B42

582ER53MC01F01 Feeder



582ER53MC01F01 Control Voltage Feeder

80019896

01.005110

530LG01A05

LVDB 582ER53MC01

	Address	Position:	Term:
220 VAC		X06.05.A	13L
Power Supply OK	582ER53MC01F02E41	DI	13

582ER53MC01F02M01

	X2
02	1
01	2
PE	3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)
F22(16A)

MCC Position
Unit Conn. Type B42

582ER53MC01F02 Feeder



582ER53MC01F02 Control Voltage Feeder

80019896

01.005120

LVDB 582ER53LV01

582ER53LV01Q02
Feeder

582ER53MC01Q01Y01

Document: 80019896
Page: 01.005090

GN		DP
RD	A1	
SH	B1	
	CL1	

582ER53MC02Q01
Feeder

582ER53MC02Q01Y01

Document: 80019896
Page: 01.005220

GN		DP
RD	A2	
SH	B2	
	CL2	

582ER53MC01Q02
Feeder

582ER53MC01Q01W01

Document: 80019896
Page: 01.005140

No of cables 1

02		X1
03	U2	
04	V2	
01	W2	
PE	N2	
	PE2	

MCC/MDB position
Unit Conn. Type B29

582ER53MC01Q01
Feeder



582ER53MC01Q01 MCC
Feeder

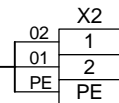
80019896

01.005130

LVDB 582ER53MC01

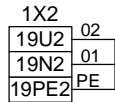
582ER53LV01Q02
Feeder
Document: 80019896
Page: 01.005090

582ER53MC01Q02M01

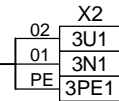


Dept.
E-Stop

301UP110A03
Distribution



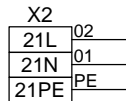
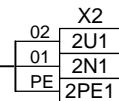
582ER53MC01Q02M02



Document: 80019896
Page: 01.000290

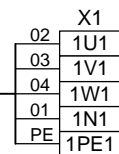
LVDB 582ER53MC01

582ER53MC01Q02M03



582ER53MC01Q01
Feeder
Doc: 80019896
Page: 01.005130

582ER53MC01Q01W01



MCC Position:
Unit Type: B30.1
582ER53MC01F01 Feeder

Position:
Unit Conn. Type: B30.2

582ER53MC01Q02
Feeder



582ER53MC01Q02 Incoming Feeder

80019896

01.005140

LVDB 582ER53MC01

582ER53LV01Q21
Feeder

582ER53MC01Q02Y01

Document: 80019896
Page: 01.005100

	DP
GN	A1
RD	B1
SH	CL1

583ER53MC01Q02
Feeder

583ER53MC01Q02Y01

Document: 80019896
Page: 01.005980

	DP
GN	A2
RD	B2
SH	CL2

Position:
Unit Conn. Type: B30.2

582ER53MC01Q02
Feeder



582ER53MC01Q02 Incoming Feeder

80019896

01.005150

Tonasa	Q B28 Spare	Q B28 Spare	-	11/29/2010 11:15:25 AM	1/27/2012 10:39:38 AM	Customer	A2
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LVDB 582ER53MC01

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER53MC01Q21
 Feeder

	582ER53MC01Q21 Spare Feeder	80019896	01.005160
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Tonasa	Q B28 Spare	Q B28 Spare	-	11/29/2010 11:16:00 AM	1/27/2012 10:39:38 AM	Customer	A2
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LVDB 582ER53MC01

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER53MC01Q22
 Feeder

	582ER53MC01Q22 Spare Feeder	80019896	01.005170
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Tonasa	Q B28 Spare	Q B28 Spare	-	11/29/2010 11:16:39 AM	1/27/2012 10:39:39 AM	Customer	A2
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LVDB 582ER53MC01

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER53MC01Q23
 Feeder

	582ER53MC01Q23 Spare Feeder	80019896	01.005180
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Tonasa	Q B01-PM S	Q B01-ED S	-	11/29/2010 11:12:24 AM	1/27/2012 10:39:40 AM	Customer	A2
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LVDB 582ER53MC01

X2

1
2
3
4
5
6
PE

X2

10
11
PE

X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP5
Node: MCC/MDB 2.060
582ER53MC01Q51
Motor Starter

	582ER53MC01Q51 Spare Motor Starter	80019896	01.005190
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Tonasa	Q B01-PM S	Q B01-ED S	-	11/29/2010 11:12:51 AM	1/27/2012 10:39:41 AM	Customer	A2
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LVDB 582ER53MC01

X2

1
2
3
4
5
6
PE

X2

10
11
PE

X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP5
Node: MCC/MDB 2.061
582ER53MC01Q52
Motor Starter

	582ER53MC01Q52 Spare Motor Starter	80019896	01.005200
--	---------------------------------------	----------	-----------

Tonasa	Q B01-NO S	Q B01-NO S	-	11/29/2010 11:13:54 AM	1/27/2012 10:39:42 AM	Customer	A2
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LVDB 582ER53MC01

X2

1
2
3
4
5
6
PE

X2

10
11
PE

X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.062
582ER53MC01Q53
Motor Starter



582ER53MC01Q53 Spare
Motor Starter

80019896

01.005210

LVDB 582ER53LV01

582ER53MC01Q01
Feeder
582ER53MC02Q01Y01
Document: 80019896
Page: 01.005130

DP	
GN	A1
RD	B1
SH	CL1

524ER53LD01Q01
Feeder
524ER53LD01Q01Y01
Document: 80019896
Page: 01.001110

DP	
GN	A2
RD	B2
SH	CL2

To MCC 582ER53MC02
582ER53MC02Q01W01
No of cables 1

X1	
02	U2
03	V2
04	W2
01	N2
PE	PE2

MCC/MDB position
Unit Conn. Type B29
582ER53MC02Q01
Feeder

530LG01A06

	Address	Position	Term:
+24 VDC		X05.02.A	13+ 02
Temperature	582ER53N01T01	AI N02.01..08.12	13 01

Customer
Supply

582ER53N01C01

02	1 (+)
01	2 (-)

This drawing needs detailed information from Client on terminals to be connected.

Terminals considered now are tentative

Range: 0 - 150 °C

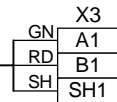
582ER53N01
Temperature

MVDB 582ER52A

582ER52AQ02
Power Feeder

582ER53Q01Y01

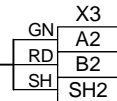
Document: 80019896
Page: 01.004990



582ER52AQ41
Power Feeder

101MV200Q41Y01

Document: 80019896
Page: 01.005010

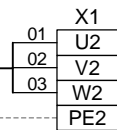


582ER53Q02
Power Feeder

582ER53Q02H01

Document: 80019896
Page: 01.005250

No of cables 1



MCC Position:
Unit Type: C32 NO
Net: 530LG01:DP3
Node: Field Device.049
582ER53Q01
Power Feeder



582ER53Q01
Outgoing to 528ER53
Power Feeder

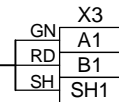
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01.005240

MVDB 582ER53

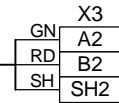
530LG01A18
Network Interface Box Profibus 582ER53Q02Y01

Document: 80019896
Page: 01.002030



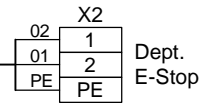
582ER53Q41
Power Feeder 582ER53Q41Y01

Document: 80019896
Page: 01.005270



530LG01A01
PLC Cpu-Cabinet ER-54 582ER53Q02M01

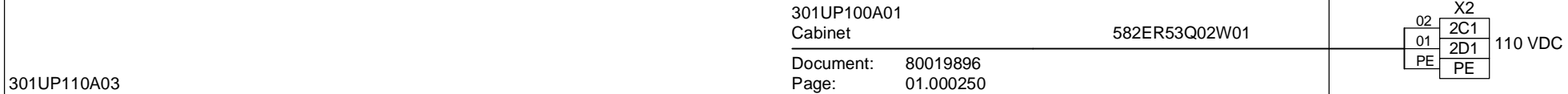
Document: 80019896
Page: 01.001890



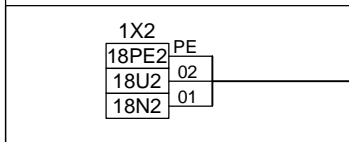
MCC Position:
Unit Type: C31 ES
Net: 530LG01:DP3
Node: Field Device.053
582ER53Q02
Power Feeder



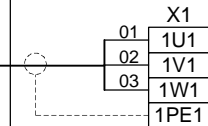
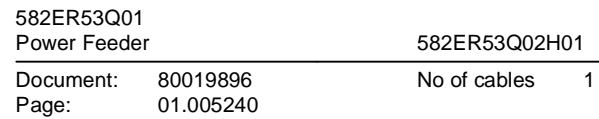
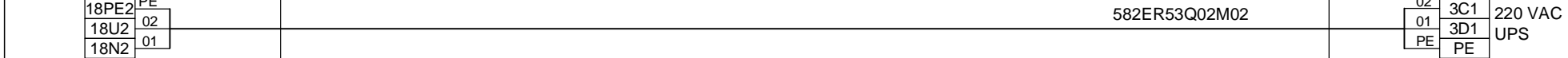
MVDB 582ER53



301UP110A03
Distribution



Document: 80019896
Page: 01.000270



MCC Position:
Unit Type: C31 ES
Net: 530LG01:DP3
Node: Field Device.053
582ER53Q02
Power Feeder

