

NEMA Full Voltage Power Devices

NEMA Rated Full Voltage Starters - Magnetic

CR308, CR408 Magnetic Starters

Nonreversing, Combination, NEMA Type 1, 3R, 12, 4/4X

NEMA Sizes 0-6, Nonfusible Disconnect Type

600 Volts Maximum 50/60 Hertz

List Price includes a holding interlock, pressure terminals for the line and load connections, plus a 3-leg block type overload relay (manual reset). All enclosures include external reset. Three heaters should be ordered as separate items. See pages 1-153 to 1-159 for selection

CR308/408 Nonfusible Disconnect

Voltage (60Hz)	NEMA Size	Maximum Horsepower	Continuous Amp Rating	NEMA Type 1	NEMA Type 3R	NEMA Type 12	NEMA Type 4/4X
				Product Number CR	Product Number CR	Product Number CR	Product Number CR List Price GO-10G1
200-208	0	3	18	308BT081A1AAAAA	408B6081A1AAAAA	408B2081A1AAAAA	408B4081A1AAAAA
200-208	1	7 1/2	27	308CT081A1AAAAA	408C6081A1AAAAA	408C2081A1AAAAA	408C4081A1AAAAA
200-208	2	10	45	308DT081A1AAAAA	408D6081A1AAAAA	408D2081A1AAAAA	408D4081A1AAAAA
200-208	3	25	90	408E1081A1AAAAA	408E6081A1AAAAA	408E2081A1AAAAA	408E4081A1AAAAA
200-208	4	40	135	408F1081A1AAAAA	408F6081A1AAAAA	408F2081A1AAAAA	408F4081A1AAAAA
200-208	5	75	270	308G123AAA	308G623AAAA	308G223AEA	308G423AAAA
200-208	6	150	540	308HH123AAAA	308HH623AAAA	308HH223AEEA	308HH423AAAA ¹
230-240	0	3	18	308BT031A1AAAAA	408B6031A1AAAAA	408B2031A1AAAAA	408B4031A1AAAAA
230-240	1	7 1/2	27	308CT031A1AAAAA	408C6031A1AAAAA	408C2031A1AAAAA	408C4031A1AAAAA
230-240	2	15	45	308DT031A1AAAAA	408D6031A1AAAAA	408D2031A1AAAAA	408D4031A1AAAAA
230-240	3	30	90	408E1031A1AAAAA	408E6031A1AAAAA	408E2031A1AAAAA	408E4031A1AAAAA
230-240	4	50	135	408F1031A1AAAAA	408F6031A1AAAAA	408F2031A1AAAAA	408F4031A1AAAAA
230-240	5	100	270	308G103AAA	308G603AAAA	308G203AEA	308G403AAAA
230-240	6	200	540	308HH103AAAA	308HH603AAAA	308HH203AEEA	308HH403AAAA ¹
460-480	0	5	18	308BT041A1AAAAA	408B6041A1AAAAA	408B2041A1AAAAA	408B4041A1AAAAA
460-480	1	10	27	308CT041A1AAAAA	408C6041A1AAAAA	408C2041A1AAAAA	408C4041A1AAAAA
460-480	2	25	45	308DT041A1AAAAA	408D6041A1AAAAA	408D2041A1AAAAA	408D4041A1AAAAA
460-480	3	50	90	408E1041A1AAAAA	408E6041A1AAAAA	408E2041A1AAAAA	408E4041A1AAAAA
460-480	4	100	135	408F1041A1AAAAA	408F6041A1AAAAA	408F2041A1AAAAA	408F4041A1AAAAA
460-480	5	200	270	308G104AAA	308G604AAAA	308G204AEA	308G404AAAA
460-480	6	400	540	308HH104AAAA	308HH604AAAA	308HH204AEEA	308HH404AAAA ¹
575-600	0	5	18	308BT051A1AAAAA	408B6051A1AAAAA	408B2051A1AAAAA	408B4051A1AAAAA
575-600	1	10	27	308CT051A1AAAAA	408C6051A1AAAAA	408C2051A1AAAAA	408C4051A1AAAAA
575-600	2	25	45	308DT051A1AAAAA	408D6051A1AAAAA	408D2051A1AAAAA	408D4051A1AAAAA
575-600	3	50	90	408E1051A1AAAAA	408E6051A1AAAAA	408E2051A1AAAAA	408E4051A1AAAAA
575-600	4	100	135	408F1051A1AAAAA	408F6051A1AAAAA	408F2051A1AAAAA	408F4051A1AAAAA
575-600	5	200	270	308G105AAA	308G605AAAA	308G205AEA	308G405AAAA
575-600	6	400	540	308HH105AAAA	308HH605AAAA	308HH205AEEA	308HH405AAAA ¹

¹Painted steel Type 4 enclosure is standard for NEMA Size 6 forms.

