

CATALOG

ReliaGear Motor Control Center

Renewal Parts Bulletin



The ReliaGear motor control center has been designed and manufactured to give long and satisfactory service. This Renewal Parts Bulletin contains items which, through normal use, may require periodic maintenance and replacement. Other items may never need service or replacement during the useful life of the equipment.

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Introduction

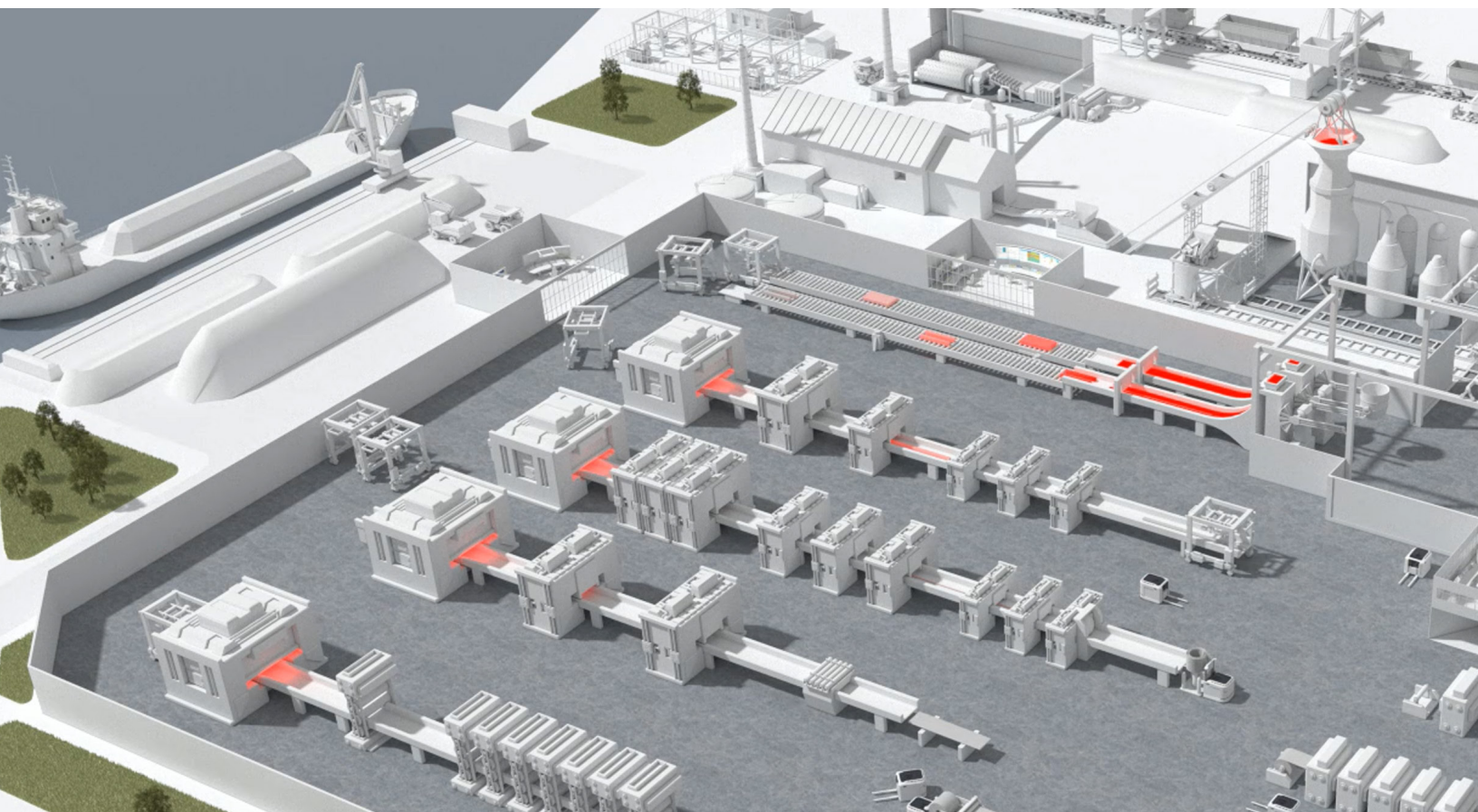
The ReliaGear motor control center has been designed and manufactured to give long and satisfactory service.

This Renewal Parts Bulletin contains items which, through normal use, may require periodic maintenance and replacement. Other items may never need service or replacement during the useful life of the equipment.

We feel that you are in the best position to determine your investment in Renewal Parts, taking into consideration the total amount of ReliaGear motor control centers at your facility, your proximity to ABB distributors, and the importance of minimizing equipment downtime.

For identifying and ordering replacement parts not included in this publication, refer to the “Spares Recommendation” and “Parts List” section of the renewal parts quotation for your motor control center. If this is not available, identify the equipment as follows before contacting your local distributor or ABB sales office:

1. Equipment ABB ReliaGear motor control center.
2. Complete vertical section nameplate information (for structural and bus parts)
3. Complete plug-in unit nameplate information (for individual unit parts)



Ordering Instructions

The ordering of renewal parts will be simplified by referencing the data provided on the ReliaGear motor control center section nameplate and, if required, unit nameplate.

Section Nameplate — (located on the front of each UL listed section, near the upper right-hand corner):

- ***CAT. NO.:** The ABB, Mebane, N.C., factory catalog number
- ***DIAGRAM NO.:** The outline summary sheet (often referred to as “record drawings”) for this section
- **AMPS-SUPPLY:** The main (i.e. horizontal) bus rating
- **AMPS-SECTION:** The vertical bus rating