Tonasa	Q C32 NO Spare	Q C32 Spare	-	9/27/2011 3:16:00 PM	1/27/2012 10:39:48 AM	Customer	A2
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MVDB 582ER53

X3

A1

B1

SH1

X3

A2

B2

SH2

X1

U2

V2

W2

PE2

MCC Position:
Unit Type: C32 NO
Net: 530LG01:DP3
Node: Field Device.054
582ER53Q41
Power Feeder



582ER53Q41

Spare
Power Feeder

80019896

01.005270

530LG01A03

LVDB 582ER54ALV01

		Address	Position:	Term:
220 VAC			X06.11.A	01L
Power Supply OK	582ER54ALV01F01E41	DI	N02.01..11.02	01

582ER54ALV01F01M01

		X2
02		1
01		2
PE		3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)
F22(16A)	582ER54ALV01Q02	Incoming	80019896	01.005300
		Feeder		

MCC Position
Unit Conn. Type B42

582ER54ALV01F01 Feeder



582ER54ALV01F01 Control Voltage
Feeder

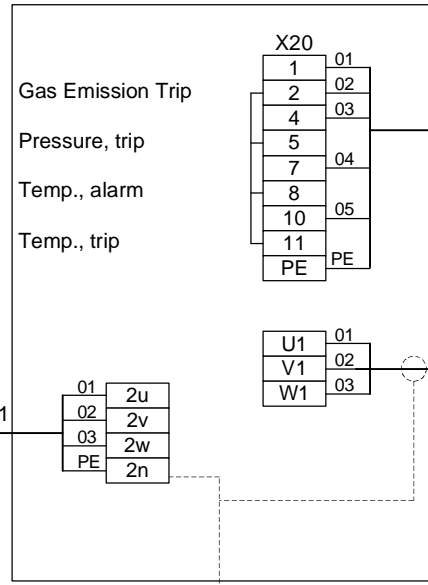
80019896

01.005280

MVDB 582ER54

X2
2C1
2D1

582ER54ALV01T01 Transformer



582ER54ALV01T01M01

X2	
02	20
01	21
03	22
04	23
05	24
PE	PE

582ER54ALV01T01H01

No of cables 1

X1	
01	U2
02	V2
03	W2
PE	PE2

582ER54ALV01Q02 Feeder

582ER54ALV01Q02W01

Document: 80019896
Page: 01.005300

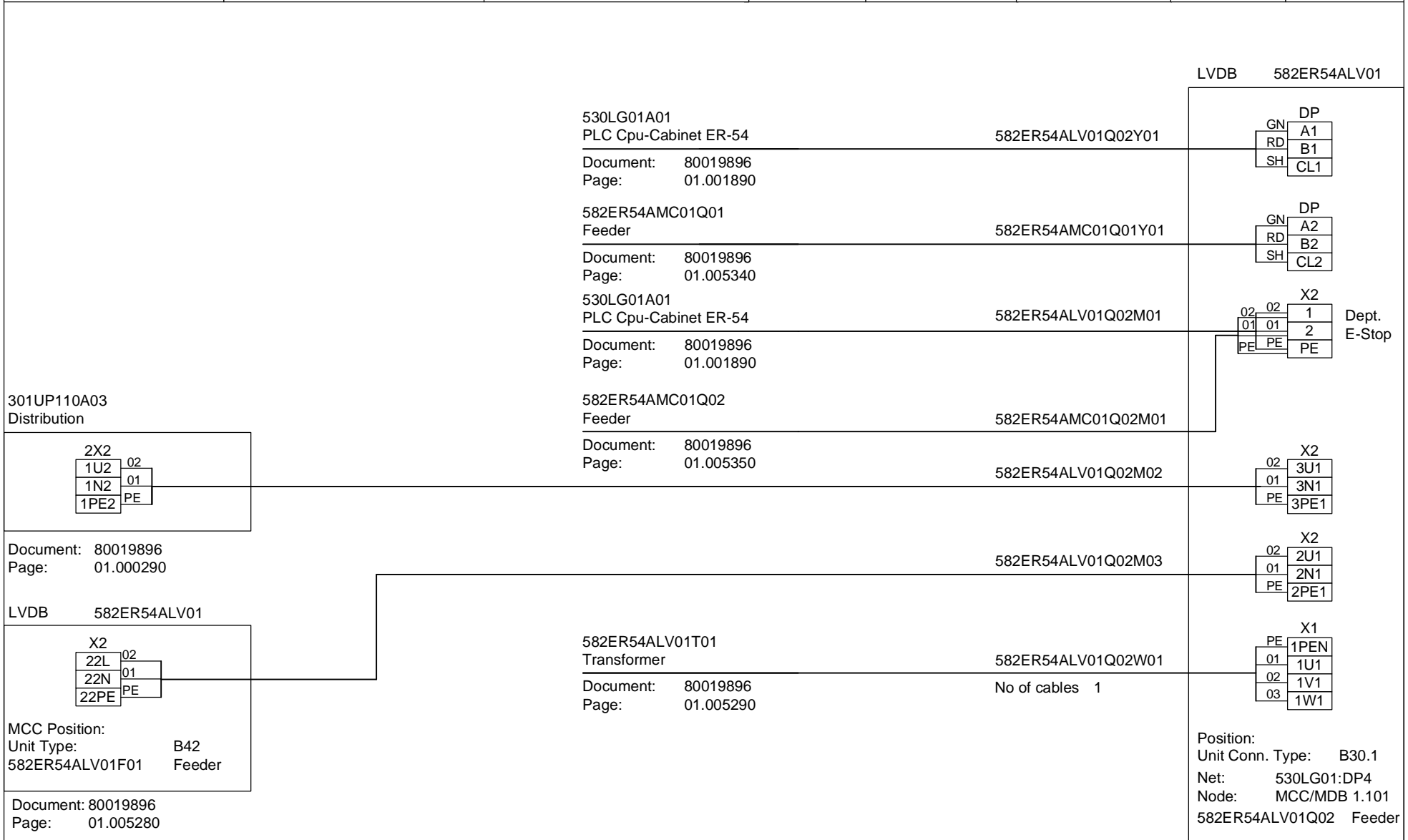
MCC Position:
Unit Type: C20 NO
Net: 530LG01:DP3
Node: Field Device.046
582ER54ALV01Q01
Power Feeder



582ER54ALV01Q01 Outgoing Power Feeder

80019896

01.005290



LVDB 582ER54ALV01

582ER54AMC02Q01
Feeder

582ER54ALV01Q21Y01

Document: 80019896
Page: 01.005430

GN	DP
RD	A1
SH	B1
	CL1

582ER54BLV01Q02
Feeder

582ER54BLV01Q02Y01

Document: 80019896
Page: 01.005780

GN	DP
RD	A2
SH	B2
	CL2

X1
U2
V2
W2
N2
PE2

MCC/MDb position
Unit Conn. Type B29
Net: 530LG01:DP4
Node: MCC/MDb 1.104
582ER54ALV01Q21
Feeder



582ER54ALV01Q21 MCC Spare
Feeder

80019896

01.005310

530LG01A03

LVDB 582ER54AMC01

		Address	Position:	Term:
220 VAC			X06.11.A	02L
Power Supply OK	582ER54AMC01F01E41	DI	N02.01..11.03	02

582ER54AMC01F01M01

		X2
02	01	1
01	PE	2
		3

List of consumers

	Description	Purpose	Document	Page
F1 (2A) 531AF01D01	Apron Feeder Lub.Sys.Oil	Level Switch	80019896	01.002110
F2 (2A) 531BF01A01	Bag Filter	Control Panel	80019896	01.002520
F3 (2A) 531BF02A01	Bag Filter	Control Panel	80019896	01.002530
F4 (2A) 532BF01A01	Bag Filter	Control Panel	80019896	01.003050
F5 (2A) 532BF02A01	Bag Filter	Control Panel	80019896	01.003060
F6 (2A) 532BF03A01	Bag Filter	Control Panel	80019896	01.003070
F7 (2A) 532BF04A01	Bag Filter	Control Panel	80019896	01.003080
F8 (2A) 531BC04D11	Metal Detector	Transducer	80019896	01.002470
F9 (2A) .	.	.	.	.
F10 (2A) .	.	.	.	.
F11 (4A) 531BC01A01	Belt Conveyor Belt Weigher	Control Panel	80019896	01.002280
F12 (4A) 532BI01N01	Reject Bin	Transmitter	80019896	01.003100
F13 (4A) 532GS01A01	Grease Lubrication Unit	Local Control Panel	80019896	01.003520
F14 (4A) 532RM01N06	Raw Mill	Vibration Monitor	80019896	01.004190
F15 (4A) 532SI01X01	Silo Level	Junction Box	80019896	01.004230
F16 (4A) .	.	.	.	.
F17 (4A) .	.	.	.	.
F18 (4A) .	.	.	.	.
F19 (6A) .	.	.	.	.
F20 (6A) .	.	.	.	.
F21(16A) 582ER54AMC01Q02	Incoming	Feeder	80019896	01.005350
F22(16A) .	.	.	.	.

