

Citation

Replacement Capabilities

Table 13-1. Replacement Capabilities — Contacts and Coils

Description	Style and Part Numbers										
	Size 00				Size 0	Size 1	Size 2		Size 3		
	Series A1 ①	Series B1	Series C1	Series D1			Series A1	Series B1	Series A1	Series B1	
Contact Kits Part Number on Contactor or Starter Name Plate											
2-Pole without Interlock	6-21	②	②	②	6-22	6-23	6-24	6-34	6-25	6-35	
3-Pole without Interlock	6-21-2	②	②	②	6-22-2	6-23-2	6-24-2	6-34-2	6-25-2	6-35-2	
3-Pole with Interlock	6-21-3	②	②	—	—	—	—	—	—	—	
4-Pole without Interlock	—	—	—	—	6-22-3	6-23-3	—	6-34-3	—	—	
5-Pole without Interlock	—	—	—	—	6-22-4	6-23-4	—	6-34-4	—	—	
Magnet Coils	Coil Suffix										
120 V 60 Hz or 110 V 50 Hz	A	9-1945-1	9-2183-1	9-2650-1	9-2823-1	9-1887-1	9-1887-1	9-1889-1	9-2526-1	9-1891-1	9-1889-1
240 V 60 Hz or 220 V 50 Hz	B	9-1945-2	9-2183-2	9-2650-2	9-2823-2	9-1887-2	9-1887-2	9-1889-2	9-2526-2	9-1891-2	9-1889-2
480 V 60 Hz or 440 V 50 Hz	C	9-1945-3	9-2183-5	9-2650-3	9-2823-3	9-1887-3	9-1887-3	9-1889-3	9-2526-3	9-1891-3	9-1889-3
600 V 60 Hz or 550 V 50 Hz	D	9-1945-4	9-2183-19	9-2650-4	9-2823-4	9-1887-4	9-1887-4	9-1889-4	9-2526-4	9-1891-4	9-1889-4
208 V 60 Hz	E	9-1945-5	9-2183-17	9-2650-5	9-2823-5	9-1887-5	9-1887-5	9-1889-13	9-2526-5	9-1891-13	9-1889-13
24 V 60 Hz	T	9-1945-8	9-2183-16	9-2650-7	9-2823-18	9-1887-7	9-1887-7	9-1889-20	9-2526-6	9-1891-15	9-1889-20
380 V 50 Hz	L	9-1945-6	9-2183-3	9-2650-6	9-2421-18 ③	9-1887-8	9-1887-8	9-1889-14	9-2526-7	9-1891-14	9-1889-14
277 V 60 Hz	H	9-1945-16	9-2183-18	9-2650-13	9-2823-12	9-1887-16	9-1887-16	9-1889-31	9-2526-15	9-1891-26	9-1889-31
					9-2823-17						
120 Vdc ④	A1	—	—	—	—	9-2024-2	9-2024-2	9-2025-2	9-2626-2	9-2026-2	9-2025-2
240 Vdc ④	B1	—	—	—	—	9-2024-1	9-2024-1	9-2025-1	9-2626-1	9-2026-1	9-2025-1
24 Vdc ④	T1	—	—	—	—	9-2024-4	9-2024-4	9-2025-4	9-2626-4	9-2026-4	9-2025-4
48 Vdc ④	W1	—	—	—	—	9-2024-3	9-2024-3	9-2025-3	9-2626-3	9-2026-3	9-2025-3

Table 13-1. Replacement Capabilities — Contacts and Coils (Continued)

Description	Style and Part Numbers										
	Size 4		Size 5	Size 6			Size 7		Size 8		
	Series A1	Series B1		Series A1	Series B1	Series C1	Series A1	Series B1	Series A1	Series B1	
Contact Kits Part Number on Contactor or Starter Name Plate											
2-Pole	6-26	6-36-3	6-27	6-28	—	6-601-2	6-28	—	—	—	
3-Pole	6-26-2	6-36-4	6-27-2	6-28-2	6-570	6-601	6-28-2	6-570	646C829G05	6-571	
Magnet Coils	Coil Suffix										
120 V 60 Hz or 110 V 50 Hz	A	9-1891-1	9-1891-1	9-1891-1	9-1875-1	9-2651	9-2698	9-1875-1	9-2651	438C805G12	9-2654
240 V 60 Hz or 220 V 50 Hz	B	9-1891-2	9-1891-2	9-1891-2	9-1875-2	9-2651-2	9-2698-2	9-1875-2	9-2651-2	438C805G11	9-2654-2
480 V 60 Hz or 440 V 50 Hz	C	9-1891-3	9-1891-3	9-1891-3	9-1875-3	9-2651-3	9-2698-3	9-1875-3	9-2651-3	438C805G10	9-2654-3
600 V 60 Hz or 550 V 50 Hz	D	9-1891-4	9-1891-4	9-1891-4	9-1875-4	9-2651-4	9-2698-4	9-1875-4	9-2651-4	—	9-2654-4
208 V 60 Hz	E	9-1891-13	9-1891-13	9-1891-13	9-1875-14	9-2651-6	9-2698-5	9-1875-14	9-2651-6	438C805G11	9-2654-6
24 V 60 Hz	T	9-1891-15	9-1891-15	9-1891-15	—	—	—	—	—	—	—
380 V 50 Hz	L	9-1891-14	9-1891-14	9-1891-14	—	9-2651-5	9-2698-6	—	9-2651-5	438C805G15	9-2654-5
277 V 60 Hz	H	9-1891-26	9-1891-26	9-1891-26	—	—	—	—	—	—	—
120 Vdc ④	A1	9-2026-2	9-2026-2	9-2026-2	—	—	—	—	—	—	—
240 Vdc ④	B1	9-2026-1	9-2026-1	9-2026-1	—	—	—	—	—	—	—
24 Vdc ④	T1	9-2026-4	9-2026-4	9-2026-4	—	—	—	—	—	—	—
48 Vdc ④	W1	9-2026-3	9-2026-3	9-2026-3	—	—	—	—	—	—	—

① Citation overload relays are no longer available. A Freedom overload may be an option. Contact Control Aftermarket at 1-800-535-8992.
 ② Replace complete contactor.
 ③ Non-encapsulated coil.
 ④ For use in existing dc operated devices. Not for conversion of existing ac operated devices to dc.