- NEMA Size 0-6 starters with 115-120 Volt, 60-Hertz coil for separate control are available at listed prices. To order, replace Digits 8 and 9 of listed Product Numbers with 02.
Example: CR408C2051A1AAAAA with 115-120 Volt, 60-Hertz coil for separate control becomes CR408C2021A1AAAAA.
- Motor full load current should not exceed continuous ampere rating of starter.



NEMA Full Voltage Power Devices

NEMA Rated Full Voltage Starters - Magnetic

CR308, CR408 Magnetic Starters

Nonreversing, Combination, NEMA Type 1, 3R, 12, 4/4X

NEMA Sizes 0-6, Fusible Disconnect Type

600 Volts Maximum 50/60 Hertz

List Price includes a holding interlock, pressure terminals for the line and load connections, plus a 3-leg block type overload relay (manual reset). Fuses not included. All enclosures include external reset. Three heaters should be ordered as separate items. See pages 1-153 to 1-159 for selection

CR308/408 Fusible Disconnect (Class H Fuse Clips)

Voltage (60Hz)	NEMA Size	Maximum Horsepower	Continuous Fuse Clip		NEMA Type 1		NEMA Type 3R		NEMA Type 12		NEMA Type 4/4X	
			Amp Rating	Amp Rating	Product Number CR	List Price GO-10G1	Product Number CR	List Price GO-10G1	Product Number CR	List Price GO-10G1	Product Number CR	List Price GO-10G1
200-208	0	3	18	30	308BT08HA1AAAAA		408B608HA1AAAAA		408B208HA1AAAAA		408B408HA1AAAAA	
200-208	1	7 1/2	27	60	308CT08HB1AAAAA		408C608HB1AAAAA		408C208HB1AAAAA		408C408HB1AAAAA	
200-208	2	10	45	100	308DT08HC1AAAAA		408D608HC1AAAAA		408D208HC1AAAAA		408D408HC1AAAAA	
200-208	3	25	90	200 ¹	408E108HD1AAAAA		408E608HD1AAAAA		408E208HD1AAAAA		408E408HD1AAAAA	
200-208	4	40	135	400 ¹	408F108HE1AAAAA		408F608HE1AAAAA		408F208HE1AAAAA		408F408HE1AAAAA	
200-208	5	75	270	400 ¹	308G123BAA		308G623BAAA		308G223BEA		308G423BAAA	
230-240	0	3	18	30	308BT03HA1AAAAA		408B603HA1AAAAA		408B203HA1AAAAA		408B403HA1AAAAA	
230-240	1	7 1/2	27	60	308CT03HB1AAAAA		408C603HB1AAAAA		408C203HB1AAAAA		408C403HB1AAAAA	
230-240	2	15	45	100	308DT03HC1AAAAA		408D603HC1AAAAA		408D203HC1AAAAA		408D403HC1AAAAA	
230-240	3	30	90	200 ¹	408E103HD1AAAAA		408E603HD1AAAAA		408E203HD1AAAAA		408E403HD1AAAAA	
230-240	4	50	135	400 ¹	408F103HE1AAAAA		408F603HE1AAAAA		408F203HE1AAAAA		408F403HE1AAAAA	
230-240	5	100	270	400 ¹	308G103BAA		308G603BAAA		308G203BEA		308G403BAAA	
460-480	0	5	18	30	308BT04H31AAAAA		408B604H31AAAAA		408B204H31AAAAA		408B404H31AAAAA	
460-480	1	7 1/2	27	30	308CT04H31AAAAA		408C604H31AAAAA		408C204H31AAAAA		408C404H31AAAAA	
460-480	1	10	27	60	308CT04H61AAAAA		408C604H61AAAAA		408C204H61AAAAA		408C404H61AAAAA	
460-480	2	15	45	60	308DT04H61AAAAA		408D604H61AAAAA		408D204H61AAAAA		408D404H61AAAAA	
460-480	2	25	45	100	308DT04H11AAAAA ¹		408D604H11AAAAA		408D204H11AAAAA		408D404H11AAAAA	
460-480	3	30	90	100	408E104H11AAAAA		408E604H11AAAAA		408E204H11AAAAA		408E404H11AAAAA	
460-480	3	50	90	200 ¹	408E104H21AAAAA		408E604H21AAAAA		408E204H21AAAAA		408E404H21AAAAA	
460-480	4	60	135	200 ¹	408F104H21AAAAA		408F604H21AAAAA		408F204H21AAAAA		408F404H21AAAAA	
460-480	4	100	135	400 ¹	408F104H41AAAAA		408F604H41AAAAA		408F204H41AAAAA		408F404H41AAAAA	
575-600	0	5	18	30	308BT05H31AAAAA		408B605H31AAAAA		408B205H31AAAAA		408B405H31AAAAA	
575-600	1	10	27	30	308CT05H31AAAAA		408C605H31AAAAA		408C205H31AAAAA		408C405H31AAAAA	
575-600	2	20	45	60	308DT05H61AAAAA		408D605H61AAAAA		408D205H61AAAAA		408D405H61AAAAA	
575-600	2	25	45	100	308DT05H11AAAAA ¹		408D605H11AAAAA		408D205H11AAAAA		408D405H11AAAAA	
575-600	3	30	90	100	408E105H11AAAAA		408E605H11AAAAA		408E205H11AAAAA		408E405H11AAAAA	
575-600	3	50	90	200 ¹	408E105H21AAAAA		408E605H21AAAAA		408E205H21AAAAA		408E405H21AAAAA	
575-600	4	60	135	200 ¹	408F105H21AAAAA		408F605H21AAAAA		408F205H21AAAAA		408F405H21AAAAA	
575-600	4	100	135	400 ¹	408F105H41AAAAA		408F605H41AAAAA		408F205H41AAAAA		408F405H41AAAAA	