MCC Position
Unit Conn. Type B42

582ER54AMC01F01 Feeder



582ER54AMC01F01 Control Voltage
Feeder

80019896

01.005320

530LG01A03

LVDB 582ER54AMC01

Address	Position:	Term:
220 VAC	X06.11.A	03L
Power Supply OK	582ER54AMC01F02E41	DI N02.01..11.04 X06.11.A

582ER54AMC01F02M01

X2	
02	1
01	2
PE	3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)
F22(16A)

MCC Position
Unit Conn. Type B42

582ER54AMC01F02 Feeder



LVDB 582ER54ALV01

582ER54ALV01Q02
Feeder

582ER54AMC01Q01Y01

Document: 80019896
Page: 01.005300

GN		DP
RD	A1	
SH	B1	
	CL1	

582ER54AMC02Q01
Feeder

582ER54AMC02Q01Y01

Document: 80019896
Page: 01.005430

GN		DP
RD	A2	
SH	B2	
	CL2	

582ER54AMC01Q02
Feeder

582ER54AMC01Q01W01

Document: 80019896
Page: 01.005350

No of cables 1

X1	
02	U2
03	V2
04	W2
01	N2
PE	PE2

MCC/MDB position
Unit Conn. Type B29

582ER54AMC01Q01
Feeder



582ER54AMC01Q01 MCC
Feeder

80019896

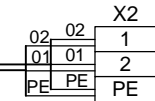
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LVDB 582ER54AMC01

582ER54ALV01Q02
Feeder

582ER54AMC01Q02M01

Document: 80019896
Page: 01.005300



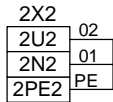
Dept.
E-Stop

582ER54AMC02Q02
Feeder

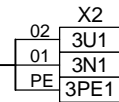
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Document: 80019896
Page: 01.005440

301UP110A03
Distribution



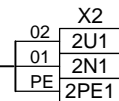
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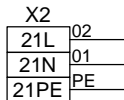
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Document: 80019896
Page: 01.000290

582ER54AMC01Q02M03



220 VAC

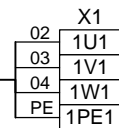


582ER54AMC01Q01
Feeder

582ER54AMC01Q01W01

Doc: 80019896
Page: 01.005340

No of cables 1



MCC Position
Unit Conn. Type B42
582ER54AMC01F01 Feeder

Position:
Unit Conn. Type: B30.2

582ER54AMC01Q02
Feeder



582ER54AMC01Q02 Incoming
Feeder

80019896

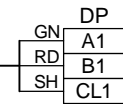
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LVDB 582ER54AMC01

582ER54BLV01Q21
Feeder

582ER54AMC01Q02Y01

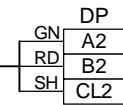
Document: 80019896
Page: 01.005790



582ER54AMC02Q02
Feeder

582ER54AMC02Q02Y01

Document: 80019896
Page: 01.005440



Position:
Unit Conn. Type: B30.2

582ER54AMC01Q02
Feeder



582ER54AMC01Q02 Incoming
Feeder

80019896

01.005360

Tonasa	Q B28 Spare	Q B28 Spare	-	7/1/2010 12:55:49 PM	1/27/2012 10:39:54 AM	Customer	A2
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LVDB 582ER54AMC01

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER54AMC01Q21
 Feeder



582ER54AMC01Q21 Spare
 Feeder

80019896

01.005370

Tonasa	Q B28 Spare	Q B28 Spare	-	7/1/2010 12:56:06 PM	1/27/2012 10:39:55 AM	Customer	A2
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LVDB 582ER54AMC01

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER54AMC01Q22
 Feeder



582ER54AMC01Q22 Spare
 Feeder

80019896

01.005380

Tonasa	Q B01-PM S	Q B01-ED S	-	7/1/2010 12:20:44 PM	1/27/2012 10:39:55 AM	Customer	A2
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LVDB 582ER54AMC01

X2

1
2
3
4
5
6
PE

X2

10
11
PE

X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP4
Node: MCC/MDB 1.026
582ER54AMC01Q51
Motor Starter



582ER54AMC01Q51 Spare
Motor Starter

80019896

01.005390

Tonasa	Q B01-PM S	Q B01-ED S	-	7/1/2010 12:21:36 PM	1/27/2012 10:39:56 AM	Customer	A2
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LVDB 582ER54AMC01

X2

1
2
3
4
5
6
PE

X2

10
11
PE


X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP4
Node: MCC/MDB 1.027
582ER54AMC01Q52
Motor Starter

	582ER54AMC01Q52 Spare Motor Starter	80019896	01.005400
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Tonasa	Q B42 F1-F22	Q B42 F1-F22	-	3/31/2010 7:10:03 AM	1/27/2012 10:39:57 AM	Customer	A2
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530LG01A03

LVDB 582ER54AMC02

	Address	Position:	Term:
220 VAC		X06.11.A	04L ⁰²
Power Supply OK	582ER54AMC02F01E41	DI	04 ⁰¹

582ER54AMC02F01M01

	X2
02	1
01	2
PE	3

List of consumers

	Description	Purpose	Document	Page
F1 (2A) 532BE01D01	Bucket Elevator	Motion Detector	80019896	01.002850
F2 (2A) 532BE01D07	Bucket Elevator	Coupling Temperature	80019896	01.002870
F3 (2A) 532BE01D08	Bucket Elevator Inching Drive	Motion Detector	80019896	01.002880
F4 (2A) 532BC01D11	Belt Conveyor	Transducer	80019896	01.002780
F5 (2A) .	.	.	.	.
F6 (2A) .	.	.	.	.
F7 (2A) .	.	.	.	.
F8 (2A) .	.	.	.	.
F9 (2A) .	.	.	.	.
F10 (2A) .	.	.	.	.
F11 (4A) 532FN01N13	Raw Mil Fan	Vibration Monitor	80019896	01.003240
F12 (4A) 532WI01N01	Water Injection	Flow	80019896	01.004310
F13 (4A) .	.	.	.	.
F14 (4A) .	.	.	.	.
F15 (4A) .	.	.	.	.
F16 (4A) .	.	.	.	.
F17 (4A) .	.	.	.	.
F18 (4A) .	.	.	.	.
F19 (6A) .	.	.	.	.
F20 (6A) .	.	.	.	.
F21(16A) 582ER54AMC02Q02	Incoming	Feeder	80019896	01.005440
F22(16A) .	.	.	.	.

MCC Position
Unit Conn. Type B42

582ER54AMC02F01 Feeder



582ER54AMC02F01 Control Voltage
Feeder

80019896

01.005410

530LG01A03

LVDB 582ER54AMC02

	Address	Position:	Term:
220 VAC		X06.11.A	05L ⁰²
Power Supply OK	582ER54AMC02F02E41	DI	05 ⁰¹

582ER54AMC02F02M01

	X2
02	1
01	2
PE	3



List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)
F22(16A)

MCC Position
Unit Conn. Type B42

582ER54AMC02F02 Feeder



582ER54AMC02F02 Control Voltage
Feeder

80019896

01.005420

LVDB 582ER54ALV01

582ER54AMC01Q01
Feeder

582ER54AMC02Q01Y01

Document: 80019896
Page: 01.005340

DP	
GN	A1
RD	B1
SH	CL1

582ER54ALV01Q21
Feeder

582ER54ALV01Q21Y01

Document: 80019896
Page: 01.005310

DP	
GN	A2
RD	B2
SH	CL2

582ER54AMC02Q02
Feeder

582ER54AMC02Q01W01

Document: 80019896
Page: 01.005440

No of cables 1

X1	
02	U2
03	V2
04	W2
01	N2
PE	PE2

MCC/MDB position
Unit Conn. Type B29

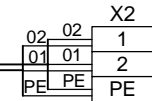
582ER54AMC02Q01
Feeder

LVDB 582ER54AMC02

582ER54AMC01Q02
Feeder

582ER54AMC02Q02M01

Document: 80019896
Page: 01.005350



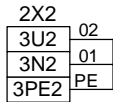
Dept.
E-Stop

582ER54AMC11Q02
Feeder

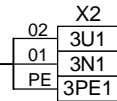
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Document: 80019896
Page: 01.005550

301UP110A03
Distribution



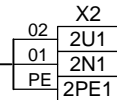
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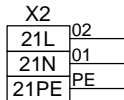
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Document: 80019896
Page: 01.000290

582ER54AMC02Q02M03



220 VAC

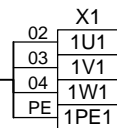


582ER54AMC02Q01
Feeder

582ER54AMC02Q01W01

Doc: 80019896
Page: 01.005430

No of cables 1



MCC Position
Unit Conn. Type B42
582ER54AMC02F01 Feeder

Position:
Unit Conn. Type: B30.2

582ER54AMC02Q02
Feeder



582ER54AMC02Q02 Incoming
Feeder

80019896

01.005440

LVDB 582ER54AMC02

582ER54AMC01Q02
Feeder

582ER54AMC02Q02Y01

Document: 80019896
Page: 01.005350

	DP
GN	A1
RD	B1
SH	CL1

582ER54BMC01Q02
Feeder

582ER54BMC01Q02Y01

Document: 80019896
Page: 01.005850

	DP
GN	A2
RD	B2
SH	CL2

Position:
Unit Conn. Type: B30.2

582ER54AMC02Q02
Feeder



582ER54AMC02Q02 Incoming
Feeder

80019896

01.005450

Tonasa	Q B28 Spare	Q B28 Spare	-	7/2/2010 11:01:44 AM	1/27/2012 10:40:01 AM	Customer	A2
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LVDB 582ER54AMC02