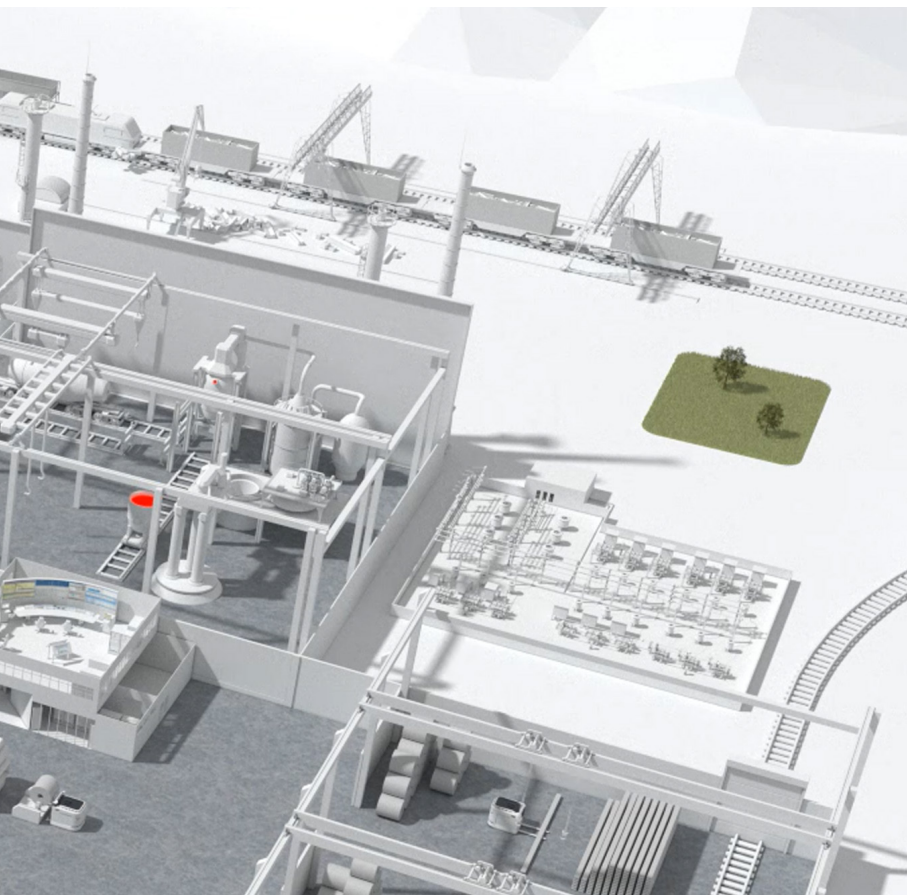
When ordering replacement parts not identified in this bulletin, both the “CAT. NO.” and “DIAGRAM NO.” must be referenced, accompanied by a complete description of the replacement part(s) desired.

Unit Nameplate — plug-in units; located on the right-hand vertical side barrier; bolt-in units; located near the branch circuit overcurrent protective device):

- **MODEL:** Type of motor control center design
- **VOLTS TYPE:** Unit power supply voltage unit function (as listed on outline summary sheet)
- ***CONT. VOLTS:** Unit control voltage.
- **UNIT NO.:** The factory catalog number. This identifies the section and unit location within that section.
- **DIAGRAM:** The outline summary sheet and page number which contains the wiring elementary diagram for this unit.
- **SIZE AMPS/HP:** The NEMA size rating of the starter. The ampere rating of the circuit breaker or fusible switch (for feeder unit), or horsepower rating (for combination starter units).

When ordering a complete replacement unit or replacement parts not identified in this bulletin, the “MODEL”, “UNIT NO.”, and “DIAGRAM” must be referenced, accompanied by a complete description of the replacement part(s) desired.

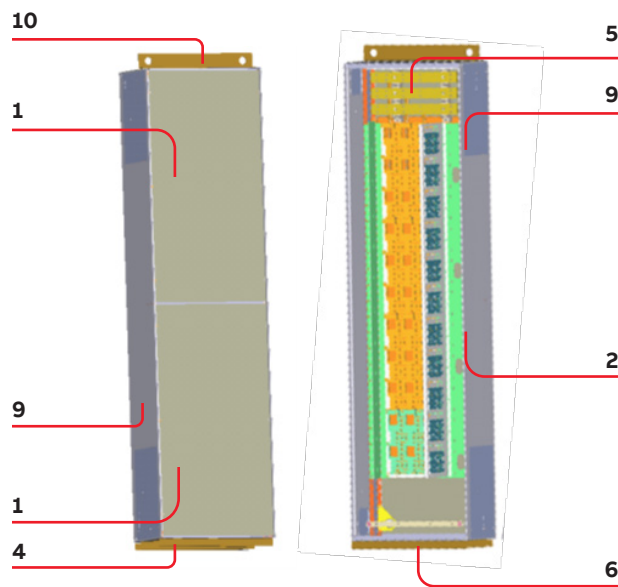
* — This information must be included in the order form.



Item	Description	Page
1	Rear Cover	6
2	Side Case Assembly	6
3	Case Sill (Figure 3)	6
4	Rodent Barrier	6
5	Front Top Cover Plate	7
6	Floor Plate	7
7	Mullions, Wireway (Figure 7)	7
8	Full Width Mullions (Figure 8)	7
9	Side Enclosure Cover	7
10	Lifting Angle	7
11	Floor Sill	7
12	Elevated Rear Roof Cover	7

	Product	Code
	33 x 20	190B1007P1
	33 x 24	190B1007P2
	33 x 30	190B1007P3
	33 x 36	190B1007P4
	39 x 20	190B1007P5
	39 x 24	190B1007P6
	39 x 30	190B1007P7
	39 x 36	190B1007P8
	45 x 20	190B1007P9
	45 x 24	190B1007P10
	45 x 30	190B1007P11
	45 x 36	190B1007P12
	24 x 20	190B1007P13
Screw, Steel T-Roll 10-24 x 3/4 (6)		
	Real hinge door top only	110C1466G9
	Rear hinge door bottom only	110C1466G21
	Rear hinge mounting bracket (2 per section)	110C1464P1

Side case assemblies are not available as spare parts. Since this component supports the main horizontal bus, contact ELDS Service Sales for service or replacement.



	Product	Code
	Case Sill 20 In	190B1009P1
	Case Sill 34 In	190B1009P2
	Case Sill 30 IN	190B1009P3
	Case Sill 36 IN	190B1009P4
	Case Rear Sill 20 IN	190B2752P1
	Case Rear Sill 24 IN	190B2752P2
	Case Rear Sill 30 IN	190B2752P3
	Case Rear Sill 36 IN	190B2752P4



	Product	Code
	Barrier, Rodent 13D 3IN	190B2177G1
	Barrier, Rodent 20D 3IN	190B2177G2
	Barrier, Rodent 22D 5IN	190B2177G3
	Barrier, Rodent 30D 3IN	190B2177G4
	Barrier, Rodent 13D 3IN	190B2177G1
	Screw, Steel T-Roll 1/4-20 X 3/8 (1)	

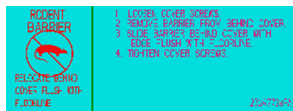
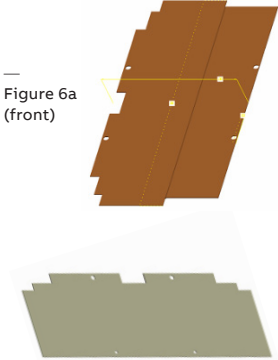