¹Oversized enclosure provided as standard.

- NEMA Size 0-6 starters with 115-120Volt, 60-Hertz coil for separate control are available at listed prices. To order, replace Digits 8 and 9 of listed Product Numbers with 02.
Example: CR408E108HD1AAAAA with 115-120 Volt, 60-Hertz coil for separate control becomes CR408E102HD1AAAAA.
- For ordinary starting duty only
- Motor full load current should not exceed continuous ampere rating of starter.



NEMA Full Voltage Power Devices

NEMA Rated Full Voltage Starters - Magnetic

CR308, CR408 Magnetic Starters

Nonreversing, Combination, NEMA Type 1, 3R, 12, 4/4X

NEMA Sizes 0-6, Fusible Disconnect Type

600 Volts Maximum 50/60 Hertz

List Price includes a holding interlock, pressure terminals for the line and load connections, plus a 3-leg block type overload relay (manual reset). Fuses not included. All enclosures include external reset. Three heaters should be ordered as separate items. See pages 1-153 to 1-159 for selection.

CR308/408 Fusible Disconnect (Class R Fuse Clips)

Voltage (60Hz)	NEMA Size	Maximum Horsepower	Continuous Fuse Clip		NEMA Type 1		NEMA Type 3R		NEMA Type 12		NEMA Type 4/4X	
			Amp Rating	Amp Rating	Product Number CR	List Price GO-10G1	Product Number CR	List Price GO-10G1	Product Number CR	List Price GO-10G1	Product Number CR	List Price GO-10G1
200-208	0	3	18	30	308BT08RA1AAAAA		408B608RA1AAAAA		408B208RA1AAAAA		408B408RA1AAAAA	
200-208	1	5	27	30	308CT08RA1AAAAA		408C608RA1AAAAA		408C208RA1AAAAA		408C408RA1AAAAA	
200-208	1	7 1/2	27	60	308CT08RB1AAAAA		408C608RB1AAAAA		408C208RB1AAAAA		408C408RB1AAAAA	
200-208	2	10	45	60	308DT08RB1AAAAA		408D608RB1AAAAA		408D208RB1AAAAA		408D408RB1AAAAA	
200-208	3	20	90	100	408E108RC1AAAAA		408E608RC1AAAAA		408E208RC1AAAAA		408E408RC1AAAAA	
200-208	3	25	90	200 ¹	408E108RD1AAAAA		408E608RD1AAAAA		408E208RD1AAAAA		408E408RD1AAAAA	
200-208	4	40	135	200 ¹	408F108RD1AAAAA		408F608RD1AAAAA		408F208RD1AAAAA		408F408RD1AAAAA	
200-208	5	-	-	-	-		-		-		-	
200-208	6	150	540	600	308HH123PAAA		308HH623PAAA		308HH223PAEA		308HH423PAAA ²	
230-240	0	3	18	30	308BT03RA1AAAAA		408B603RA1AAAAA		408B203RA1AAAAA		408B403RA1AAAAA	
230-240	1	5	27	30	308CT03RA1AAAAA		408C603RA1AAAAA		408C203RA1AAAAA		408C403RA1AAAAA	
230-240	1	7 1/2	27	60	308CT03RB1AAAAA		408C603RB1AAAAA		408C203RB1AAAAA		408C403RB1AAAAA	
230-240	2	15	45	60	308DT03RB1AAAAA		408D603RB1AAAAA		408D203RB1AAAAA		408D403RB1AAAAA	
230-240	3	25	90	100	408E103RC1AAAAA		408E603RC1AAAAA		408E203RC1AAAAA		408E403RC1AAAAA	
230-240	3	30	90	200 ¹	408E103RD1AAAAA		408E603RD1AAAAA		408E203RD1AAAAA		408E403RD1AAAAA	
230-240	4	50	135	200 ¹	408F103RD1AAAAA		408F603RD1AAAAA		408F203RD1AAAAA		408F403RD1AAAAA	
230-240	5	-	-	-	-		-		-		-	
230-240	6	200	540	600	308HH103PAAA		308HH603PAAA		308HH203PAEA		308HH403PAAA ²	