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER54AMC02Q21
 Feeder

	582ER54AMC02Q21 Spare Feeder	80019896	01.005460
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Tonasa	Q B28 Spare	Q B28 Spare	-	7/2/2010 11:02:00 AM	1/27/2012 10:40:01 AM	Customer	A2
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LVDB 582ER54AMC02

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER54AMC02Q22
 Feeder

	582ER54AMC02Q22 Spare Feeder	80019896	01.005470
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Tonasa	Q B28 Spare	Q B28 Spare	-	7/2/2010 11:02:12 AM	1/27/2012 10:40:02 AM	Customer	A2
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LVDB 582ER54AMC02

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER54AMC02Q23
 Feeder

	582ER54AMC02Q23 Spare Feeder	80019896	01.005480
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Tonasa	Q B13-NO S	Q B13-NO S	-	12/3/2010 9:48:27 AM	1/27/2012 10:40:02 AM	Customer	A2
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LVDB 582ER54AMC02

X2
1
2
3
4
5
6
7
PE

X2
10
11
PE

X4
1
2

X2
12
13
14
15
PE

X1
U2
V2
W2
PE2

MCC/MDB position
Unit Type B13 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.065
582ER54AMC0
2Q31 Motor Starter



582ER54AMC02Q31 Spare
Motor Starter

80019896

01.005490

Tonasa	Q B01-PM S	Q B01-ED S	-	7/2/2010 10:45:33 AM	1/27/2012 10:40:03 AM	Customer	A2
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LVDB 582ER54AMC02

X2

1
2
3
4
5
6
PE

X2

10
11
PE

X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP4
Node: MCC/MDB 1.066
582ER54AMC02Q51
Motor Starter



582ER54AMC02Q51 Spare
Motor Starter

80019896

01.005500

Tonasa	Q B01-NO S	Q B01-NO S	-	7/2/2010 10:45:49 AM	1/27/2012 10:40:04 AM	Customer	A2
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LVDB 582ER54AMC02

X2

1
2
3
4
5
6
PE

X2

10
11
PE


X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.067
582ER54AMC02Q52
Motor Starter

	582ER54AMC02Q52 Spare Motor Starter	80019896	01.005510
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Tonasa	Q B01-NO S	Q B01-NO S	-	7/2/2010 10:58:47 AM	1/27/2012 10:40:04 AM	Customer	A2
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LVDB 582ER54AMC02

X2

1
2
3
4
5
6
PE

X2

10
11
PE

X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.068
582ER54AMC02Q53
Motor Starter



582ER54AMC02Q53 Spare
Motor Starter

80019896

01.005520

530LG01A05

LVDB 582ER54AMC11

	Address	Position:	Term:
220 VAC		X06.05.A	14L
Power Supply OK	582ER54AMC11F01E41	DI	14

582ER54AMC11F01M01

	X2
02	1
01	2
PE	3



List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)	582ER54AMC11Q02	Incoming	80019896	01.005550
F22(16A)

MCC Position
Unit Conn. Type B42

582ER54AMC11F01 Feeder



582ER54AMC11F01 Control Voltage
Feeder

80019896

01.005530

Tonasa	Q B28	Q B28	-	12/3/2010 11:30:09 AM	1/27/2012 10:40:05 AM	Customer	A2
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LVDB 582ER54AMC01

MCC 582ER54AMC11Q01W01
 Feeder No of cables 1

	X1
02	U2
03	V2
04	W2
01	N2
PE	PE2

MCC/MDB position
 Unit Conn. Type B28

582ER54AMC11Q01 Feeder



582ER54AMC11Q01 MCC
 Feeder

80019896

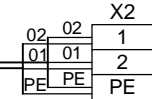
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LVDB 582ER54AMC11

582ER54AMC02Q02
Feeder

582ER54AMC11Q02M01

Document: 80019896
Page: 01.005440



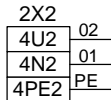
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E-Stop

582ER54AMC21Q02
Feeder

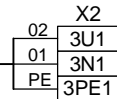
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Page: 01.005610

301UP110A03
Distribution



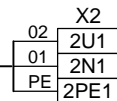
582ER54AMC11Q02M02



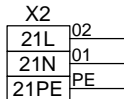
UPS

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582ER54AMC11Q02M03



220 VAC



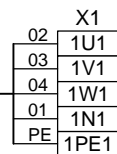
MCC Position
Unit Conn. Type B42
582ER54AMC11F01 Feeder

582ER54AMC11Q01
Feeder

582ER54AMC11Q01W01

Doc: 80019896
Page: 01.005540

No of cables 1



Position:
Unit Conn. Type: B30.2

582ER54AMC11Q02
Feeder



582ER54AMC11Q02 Incoming
Feeder

80019896

01.005550

LVDB 582ER54AMC11

583ER54MC01Q02
Feeder

582ER54AMC11Q02Y01

Document: 80019896
Page: 01.006060

	DP
GN	A1
RD	B1
SH	CL1

Position:
Unit Conn. Type: B30.2

582ER54AMC11Q02
Feeder



582ER54AMC11Q02 Incomig
Feeder

80019896

01.005560

Tonasa	Q B28 Spare	Q B28 Spare	-	12/3/2010 11:18:47 AM	1/27/2012 10:40:07 AM	Customer	A2
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LVDB 582ER54AMC11

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER54AMC11Q21
 Feeder

	582ER54AMC11Q21 Spare Feeder	80019896	01.005570
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Tonasa	U LV EL B15.1 UD Spare	U LV EL, Starter Spare	-	12/3/2010 11:17:07 AM	1/27/2012 10:40:08 AM	Customer	A2
--------	------------------------	------------------------	---	-----------------------	-----------------------	----------	----

MCC 582ER54AMC
11

X2

1
2
3
4
5
6
PE

X1

U2
V2
W2
PE2

MCC/MDB position
Unit Type B15.1 - UD
582ER54AMC11Q41
Motor Starter



582ER54AMC11Q41 Spare
Motor Starter

80019896

01.005580

530LG01A03

LVDB 582ER54AMC21

	Address	Position:	Term:
220 VAC		X06.11.A	07L ⁰²
Power Supply OK	582ER54AMC21F01E41	DI	07 ⁰¹

582ER54AMC21F01M01

	X2
02	1
01	2
PE	3



List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)	582ER54AMC21Q02 Incoming	Feeder	80019896	01.005610
F22(16A)

MCC Position
Unit Conn. Type B42

582ER54AMC21F01 Feeder



582ER54AMC21F01 Control Voltage
Feeder

80019896

01.005590

Tonasa	Q B28	Q B28	-	12/2/2010 5:40:31 AM	1/27/2012 10:40:09 AM	Customer	A2
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LVDB 582ER54AMC02

MCC 582ER54AMC21Q01W01
 Feeder No of cables 1

	X1
02	U2
03	V2
04	W2
01	N2
PE	PE2

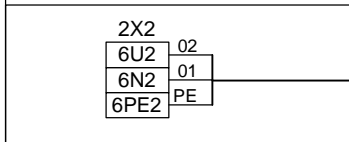
MCC/MDb position
 Unit Conn. Type B28

582ER54AMC21Q01 Feeder

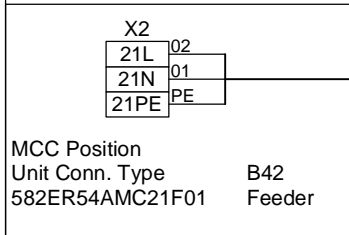
	582ER54AMC21Q01 MCC Feeder	80019896	01.005600
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LVDB 582ER54AMC21

301UP110A03 Distribution	582ER54AMC11Q02 Feeder	582ER54AMC21Q02M01	<table border="1"> <tr><td colspan="2">X2</td></tr> <tr><td>02</td><td>1</td></tr> <tr><td>01</td><td>2</td></tr> <tr><td>PE</td><td>PE</td></tr> </table>	X2		02	1	01	2	PE	PE	Dept. E-Stop
	X2											
02	1											
01	2											
PE	PE											
Document: 80019896 Page: 01.005550												



Document: 80019896
Page: 01.000290



582ER54AMC21Q01 Feeder	582ER54AMC21Q02M02	<table border="1"> <tr><td colspan="2">X2</td></tr> <tr><td>02</td><td>3U1</td></tr> <tr><td>01</td><td>3N1</td></tr> <tr><td>PE</td><td>3PE1</td></tr> </table>	X2		02	3U1	01	3N1	PE	3PE1	UPS				
X2															
02	3U1														
01	3N1														
PE	3PE1														
Doc: 80019896 Page: 01.005600	582ER54AMC21Q02M03	<table border="1"> <tr><td colspan="2">X2</td></tr> <tr><td>02</td><td>2U1</td></tr> <tr><td>01</td><td>2N1</td></tr> <tr><td>PE</td><td>2PE1</td></tr> </table>	X2		02	2U1	01	2N1	PE	2PE1	220 VAC				
X2															
02	2U1														
01	2N1														
PE	2PE1														
582ER54AMC21Q01 Feeder	582ER54AMC21Q01W01	<table border="1"> <tr><td colspan="2">X1</td></tr> <tr><td>02</td><td>1U1</td></tr> <tr><td>03</td><td>1V1</td></tr> <tr><td>04</td><td>1W1</td></tr> <tr><td>01</td><td>1N1</td></tr> <tr><td>PE</td><td>1PE1</td></tr> </table>	X1		02	1U1	03	1V1	04	1W1	01	1N1	PE	1PE1	No of cables 1
X1															
02	1U1														
03	1V1														
04	1W1														
01	1N1														
PE	1PE1														