Figure 4

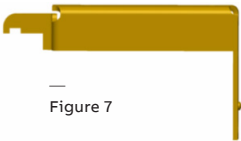
Item 5 – Front Top Cover Plate

		Product	Code
	20 x 8	190B1060P1	
	24 x 8	190B1060P2	
	30 x 8	190B1060P3	
	36 x 8	190B1060P4	
	20 x 18	190B1060P5	
	24 x 18	190B1060P6	
	30 x 18	190B1060P7	
	36 x 18	190B1060P8	
Figure 5	Screw, Steel T-Roll 1/4-20 X 3/8 (8)		

Item 6 – Floor Plate

		Product	Code
	Front 20 x 20/30	110C1030P1	
	Front 20 x 22	110C1030P2	
	Front 24 x 20/30	110C1030P3	
	Front 24 x 22	110C1030P4	
	Front 20 x 25	110C1030P10	
	Front 24 x 25	110C1030P11	
	Rear 20 x 20	110C1060P1	
	Rear 20 x 22	110C1060P2	
	Rear 24 x 20	110C1060P4	
	Rear 24 x 22	110C1060P5	
	Rear 20 x 25	110C1060P1	
	Rear 24 x 25	110C1060P4	
Figure 6a (front) Figure 6b (back)	Screw, Steel T-Roll 1/4 -20 X 5/8 (4)		

Item 7 – Mullions, Wireway

		Product	Code
	4 IN Case Width 20 IN	190B1255P1	
	9 IN Case Width 24 IN	190B1255P2	
	15 IN Case Width 30 IN	190B1255P3	
Figure 7			

Item 8 – Full Width Mullions

		Product	Code
	Top 20W	190B1238P1	
	Top 24W	190B1238P2	
	Top 30W	190B1238P3	
	Top 36W	190B1238P4	
Figure 8			

Item 9 – Side Door Cover

		Product	Code
	Cover, Side Enclosure 20/30 In 3-inch Vertical	110C1029G1	
	Cover, Side Enclosure 22/30 In 5-inch Vertical	110C1029G2	
	Cover, Side Enclosure 13-Inch 3-Inch Vertical	110C1029G3	
	Cover, Side Enclosure 25-Inch BTB	110C1029G11	
	Cover, Side Enclosure 30-Inch Bus Class 1.5 Sheetmetal	270A1988P1	
	Cover, Side Enclosure 30-Inch Bus Class 1.5 Barrier	270A1987P1	
	Screw, Steel T-Roll 1/4-20 X 1/2 (4)		
Figure 9			

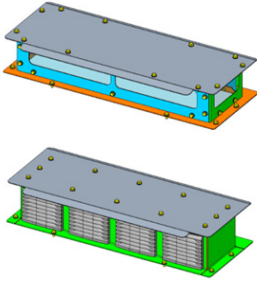
Item 10 – Lifting Angle

		Product	Code
	Angle, Lifting ASM 20	110C1044G1	
	Angle, Lifting ASM 20 x 20	110C1044G2	
	Angle, Lifting ASM 20 x 20 x 20	110C1044G5	
	Includes Bolting Hardware		
Figure 10			

Item 11 – Floor Sill

		Product	Code
	Floor Sill - 20"	110C1043G1	
	Floor Sill - 20" - 20"	110C1043G2	
	Floor Sill - 20" - 20" - 20"	110C1043G6	
Figure 11			

Item 12 – Elevated Rear Roof Cover

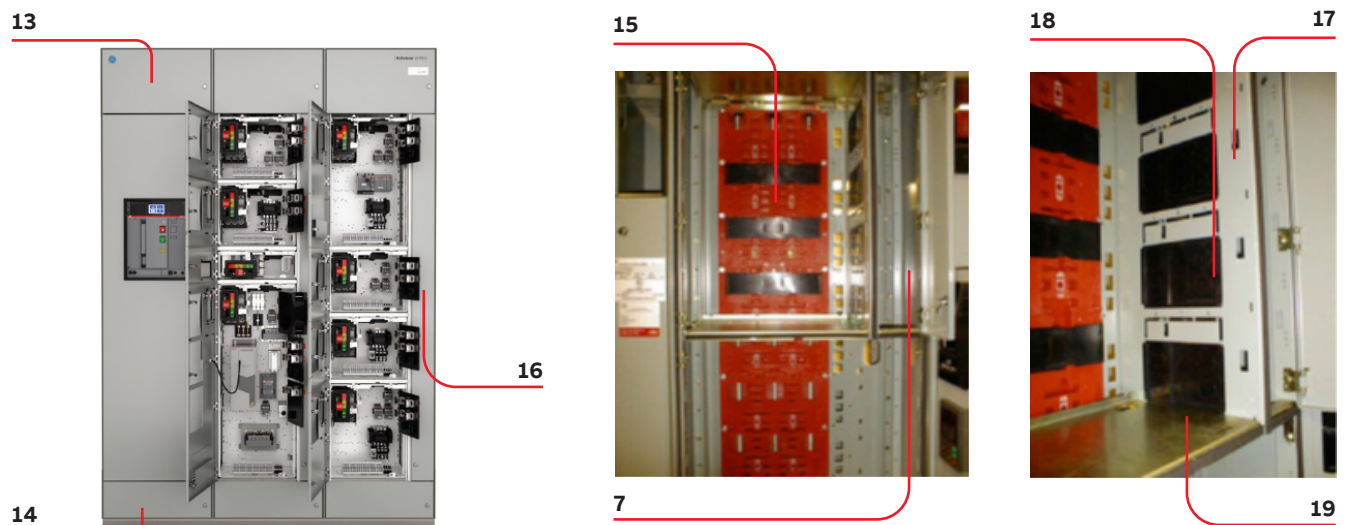
		Product	Code
	Elevated rear roof cover 20 IN	270A2108G1	
	Elevated rear roof cover 24 IN	270A2108G2	
	Elevated rear roof cover 30 IN	270A2108G3	
	Elevated rear roof cover 36 IN	270A2108G4	
	Elevated rear roof cover 20 IN T12	270A2259G1	
	Elevated rear roof cover 24 IN T12	270A2259G2	
	Elevated rear roof cover 30 IN T12	270A2259G3	
	Elevated rear roof cover 36 IN T12	270A2259G4	
Figure 12			

Vertical and Main Bus Parts

Item	Description	Page
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14	Bottom Wireway Door	9
15	Vertical Bus Accessories	9
16	Vertical Wireway Door Assembly	9

Item	Description	Page
17	Ladder Assembly	10
18	Ladder Assembly Cut Out	10
19	Shelf Assembly	10
20	Blank Unit Door Assembly (Figure 18)	10
21	Filler Kits (Not Shown)	11

Note regarding main horizontal bus: Main bus components are not available directly as spare parts. For main bus repair, please contact ELDS Service Sales.