460-480	0	5	18	30	308BT04R31AAAAA		408B604R31AAAAA		408B204R31AAAAA		408B404R31AAAAA	
460-480	1	10	27	30	308CT04R31AAAAA		408C604R31AAAAA		408C204R31AAAAA		408C404R31AAAAA	
460-480	2	25	45	60	308DT04R61AAAAA		408D604R61AAAAA		408D204R61AAAAA		408D404R61AAAAA	
460-480	3	50	90	100	408E104R11AAAAA		408E604R11AAAAA		408E204R11AAAAA		408E404R11AAAAA	
460-480	4	100	135	200 ¹	408F104R21AAAAA		408F604R21AAAAA		408F204R21AAAAA		408F404R21AAAAA	
460-480	5	200	270	400	308G104FAA		308G604FAAA		308G204FEA		308G404FAAA	
460-480	6	400	540	600	308HH104PAAA		308HH604PAAA		308HH204PAEA		308HH404PAAA ²	
575-600	0	5	18	30	308BT05R31AAAAA		408B605R31AAAAA		408B205R31AAAAA		408B405R31AAAAA	
575-600	1	10	27	30	308CT05R31AAAAA		408C605R31AAAAA		408C205R31AAAAA		408C405R31AAAAA	
575-600	2	15	45	30	308DT05R31AAAAA		408D605R31AAAAA		408D205R31AAAAA		408D405R31AAAAA	
575-600	2	25	45	60	308DT05R61AAAAA		408D605R61AAAAA		408D205R61AAAAA		408D405R61AAAAA	
575-600	3	30	90	60	408E105R61AAAAA		408E605R61AAAAA		408E205R61AAAAA		408E405R61AAAAA	
575-600	3	50	90	100	408E105R11AAAAA		408E605R11AAAAA		408E205R11AAAAA		408E405R11AAAAA	
575-600	4	60	135	100 ¹	408F105R11AAAAA		408F605R11AAAAA		408F205R11AAAAA		408F405R11AAAAA	
575-600	4	100	135	200 ¹	408F105R21AAAAA		408F605R21AAAAA		408F205R21AAAAA		408F405R21AAAAA	
575-600	5	200	270	400	308G105FAA		308G605FAAA		308G205FEA		308G405FAAA	
575-600	6	400	540	600	308HH105PAAA		308HH605PAAA		308HH205PAEA		308HH405PAAA ²	

¹Oversized enclosure provided as standard.

²Painted steel Type 4 enclosure is standard for NEMA Size 6 forms.

• NEMA Size 0-6 starters with 115-120Volt, 60-Hertz coil for separate control are available at listed prices. To order, replace Digits 8 and 9 of listed Product Numbers with 02. Example: CR408D604R61AAAAA with 115-120 Volt, 60-Hertz coil for separate control becomes CR408D602R61AAAAA.

- For ordinary starting duty only
- Motor full load current should not exceed continuous ampere rating of starter.
- HP rating is based on dual element fuses.



NEMA Full Voltage Power Devices

NEMA Rated Full Voltage Starters - Magnetic

CR308 Magnetic Starters

Nonreversing, Combination, Nonfusible and Fusible Disconnect Type

Part Number Configuration

Valid for NEMA sizes 0-2, Type 1 Standard Enclosure

Digits: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

C	R																
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Steps: Step 1 Step 2 Step 3 Step 4 Step 5 Step 6 Step 7 Step 8 Step 9

To configure the part number, use the tables below to fill in the digit boxes with the appropriate code. Add list price from each step to arrive at total list for price for starter.

Step 1 (Digits 1-7) Select NEMA Size and Enclosure

NEMA Size	NEMA Type 1	
	Standard Enclosure	
	CR	
0	308BT	
1	308CT	
2	308DT	

Note: All enclosures include external overload reset buttons.