Position:
Unit Conn. Type: B30.2

582ER54AMC21Q02
Feeder

Tonasa	Q B28 Spare	Q B28 Spare	-	7/2/2010 6:44:11 AM	1/27/2012 10:40:10 AM	Customer	A2
--------	-------------	-------------	---	---------------------	-----------------------	----------	----

LVDB 582ER54AMC21

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER54AMC21Q21
 Feeder

	582ER54AMC21Q21 Spare Feeder	80019896	01.005620
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Tonasa	Q B01-NO S	Q B01-NO S	-	7/2/2010 6:41:33 AM	1/27/2012 10:40:10 AM	Customer	A2
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LVDB 582ER54AMC21

X2
1
2
3
4
5
6
PE

X2
10
11
PE

X4
1
2

X1
U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - NO
Net:
Node:
582ER54AMC21Q51
Motor Starter

	582ER54AMC21Q51 Spare Motor Starter	80019896	01.005630
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530LG01A03

LVDB 582ER54AMC22

	Address	Position:	Term:
220 VAC		X06.11.A	08L
Power Supply OK	582ER54AMC22F01E41	DI	08

582ER54AMC22F01M01

X2	
02	1
01	2
PE	3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)	582ER54AMC22Q02 Incoming	Feeder	80019896	01.005660
F22(16A)

MCC Position
Unit Conn. Type B42

582ER54AMC22F01 Feeder



Tonasa	Q B28	Q B28	-	12/2/2010 5:42:34 AM	1/27/2012 10:40:12 AM	Customer	A2
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LVDB 582ER54AMC02

MCC 582ER54AMC22Q01W01
 Feeder No of cables 1

	X1
02	U2
03	V2
04	W2
01	N2
PE	PE2

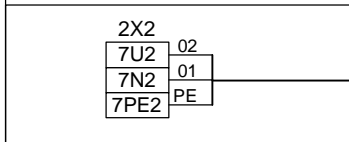
MCC/MDB position
 Unit Conn. Type B28

582ER54AMC22Q01 Feeder

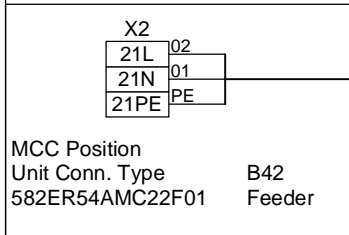
	582ER54AMC22Q01 MCC Feeder	80019896	01.005650
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LVDB 582ER54AMC22

301UP110A03 Distribution	582ER54AMC21Q02 Feeder	582ER54AMC22Q02M01	<table border="1"> <tr><td colspan="2">X2</td></tr> <tr><td>02</td><td>1</td></tr> <tr><td>01</td><td>2</td></tr> <tr><td>PE</td><td>PE</td></tr> </table>	X2		02	1	01	2	PE	PE	Dept. E-Stop
	X2											
02	1											
01	2											
PE	PE											
Document: 80019896 Page: 01.005610												



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Page: 01.000290



582ER54AMC22Q01 Feeder	582ER54AMC22Q01W01	<table border="1"> <tr><td colspan="2">X1</td></tr> <tr><td>02</td><td>1U1</td></tr> <tr><td>03</td><td>1V1</td></tr> <tr><td>04</td><td>1W1</td></tr> <tr><td>01</td><td>1N1</td></tr> <tr><td>PE</td><td>1PE1</td></tr> </table>	X1		02	1U1	03	1V1	04	1W1	01	1N1	PE	1PE1	No of cables 1
X1															
02	1U1														
03	1V1														
04	1W1														
01	1N1														
PE	1PE1														
Doc: 80019896 Page: 01.005650															

		<table border="1"> <tr><td colspan="2">X2</td></tr> <tr><td>02</td><td>3U1</td></tr> <tr><td>01</td><td>3N1</td></tr> <tr><td>PE</td><td>3PE1</td></tr> </table>	X2		02	3U1	01	3N1	PE	3PE1	UPS
X2											
02	3U1										
01	3N1										
PE	3PE1										
		<table border="1"> <tr><td colspan="2">X2</td></tr> <tr><td>02</td><td>2U1</td></tr> <tr><td>01</td><td>2N1</td></tr> <tr><td>PE</td><td>2PE1</td></tr> </table>	X2		02	2U1	01	2N1	PE	2PE1	220 VAC
X2											
02	2U1										
01	2N1										
PE	2PE1										

Position:
Unit Conn. Type: B30.2
582ER54AMC22Q02
Feeder

Tonasa	Q B28 Spare	Q B28 Spare	-	7/2/2010 6:55:21 AM	1/27/2012 10:40:13 AM	Customer	A2
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LVDB 582ER54AMC22

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER54AMC22Q21
 Feeder



582ER54AMC22Q21 Spare
 Feeder

80019896

01.005670

Tonasa	Q B01-NO S	Q B01-NO S	-	7/2/2010 6:52:09 AM	1/27/2012 10:40:13 AM	Customer	A2
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LVDB 582ER54AMC22

X2

1
2
3
4
5
6
PE

X2

10
11
PE

X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - NO
Net:
Node:
582ER54AMC22Q51
Motor Starter

	582ER54AMC22Q51 Spare Motor Starter	80019896	01.005680
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530LG01A03

LVDB 582ER54AMC23

	Address	Position:	Term:
220 VAC		X06.11.A	09L
Power Supply OK	582ER54AMC23F01E41	DI	09

582ER54AMC23F01M01

	X2
02	1
01	2
PE	3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)	582ER54AMC23Q02 Incoming	Feeder	80019896	01.005710
F22(16A)

MCC Position
Unit Conn. Type B42

582ER54AMC23F01 Feeder



582ER54AMC23F01 Control Voltage
Feeder

80019896

01.005690

Tonasa	Q B28	Q B28	-	12/2/2010 5:42:51 AM	1/27/2012 10:40:15 AM	Customer	A2
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LVDB 582ER54AMC02

MCC 582ER54AMC23Q01W01
 Feeder No of cables 1

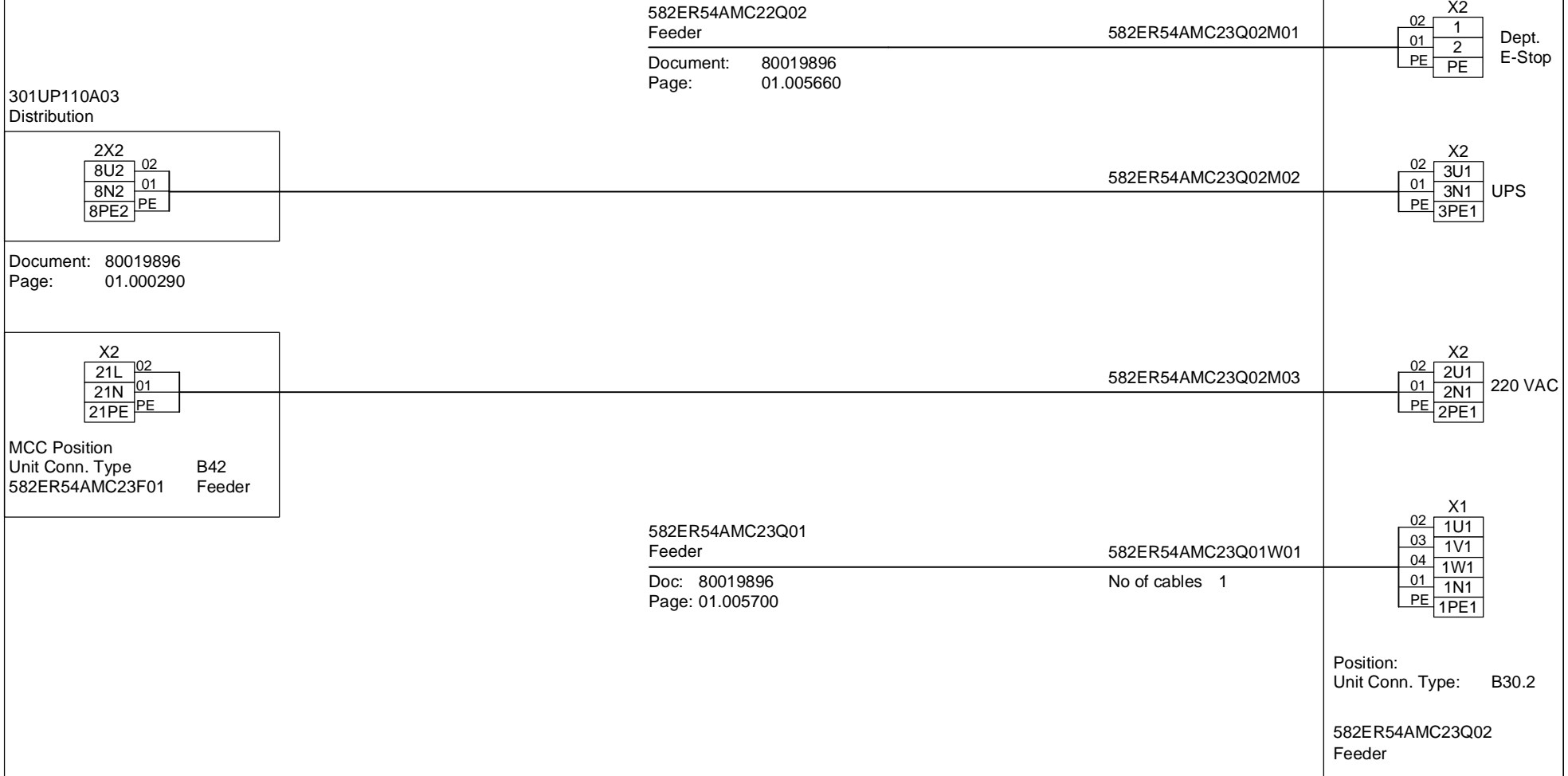
	X1
02	U2
03	V2
04	W2
01	N2
PE	PE2

MCC/MDB position
 Unit Conn. Type B28

582ER54AMC23Q01 Feeder

	582ER54AMC23Q01 MCC Feeder	80019896	01.005700
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LVDB 582ER54AMC23