Replacement Capabilities (Continued)

Table 13-16. Kits for GCA 530/630, Sizes 5 – 9 — and GPD Sizes 7 – 9 ①

Kit	Size 5	Size 6	Size 7	Size 8	Size 9
Contact Kit (1 per pole)	477B477G05 ②	2066A10G11	461A757G17	646C829G05	5264C42G01 (Rear Connected) 5264C42G02 (Front Connected)
Arc Box	2050A15G45	2066A10G45	831D580G01	831D580G01	9917D69G02
Magnet Assembly	2050A15G46	2050A15G46	N/A	N/A	N/A
Magnet Spacing Kit	2050A15G47	2050A15G47	N/A	N/A	N/A
Arc Cup Kit	2050A15G48	N/A	N/A	N/A	N/A
Load Connection Kit	2050A15G49	2066A10G49	N/A	N/A	N/A
Line Connection Kit	2050A15G50	2066A10G50	N/A	N/A	N/A
KO Spring-6	2050A15G51	2066A10G46	N/A	N/A	N/A
CT 300/5	655C285H03	N/A	N/A	N/A	N/A
CT 400/5	655C285H04	N/A	N/A	N/A	N/A
CT 600/5	N/A	2066A10G18 ③	N/A	N/A	N/A
CT 800/5	N/A	2066A10G19 ③	N/A	N/A	N/A
Phase Barrier	N/A	N/A	640C441G01	640C441G01	5264C35G03 (Rear Connected)
Cross Bar	2050A15G12	2066A10G15	N/A	N/A	N/A
Shunt	N/A	2066A10G48	650C129G01	646C831G02 (Set of 3)	5264C39G02 (Set of 4)

① Catalog No. A201/A200 Series replaces GCA/GPD Series. Renewal parts are the same.

② Use 477B477G06 for Silver Tungsten applications.

③ CT Kit replaces the single molded 1 CT assembly used on the old Size 6 airbrake. The kit includes a single molded 3 CT assembly, 2 bus bars, and hardware. This CT Kit also replaces the single molded 3 CT assembly used on the present Size 6 airbrake and Size 6 vacuum contactor.

Table 13-17. Coils

Voltage	Hz	Size 5	Size 6
110/120	60	2050A14G05	2050A12G05
110/120	50	2050A14G06	2050A12G06
200/208	50	2050A14G07	2050A12G07
220/240	50	2050A14G08	2050A12G08
200/208	60	2050A14G09	2050A12G09
220/240	60	2050A14G10	2050A12G10
277/303	60	2050A14G12	2050A12G12
380/415	50	2050A14G14	2050A12G14
440/480	60	2050A14G15	2050A12G15
440/480	50	2050A14G16	2050A12G16
550/600	60	2050A14G17	2050A12G17
550/600	50	2050A14G18	2050A12G18
380/415	60	2050A14G19	2050A12G19
120/240	60	2050A14G20	2050A12G20
24 dc	—	2050A14G21	2050A12G21
48 dc	—	2050A14G22	2050A12G22
125 dc	—	2050A14G25	2050A12G25
250 dc	—	2050A14G27	2050A12G27

Table 13-18. Coils

Line Voltage	Sizes 7 – 8	Required	Size 9
115 Vdc	438C805G01	2	100 Vdc
125 Vdc	438C805G04	2	5264C34G01
230 Vdc	438C805G02	2	(Contains coil and resistor)
250 Vdc	438C805G03	2	
110/120 Vac ④⑦	438C805G12	2	
220/240 Vac ⑤⑦	438C805G11	2	
380 Vac ⑥⑦	438C805G15	2	
440/480 Vac ⑥⑦	438C805G10	2	
550/575 Vac ⑥⑦	438C805G13	2	

④ Rectifier 125 V 2018A40G01 (one required).

⑤ Rectifier 250 V 2018A40G02 (one required).

⑥ Rectifier 600 V 2018A40G03 (one required).

⑦ These coils require an external rectifier. If the rectifier needs to be replaced, order by the appropriate style number.

Replacement Capabilities — NEMA Sizes 00, 0, 1, 2 and 3

Table 13-35. NEMA Sizes 00 and 0 — See Contactor/Starter Nameplate to Determine Series A1, B1 or C1