Step 2 (Digits 8, 9) Select Control Voltage

Control Circuit Voltage & CPT	No CPT	List Price GO-10G1	Control Fuses, No CPT	Standard Size CPT	NEMA Size			Standard Size CPT + 100VA	NEMA Size		
					1	2	0		1	2	
120V w/ Surge Protector (SP)	01	\$54.00	F1	-			-				
120V	02	\$0.00	F2	-			-				
240V	03	\$0.00	F3	-			-				
480V	04	\$0.00	F4	-			-				
600V	05	\$0.00	F5	-			-				
208V	08	\$0.00	F8	-			-				
24V	09	\$0.00	-	-			-				
240V/120V w/CPT	-		-	93			13				
480V/120V w/CPT	-		-	94			14				
600V/120V w/CPT	-		-	95			15				
208V/120V w/CPT	-		-	98			18				
240V/120V w/CPT & SP	-		-	33			53				
480V/120V w/CPT & SP	-		-	34			54				
600V/120V w/CPT & SP	-		-	35			55				
208V/120V w/CPT & SP	-		-	38			58				
240V/24V w/CPT	-		-	S3			A3				
480V/24V w/CPT	-		-	S4			A4				
600V/24V w/CPT	-		-	S5			A5				
208V/24V w/CPT	-		-	S8			A8				

Note: CPT includes 2 primary fuses and 1 secondary fuse.

Step 3 (Digits 10, 11) Select Protective Device

Disconnect without Fuse Clips

NEMA Size	Code	List Price GO-10G1
All	1A	\$0.00

Disconnect with Class H Fuse Clips - For use with Non-Time Delay/Single Element Class H Fuses

NEMA Size	200-208V			230-240V			460-480V			575-600V		
	Max Hp	Fuse Clip (Amps)	Code	Max Hp	Fuse Clip (Amps)	Code	Max Hp	Fuse Clip (Amps)	Code	Max Hp	Fuse Clip (Amps)	Code
0	3	30	HA	3	30	HA	5	30	H3	5	30	H3
1	7 1/2	60	HB	7 1/2	60	HB	7 1/2	30	H3	10	30	H3
							10	60	H6		60	H6
2	10	100	HC	15	100	HC	15	60	H6	20	60	H6
							25	100	H1 ¹	25	100	H1 ¹

¹Oversized enclosure included as standard.



NEMA Full Voltage Power Devices

NEMA Rated Full Voltage Starters - Magnetic

CR308 Magnetic Starters

Nonreversing, Combination, Nonfusible and Fusible Disconnect Type
Part Number Configuration
Valid for NEMA sizes 0-2, Type 1 Standard Enclosure

Step 3 (Digits 10, 11) Select Protective Device (continued)

Disconnect with Class R Fuse Clips - For use with Time Delay/Dual Element Class RK1/RK5 Fuses

NEMA Size	200-208V			230-240V			460-480V			575-600V		
	Max Hp	Fuse Clip (Amps)	Code	Max Hp	Fuse Clip (Amps)	Code	Max Hp	Fuse Clip (Amps)	Code	Max Hp	Fuse Clip (Amps)	Code
0	3	30	RA	3	30	RA	5	30	R3	5	30	R3
1	5	30	RA	5	30	RA	10	30	R3	10	30	R3
	7 1/2	60	RB	7 1/2	60	RB						
2	10	60	RB	15	60	RB	25	60	R6	15	30	R3

Disconnect with Class J Fuse Clips - For use with Time Delay/Dual Element Class J Fuses

NEMA Size	200-208V				230-240V			460-480V				575-600V		
	Max Hp	Fuse Clip (Amps)	Code	List Price GO-10G1	Max Hp	Fuse Clip (Amps)	Code	Max Hp	Fuse Clip (Amps)	Code	List Price GO-10G1	Max Hp	Fuse Clip (Amps)	Code
0	3	30	J3		3	30	J3	5	30	J3		5	30	J3
1	5	30	J3		5	30	J3	10	30	J3		10	30	J3
	7 1/2	60	J6		7 1/2	60	J6							
2	10	60	J6		15	60	J6	25	60	J6		15	30	J3
											25			

Step 4 (Digit 12) Select Overload Relay

Overload Relay	Code
Thermal Bi-Metallic Non-compensated (1NC)	1
Thermal Bi-Metallic Non-compensated (1NO-1NC)	2
Thermal Bi-Metallic Ambient Compensated (1NC)	3
Thermal Bi-Metallic Ambient Compensated (1NO-1NC)	4
Solid State Overload (1NO-1NC)	(#)

(#) Select Code for Solid State Overload amp rating from Standard or Optional Ranges table below.