Tonasa	Q B28 Spare	Q B28 Spare	-	7/2/2010 6:55:45 AM	1/27/2012 10:40:17 AM	Customer	A2
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LVDB 582ER54AMC23

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER54AMC23Q21
 Feeder

	582ER54AMC23Q21 Spare Feeder	80019896	01.005720
--	---------------------------------	----------	-----------

Tonasa	Q B01-NO S	Q B01-NO S	-	7/2/2010 6:52:31 AM	1/27/2012 10:40:18 AM	Customer	A2
--------	------------	------------	---	---------------------	-----------------------	----------	----

LVDB 582ER54AMC23

X2

1
2
3
4
5
6
PE

X2

10
11
PE


X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - NO
Net:
Node:
582ER54AMC23Q51
Motor Starter

	582ER54AMC23Q51 Spare Motor Starter	80019896	01.005730
--	--	----------	-----------

Tonasa	Q B29 Lighting	Q B29 Lighting1	-	12/9/2010 10:25:07 AM	1/27/2012 10:40:18 AM	Customer	A2
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Customer

Supply

582ER54BLD01Q01
Feeder

582ER54BLD01Q01W01

Doc: 80019896
Page: 01.005750

No of cables 2

02	U1
03	V1
04	W1
01	N1
PE	PE1

582ER54BLD01A01
Cabinet



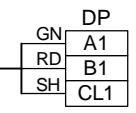
582ER54BLD01A01 Lighting Transformer
Cabinet

80019896

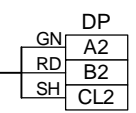
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LVDB 582ER54BLV01

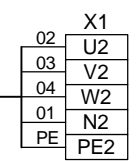
582ER54BPD01Q01
Feeder 582ER54BLD01Q01Y01
Document: 80019896
Page: 01.005920



582ER54BLV01Q81
Feeder 582ER54BLV01Q81Y01
Document: 80019896
Page: 01.005800



582ER54BLD01A01
Cabinet 582ER54BLD01Q01W01
Doc: 80019896
Page: 01.005740
No of cables 2



MCC/MDb position
Unit Conn. Type B29

582ER54BLD01Q01 Feeder

530LG01A03

LVDB 582ER54BLV01

	Address	Position:	Term:
220 VAC		X06.11.A	10L
Power Supply OK	582ER54BLV01F01E41	DI	10

582ER54BLV01F01M01

	X2
02	1
01	2
PE	3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)
F22(16A)	582ER54BLV01Q02	Incoming	80019896	01.005780

MCC Position
Unit Conn. Type B42

582ER54BLV01F01 Feeder



582ER54BLV01F01 Control Voltage Feeder

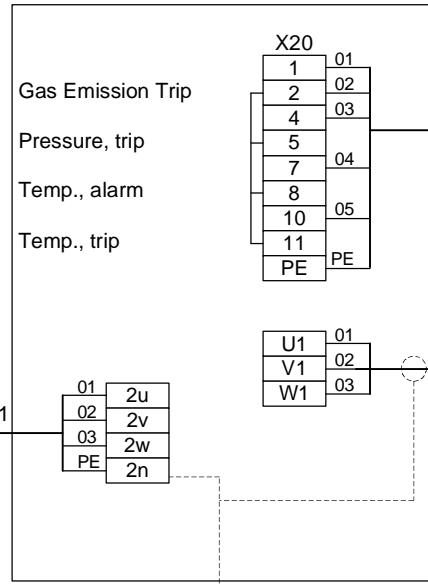
80019896

01.005780

MVDB 582ER54

X2
2C1
2D1

582ER54BLV01T01 Transformer



582ER54BLV01T01M01

X2
02 20
01 21
03 22
04 23
05 24
PE PE

582ER54BLV01T01H01

No of cables 1

X1
01 U2
02 V2
03 W2
PE2

582ER54BLV01Q02 Feeder

582ER54BLV01Q02W01

Document: 80019896
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MCC Position:
Unit Type: C20 NO
Net: 530LG01:DP3
Node: Field Device.047
582ER54BLV01Q01
Power Feeder

LVDB 582ER54BLV01

582ER54ALV01Q21
Feeder

582ER54BLV01Q02Y01

Document: 80019896
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GN	DP
RD	A1
SH	B1
	CL1

582ER54BMC01Q01
Feeder

582ER54BMC01Q01Y01

Document: 80019896
Page: 01.005840

GN	DP
RD	A2
SH	B2
	CL2

530LG01A01
PLC Cpu-Cabinet ER-54

582ER54BLV01Q02M01

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Page: 01.001890

02	02	X2
01	01	1
PE	PE	2
		PE

Dept.
E-Stop

301UP110A03
Distribution

582ER54BMC01Q02
Feeder

582ER54BMC01Q02M01

Document: 80019896
Page: 01.005850

02	X2
01	3U1
PE	3N1
	3PE1

2X2	
5U2	02
5N2	01
5PE2	PE

Document: 80019896
Page: 01.000290

582ER54BLV01Q02M03

02	X2
01	2U1
PE	2N1
	2PE1

LVDB 582ER54BLV01

582ER54BLV01T01
Transformer

582ER54BLV01Q02W01

Document: 80019896
Page: 01.005770

PE	X1
01	1PEN
02	1U1
03	1V1
	1W1

X2	
22L	02
22N	01
22PE	PE

MCC Position:
Unit Type: B29
582ER54BLV01F01 Feeder

Position:
Unit Conn. Type: B30.1
Net: 530LG01:DP4
Node: MCC/MDB 1.105
582ER54BLV01Q02 Feeder

Document: 80019896
Page: 01.005760



582ER54BLV01Q02 Incoming
Feeder

80019896

01.005780

LVDB 582ER54BLV01

582ER54BLV01Q82
Feeder

582ER54BLV01Q21Y01

Document: 80019896
Page: 01.005810

GN	DP
RD	A1
SH	B1
	CL1

582ER54AMC01Q02
Feeder

582ER54AMC01Q02Y01

Document: 80019896
Page: 01.005350

GN	DP
RD	A2
SH	B2
	CL2

X1
U2
V2
W2
N2
PE2

MCC/MDb position
Unit Conn. Type B29
Net: 530LG01:DP4
Node: MCC/MDb 1.111
582ER54BLV01Q21
Feeder



582ER54BLV01Q21 MCC Spare
Feeder

80019896

01.005790

LVDB 582ER54BLV01

582ER54BLD01Q01
Feeder

582ER54BLV01Q81Y01

Document: 80019896
Page: 01.005750

GN	DP
RD	A1
SH	B1
	CL1

582ER54BLV01Q82
Feeder

582ER54BLV01Q82Y01

Document: 80019896
Page: 01.005810

GN	DP
RD	A2
SH	B2
	CL2

To MCC Workshop
Tonasa-V

582ER54BLV01Q81W01

No of cables 4

	X1
02	U2
03	V2
04	W2
01	N2
PE	PE2

MCC/MDB position
Unit Conn. Type B29

582ER54BLV01Q81
Feeder



582ER54BLV01Q81

Feeder

80019896

01.005800

LVDB 582ER54BLV01

582ER54BLV01Q81
Feeder

582ER54BLV01Q82Y01

Document: 80019896
Page: 01.005800

DP	
GN	A1
RD	B1
SH	CL1

582ER54BLV01Q21
Feeder

582ER54BLV01Q21Y01

Document: 80019896
Page: 01.005790

DP	
GN	A2
RD	B2
SH	CL2

To MCC Locker Tonasa-V

582ER54BLV01Q82W01

No of cables 4

X1	
02	U2
03	V2
04	W2
01	N2
PE	PE2

MCC/MDB position
Unit Conn. Type B29

582ER54BLV01Q82
Feeder



582ER54BLV01Q82 MCC
Feeder

80019896

01.005810

530LG01A03

LVDB 582ER54BMC01

	Address	Position:	Term:
220 VAC		X06.11.A	11L
Power Supply OK	582ER54BMC01F01E41	DI	11

582ER54BMC01F01M01

X2	
02	1
01	2
PE	3

List of consumers

	Description	Purpose	Document	Page
F1 (2A) 532BE02D01	Bucket Elevator	Motion Detector	80019896	01.002910
F2 (2A) 532BE02D07	Bucket Elevator	Coupling Temperature -1	80019896	01.002970
F3 (2A) 532BE02D08	Bucket Elevator Inch.Drive	Motion Detector	80019896	01.002980
F4 (2A) 532BE02D09	Bucket Elevator	Coupling Temperature -2	80019896	01.002990
F5 (2A) .	.	.	.	.
F6 (2A) .	.	.	.	.
F7 (2A) .	.	.	.	.
F8 (2A) .	.	.	.	.
F9 (2A) .	.	.	.	.
F10 (2A) .	.	.	.	.
F11 (4A) .	.	.	.	.
F12 (4A) .	.	.	.	.
F13 (4A) .	.	.	.	.
F14 (4A) .	.	.	.	.
F15 (4A) .	.	.	.	.
F16 (4A) .	.	.	.	.
F17 (4A) .	.	.	.	.
F18 (4A) .	.	.	.	.
F19 (6A) .	.	.	.	.
F20 (6A) .	.	.	.	.
F21(16A) 582ER54BMC01Q02	Incoming	Feeder	80019896	01.005850
F22(16A) .	.	.	.	.