Description	NEMA Size 00-0		NEMA Size 00			NEMA Size 0	
	Series A1		Series B1	Series C1		Series B1	Series C1
	Part Number		Part Number	Part Number		Part Number	Part Number
Renewal Parts Publication Number	None		None	None		None	None
Contact Kits							
2-Pole	①	①	①	①	①	①	①
3-Pole	①	①	①	①	①	①	①
4-Pole	①	①	①	①	①	①	①
5-Pole	①	①	①	①	①	①	①
Magnet Coils							
	Coil Suffix						
120 V 60 Hz or 110 V 50 Hz	A	9-2650-1	9-2875-1	9-2875-1	9-2875-1	9-2876-1	9-2876-1
240 V 60 Hz or 220 V 50 Hz	B	9-2650-2	9-2875-2	9-2875-2	9-2875-2	9-2876-2	9-2876-2
480 V 60 Hz or 440 V 50 Hz	C	9-2650-3	9-2875-3	9-2875-3	9-2875-3	9-2876-3	9-2876-3
600 V 60 Hz or 550 V 50 Hz	D	9-2650-4	9-2875-4	9-2875-4	9-2875-4	9-2876-4	9-2876-4
208 V 60 Hz	E	9-2650-5	9-2875-5	9-2875-5	9-2875-5	9-2876-5	9-2876-5
277 V 60 Hz	H	9-2650-13	9-2875-12	9-2875-12	9-2875-12	9-2876-12	9-2876-12
208/240 V 60 Hz	J	—	9-2875-37	9-2875-37	9-2875-37	9-2876-17	9-2876-17
240 V 50 Hz	K	9-2650-12	9-2875-11	9-2875-11	9-2875-11	9-2876-11	9-2876-11
380 – 415 V 50 Hz	L	9-2650-6	9-2875-6	9-2875-6	9-2875-6	9-2876-6	9-2876-6
380 V 50 Hz	M	—	—	—	—	—	—
415 V 50 Hz	N	—	—	—	—	—	—
550 V 50 Hz	—	—	—	—	—	—	—
24 V 60 Hz – 24 V 50 Hz	T	—	9-2875-36	9-2875-36	9-2875-36	9-2876-36	9-2876-36
24 V 60 Hz	U	9-2650-7	—	—	—	—	—
24 V 50 Hz	V	9-2650-14	9-2875-36	9-2875-36	9-2875-36	9-2876-36	9-2876-36
32 V 50 Hz	W	9-2650-9	9-2875-16	9-2875-16	9-2875-16	9-2876-16	9-2876-16
48 V 60 Hz	X	9-2650-8	9-2875-8	9-2875-8	9-2875-8	9-2876-8	9-2876-8
48 V 50 Hz	Y	9-2650-10	9-2875-9	9-2875-9	9-2875-9	9-2876-9	9-2876-9
Magnet Frame Armature							
Lower Magnet Frame	①	①	①	①	①	①	①
Upper Magnet Frame	①	①	①	①	①	①	①

① Replace with complete contactor.

Table 13-36. NEMA Sizes 1, 2 and 3 — See Contactor/Starter Nameplate to Determine Series A1 or B1

Description	NEMA Size 1		NEMA Size 2		NEMA Size 3
	Series A1	Series B1	Series A1	Series B1	
	Part Number	Part Number	Part Number	Part Number	Part Number
Renewal Parts Publication Number	20861	22177	20861	22177	20426
Contact Kits					
2-Pole	6-65	6-65	6-65-7	6-65-7	6-43-5
3-Pole	6-65-2	6-65-2	6-65-8	6-65-8	6-43-6
4-Pole	6-65-9	6-65-9	6-65-15	6-65-15	—
5-Pole	6-65-10	6-65-10	6-65-16	6-65-16	—
Magnet Coils					
	Coil Suffix				
120 V 60 Hz or 110 V 50 Hz	A	9-2703-1	9-2703-1	9-2703-1	9-2756-1
240 V 60 Hz or 220 V 50 Hz	B	9-2703-2	9-2703-2	9-2703-2	9-2756-2
480 V 60 Hz or 440 V 50 Hz	C	9-2703-3	9-2703-3	9-2703-3	9-2756-3
600 V 60 Hz or 550 V 50 Hz	D	9-2703-4	9-2703-4	9-2703-4	9-2756-4
208 V 60 Hz	E	9-2703-9	9-2703-9	9-2703-9	9-2756-5
277 V 60 Hz	H	9-2703-7	9-2703-7	9-2703-7	9-2756-9
208/240 V 60 Hz	J	—	—	—	—
240 V 50 Hz	K	9-2703-14	9-2703-14	9-2703-14	9-2756-13
380 – 415 V 50 Hz	L	9-2703-8	9-2703-8	9-2703-8	—
380 V 50 Hz	M	—	—	—	9-2756-12
415 V 50 Hz	N	—	—	—	9-2756-8
550 V 50 Hz	—	—	—	—	9-2756-14
24 V 60 Hz – 24 V 50 Hz	T	—	—	—	—
24 V 60 Hz	U	9-2703-6	9-2703-6	9-2703-6	9-2756-6
24 V 50 Hz	V	9-2703-12	9-2703-12	9-2703-12	9-2756-11
32 V 50 Hz	W	9-2703-10	9-2703-10	9-2703-10	9-2756-10
48 V 60 Hz	X	9-2703-11	9-2703-11	9-2703-11	9-2756-15
48 V 50 Hz	Y	9-2703-13	9-2703-13	9-2703-13	9-2756-7
Magnet Frame Armature					
Lower Magnet Frame	17-18200	17-18200	17-18200	17-18200	17-8955-2
Upper Magnet Frame	48-1936	48-1936	48-1936	48-1936	48-1902

Replacement Capabilities (Continued) — NEMA Sizes 4, 5 and 6

Table 13-37. NEMA Sizes 4, 5 and 6 — See Contactor/Starter Nameplate to Determine Series A1 or B1