Item 13 – Top Wireway Door



Figure 13

Standard Top Wireway Door

Product	Code
DOOR, ASSEMBLY, TOP WIRE WAY, 20 X 12	110C1440G1
DOOR, ASSEMBLY, TOP WIRE WAY, 20 X 18	110C1440G2
DOOR, ASSEMBLY, TOP WIRE WAY, 24 X 12	110C1440G6
DOOR, ASSEMBLY, TOP WIRE WAY, 24 X 18	110C1440G7
DOOR, ASSEMBLY, TOP WIRE WAY, 30 X 12	110C1440G14
DOOR, ASSEMBLY, TOP WIRE WAY, 30 X 18	110C1440G15
Elevated rear roof cover 30 IN T12	270A2259G3
Elevated rear roof cover 36 IN T12	270A2259G4

Type 12 Vented Wireway Doors

DOOR, TOP WW, 20X12, T12, RITTAL FILTERS	270A2180G1WC
DOOR, TOP WW, 24X12, T12, RITTAL FILTERS	270A2180G2WC
DOOR, TOP WW, 30X12, T12, RITTAL FILTERS	270A2180G3WC
DOOR, TOP WW, 36X12, T12, RITTAL FILTERS	270A2180G4WC
DOOR, TOP WW, 20X12, Ventilated	270A2178G1
DOOR, TOP WW, 24X12, Ventilated	270A2178G2
DOOR, TOP WW, 30X12, Ventilated	270A2178G3
DOOR, TOP WW, 36X12, Ventilated	270A2178G4

Includes Door Hinges, Latch Assembly, Case Side Hinges, Door Pin, and Split Pin

Item 14 – Bottom Wireway Door

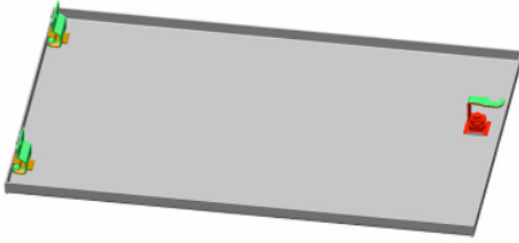


Figure 14a - Door



Figure 14b - Vents

	Product	Code
DOOR, ASSEMBLY, BOTTOM WIREWAY, 20 X 12	110C1450G1	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 20 X 18	110C1450G2	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 24 X 12	110C1450G6	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 24 X 18	110C1450G7	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 20 X 6	110C1450G11	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 24 X 6	110C1450G12	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 30 X 12	110C1450G16	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 30 X 6	110C1450G54	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 30 X 18	110C1450G59	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 20 X 12, VENT	110C1450G97	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 24 X 12 VENT	110C1450G98	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 30 X 12 VENT	110C1450G99	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 36 X 12 VENT	110C1450G100	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 20 X 6 VENT	110C1450G140	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 24 X 6 VENT	110C1450G141	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 30 X 6 VENT	110C1450G142	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 20 X 12, T12 RITTAL FILTERS	270A2186G1	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 24 X 12 T12 RITTAL FILTERS	270A2186G2	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 30 X 12 T12 RITTAL FILTERS	270A2186G3	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 36 X 12 T12 RITTAL FILTERS	270A2186G4	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 20 X 6 T12 RITTAL FILTERS	270A2186G5	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 24 X 6 T12 RITTAL FILTERS	270A2186G6	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 30 X 6 T12 RITTAL FILTERS	270A2186G7	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 20 X 12	110C1450G1	
DOOR, ASSEMBLY, BOTTOM WIREWAY, 20 X 18	110C1450G2	

Includes Door Hinges, Latch Assembly, Case Side Hinges, Door Pin, and Split Pin

Item 15 – Vertical Bus Accessories



Figure 15a - Stab Opening Cover



Figure 15b - Bottom Vertical Bus Barrier



Figure 15c - Vertical Bus Shutter

	Product	Code
Stab Opening Cover	190B1215P1	
Bottom Vertical Bus Barrier	190B1549G1	
Vertical Bus Shutter ASM At Top	110C1783G1	
Vertical Bus Shutter ASM At Middle	110C1783G2	
Vertical Bus Shutter ASM At Bottom	110C1783G3	
Standard shelf	110C1059P1	
Shelf grounding bracket	270A1343G1	
Shelf support – 72" high	110C1010G11	
Gasket, UL 50E, 0.19T X 0.50W, 50 Foot Roll	270A2626P2	

Item 16 – Vertical Wireway Door Assembly

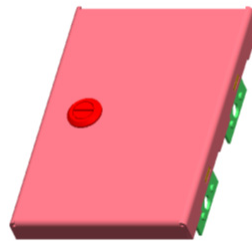


Figure 16

	Product	Code
20" Wide Section		
5W 6H	110C1163G1	
5W 12H	110C1163G2	
5W 18H	110C1163G3	
5W 24H	110C1163G4	
5W 30H	110C1163G5	
5W 36H	110C1163G6	
5W 42H	110C1163G7	
5W 48H	110C1163G8	
5W 54H	110C1163G9	
5W 60H	110C1163G10	
5W 66H	110C1163G11	
5W 72H	110C1163G12	
24" Wide Section		
9W 6H	110C1163G13	
9W 12H	110C1163G14	
9W 18H	110C1163G15	
9W 24H	110C1163G16	
9W 30H	110C1163G17	
9W 36H	110C1163G18	
9W 42H	110C1163G19	
9W 48H	110C1163G20	
9W 54H	110C1163G21	
9W 60H	110C1163G22	
9W 66H	110C1163G23	
9W 72H	110C1163G24	

Item 17 – Ladder Assembly

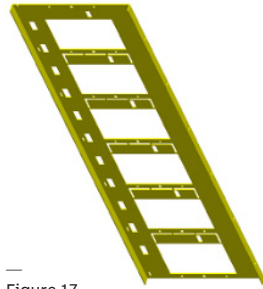


Figure 17

	Product	Code
36 IN	110C1010P1	
30 IN	110C1010P2	
24 IN	110C1010P3	
18 IN	110C1010P4	
12 IN	110C1010P5	
42 IN	110C1010P6	
48 IN	110C1010P7	
54 IN	110C1010P8	
60 IN	110C1010P9	
66 IN	110C1010P10	
72 IN	110C1010P11	
6 IN	110C1010P12	