MCC Position
Unit Conn. Type B42

582ER54BMC01F01 Feeder



582ER54BMC01F01 Control Voltage
Feeder

80019896

01.005820

530LG01A03

LVDB 582ER54BMC01

	Address	Position:	Term:
220 VAC		X06.11.A	12L
Power Supply OK	582ER54BMC01F02E41	DI	12

582ER54BMC01F02M01

	X2
02	1
01	2
PE	3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)
F22(16A)

MCC Position
Unit Conn. Type B42

582ER54BMC01F02 Feeder



582ER54BMC01F02 Control Voltage
Feeder

80019896

01.005830

LVDB 582ER54BLV01

582ER54BLV01Q02
Feeder

582ER54BMC01Q01Y01

Document: 80019896
Page: 01.005780

GN		DP
RD	A1	
SH	B1	
	CL1	

582ER54BPD01Q01
Feeder

582ER54BPD01Q01Y01

Document: 80019896
Page: 01.005920

GN		DP
RD	A2	
SH	B2	
	CL2	

582ER54BMC01Q02
Feeder

582ER54BMC01Q01W01

Document: 80019896
Page: 01.005850

No of cables 1

02		X1
03	U2	
04	V2	
01	W2	
PE	N2	
	PE2	

MCC/MDB position
Unit Conn. Type B29

582ER54BMC01Q01
Feeder



582ER54BMC01Q01 MCC
Feeder

80019896

01.005840

LVDB 582ER54BMC01

582ER54BLV01Q02
Feeder

Document: 80019896
Page: 01.005780

582ER54BMC01Q02M01

X2	
02	1
01	2
PE	PE

Dept.
E-Stop

301UP110A03
Distribution

2X2	
9U2	02
9N2	01
9PE2	PE

582ER54BMC01Q02M02

X2	
02	3U1
01	3N1
PE	3PE1

Document: 80019896
Page: 01.000290

LVDB 582ER54BMC01

582ER54BMC01Q02M03

X2	
02	2U1
01	2N1
PE	2PE1

X2	
21L	02
21N	01
21PE	PE

582ER54BMC01Q01
Feeder

Doc: 80019896
Page: 01.005840

582ER54BMC01Q01W01

X1	
02	1U1
03	1V1
04	1W1
01	1N1
PE	1PE1

MCC Position:
Unit Type: B30.2
582ER54BMC01F01 Feeder

Position:
Unit Conn. Type: B30.2

582ER54BMC01Q02
Feeder



582ER54BMC01Q02 Incoming
Feeder

80019896

01.005850

LVDB 582ER54BMC01

582ER54AMC02Q02
Feeder

582ER54BMC01Q02Y01

Document: 80019896
Page: 01.005440

	DP
GN	A1
RD	B1
SH	CL1

583ER54MC01Q02
Feeder

583ER54MC01Q02Y01

Document: 80019896
Page: 01.006060

	DP
GN	A2
RD	B2
SH	CL2

Position:
Unit Conn. Type: B30.2

582ER54BMC01Q02
Feeder



582ER54BMC01Q02 Incoming
Feeder

80019896

01.005860

Tonasa	Q B28 Spare	Q B28 Spare	-	7/20/2010 8:48:16 AM	1/27/2012 10:40:26 AM	Customer	A2
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LVDB 582ER54BMC01

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER54BMC01Q21
 Feeder

	582ER54BMC01Q21 Spare Feeder	80019896	01.005870
--	---------------------------------	----------	-----------

Tonasa	Q B28 Spare	Q B28 Spare	-	7/20/2010 8:49:33 AM	1/27/2012 10:40:28 AM	Customer	A2
--------	-------------	-------------	---	----------------------	-----------------------	----------	----

LVDB 582ER54BMC01

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

582ER54BMC01Q22
 Feeder

	582ER54BMC01Q22 Spare Feeder	80019896	01.005880
--	---------------------------------	----------	-----------

Tonasa	Q B01-PM S	Q B01-ED S	-	7/20/2010 8:36:12 AM	1/27/2012 10:40:30 AM	Customer	A2
--------	------------	------------	---	----------------------	-----------------------	----------	----

LVDB 582ER54BMC01

X2

1
2
3
4
5
6
PE

X2

10
11
PE

X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP4
Node: MCC/MDB 1.078
582ER54BMC01Q51
Motor Starter

	582ER54BMC01Q51 Spare Motor Starter	80019896	01.005890
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Tonasa	Q B01-NO S	Q B01-NO S	-	7/20/2010 8:28:06 AM	1/27/2012 10:40:31 AM	Customer	A2
--------	------------	------------	---	----------------------	-----------------------	----------	----

LVDB 582ER54BMC01

X2

1
2
3
4
5
6
PE

X2

10
11
PE


X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.079
582ER54BMC01Q52
Motor Starter

	582ER54BMC01Q52 Spare Motor Starter	80019896	01.005900
--	--	----------	-----------

Tonasa	Q B29 Dist Traf.	Q B29 Dist Trafo1	-	12/3/2010 11:28:49 AM	1/27/2012 10:40:33 AM	Customer	A2
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Customer

Supply

582ER54BPD01Q01
Feeder

582ER54BPD01Q01W01

Doc: 80019896
Page: 01.005920

No of cables 2

02	U1
03	V1
04	W1
01	N1
PE	PE1

582ER54BPD01A01
Cabinet



582ER54BPD01A01 Distribution Transformer
Cabinet

80019896

01.005910

LVDB 582ER54BLV01

582ER54BMC01Q01
Feeder

582ER54BPD01Q01Y01

Document: 80019896
Page: 01.005840

GN	DP
RD	A1
SH	B1
	CL1

582ER54BLD01Q01
Feeder

582ER54BLD01Q01Y01

Document: 80019896
Page: 01.005750

GN	DP
RD	A2
SH	B2
	CL2

582ER54BPD01A01
Cabinet

582ER54BPD01Q01W01

Doc: 80019896
Page: 01.005910

No of cables 2

	X1
02	U2
03	V2
04	W2
01	N2
PE	PE2

MCC/MDB position
Unit Conn. Type B29

582ER54BPD01Q01
Feeder



582ER54BPD01Q01 Distribution Transformer
Feeder

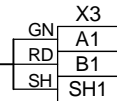
80019896

01.005920

MVDB 582ER54

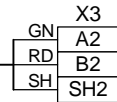
530LG01A01
PLC Cpu-Cabinet ER-54 582ER54Q02Y01

Document: 80019896
Page: 01.001890



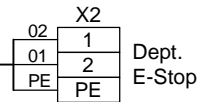
582ER54Q41
Power Feeder 582ER54Q41Y01

Document: 80019896
Page: 01.005950



530LG01A01
PLC Cpu-Cabinet ER-54 582ER54Q02M01

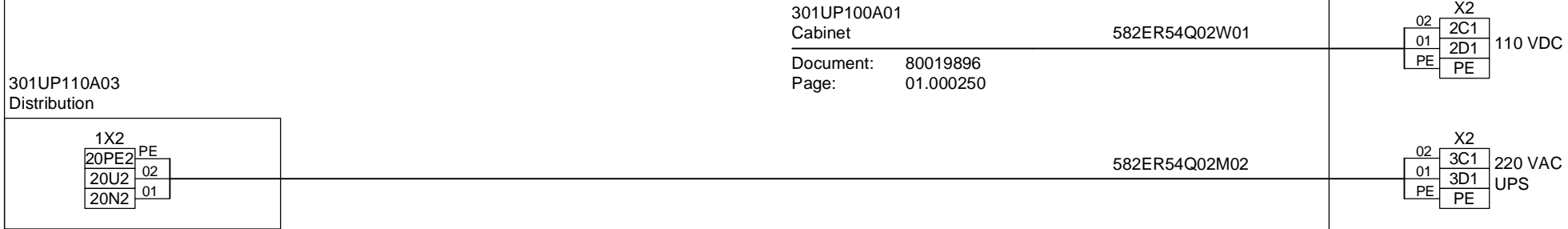
Document: 80019896
Page: 01.001890



MCC Position:
Unit Type: C31 ES
Net: 530LG01:DP3
Node: Field Device.040
582ER54Q02
Power Feeder



MVDB 582ER54



301UP110A03
Distribution

301UP100A01
Cabinet
582ER54Q02W01
Document: 80019896
Page: 01.000250

X2
02 2C1
01 2D1
PE PE
110 VDC

582ER54Q02M02
X2
02 3C1
01 3D1
PE PE
220 VAC
UPS

Document: 80019896
Page: 01.000270

582ER54Q01
Power Feeder
582ER54Q02H01
Document: 80019899
Page: 01.003400
No of cables 1

X1
01 1U1
02 1V1
03 1W1
1PE1

MCC Position:
Unit Type: C31 ES
Net: 530LG01:DP3
Node: Field Device.040
582ER54Q02
Power Feeder