Solid State Overload Relay - Standard Range

NEMA Size	OL Range	200-208V		230-240V		460-480V		575-600V	
		Max Hp	Code	Max Hp	Code	Max Hp	Code	Max Hp	Code
0	0.8 - 1.7					3/4	D	1	D
	1.6 - 3.4	1/2	E	3/4	E	2	E	2	E
	3.2 - 6.8	1	F	2	F	3	F	5	F
	6.5 - 13.5	3	G	3	G	5	G		
1	6.5 - 13.5					7 1/2	G	10	G
	13 - 27	7 1/2	H	7 1/2	H	10	H		
2	13 - 27					20	H	25	H
	25 - 50	10	J	15	J	25	J		

Optional Ranges

OL Amp Range	NEMA SIZE	
	0 & 1	2
0.4 - 0.85	C	-
0.8 - 1.7	D	-
1.6 - 3.4	E	-
3.2 - 6.8	F	-
6.5 - 13.5	G	G
13 - 27	H	H
25 - 50	-	J
17 - 35	-	-
35 - 70	-	-
65 - 135	-	-

Step 5 (Digit 13) Select Auxiliary Contacts

Aux Contacts	Code
None	A
1NO	B
1NC	C
1NO-1NC	D
2NO	E
2NC	F
2NO-1NC	G
1NO-2NC	H
3NO	J
3NC	K
4NO	L ²
4NC	M ²
2NO-2NC	N ²
3NO-1NC	P ²
1NO-3NC	R ²

²Exceeds maximum number of contacts for some pilot light selections. See Step 8 (Digit 16) Table, page 1-36.



NEMA Full Voltage Power Devices

NEMA Rated Full Voltage Starters - Magnetic

CR308 Magnetic Starters

Nonreversing, Combination, Nonfusible and Fusible Disconnect Type

Part Number Configuration

Valid for NEMA sizes 0-2, Type 1 Standard Enclosure

Step 6 (Digit 14) Select Monitoring Options

Device	Code
None ³	A

³Phase Failure Relay is not available for CR308 series standard enclosures.
If this is required for your application, use CR408 series oversized enclosure.
See page 1-37.

Step 7 (Digit 15) Select Push Button/Selector Switch

Push Button/Selector Switch - Heavy Duty	Code
None	A
Start/Stop Push Button	J
Hand-Off-Auto (HOA) Selector Switch	L
Off-On Selector Switch	M
HOA SS & Start Push Button	S
Keyed HOA SS, Key Removal Center Pos.	N

Step 8 (Digit 16) Select Pilot Device

Pilot Light (Heavy Duty)		
Type	Color - Functionality	Code
None	Red - Across Coil	A
	Green - Across Coil	J
	Red - Thru NO Aux Contact	K
	Green - Thru NC Aux Contact	M ⁴
	Red - Thru NO Aux Contact & Green - Thru NC Aux Contact	N ⁴
	Red - Across Coil & Green - Thru NC Aux Contact	U ⁵
Standard Lights	Red - Across Coil & Green - Thru NC Aux Contact	T ⁴
	Red - Across Coil & Green - Thru NC Aux Contact & Unwired Amber	X ⁴
	Red - Across Coil	1
	Green - Across Coil	2
	Red - Thru NO Aux Contact	3 ⁴
	Green - Thru NC Aux Contact	4 ⁴
LED Lights	Red - Thru NO Aux Contact & Green - Thru NC Aux Contact	5 ⁵
	Red - Across Coil & Green - Thru NC Aux Contact	6 ⁴
	Red - Across Coil & Green - Thru NC Aux Contact & Unwired Amber	7 ⁴
	Red - Across Coil	R
	Green - Across Coil	S
	Red - Thru NO Aux Contact	C ⁴
Push-To-Test Lights	Green - Thru NC Aux Contact	D ⁴
	Red - Thru NO Aux Contact & Green - Thru NC Aux Contact	E ⁵
	Red - Across Coil & Green - Thru NC Aux Contact	V ⁴
	Red - Across Coil & Green - Thru NC Aux Contact & Unwired Amber	Y ⁴

⁴Maximum of 3 Aux contacts may be added to Sizes 0 & 1.

⁵Maximum of 2 Aux contacts may be added to Sizes 0 & 1. Maximum of 3 Aux contacts may be added to Sizes 2-4.

Note: Auxiliary contacts wired as part of pilot light selection are in addition to the auxiliary contacts selected from Step 5 (Digit 13) Table, page 1-35, which are for customer/field connections.

Step 9 (Digit 17) Select Control Options

Device	Code
None	A

GENERAL NOTE:

On NEMA Size 3 & 4 starters, if selecting factory installed and wired operator devices (Push Buttons, Selector Switches, and/or Pilot Lights) then control circuit fusing, a control power transformer, or 120V separate sourced control is required when the protective device is rated greater than 100 Amps.



NEMA Full Voltage Power Devices

NEMA Rated Full Voltage Starters - Magnetic

CR408 Magnetic Starters

Nonreversing, Combination, Nonfusible and Fusible Disconnect Type

Part Number Configuration

Valid for NEMA sizes 0-4

Digits: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

C	R																
---	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Steps: Step 1 Step 2 Step 3 Step 4 Step 5 Step 6 Step 7 Step 8 Step 9

To configure the part number, use the tables below to fill in the digit boxes with the appropriate code. Add list price from each step to arrive at total list for price for starter.