Item 18 – Wireway Knockout Plate

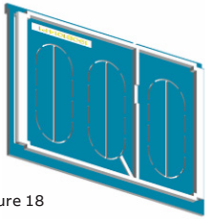


Figure 18

	Product	Code
Wireway knockout plate 1 used every 6"	190B1014P1	

Item 19 – Shelf Assembly



Figure 19

	Product	Code
Shelf and Bracket Assembly	110C1850P1	

Item 20 – Blank Unit Door Assembly



Figure 20

	Product	Code
15 x 6	110C1240KKG1	
15 x 12	110C1240KKG2	
15 x 18	110C1240KKG3	
15 x 24	110C1240KKG4	
15 x 30	110C1240KKG5	
15 x 36	110C1240KKG6	
15 x 42	110C1240KKG7	
15 x 48	110C1240KKG8	
20 x 6	110C1240KKG9	
20 x 12	110C1240KKG10	
20 x 18	110C1240KKG11	
20 x 24	110C1240KKG12	
20 x 30	110C1240KKG13	
20 x 36	110C1240KKG14	
20 x 42	110C1240KKG15	
20 x 48	110C1240KKG16	
20 x 54	110C1240KKG17	
20 x 60	110C1240KKG18	
20 x 66 FOR 90 CASE HEIGHT	110C1240KKG19	
20 x 72	110C1240KKG20	
24 x 6	110C1240KKG21	
24 x 12	110C1240KKG22	
24 x 18	110C1240KKG23	
24 x 24	110C1240KKG24	
24 x 30	110C1240KKG25	
24 x 36	110C1240KKG26	
24 x 42	110C1240KKG27	
24 x 48	110C1240KKG28	
24 x 54	110C1240KKG29	
24 x 60	110C1240KKG30	
24 x 66 FOR 90 CASE HEIGHT	110C1240KKG31	
24 x 72	110C1240KKG32	
30 x 6	110C1240KKG33	
30 x 12	110C1240KKG34	
30 x 18	110C1240KKG35	
30 x 24	110C1240KKG36	
30 x 30	110C1240KKG37	
30 x 36	110C1240KKG38	
30 x 42	110C1240KKG39	
30 x 48	110C1240KKG40	
30 x 54	110C1240KKG41	
30 x 60	110C1240KKG42	
30 x 66 FOR 90 CASE HEIGHT	110C1240KKG43	
30 x 72	110C1240KKG44	
36 x 60	110C1240KKG45	
36 x 66 FOR 90 CASE HEIGHT	110C1240KKG46	
20 x 90	110C1240KKG47	
24 x 90	110C1240KKG48	
20 x 24 (PULL BOX)	110C1240KKG49	
20 x 30 (PULL BOX)	110C1240KKG50	
24 x 24 (PULL BOX)	110C1240KKG51	
24 x 30 (PULL BOX)	110C1240KKG52	
15 x 54	110C1240KKG53	
15 x 60	110C1240KKG54	
15 x 66	110C1240KKG55	
15 x 72	110C1240KKG56	

Includes Door Hinges, Latch Assembly, Case Side Hinges, Door Pins, Nameplate, and Canoe Clips

Item 21 – Filler Kits and Doors

	Product	Code
	6" Filler kit	EK06
	12" Filler kit	EK12
	18" Filler kit	EK18
	24" Filler kit	EK24
	30" Filler kit	EK30
	36" Filler kit	EK36
	42" Filler kit	EK42
	48" Filler kit	EK48
	Door - Size 1 - 6"	110C1540BAG1
	Door - Size 1 & 2 w/ P/B cutout - 12"	110C1540AAG11
	Door - Size 3 w/ P/B cutout - 18"	110C1540AAG12
	Door - Size 4 w/ P/B cutout - 24"	110C1540AZG13
	Door - Size 4 w/ P/B cutout - 30"	110C1540AZG14
	Door - Size 4 w/ P/B cutout - 36"	110C1540AZG15
	Door - Sz 1 & 2 w/o P/B cutout - 12"	110C1540AAG1
	Door - Size 3 w/o P/B cutout - 18"	110C1540ABG2
	Door - Size 4 w/o P/B cutout - 24"	110C1540AZG3
	Door - Size 4 w/o P/B cutout - 30"	110C1540AZG4
	Door - Size 4 w/o P/B cutout - 36"	110C1540AZG5
	6" Feeder Door	110C1540DAG2
	12" Feeder Door	110C1540AAG41
	Door Hinge	
	Cabinet Side Hinge	190B1013P1
	Hinge Pin	190B1080P1

Figure 21

22



Figure 22



Figure 22d - Cable Support

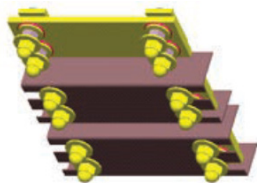


Figure 22e - Main Bus Splice Kit

Item 22 – Main Bus Structural Parts

Note regarding main horizontal bus: Main bus components are not available directly as spare parts. For main bus repair, please contact ELDS Service Sales.