582ER54Q02 Incoming from 581SS51MB01
Power Feeder

80019896 01.005940

Tonasa	Q C01 NO Spare	Q C01 Spare	-	10/22/2010 6:06:12 AM	1/27/2012 10:40:35 AM	Customer	A2
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MVDB 582ER54

X2

1	<input type="checkbox"/>
2	<input type="checkbox"/>
3	<input type="checkbox"/>
4	
5	
6	
PE	

X2

10
11
12
13
14
15
PE

X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: C01 NO
Net: 530LG01:DP3
Node: Field Device.041
582ER54Q41
Power Feeder



582ER54Q41

Spare
Power Feeder

80019896

01.005950

530LG01A05

LVDB 583ER53MC01

	Address	Position:	Term:
220 VAC		X06.05.A	15L
Power Supply OK	583ER53MC01F01E41	DI	15

583ER53MC01F01M01

	X2
02	1
01	2
PE	3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)	583ER53MC01Q02 Incoming	Feeder	80019896	01.005980
F22(16A)

MCC Position
Unit Conn. Type B42

583ER53MC01F01 Feeder



583ER53MC01F01 Control Voltage Feeder

80019896

01.005980

530LG01A05

LVDB 583ER53MC01

	Address	Position:	Term:
220 VAC		X06.05.A	16L ⁰²
Power Supply OK	583ER53MC01F02E41	DI	16 ⁰¹

583ER53MC01F02M01

	X2
⁰²	1
01	2
PE	3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)
F22(16A)

MCC Position
Unit Conn. Type B42

583ER53MC01F02 Feeder



583ER53MC01F02 Control Voltage Feeder

80019896

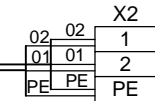
01.005970

LVDB 583ER53MC01

530LG01A01
PLC Cpu-Cabinet ER-54

583ER53MC01Q02M01

Document: 80019896
Page: 01.001890



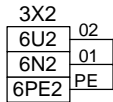
Dept.
E-Stop

583ER54MC01Q02
Feeder

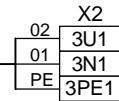
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Document: 80019896
Page: 01.006060

301UP110A03
Distribution



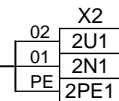
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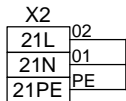
UPS

Document: 80019896
Page: 01.000290

583ER53MC01Q02M03



220 VAC



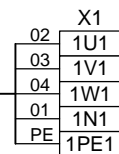
MCC Position
Unit Conn. Type B42
583ER53MC01F01 Feeder

583ER53MC01Q01
Feeder

583ER53MC01Q01W01

Doc: 80019899
Page: 01.004030

No of cables 1



Position:
Unit Conn. Type: B30.2

583ER53MC01Q02
Feeder



583ER53MC01Q02 Incoming Feeder

80019896

01.005980

LVDB 583ER53MC01

582ER53MC01Q02

Feeder

583ER53MC01Q02Y01

Document: 80019896
Page: 01.005140

	DP
GN	A1
RD	B1
SH	CL1

Position:
Unit Conn. Type: B30.2

583ER53MC01Q02
Feeder



583ER53MC01Q02 Incoming Feeder

80019896

01.005990

Tonasa	Q B28 Spare	Q B28 Spare	-	11/30/2010 11:20:55 AM	1/27/2012 10:40:39 AM	Customer	A2
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LVDB 583ER53MC01

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

583ER53MC01Q21
 Feeder

	583ER53MC01Q21 Spare Feeder	80019896	01.006000
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Tonasa	Q B28 Spare	Q B28 Spare	-	11/30/2010 11:21:20 AM	1/27/2012 10:40:40 AM	Customer	A2
--------	-------------	-------------	---	------------------------	-----------------------	----------	----

LVDB 583ER53MC01

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

583ER53MC01Q22
 Feeder

	583ER53MC01Q22 Spare Feeder	80019896	01.006010
--	-----------------------------	----------	-----------

Tonasa	Q B01-PM S	Q B01-ED S	-	11/30/2010 11:18:25 AM	1/27/2012 10:40:41 AM	Customer	A2
--------	------------	------------	---	------------------------	-----------------------	----------	----

LVDB 583ER53MC01

X2

1
2
3
4
5
6
PE

X2

10
11
PE

X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP5
Node: MCC/MDB 2.063
583ER53MC01Q51
Motor Starter

	583ER53MC01Q51 Spare Motor Starter	80019896	01.006020
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Tonasa	Q B01-NO S	Q B01-NO S	-	11/30/2010 11:20:16 AM	1/27/2012 10:40:42 AM	Customer	A2
--------	------------	------------	---	------------------------	-----------------------	----------	----

LVDB 583ER53MC01

X2

1
2
3
4
5
6
PE

X2

10
11
PE

X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP5
Node: MCC/MDB 2.064
583ER53MC01Q52
Motor Starter

	583ER53MC01Q52 Spare Motor Starter	80019896	01.006030
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530LG01A07

LVDB 583ER54MC01

	Address	Position:	Term:
220 VAC		X06.04.A	03L
Power Supply OK	583ER54MC01F01E41	DI	03

583ER54MC01F01M01

	X2
02	1
01	2
PE	3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)	583ER54MC01Q02 Incoming	Feeder	80019896	01.006060
F22(16A)

MCC Position
Unit Conn. Type B42

583ER54MC01F01 Feeder



583ER54MC01F01 Control Voltage Feeder

80019896

01.006040

530LG01A07

LVDB 583ER54MC01

	Address	Position:	Term:
220 VAC		X06.04.A	04L ⁰²
Power Supply OK	583ER54MC01F02E41	DI	04 ⁰¹

583ER54MC01F02M01

	X2
02	1
01	2
PE	3

List of consumers	Description	Purpose	Document	Page
F1 (2A)
F2 (2A)
F3 (2A)
F4 (2A)
F5 (2A)
F6 (2A)
F7 (2A)
F8 (2A)
F9 (2A)
F10 (2A)
F11 (4A)
F12 (4A)
F13 (4A)
F14 (4A)
F15 (4A)
F16 (4A)
F17 (4A)
F18 (4A)
F19 (6A)
F20 (6A)
F21(16A)
F22(16A)

MCC Position
Unit Conn. Type B42

583ER54MC01F02 Feeder



583ER54MC01F02 Control Voltage Feeder

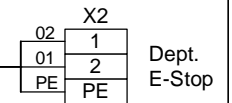
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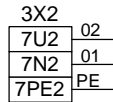
LVDB 583ER54MC01

583ER53MC01Q02
Feeder
Document: 80019896
Page: 01.005980

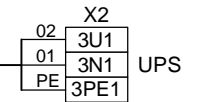
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301UP110A03
Distribution

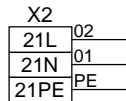
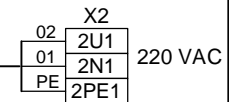


583ER54MC01Q02M02



Document: 80019896
Page: 01.000290

583ER54MC01Q02M03

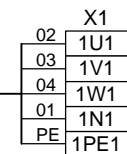


MCC Position
Unit Conn. Type B42
583ER54MC01F01 Feeder

583ER54MC01Q01
Feeder
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583ER54MC01Q01W01

No of cables 1



Position:
Unit Conn. Type: B30.2

583ER54MC01Q02
Feeder



583ER54MC01Q02 Incoming Feeder

80019896

01.006060

LVDB 583ER54MC01

582ER54BMC01Q02
Feeder

583ER54MC01Q02Y01

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	DP
GN	A1
RD	B1
SH	CL1

Position:
Unit Conn. Type: B30.2

583ER54MC01Q02
Feeder



583ER54MC01Q02 Incoming Feeder

80019896

01.006070

Tonasa	Q B28 Spare	Q B28 Spare	-	11/30/2010 11:37:00 AM	1/27/2012 10:40:45 AM	Customer	A2
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LVDB 583ER54MC01

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

583ER54MC01Q21
 Feeder

	583ER54MC01Q21 Spare Feeder	80019896	01.006080
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Tonasa	Q B28 Spare	Q B28 Spare	-	11/30/2010 11:37:01 AM	1/27/2012 10:40:46 AM	Customer	A2
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LVDB 583ER54MC01

X1
 U2
 V2
 W2
 N2
 PE2

MCC/MDB position
 Unit Conn. Type B28

583ER54MC01Q22
 Feeder

	583ER54MC01Q22 Spare Feeder	80019896	01.006090
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Tonasa	Q B01-PM S	Q B01-ED S	-	11/30/2010 11:36:58 AM	1/27/2012 10:40:47 AM	Customer	A2
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LVDB 583ER54MC01

X2
1
2
3
4
5
6
PE

X2
10
11
PE

X4
1
2

X1
U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - PM
Net: 530LG01:DP4
Node: MCC/MDB 1.080
583ER54MC01Q51
Motor Starter

	583ER54MC01Q51 Spare Motor Starter	80019896	01.006100
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Tonasa	Q B01-NO S	Q B01-NO S	-	11/30/2010 11:36:59 AM	1/27/2012 10:40:47 AM	Customer	A2
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LVDB 583ER54MC01

X2

1
2
3
4
5
6
PE

X2

10
11
PE

X4

1
2

X1

U2
V2
W2
PE2

MCC Position:
Unit Type: B01 - NO
Net: 530LG01:DP4
Node: MCC/MDB 1.081
583ER54MC01Q52
Motor Starter

	583ER54MC01Q52 Spare Motor Starter	80019896	01.006110
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