Description	NEMA Size 4		NEMA Size 5		NEMA Size 6		
	Series A1	Series B1	Series A1	Series B1	Series A1	Series B1	
	Part Number	Part Number	Part Number	Part Number	Part Number	Part Number	
Renewal Parts Publication Number	20428	20428	20429	20429	20146	20146	
Contact Kits							
2-Pole	6-44	6-26	6-45	6-45	6-601-2	6-648	
3-Pole	6-44-2	6-26-2	6-45-2	6-45-2	6-601		
Magnet Coils							
	Coil Suffix						
120 V 60 Hz or 110 V 50 Hz	A	9-1891-1	9-1891-1	9-1891-1	9-1891-1	9-2698	9-2698
240 V 60 Hz or 220 V 50 Hz	B	9-1891-2	9-1891-2	9-1891-2	9-1891-2	9-2698-2	9-2698-2
480 V 60 Hz or 440 V 50 Hz	C	9-1891-3	9-1891-3	9-1891-3	9-1891-3	9-2698-3	9-2698-3
600 V 60 Hz or 550 V 50 Hz	D	9-1891-4	9-1891-4	9-1891-4	9-1891-4	9-2698-4	9-2698-4
208 V 60 Hz	E	9-1891-13	9-1891-13	9-1891-13	9-1891-13	9-2698-5	9-2698-5
277 V 60 Hz	H	9-1891-26	9-1891-26	9-1891-26	9-1891-26	—	—
208/240 V 60 Hz	J	—	—	—	—	—	—
240 V 50 Hz	K	9-1891-20	9-1891-20	9-1891-20	9-1891-20	—	—
380 – 415 V 50 Hz	L	—	—	—	—	9-2698-6	9-2698-6
380 V 50 Hz	L	9-1891-14	9-1891-14	9-1891-14	9-1891-14	—	—
415 V 50 Hz	M	9-1891-21	9-1891-21	9-1891-21	9-1891-21	—	—
550 V 50 Hz	N	9-1891-8	9-1891-8	9-1891-8	9-1891-8	—	—
24 V 60 Hz – 24 V 50 Hz	T	—	—	—	—	—	—
24 V 60 Hz	T	9-1891-15	9-1891-15	9-1891-15	9-1891-15	—	—
24 V 50 Hz	U	9-1891-16	9-1891-16	9-1891-16	9-1891-16	—	—
32 V 50 Hz	V	9-1891-27	9-1891-27	9-1891-27	9-1891-27	—	—
48 V 60 Hz	W	—	—	—	—	9-2698-8	9-2698-8
48 V 50 Hz	Y	9-1891-18	9-1891-18	9-1891-18	9-1891-18	—	—
Overload Relays							
For Replacement on Existing Starters 3-Pole — Ambient Compensated Bimetallic		10-6530-4	10-6530-4	C306DN3B	C306DN3B	C306DN3B	C306DN3B
Current Transformer							
For Replacement on Existing Starters Only		—	—	42-3564	42-3564	42-3598	42-3598
Magnet Frame Armature							
Lower Magnet Frame		48-1030-2	48-1030-2	48-1030-2	48-1030-2	—	—
Upper Magnet Frame		48-1029-4	48-1029-4	48-1029-4	48-1029-4	—	—

Replacement Capabilities (Continued) — NEMA Sizes 7 and 8

Table 13-38. NEMA Sizes 7 and 8 — See Contactor/Starter Nameplate to Determine Series A1 or B1

Description	NEMA Size 7		NEMA Size 8	
	Series A1	Series B1	Series A1	Series B1
	Part Number	Part Number	Part Number	Part Number
Renewal Parts Publication Number	20848	20848	20849	20849
Contact Kits				
2-Pole	—	—	—	—
3-Pole	6-613	6-613	6-571	6-571
Magnet Coils				
	Coil Suffix			
120 V 60 Hz or 110 V 50 Hz	A	9-2698	9-2698	9-2654
240 V 60 Hz or 220 V 50 Hz	B	9-2698-2	9-2698-2	9-2654-2
480 V 60 Hz or 440 V 50 Hz	C	9-2698-3	9-2698-3	9-2654-3
600 V 60 Hz or 550 V 50 Hz	D	9-2698-4	9-2698-4	9-2654-4
208 V 60 Hz	E	9-2698-5	9-2698-5	9-2654-6
277 V 60 Hz	H	—	—	—
208/240 V 60 Hz	J	—	—	—
240 V 50 Hz	K	—	—	—
380 – 415 V 50 Hz	L	—	—	—
380 V 50 Hz	L	9-2698-6	9-2698-6	9-2654-5
415 V 50 Hz	M	—	—	—
550 V 50 Hz	N	—	—	—
24 V 60 Hz – 24 V 50 Hz	T	—	—	—
24 V 60 Hz	T	—	—	—
24 V 50 Hz	U	—	—	—
32 V 50 Hz	V	—	—	—
48 V 60 Hz	W	—	—	—
48 V 50 Hz	Y	—	—	—
Overload Relays				
For Replacement on Existing Starters 3-Pole — Ambient Compensated Bimetallic	C306DN3B	C306DN3B	C306DN3B	C306DN3B
Magnet Frame Armature ①				
Lower Magnet Frame	—	—	—	—
Upper Magnet Frame	—	—	—	—

① Contact Standard Open Control Aftermarket at 1-800-535-8992 for assistance.

Replacement Capabilities (Continued) — IEC Sizes A – F
Table 13-39. IEC Sizes A – F — See Contactor/Starter Nameplate to Determine Series A1, B1 or C1

Description	IEC Sizes A – F		IEC Sizes A – C ①			IEC Sizes D – F ①	
	Series A1		Series B1	Series C1		Series B1	Series C1
	Part Number		Part Number	Part Number		Part Number	Part Number
Renewal Parts Publication Number	None		None	None		None	None
Contact Kits							
2-Pole	②	②	②	②	②	②	②
3-Pole	②	②	②	②	②	②	②
4-Pole	②	②	②	②	②	②	②
5-Pole	②	②	②	②	②	②	②
Magnet Coils							
	Coil Suffix						
120 V 60 Hz or 110 V 50 Hz	A	9-2650-1	9-2875-1	9-2875-1	9-2875-1	9-2876-1	9-2876-1
240 V 60 Hz or 220 V 50 Hz	B	9-2650-2	9-2875-2	9-2875-2	9-2875-2	9-2876-2	9-2876-2
480 V 60 Hz or 440 V 50 Hz	C	9-2650-3	9-2875-3	9-2875-3	9-2875-3	9-2876-3	9-2876-3
600 V 60 Hz or 550 V 50 Hz	D	9-2650-4	9-2875-4	9-2875-4	9-2875-4	9-2876-4	9-2876-4
208 V 60 Hz	E	9-2650-5	9-2875-5	9-2875-5	9-2875-5	9-2876-5	9-2876-5
277 V 60 Hz	H	9-2650-13	9-2875-12	9-2875-12	9-2875-12	9-2876-12	9-2876-12
208/240 V 60 Hz	J	—	9-2875-37	9-2875-37	9-2875-37	9-2876-37	9-2876-37
240 V 50 Hz	K	9-2650-12	9-2875-11	9-2875-11	9-2875-11	9-2876-11	9-2876-11
380 – 415 V 50 Hz	L	9-2650-6	9-2875-6	9-2875-6	9-2875-6	9-2876-6	9-2876-6
24 V 60 Hz – 24 V 50 Hz	T	—	9-2875-36	9-2875-36	9-2875-36	9-2876-36	9-2876-36
24 V 60 Hz	T	9-2650-7	—	—	—	—	—
24 V 50 Hz	U	9-2650-14	9-2875-13	9-2875-13	9-2875-13	9-2876-13	9-2876-13
32 V 50 Hz	V	9-2650-9	9-2875-16	9-2875-16	9-2875-16	9-2876-16	9-2876-16
48 V 60 Hz	W	9-2650-8	9-2875-8	9-2875-8	9-2875-8	9-2876-8	9-2876-8
48 V 50 Hz	Y	9-2650-10	9-2875-9	9-2875-9	9-2875-9	9-2876-9	9-2876-9
Overload Relays							
For Replacement on Existing Starters: 3-Pole — Ambient Compensated Bimetallic		C306DN3B	C306DN3B	C306DN3B	C306DN3B	C306DN3B	C306DN3B
Current Transformer							
Transformer		—	—	—	—	—	—
Magnet Frame Armature							
Lower Magnet Frame	②	②	②	②	②	②	②
Upper Magnet Frame	②	②	②	②	②	②	②