Step 1 (Digits 1-7) Select NEMA Size and Enclosure

NEMA Size	NEMA Type 1			NEMA Type 3R		NEMA Type 12		NEMA Type 4/4X			
	Standard Enclosure CR	List Price GO-10G1	Oversized Enclosure CR	Standard Enclosure CR	Oversized Enclosure CR	Standard Enclosure CR	Oversized Enclosure CR	Standard Enclosure CR	List Price GO-10G1	Oversized Enclosure CR	List Price GO-10G1
0	Use CR308		408B5	408B6	408BR	408B2	408B7				
1	Use CR308		408C5	408C6	408CR	408C2	408C7				
2	Use CR308		408D5	408D6	408DR	408D2	408D7				
3	408E1		408E5 ¹	408E6	408ER ¹	408E2	408E7 ¹				
4 ²	408F1			408F6		408F2					

Note: All enclosures include external overload reset buttons. NEMA 4 enclosures are stainless steel.

¹Oversized enclosure provided as standard with 200Amp Fusible Disconnect.

²Oversized enclosure provided as standard with any NEMA Size 4 Fusible/Nonfusible.

Step 2 (Digits 8, 9) Select Control Voltage (No CPT and Standard Size CPT)

Control Circuit Voltage & CPT	No CPT	Control Fuses, No CPT	Standard Size CPT	NEMA Size				
				0 List Price GO-10G1	1 List Price GO-10G1	2 List Price GO-10G1	3 List Price GO-10G1	4 List Price GO-10G1
120V w/ Surge Protector (SP)	01	F1	-					
120V	02	F2	-					
240V	03	F3	-					
480V	04	F4	-					
600V	05	F5	-					
208V	08	F8	-					
24V ³	09	-	-					
240V/120V w/CPT	-	-	93					
480V/120V w/CPT	-	-	94					
600V/120V w/CPT	-	-	95					
208V/120V w/CPT	-	-	98					
240V/120V w/CPT & SP	-	-	33					
480V/120V w/CPT & SP	-	-	34					
600V/120V w/CPT & SP	-	-	35					
208V/120V w/CPT & SP	-	-	38					
240V/24V w/CPT ³	-	-	S3					
480V/24V w/CPT ³	-	-	S4					
600V/24V w/CPT ³	-	-	S5					
208V/24V w/CPT ³	-	-	S8					

Note: CPT includes 2 primary fuses and 1 secondary fuse.

³24V coils not available for NEMA size 3 & 4.



NEMA Full Voltage Power Devices

NEMA Rated Full Voltage Starters - Magnetic

CR408 Magnetic Starters

Nonreversing, Combination, Nonfusible and Fusible Disconnect Type

Part Number Configuration

Valid for NEMA sizes 0-4

Step 2 (Digits 8, 9) Select Control Voltage (Extra Capacity CPT + 100VA and 200VA)

Control Circuit Voltage & CPT	Standard Size CPT + 100VA	NEMA Size					Standard Size CPT + 200VA	NEMA Size				
		0 List Price GO-10G1	1 List Price GO-10G1	2 List Price GO-10G1	3 List Price GO-10G1	4 List Price GO-10G1		0 List Price ⁴ GO-10G1	1 List Price ⁴ GO-10G1	2 List Price ⁴ GO-10G1	3 List Price GO-10G1	4 List Price GO-10G1
120V w/ Surge Protector (SP)	-						-					
120V	-						-					
240V	-						-					
480V	-						-					
600V	-						-					
208V	-						-					
24V ³	-						-					
240V/120V w/CPT	13						23					
480V/120V w/CPT	14						24					
600V/120V w/CPT	15						25					
208V/120V w/CPT	18						28					
240V/120V w/CPT & SP	53						63					
480V/120V w/CPT & SP	54						64					
600V/120V w/CPT & SP	55						65					
208V/120V w/CPT & SP	58						68					
240V/24V w/CPT ³	A3						B3					
480V/24V w/CPT ³	A4						B4					
600V/24V w/CPT ³	A5						B5					
208V/24V w/CPT ³	A8						B8					

Note: CPT includes 2 primary fuses and 1 secondary fuse.

³24V coils not available for NEMA size 3 & 4.

⁴Requires Oversized Enclosure for NEMA sizes 0-2. Select proper NEMA size and enclosure type from Step 1 (Digits 1-7) Table, page 1-37, and adjust price accordingly.

