

Replacement Capabilities

Replacement Capabilities—Contacts and Coils

Description	Coil Suffix	Style and Part Numbers									
		Size 00 Series A1 ①	Size 00 Series B1	Size 00 Series C1	Size 00 Series D1	Size 0	Size 1	Size 2 Series A1	Size 2 Series B1	Size 3 Series A1	Size 3 Series B1
Contact Kits											
Part number on contactor or starter nameplate											
Two-pole without interlock	—	6-21	②	②	②	6-22	6-23	6-24	6-34	6-25	6-35
Three-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
Three-pole with interlock	—	6-21-3	②	②	—	—	—	—	—	—	—
Four-pole without interlock	—	—	—	—	—	6-22-3	6-23-3	—	6-34-3	—	—
Five-pole without interlock	—	—	—	—	—	6-22-4	6-23-4	—	6-34-4	—	—
Magnet Coils											
120V, 60 Hz or 110V, 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
240V, 60 Hz or 220V, 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
480V, 60 Hz or 440V, 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
600V, 60 Hz or 550V, 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
208V, 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
24V, 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
380V, 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
277V, 60 Hz	H	9-1945-16	9-2183-18	9-2650-13	9-2823-12 9-2823-17	9-1887-16	9-1887-16	9-1889-31	9-2526-15	9-1891-26	9-1889-31
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

Replacement Capabilities—Contacts and Coils, continued

Description	Coil Suffix	Style and Part Numbers									
		Size 4 Series A1	Size 4 Series B1	Size 5	Size 6 Series A1	Size 6 Series B1	Size 6 Series C1	Size 7 Series A1	Size 7 Series B1	Size 8 Series A1	Size 8 Series B1
Contact Kits											
Part number on contactor or starter nameplate											
Two-pole	—	6-26	6-36-3	6-27	6-28	—	6-601-2	6-28	—	—	—
Three-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											
120V, 60 Hz or 110V, 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
240V, 60 Hz or 220V, 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
480V, 60 Hz or 440V, 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
600V, 60 Hz or 550V, 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
208V, 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
24V, 60 Hz	T	9-1891-15	9-1891-15	9-1891-15	—	—	—	—	—	—	—
380V, 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
277V, 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	—	—	—	—	—	—	—

Notes

- 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.

NEMA Sizes 4, 5 and 6—See Contactor/Starter Nameplate to Determine Series A1 or B1

Description		NEMA Size 4 Series A1 Part Number	NEMA Size 4 Series B1 Part Number	NEMA Size 5 Series A1 Part Number	NEMA Size 5 Series B1 Part Number	NEMA Size 6 Series A1 Part Number	NEMA Size 6 Series B1 Part Number
Renewal Parts Publication Number		20428	20428	20429	20429	20146	20146
Contact Kits							
Two-pole		6-44	6-26	6-45	6-45	6-601-2	6-648
Three-pole		6-44-2	6-26-2	6-45-2	6-45-2	6-601	—
Magnet Coils		Coil Suffix					
120V, 60 Hz or 110V, 50 Hz	A	9-1891-1	9-1891-1	9-1891-1	9-1891-1	9-2698	9-2698
240V, 60 Hz or 220V, 50 Hz	B	9-1891-2	9-1891-2	9-1891-2	9-1891-2	9-2698-2	9-2698-2
480V, 60 Hz or 440V, 50 Hz	C	9-1891-3	9-1891-3	9-1891-3	9-1891-3	9-2698-3	9-2698-3
600V, 60 Hz or 550V, 50 Hz	D	9-1891-4	9-1891-4	9-1891-4	9-1891-4	9-2698-4	9-2698-4
208V, 60 Hz	E	9-1891-13	9-1891-13	9-1891-13	9-1891-13	9-2698-5	9-2698-5
277V, 60 Hz	H	9-1891-26	9-1891-26	9-1891-26	9-1891-26	—	—
208/240V, 60 Hz	J	—	—	—	—	—	—
240V, 50 Hz	K	9-1891-20	9-1891-20	9-1891-20	9-1891-20	—	—
380–415V, 50 Hz	L	—	—	—	—	9-2698-6	9-2698-6
380V, 50 Hz	L	9-1891-14	9-1891-14	9-1891-14	9-1891-14	—	—
415V, 50 Hz	M	9-1891-21	9-1891-21	9-1891-21	9-1891-21	—	—
550V, 50 Hz	N	9-1891-8	9-1891-8	9-1891-8	9-1891-8	—	—
24V, 60 Hz–24V, 50 Hz	T	—	—	—	—	—	—
24V, 60 Hz	T	9-1891-15	9-1891-15	9-1891-15	9-1891-15	—	—
24V, 50 Hz	U	9-1891-16	9-1891-16	9-1891-16	9-1891-16	—	—
32V, 50 Hz	V	9-1891-27	9-1891-27	9-1891-27	9-1891-27	—	—
48V, 60 Hz	W	—	—	—	—	9-2698-8	9-2698-8
48V, 50 Hz	Y	9-1891-18	9-1891-18	9-1891-18	9-1891-18	—	—
Overload Relays							
For replacement on existing starters three-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	—	—