① Non-encapsulated coils.

② Replace with complete contactor.

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Aftermarket Solutions, Ref. No. [277]

Freedom (IEC)

Replacement Capabilities (Continued) — IEC Sizes L, M and N

Table 13-42. IEC Sizes L, M and N

Description	IEC Size L		IEC Size M		IEC Size N	
	Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
Renewal Parts Publication Number	20427	20427	20427	20427	20427	20427
Contact Kits						
2-Pole	6-43-3	6-43	6-43	6-43-5	6-43-5	6-43-5
3-Pole	6-43-4	6-43-2	6-43-2	6-43-6	6-43-6	6-43-6
4-Pole	—	—	—	—	—	—
5-Pole	—	—	—	—	—	—
Magnet Coils						
	Coil Suffix					
120 V 60 Hz or 110 V 50 Hz	A	9-2756-1	9-2756-1	9-2756-1	9-2756-1	9-2756-1
240 V 60 Hz or 220 V 50 Hz	B	9-2756-2	9-2756-2	9-2756-2	9-2756-2	9-2756-2
480 V 60 Hz or 440 V 50 Hz	C	9-2756-3	9-2756-3	9-2756-3	9-2756-3	9-2756-3
600 V 60 Hz or 550 V 50 Hz	D	9-2756-4	9-2756-4	9-2756-4	9-2756-4	9-2756-4
208 V 60 Hz	E	9-2756-5	9-2756-5	9-2756-5	9-2756-5	9-2756-5
277 V 60 Hz	H	9-2756-9	9-2756-9	9-2756-9	9-2756-9	9-2756-9
240 V 50 Hz	K	9-2756-13	9-2756-13	9-2756-13	9-2756-13	9-2756-13
380 – 415 V 50 Hz	L	—	—	—	—	—
380 V 50 Hz	L	9-2756-12	9-2756-12	9-2756-12	9-2756-12	9-2756-12
415 V 50 Hz	M	9-2756-8	9-2756-8	9-2756-8	9-2756-8	9-2756-8
550 V 50 Hz	N	9-2756-14	9-2756-14	9-2756-14	9-2756-14	9-2756-14
24 V 60 Hz – 24 V 50 Hz	T	—	—	—	—	—
24 V 60 Hz	T	9-2756-6	9-2756-6	9-2756-6	9-2756-6	9-2756-6
24 V 50 Hz	U	9-2756-11	9-2756-11	9-2756-11	9-2756-11	9-2756-11
32 V 50 Hz	V	9-2756-10	9-2756-10	9-2756-10	9-2756-10	9-2756-10
48 V 60 Hz	W	9-2756-15	9-2756-15	9-2756-15	9-2756-15	9-2756-15
48 V 50 Hz	Y	9-2756-7	9-2756-7	9-2756-7	9-2756-7	9-2756-7
Overload Relays						
For Replacement on Existing Starters						
3-Pole — Ambient Compensated Bimetallic	10-6530	10-6530-2	10-6530-2	10-6530-3	10-6530-3	10-6530-3
Current Transformer						
Transformer	—	—	—	—	—	—
Magnet Frame Armature						
Lower Magnet Frame	17-8955-2	17-8955-2	17-8955-2	17-8955-2	17-8955-2	17-8955-2
Upper Magnet Frame	48-1902	48-1902	48-1902	48-1902	48-1902	48-1902

Replacement Capabilities (Continued) — IEC Sizes P, R, S, T, U and V

Table 13-43. IEC Sizes P, R and S

Description		IEC Size P	IEC Size R	IEC Size S
		Part Number	Part Number	Part Number
Renewal Parts Publication Number		22278	22278	22278
Contact Kits	Size	6-294	6-288	6-286
Magnet Coils		Coil Suffix		
120 V 60 Hz or 110 V 50 Hz	A	9-1891-1	9-1891-1	9-1891-1
200 V 50 Hz or 118 V 60 Hz	E	—	—	—
240 V 60 Hz or 220 V 50 Hz	B	9-1891-2	9-1891-2	9-1891-2
254 V 50 Hz or 277 V 60 Hz	H	—	—	—
380 V 50 Hz or 415 V 60 Hz	L	—	—	—
480 V 60 Hz or 440 V 50 Hz	C	9-1891-3	9-1891-3	9-1891-3
600 V 60 Hz or 550 V 50 Hz	D	9-1891-4	9-1891-4	9-1891-4
208 V 60 Hz	E	9-1891-13	9-1891-13	9-1891-13
277 V 60 Hz	H	9-1891-26	9-1891-26	9-1891-26
240 V 50 Hz	K	9-1891-20	9-1891-20	9-1891-20
380 V 50 Hz	L	9-1891-14	9-1891-14	9-1891-14
415 V 50 Hz	M	9-1891-21	9-1891-21	9-1891-21
24 V 60 Hz	T	9-1891-15	9-1891-15	9-1891-15
Overload Relays				
Reference C316 Overload Relays				
Magnet Frame Armature				
Lower Magnet Frame		48-1030-2	48-1030-2	48-1030-2
Upper Magnet Frame		48-1029-4	48-1029-4	48-1029-4