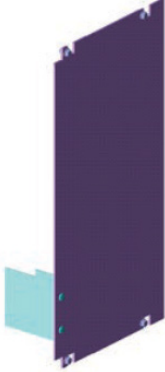
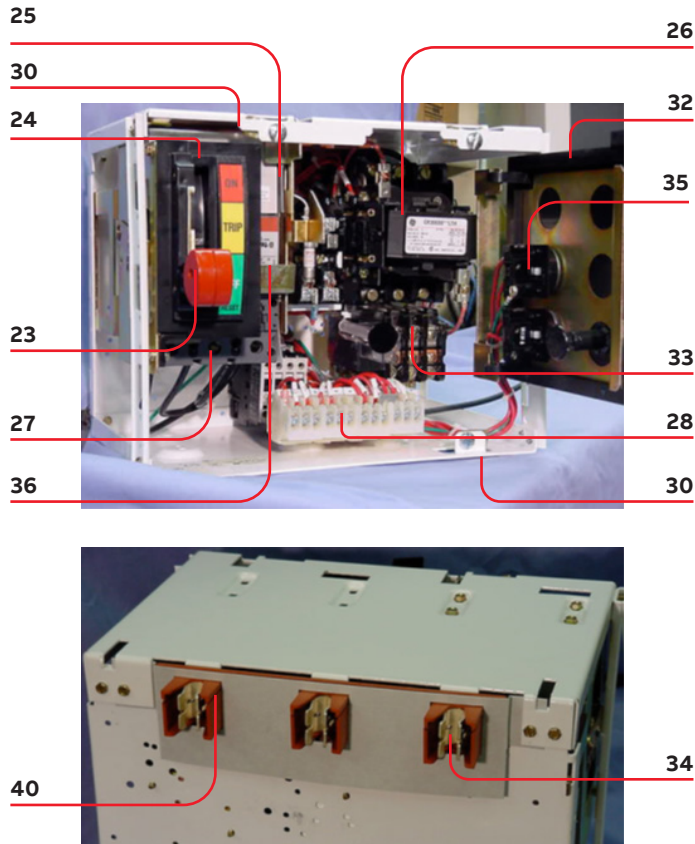
	Product	Code
	Clear Horizontal Bus Barriers	
	2" HORZ MAIN BUS BARRIER ASM, 20	110C1147G1
	2" HORZ MAIN BUS BARRIER ASM, 24	110C1147G2
	2" HORZ MAIN BUS BARRIER ASM, 30	110C1147G3
	2" HORZ MAIN BUS BARRIER ASM, 36	110C1147G4
	Bus barrier upper 20W 2500A/3200A	270A1971P4
	Bus barrier upper 24W 2500A/3200A	270A1971P3
	Bus barrier upper 30W 2500A/3200A	270A1971P2
	Bus barrier upper 36W 2500A/3200A	270A1971P1
	Space Header Assembly	
	Space Htr Asm - 12" Bottom - 20"	190B2643G1
	Space Htr Asm - 12" Bottom - 24"	190B2643G2
	Space Htr Asm - 12" Bottom - 30"	190B2643G3
	Space Htr Asm - 6" Bottom - 20"	190B2643G9
	Space Htr Asm - 6" Bottom - 24"	190B2643G10
	Space Htr Asm - 6" Bottom - 30"	190B2643G11
	Thermostat Assembly	
	Thermostat Assembly	190B2375G1
	Cable Support	
	Cable Support	204B4135P1
	Main Bus Splice Kit	
	600A - 2" - Tin plated	110C1735G1SM
	600A - 2" - Silver plated	110C1735G1KT
	800A - 2" - Tin plated	110C1735G4SM
	800A - 2" - Silver plated	110C1735G4KT
	1000/1200A - 2" - Tin plated	110C1735G7SM
	1000/1200A - 2" - Silver plated	110C1735G7KT
	1600A - 4" - Tin plated	110C1735G10SM
	1600A - 4" - Silver plated	110C1735G10KT
	2000A - 2" - Tin plated	110C1735G12SM
	2000A - 2" - Silver plated	110C1735G12KT
	2500A - 2" - Tin Plated	110C1735G13SM
	2500A - 2" - Silver Plated	110C1735G13KT
	600A - 2" - Tin plated - for NEMA 3	110C1735G14SM
	600A - 2" - Silver plated - for NEMA 3	110C1735G14KT
	800A - 2" - Tin plated - for NEMA 3	110C1735G15SM
	800A - 2" - Silver plated - for NEMA 3	110C1735G15KT
	1000/1200A - 2" - Tin plated - for NEMA 3	110C1735G16SM
	1000/1200A - 2" - Silver plated - for NEMA 3	110C1735G16KT
	2500/3200A 4" SPLICE TO LEFT / RIGHT - Tin plated	110C1735G38SM
	2500/3200A 4" SPLICE TO LEFT / RIGHT - Silver plated	110C1735G38KT
	2500/3200A 4" SPLICE TO LEFT / RIGHT FOR NEMA 3 - Tin plated	110C1735G39SM
	2500/3200A 4" SPLICE TO LEFT / RIGHT FOR NEMA 3 - Silver plated	110C1735G39KT

Figure 22a - Clear Horizontal Bus Barrier

Figure 22b - Space Heater Assembly

Figure 22c - Thermostat Assembly

Unit Parts



Item 23 – Combination Starter Handles

Handle (Only)" includes plastic handle with egg shaped knob; "Handle assembly" includes handle, egg shaped knob, escutcheon, and steel linkage to mount on unit.

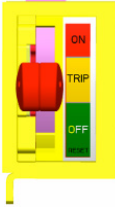
	Product	Code
Handle Assemblies		
	Handle Escutcheon ASM, SZ1-4, XT2, XT4	190B3989G1
	Handle Escutcheon ASM, SZ1-4, 1/2X XT2 XT4	190B3989G2
	Handle Escutcheon ASM, SZ1-4, XT2, XT4, TYPE 12	190B3989G3
	Handle Escutcheon ASM, SZ1-4, 1/2X XT2, XT4 TYPE 12	190B3989G4
	Handle Escutcheon ASM, SZ1-4, XT2, XT4 No Label	190B3989G5
	Handle Escutcheon ASM, SZ1-4, XT2, XT4 TYPE 12 No Label	190B3989G6
	Handle Escutcheon ASM, XT4 Vertical	190B3989G7
	Handle Escutcheon ASM, XT4 Horizontal	190B3989G8
	Handle Escutcheon ASM, XT4 Vertical T12	190B3989G9
	Handle Escutcheon ASM, XT4 Horizontal T12	190B3989G10
	HANDLE ASSEMBLY, XT5, TYPE 1	110C2462G2
	HANDLE ASSEMBLY, XT7, TYPE 1	110C2462G1

Figure 23a - Vertical

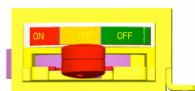


Figure 23b - Horizontal

Item 24 – Handle Actuator Assembly

Includes metal actuator, top hat, and door defeater as shown below.

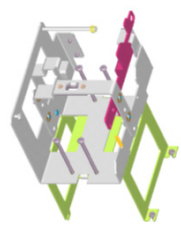
	Product	Code
	TMAX XT4-BREAKER OPERATOR SUB-ASM	110C2400G1
	1/2X TMAX XT4-BREAKER STARTER/FEEDER SUB-ASM	110C2400G2
	TMAX XT4-DUAL FEEDER BREAKER OPERATOR SUB-ASM	110C2400G3
	TMAX XT4-BREAKER OPERATOR SUB-ASM T12	110C2400G4
	1/2X TMAX XT4-BREAKER STARTER/FEEDER SUB-ASM T12	110C2400G5
	TMAX XT4-DUAL FEEDER BREAKER OPERATOR SUB-ASM T12	110C2400G6
	TMAX XT4-BREAKER OPERATOR SUB-ASM AFM	110C2400G7
	TMAX XT4-BREAKER OPERATOR SUB-ASM AFM T12	110C2400G8
	1/2X TMAX XT4-12" BREAKER STARTER/FEEDER SUB-ASM	110C2400G9
	XT4-BREAKER FEEDER AFM	110C2400G10
	1/2X TMAX XT4-12" BREAKER STARTER/FEEDER SUB-ASM T12	110C2400G11
	XT4-BREAKER FEEDER AFM T12	110C2400G12
	TMAX XT2-BREAKER OPERATOR SUB-ASM	110C2401G1
	1/2X TMAX XT2-BREAKER STARTER/FEEDER SUB-ASM	110C2401G2
	TMAX XT2-DUAL FEEDER BREAKER OPERATOR SUB-ASM	110C2401G3
	TMAX XT2-BREAKER OPERATOR SUB-ASM-T12	110C2401G4
	1/2X TMAX XT2-BRKER STRTR/FDR SUB-ASM-T12	110C2401G5
	TMAX XT2-DUAL FEEDER BREAKER OPERATOR SUB-ASM-T12	110C2401G6
	TMAX XT2-BREAKER OPERATOR SUB-ASM-AFM	110C2401G7
	TMAX XT2-BREAKER OPER SUB-ASM-AFM-T12	110C2401G8

Figure 24

Item 26 – Starter / Contactor

Refer to Spare Recommendations and Parts List for your motor control center. If none is available, refer to catalog number as it appears on the device itself before ordering replacement parts.