IEC Sizes P, R and S

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

IEC Size T, U and V

Description		IEC Size T	IEC Size U	IEC Size V
Renewal Parts Publication Number		22275	22276	22586
Contact Kits	Size	6-621	6-622	6-601
Magnet Coils		Coil Suffix		
120V, 60 Hz or 110V, 50 Hz	A	9-3006	9-3006	9-2698
200V, 50 Hz or 118V, 60 Hz	E	9-3006-5	9-3006-5	—
240V, 60 Hz or 220V, 50 Hz	B	9-3006-2	9-3006-2	9-2698-2
254V, 50 Hz or 277V, 60 Hz	H	9-3006-6	9-3006-6	9-2698-2
380V, 50 Hz or 415V, 60 Hz	L	9-3006-7	9-3006-7	9-2698-6
480V, 60 Hz or 440V, 50 Hz	C	9-3006-3	9-3006-3	9-2698-3
600V, 60 Hz or 550V, 50 Hz	D	9-3006-4	9-3006-4	9-2698-4
208V, 60 Hz	E	—	—	9-2698-5
277V, 60 Hz	H	—	—	—
240V, 50 Hz	K	—	—	—
380V, 50 Hz	L	—	—	—
415V, 50 Hz	M	—	—	—
24V, 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 **Volume 5—Motor Control and Protection, CA08100006E, Tab 1.**

AC Coils, continued

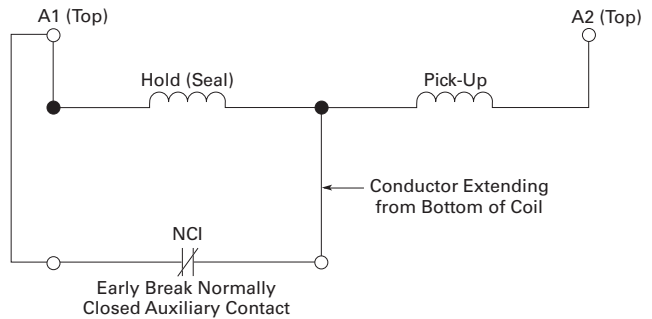
AC Coil Voltage	Frequency	Coil Suffix	Part Number
50A – Two- and Three-Pole (Series D1 and E1)			
12	60	R	9-3253-5
24		T	9-3253-6
110/120		A	9-3253-1
208/240		B	9-3253-2
220/240	60	J	9-3253-10
440/480		C	9-3253-3
550/600		D	9-3253-4
277		H	9-3253-7
380/415	50	L	9-3253-8
60 and 75A – Two- and Three-Pole; 25, 30 and 40A – Four-Pole			
12	60	R	9-3256-5
24		T	9-3256-6
104/120		A	9-3256-1
208/240	50	B	9-3256-2
440/480		C	9-3256-3
550/600		D	9-3256-4
277	60	H	9-3256-7
380/415	50	L	9-3256-8
90A – Two- and Three-Pole (Series F1)			
24	50/60	T	9-3080-1
110/120		A	9-3080-2
208–220		B	9-3080-3
380–415	50/60	C	9-3080-5
277	60	H	9-3080-4
120A – Three-Pole			
24	50/60	T	9-2756-16
110/120		A	9-2756-1
220/240		B	9-2756-2
440/480		C	9-2756-3
550/600		D	9-2756-4
208	60	E	9-2756-5
277		H	9-2756-9
200, 300 and 360A – Three-Pole			
110/120	50/60	A	9-1891-1
220/240		B	9-1891-2
440/480		C	9-1891-3
550/600		D	9-1891-4
208	60	E	9-1891-13
277		H	9-1891-26

DC Operation

These DC coils have separate pick-up and seal windings. The pick-up winding must be connected to an early break normally closed auxiliary contact block and provide the magnetic force required to close the magnet. As the magnet approaches the closed position, the early break normally closed contact is opened and the holding coil is inserted in series with the pick-up winding.

The early break contact block (C320KGD1) has to be attached to the side of the contactor, taking up one of the positions available for add-on auxiliary contact blocks.

DC Coil Elementary Diagram—Contactors and Starters



DC Coils ①

DC Coil Voltage	Coil Suffix	Part Number
15, 25, 30 and 40A – Two- and Three-Pole (Series D1 and E1)		
12	1R	9-3254-2
24	1T	9-3254-3
48	1W	9-3254-4
120	1A	9-3254-5
50A – Two- and Three-Pole (Series D1 and E1)		
12	1R	9-3255-2
24	1T	9-3255-3
48	1W	9-3255-4
120	1A	9-3255-5
15, 25, 30 and 40A – Two- and Three-Pole (Series C1)		
12	1R	9-3126-1
24	1T	9-3126-2
48	1W	9-3126-3
60 and 75A – Two- and Three-Pole; 25, 30 and 40A – Four-Pole (Series C1)		
12	1R	9-3257-1
24	1T	9-3257-2
48	1W	9-3257-3
120	1A	9-3257-4

Note

① DC coils require an early break NC auxiliary contact C320KGD1 (1NCI) or C320KGD2 (1NO-1NCI). Order separately, not included with replacement coil.