Table 13-44. IEC Size T, U and V

Description		IEC Size T	IEC Size U	IEC Size V
		Part Number	Part Number	Part Number
Renewal Parts Publication Number		22275	22276	22586
Contact Kits	Size	6-621	6-622	6-601
Magnet Coils		Coil Suffix		
120 V 60 Hz or 110 V 50 Hz	A	9-3006	9-3006	9-2698
200 V 50 Hz or 118 V 60 Hz	E	9-3006-5	9-3006-5	—
240 V 60 Hz or 220 V 50 Hz	B	9-3006-2	9-3006-2	9-2698-2
254 V 50 Hz or 277 V 60 Hz	H	9-3006-6	9-3006-6	9-2698-2
380 V 50 Hz or 415 V 60 Hz	L	9-3006-7	9-3006-7	9-2698-6
480 V 60 Hz or 440 V 50 Hz	C	9-3006-3	9-3006-3	9-2698-3
600 V 60 Hz or 550 V 50 Hz	D	9-3006-4	9-3006-4	9-2698-4
208 V 60 Hz	E	—	—	9-2698-5
277 V 60 Hz	H	—	—	—
240 V 50 Hz	K	—	—	—
380 V 50 Hz	L	—	—	—
415 V 50 Hz	M	—	—	—
24 V 60 Hz	T	—	—	—
Overload Relays				
Reference C316 Overload Relays				
Magnet Frame Armature				
Lower Magnet Frame		—	—	—
Upper Magnet Frame		—	—	—

Technology Upgrades

This product currently listed in **Section 34** of the *Electrical Control Products and Services Catalog*.

June 2008
Aftermarket Solutions, Ref. No. [281]

Contactors, Starters and Overload Relays

XTIEC Power Control



XT Family of Contactors

Product Description

Eaton's new line of XT Contactors and Starters includes non-reversing and reversing contactors, overload relay and a variety of related accessories. Because XT meets IEC, UL, CSA, CCC and CE standards, it is the perfect product solution for IEC applications all over the world. The compact, space saving, and easy to install XT line of IEC contactors and starters is the efficient and effective solution for customer applications from 7 A to 2000 A.

Product History Time Line

Product	June 2005	Present
XTIEC Power Control		

Figure 13-10. Product History Time Line for XT IEC Power Control

Replacement Capabilities

Table 13-47. Replacement Coils

Voltage	Coil Suffix	Catalog Number
Frame C		
110/50 120/60	A	XTCERENCOILCA
110 – 130 Vdc	AD	XTCERENCOILCAD
220/50 240/80	B	XTCERENCOILCB
200 – 240 Vdc	BD	XTCERENCOILCBD
415/50 460/60	C	XTCERENCOILCC
550/50 600/60	D	XTCERENCOILCD
208/60	E	XTCERENCOILCE
230/50	F	XTCERENCOILCF
190/50 220/60	G	XTCERENCOILCG
240/50 277/60	H	XTCERENCOILCH
380/50 440/60	L	XTCERENCOILCL
400/50	N	XTCERENCOILCN
380/60	P	XTCERENCOILCP
12/50 12/60	R	XTCERENCOILCR
12 – 14 Vdc	RD	XTCERENCOILCRD
24/5024/60	T	XTCERENCOILCT
24 – 27 Vdc	TD	XTCERENCOILCTD
24/50 42/50	U	XTCERENCOILCU
48/60	w	XTCERENCOILCW
48 – 60 Vdc	WD	XTCERENCOILCWD
48/50	Y	XTCEBENCOILCY

Frame D

110/50 120/60	A	XTCERENCOILDA
110 – 130 Vdc	AD	XTCERENCOILDAD
220/50 240/80	B	XTCERENCOILDB
200 – 240 Vdc	BD	XTCERENCOILDBD
415/50 480/60	C	XTCERENCOILDC
550/50 600/60	D	XTCERENCOILDD
208/60	E	XTCERENCOILDE
230/50	F	XTCERENCOILDF
190/50 220/60	G	XTCERENCOILDG
240/50 277/60	H	XTCERENCOILDH
380/50 440/60	L	XTCERENCOILDL
400/50	N	XTCERENCOILDN
380/60	P	XTCERENCOILDP
12/50 12/60	R	XTCERENCOILOR
12 – 14 Vdc	RD	XTCERENCOILDRD
24/50 24/60	T	XTCERENCOILT
24 – 27 Vdc	TD	XTCERENCOILDTD
24/50 42/50	U	XTCERENCOILDU
48/60	W	XTCERENCOILDW
48 – 60 Vdc	WD	XTCERENCOILDWD
48/50	Y	XTCERENCOILDY

Frame F

110/50120/60	A	XTCERENCOILFA
110 – 130 Vdc	AD	XTCERENCOILFAD
220/50 240/60	B	XTCERENCOILFB
200 – 240 Vdc	BD	XTCERENCOILFBD
415/50 480/60	C	XTCERENCOILFC
550/50 600/60	D	XTCERENCOILFD
208/60	E	XTCERENCOILFE
230/50	F	XTCERENCOILFF
190/50 220/60	G	XTCERENCOILFG
240/50 277/60	H	XTCERENCOILFH
380/50 440/60	L	XTCERENCOILFL
400/50	N	XTCERENCOILFN
380/60	P	XTCERENCOILFP
12/50 12/60	R	XTCERENCOILFR
24/50 24/60	T	XTCERENCOILFT
24 – 27 Vdc	TD	XTCERENCOILFTD
24/50	U	XTCERENCOILFU
42/50 48/60	W	XTCERENCOILFW
48 – 60 Vdc	WD	XTCERENCOILFWD
48/50	Y	XTCERENCOILFY