Item 27 – Control Power Transformer (120 Volt Secondary 60 Hz)

CPT	480V Primary	600V Primary
Size 1 60VA	30213600YDP1	30213600YDP25
Size 1 / 2 150VA	30213600YDP300	30213600YDP301
Size 3	30213600YDP7	30213600YDP30
Size 4	30213600YDP7	30213600YDP30
1/2X Size 1 Micron Transformer	MIC#B100-2989-5	-

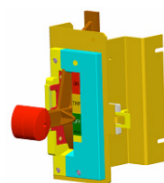


Figure 23C – Spectra G or Tmax XT5

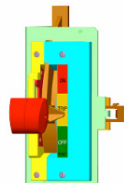


Figure 23D – Spectra K or Tmax XT7

Item 28 – Terminal Boards

	Type	Description	Part
	Control Terminal Blocks		
	Pull Apart	HD 3PT	190B1692G1
	Stationary	Single 3-point T/B	190B1627P1
	Stationary	Stationary HD 6PT	190B1631G1
	Stationary	HD 12PT	190B1631G2
	Stationary	HD 18PT	190B1631G3

Figure 28a - 190B1692G1

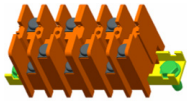


Figure 28b - 190B1631G1

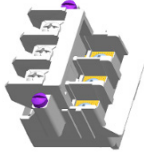
	Type	Description	Part
	Power Terminal Blocks		
	Power terminal Block		190B1691G1
	Terminal block Din rail assembly 18 points max		190B2070G6
	Terminal block Din rail assembly 18 points max w/ TB		190B0270G12

Figure 28C

Item 29 – Door Latch (1/4 Turn)

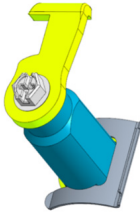
	Type	Description
	LATCH, PR RLVG, RH, STD DR	270A2452G1
	LATCH, PR RLVG, RH, HEX DR	270A2452G2
	LATCH, PR RLVG, RH, TRI DR	270A2452G3
	LATCH, PR RLVG, LH, STD DR	270A2452G4
	LATCH, PR RLVG, LH, HEX DR	270A2452G5
	LATCH, PR RLVG, LH, TRI DR	270A2452G6
	LATCH, PR RLVG, RH, STD DR, NN	270A2452G7
	LATCH, PR RLVG, RH, HEX DR, NN	270A2452G8
	LATCH, PR RLVG, RH, TRI DR, NN	270A2452G9
	LATCH, PR RLVG, LH, STD DR, NN	270A2452G10
	LATCH, PR RLVG, LH, HEX DR, NN	270A2452G11
	LATCH, PR RLVG, LH, TRI DR, NN	270A2452G12

Figure 29

Item 30 – Unit Frame Latch Assembly (1/4 Turn)

	Type	Description
	Unit Frame Latch Assembly (1/4 turn)	110C1572G1

Figure 30

Item 31 – Wire Trough Door Latch Assembly (1/4 Turn)

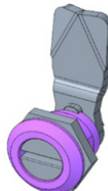
	Type	Description
	Wire Trough Door Latch Assembly (1/4-turn)	110C2976G1

Figure 31

Item 32 – Pilot Device Bracket Escutcheon

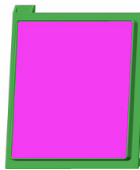
	Type	Description
	6-unit device plate, blank (No Holes)	110C1039P100
	3-unit device plate, blank (No Holes)	110C1089P100
	6-unit device plate, 6 hole	110C1039P1
	Plug Button Assembly (Black)	272A5650UWG2
	Plug Button Assembly (Gray)	272A5650UWG4
	Mounting Bracket	190B1512P1

Figure 32a - Blank

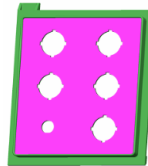


Figure 32b - 6 hole

Item 33 – Overload Relay Reset Assembly

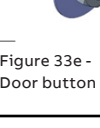
	Product	Code
	Door Mounted Reset	
	Reset Button Assembly Bimetal Size 1, 3, & 4	190B1048G1
	Reset Button Assembly Bimetal Size 2 & 5	190B1048G2
	Reset Button Assembly Electronic Size 1	190B1048G1
	Reset Button Assembly Electronic Size 2, 3, 4, & 5	190B1048G2
	DOOR BUTTON FOR OL RESET (Need P/N!)	270A2380P1
	RUBBER PLUG FOR OL RESET HOLE	270A2386P1
	Clear Plastic OL Adapter	
	OLR Reset Button Adapter Bimetal Size 1, 2, & 5	190B1421G1
	OLR Reset Button Adapter Bimetal Size 3 & 4	190B1421G2
	OLR Reset Button Adapter Electronic Size 1 thru 5	190B1418G1
	O/L Reset Assembly	
	Size 1 standard O/L	9000RSG1
	Size 1 electronic O/L	9000RSG2
	Size 2,5 standard O/L	9000RSG3
	Size 2,5 electronic O/L	9000RSG4
	Size 3,4 standard O/L	9000RSG5
	Size 3,4 electronic O/O	9000RSG6

Figure 33a - 190B1048G1

Figure 33b - 190B1048G2

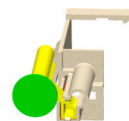


Figure 33c - 190B1421G1

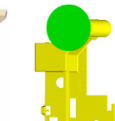


Figure 33d - 190B1418G1



Figure 33e - Door button



Figure 33f - Rubber plug

Item 34 – Vertical Ground Bus Stab Finger

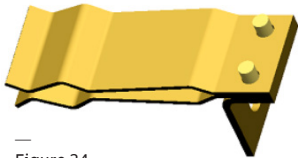
	Type	Description
	Part Number	270A1032G1

Figure 34

Item 35 – Pilot Devices (Type CR104P)

Refer to Spare Recommendations furnished with your motor control center.