Table 13-47. Replacement Coils (Continued)

Voltage	Coil Suffix	Catalog Number
Frame G		
100 – 120 V 50/60	A	XTCERENCOILGA
110 – 130 Vdc	AD	XTCERENCOILGAD
190 – 240 V 50/60	B	XTCERENCOILGB
200 – 240 Vdc	BD	XTCERENCOILGBD
480 – 500 V 50/60	C	XTCERENCOILGC
380 – 440 V 50/60	L	XTCERENCOILGL
24/50 24/60	T	XTCERENCOILGT
24 – 27 Vdc	TD	XTCERENCOILGTD
42 – 48 V 50/60	W	XTCERENCOILGW
48 – 60 Vdc	WD	XTCERENCOILGWD

Frame L ①

110 – 250 Vac/dc	A	XTCERENCOILLA
250 – 500 V 40 – 60	C	XTCERENCOILLC
24 – 48 Vdc	TD	XTCERENCOILLTD
48 – 110 Vac/dc	Y	XTCERENCOILLY

Frame M ①

110 – 250 Vac/dc	A	XTCERENCOILMA
250 – 500 V 40 – 60	C	XTCERENCOILMC
24 – 48 Vdc	TD	XTCERENCOILMTD
48 – 110 Vac/dc	Y	XTCERENCOILMY

Frame N ①

110 – 250 Vac/dc	A	XTCERENCOILNA
250 – 500 V 40 – 60	C	XTCERENCOILNC
48 – 110 Vac/dc	Y	XTCERENCOILNY

① Electronic modules including coils.

Table 13-48. Replacement Contact Kits

For use with...	Catalog Number
XTAE040D – XTAE065D	XTCERENCONTACTD
XTCE185L – XTCE250L	XTCERENCONTACTL
XTCE300M – XTCE500M	XTCERENCONTACTM

Table 13-49. Replacement Vacuum Tube Assembly

For use with...	Catalog Number
XTCE580N	XTCERENVACT580
XTCE650N	XTCERENVACTBB0
XTCE750N	XTCERENVACT750
XTCE820N	XTCERENVACT820

Table 13-50. Replacement Arc Chambers

For use with...	Catalog Number
XTCE185L	XTCERENARC185
XTCE225L	XTCERENARC225
XTCE250L	XTCERENARC250
XTCE300M	XTCERENARC300
XTCE400M	XTCERENARC400
XTCE500M	XTCERENARC500

Replacement Capabilities (Continued)

Table 13-59. MR and MD Series ① Sizes 5 – 9
Renewal Parts — Kits

Type MR and MD	Part Number Current
----------------	---------------------

Contact Kit

501/501R 510 601/701 610/710	26D2610G22 26D2610G15 26D2610G24 26D2610G16
810 810R 910	26D2610G18 26D2610G19 26D2610G20

Shunt

501/501R 510 601 610	25A1650G02 25A1641G02 25A1666G03 25A1654G03
701 710 810/810R 910	25A1666G04 25A1654G04 25A1693G02 45A1425G02

Arc Box

501/510 601/610, 701/710 810/910	25A1646G01 25A1662G01 25A1677G05
--	--

Armature Kit

501/501R 510 601/701 610/710	25A1649G05 25A1640G05 25A1667G03 25A1655G04
810/810R 910	25A1694G05 38A2269G02

Blowout Coil Assembly Kit ②

M501/510 M601/610 M701/710 M810/810R M910	25A1644G05 25A1659G05 25A1660G03 25A1698G03 38A2273G02
---	--

Blowout Coil Assembly Kit ③

M501/510 M601/610 M701/710 M810 M910	857D505G05 857D506G08 857D516G05 857D508G07 857D509G04
--	--

① MR = rear connected; MD = front connected.

② Type MR only.

③ Type MD only.

Table 13-60. M and MD Series Sizes 5 – 9 — Coils

Voltage	M and MD 501		M and MD 510		M and MD 610/710	
	Part Number	Symmetrical Wiring	Part Number	Symmetrical Wiring	Part Number	Symmetrical Wiring
65	N/A	—	45A5515G11	—	—	—
90/92	N/A	—	45A5515G23	—	30B4377G17	—
115	30B4375G04	—	45A5515G01	—	30B4377G04	—
125	30B4375G24	—	45A5515G07	—	30B4377G10	—
230	30B4375G05	—	45A5515G04	—	30B4377G05	—
250	30B4375G12	—	45A5515G12	—	30B4377G07	—
550	30B4375G06	—	45A5515G05	—	30B4377G08	—

Voltage	M and MD 601/701		M and MD 810		M and MD 910	
	Part Number	Symmetrical Wiring	Part Number	Symmetrical Wiring	Part Number	Symmetrical Wiring
92	—	—	435A928G01	④	435A930G01	④
115	30B4377G23	④	435A929G01	④	L483507G01	④
115	30B4377G01	⑤	L482211G01	⑤	L483507G01	⑤
125	30B4377G24	④	435A966G01	④	435A967G01	④
125	30B4377G13	⑤	—	—	—	—
230	30B4377G01	④	L482211G01	④	L483507G01	④
230	30B4377G02	⑤	—	—	—	—
250	30B4377G13	④	334P064G01	④	LR549720G01	⑤
250	30B4377G08	⑤	—	—	—	—
550	30B4377G25	④	L482213G01	⑤	L483508G01	⑤
550	30B4377G03	⑤	—	—	—	—
600	—	—	N/A	—	L548879G01	④

Voltage	M and MD 810R					
	Coil		Resistor		Resistor Mounting	
	Part Number	Symmetrical Wiring	Part Number	Symmetrical Wiring	Part Number	Symmetrical Wiring
115	N/A	—	N/A	—	N/A	—
230	L482211G0	④	57D1336G10	⑥	57D1340G02	—
550	N/A	④	57D1336G12	⑦	57D1340G02	—

④ 2 coils connected in series.

⑤ 2 coils connected in parallel.

⑥ 2 resistors connected in parallel.

⑦ Resistors connected in series.

Technology Upgrades

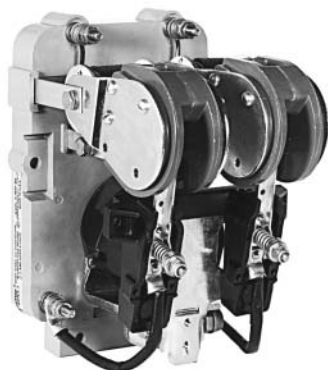
This product currently listed in **Section 35** of the *Electrical Control Products and Services Catalog*.

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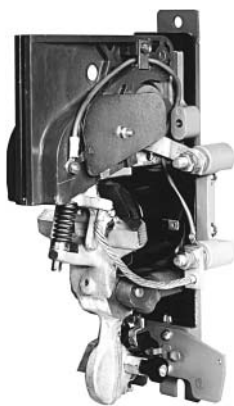
C80 Mill Type dc Contactors

C80 Mill Type dc Contactors

Originally a Cutler-Hammer Product



Size 2 — 2-Pole Contactor



NO Contactor

Product Description

These dc mill type contactors are designed for heavy industry service and are suitable for use on moving machinery. The contactors listed in this section are for surface mounting on steel panels and front-of-panel wiring. The power stud assembly is mounted on the side of the contactor, rather than as part of a separate mounting kit.

The contactors feature forged steel armature levers and magnet frames for superior physical strength. Self-lubricating bearings eliminate the need for lubricating the contactor. New hot-molded arc chute assemblies contain no asbestos and have better arc extinction characteristics for longer contact life. The short stroke armature results in a mechanical life of more than 20 million operations.

Product History Time Line

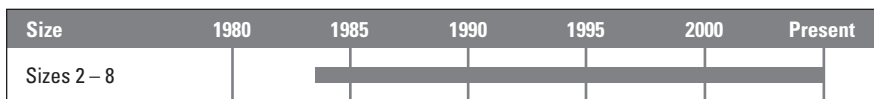


Figure 13-15. Product History Time Line for C80 Mill Type dc Contactors

Note: The C80 contactors were renumbered in 1984 from the old 6002 Series which dates back to 1919. Consult factory for old 6002 Series replacements and parts.

Replacement Capabilities



Set of Contacts



Arc Shield



Coils

Table 13-61. Replacement Capabilities for C80 Mill Type dc Contactors

Description	Part Numbers						
	Size 2 1-Pole, 2-Pole, 3-Pole and Ltl® 25 & 50 Ampere	Size 3 1-Pole NO, NC and Ltl 100 Ampere	Size 4 1-Pole NO, NC and Ltl 150 Ampere	Size 5 1-Pole NO, NC and Ltl 300 Ampere	Size 6 1-Pole NO, NC and Ltl 600 Ampere	Size 6A 1-Pole NO, NC and Ltl 810 Ampere	Size 8 1-Pole NO 1350 Ampere

Set of Contacts

1-Pole Copper	6-599	6-189	6-189	6-189-3	6-189-4	6-189-4	6-215
1-Pole Silver	—	6-189-5	6-189-6	6-189-7	6-189-8	6-189-8	6-215-2
2-Pole Copper	6-169-4	—	—	—	—	—	—
3-Pole Copper	6-169-5	—	—	—	—	—	—

Arc Shield

Right Hand	73-2676-2	62-791	62-791	62-793	62-840	62-840	62-804
Left Hand	73-2676	62-791-2	62-791-2	62-793-2	62-840-2	62-840-2	62-804

Coils

1-Pole NO 100 V	115 V	9-1549-18	9-1583-15	9-1583-15	9-1589-10	9-1688-8	9-1688-8	9-547-7 ①
	230 V	9-1549-2	9-1583-2	9-1583-2	9-1589-2	9-1688-2	9-1688-2	9-547-7 ①
	550 V	9-1549-1	9-1583-1	9-1583-1	9-1589-1	9-1688-1	9-1688-1	9-547-4 ①
		9-1549-3	9-1583-3	9-1583-3	9-1589-3	9-1688-3	9-1688-3	9-547-28 ①
1-Pole NC 100 V	115 V	—	9-1585-18	9-1585-18	9-967-13	9-1717-4	—	—
	230 V	—	9-1585-2	9-1585-2	9-967-8	9-1717-1	—	—
	550 V	—	9-1585-1	9-1585-1	9-967-7	9-1717-2	—	—
		—	9-1585-3	9-1585-3	9-967-12	9-1717-3	—	—
1-Pole Ltl ② 100 V	115 V	9-1549-18	9-1583-15	9-1583-15	9-1589-10	9-1688-8	—	—
	230 V	9-1549-2	9-1583-2	9-1583-2	9-1589-2	9-1688-2	—	—
	550 V	9-1549-1	9-1583-1	9-1583-1	9-1589-1	9-1688-1	—	—
		9-1549-3	9-1583-3	9-1583-3	9-1589-3	9-1688-3	—	—
2-Pole 100 V	115 V	9-1585-18	—	—	—	—	—	—
	230 V	9-1585-2	—	—	—	—	—	—
	550 V	9-1585-1	—	—	—	—	—	—
		9-1585-3	—	—	—	—	—	—
3-Pole 100 V	115 V	9-1585-18	—	—	—	—	—	—
	230 V	9-1585-2	—	—	—	—	—	—
	550 V	9-1585-1	—	—	—	—	—	—
		9-1585-3	—	—	—	—	—	—

① Series resistor used with coil for voltage shown.

② Magnet closing coil only. If holdout coil is required, give number stamped on coil or advise Bulletin or Serial Number of controller.

Technology Upgrades

Note: This product currently listed in **Section 35** of the *Electrical Control Products and Services Catalog*.