- Type CR104P Standard

Item 36 – Fuse Block

	Type	Description
1-Pole In Line	CSC#FEC-11-11	
1-Pole Midget	CSC#30311	
1-Pole CC	CSC#30311R	
2-Pole Class CC	CSC#30312R	
3-Pole Class CC	CSC#30313R	
1-Pole CC Pull Out Din Rail Mtg	CSC#23302-G	
2-Pole CC Pull Out Din Rail Mtg	CSC#23312-G	
3-Pole CC Pull Out Din Rail Mtg	CSC#23314-G	
Fast Acting Fuse, Class T, 600Vac, 15 A	4600286393P	
Fast Acting Fuse, Class T, 600Vac, 30 A	4600286394P	
Fast Acting Fuse, Class T, 600Vac, 40 A	4600286395P	
Fast Acting Fuse, Class T, 600Vac, 60 A	4600286397P	
Fast Acting Fuse, Class T, 600Vac, 80 A	4600286398P	
Fast Acting Fuse, Class T, 600Vac, 100 A	4600286402P	
Fast Acting Fuse, Class T, 600Vac, 110 A	4600286403P	
Fast Acting Fuse, Class T, 600Vac, 150 A	4600286404P	
Fast Acting Fuse, Class T, 600Vac, 200 A	4600286405P	
Fast Acting Fuse, Class T, 600Vac, 225 A	4600286475P	
Fast Acting Fuse, Class T, 600Vac, 250 A	4600286406P	
Fast Acting Fuse, Class T, 600Vac, 300 A	4600286407P	
Fast Acting Fuse, Class T, 600Vac, 350 A	4600286476P	
Fast Acting Fuse, Class T, 600Vac, 400 A	4600286477P	
Fast Acting Fuse, Class T, 600Vac, 500 A	4600286478P	
Fast Acting Fuse, Class T, 600Vac, 600 A	4600286479P	
Fast Acting Fuse, Class L, 600Vac, 800 A	4600286494P	
Fast Acting Fuse, Class L, 600Vac, 900 A	4600286495P	

Item 37 – Cable Clamps

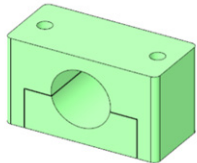
	Type	Description
	STANDARD CLEAT, 50 INCH DIA – KOZ 50-75	190B2199P4

Figure 37

Item 40 – Stab Power Harness

Includes harness and stab fingers.
Combination Starter Units:

Function	NEMA Size	Breaker Part Number	
		Tin	Silver
FVNR, FVR and 1 2S1W or 2S2W	1	E9000L8G2	E9000L8G4
	2	E9000L8G2	E9000L8G4
	3	E9000L4G2	E9000L4G8
	4	E9000L4G15	E9000L4G16
	4 (F-Frame)	E9000L4G10	E9000L4G4

Function	NEMA Size	Breaker Part Number	
		Tin	Silver
FVNR, FVR and 1 2S1W or 2S2W	1	E9000L8G7	E9000L8G8
	2	E9000L8G7	E9000L8G8
	3	E9000L4G17	E9000L4G18
	4	E9000L4G10	E9000L4G4

NOTE: Above harnesses utilize standard ABB type THW (flamenol) wire/cable. Do not order above catalog numbers if your motor control center was ordered with special type power wire/cable.

	Product	Code
Common Screws		
¼ - 20 Thread Rolling screws – pack of 5	204B4139AAG11	E9000 & RG
10-32 Thread Rolling screws – pack of 5	204B4139AAG15	E9000 & RG
Rivets		
Plastic Nameplate rivets – pack of 6	204B4139AAG5	E9000 & RG
Blank Nameplate – Small – 6” Bucket 1” x 3”		
Black face	273A7916P3FC	
White Face	273A7916P3EC	
Blank Nameplate – Large – 12” Bucket & Larger .5” x 2.3”		
Black face	273A7916P3F3.5/2.3	
White Face	273A7916P3E3.5/2.3	
Labels – Danger Labels		
DANGER LABEL (3.74IN W x 6.4IN H)	252B3431P5	
DANGER LABEL (4IN W x 3.45IN H)	252B3431P11	
Joint Compound		
4oz. Tube	302A3747P3	
Bucket Removal Tool		
Bucket Removal Tool	270A1581G1	



Figure 40a - Bucket removal tool

Item 41 – Fans and Filters



Figure 39

	Type	Description
	AC Fan, 115Vac, 230 CFM, Type 1	273A7844CWP7
	AC Fan, 115Vac, 330 CFM, Type 1	AK1781HB-AW
	AC Fan, 115Vac, 71 CFM, Type 12	4600292137P
	AC Fan, 115Vac, 147 CFM, Type 12	4600292140P
	AC Fan, 115Vac, 453 CFM, Type 12	4600292141P
	Muffin fan 120V only	MUFFINFANG1
	Tarzan fan only	RMC#020169
	Case fan assembly	110C1556G1
	N3R fan assemblies	Refer to Factory
	Spare filter mat for SK 3239.200 Rittal filter	3239066
	Spare filter mat for SK 3237.200 Rittal filter	3237066
	N3R Door Filter	75C143964P102

Torque Table Values

Bolt Size	Copper Joint		Aluminum Joint	
	Ft-lb	N-m	Ft-lb	N-m
5/16 – 18	5 – 9	7 – 12	6.5 – 9	9 – 12
3/8 – 16	12 – 16	16 – 22	10 – 15	14 – 20
½ - 13	30 – 39	41 – 53	25 – 35	34 – 47
5/8 – 11	65 – 80	88 – 108	35 – 45	47 – 61
¾ - 10	125 - 150	169 - 203	50 - 75	68 - 102

Item 42 – Barriers

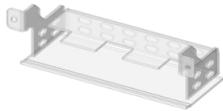


Figure 42 - Barrier

	Type	Description
	BARRIER, XT5 24IN, INCOMING LINE SIDE	110C2971P1
	BARRIER, XT5 30IN AND UP, INCOMING LINE SIDE	110C2784P2

Item 43 –Custom Breaker Accessories

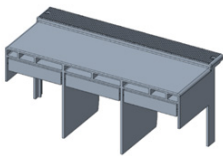


Figure 38C – 110C2960P1

	Type	Description
	MODIFIED HTC, XT7, SIDE CUT OUTS	110C2960P1 RG
	MODIFIED CB TERMINAL, REAR COVER, XT5	110C2970P1 RG
	MODIFIED HTC, XT5	110C2923P1 RG

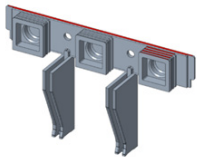


Figure 38D – 110C2970P1

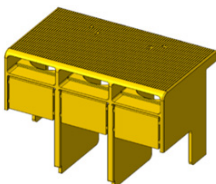


Figure 38D – 110C2923P1



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