Step 3 (Digits 10, 11) Select Protective Device

Disconnect without Fuse Clips

NEMA Size	Code	List Price GO-10G1
All	1A ²	\$0.00

Disconnect with Class H Fuse Clips - For use with Non-Time Delay/Single Element Class H Fuses

NEMA Size	200-208V			230-240V			460-480V			575-600V		
	Max Hp	Fuse Clip (Amps)	Code	Max Hp	Fuse Clip (Amps)	Code	Max Hp	Fuse Clip (Amps)	Code	Max Hp	Fuse Clip (Amps)	Code
0	3	30	HA	3	30	HA	5	30	H3	5	30	H3
1	7 1/2	60	HB	7 1/2	60	HB	7 1/2	30	H3	10	30	H3
							10	60	H6		60	H6
2	10	100	HC	15	100	HC	15	60	H6	20	60	H6
							25	100	H1	25	100	H1
3 ¹	25	200	HD	30	200	HD	30	100	H1	30	100	H1
							50	200	H2	50	200	H2
4 ²	40	400	HE	50	400	HE	60	200	H2	60	200	H2
							100	400	H4	100	400	H4

¹Oversized enclosure provided as standard with 200Amp Fusible Disconnect

²Oversized enclosure provided as standard with any NEMA Size 4 Fusible/Nonfusible

Disconnect with Class R Fuse Clips - For use with Time Delay/Dual Element Class RK1/RK5 Fuses

NEMA Size	200-208V				230-240V				460-480V				575-600V			
	Max Hp	Fuse Clip (Amps)	Code	List Price GO-10G1	Max Hp	Fuse Clip (Amps)	Code	List Price GO-10G1	Max Hp	Fuse Clip (Amps)	Code	List Price GO-10G1	Max Hp	Fuse Clip (Amps)	Code	List Price GO-10G1
0	3	30	RA		3	30	RA		5	30	R3		5	30	R3	
1	5	30	RA		5	30	RA		10	30	R3		10	30	R3	
	7 1/2	60	RB		7 1/2	60	RB									
2	10	60	RB		15	60	RB			30	R3		15	30	R3	
									25	60	R6		25	60	R6	
3 ¹	20	100	RC		25	100	RC		60	R6		30	60	R6		
	25	200	RD		30	200	RD		50	100	R1		50	100	R1	
4 ²	40	200	RD		50	200	RD		100	100	R1		60	100	R1	
									100	200	R2		100	200	R2	

¹Oversized enclosure provided as standard with 200Amp Fusible Disconnect

²Oversized enclosure provided as standard with any NEMA Size 4 Fusible/Nonfusible



NEMA Full Voltage Power Devices

NEMA Rated Full Voltage Starters - Magnetic

CR408 Magnetic Starters

Nonreversing, Combination, Nonfusible and Fusible Disconnect Type
Part Number Configuration
Valid for NEMA sizes 0-4

Step 3 (Digits 10, 11) Select Protective Device (continued)

Disconnect with Class J Fuse Clips - For use with Time Delay/Dual Element Class J Fuses

NEMA Size	200-208V			230-240V			460-480V			575-600V		
	Max Hp	Fuse Clip (Amps)	Code	Max Hp	Fuse Clip (Amps)	Code	Max Hp	Fuse Clip (Amps)	Code	Max Hp	Fuse Clip (Amps)	Code
0	3	30	J3	3	30	J3	5	30	J3	5	30	J3
1	5	30	J3	5	30	J3	10	30	J3	10	30	J3
	7 1/2	60	J6	7 1/2	60	J6						
2	10	60	J6	15	60	J6	25	60	J6	15	30	J3
	20	100	J1									
3 ¹	25	200	J2	30	200	J2	50	100	J1	30	60	J6
	40	200	J2	50	200	J2						
4 ²							100	200	J2	100	200	J2

¹Oversized enclosure provided as standard with 200Amp Fusible Disconnect

²Oversized enclosure provided as standard with any NEMA Size 4 Fusible/Nonfusible

Step 4 (Digit 12) Select Overload Relay

Overload Relay	Code
Thermal Bi-Metallic Non-compensated (1NC)	1
Thermal Bi-Metallic Non-compensated (1NO-1NC)	2
Thermal Bi-Metallic Ambient Compensated (1NC)	3
Thermal Bi-Metallic Ambient Compensated (1NO-1NC)	4
Solid State Overload (1NO-1NC)	(#)

(#) Select Code for Solid State Overload amp rating from Standard or Optional Ranges table below.

Solid State Overload Relay - Standard Range

NEMA Size	OL Range	200-208V		230-240V		460-480V		575-600V	
		Max Hp	Code	Max Hp	Code	Max Hp	Code	Max Hp	Code
0	0.8 - 1.7					3/4	D	1	D
	1.6 - 3.4	1/2	E	3/4	E	2	E	2	E
	3.2 - 6.8	1	F	2	F	3	F	5	F
	6.5 - 13.5	3	G	3	G	5	G		
1	6.5 - 13.5					7 1/2	G	10	G
	13 - 27	7 1/2	H	7 1/2	H	10	H		
2	13 - 27					20	H	25	H
	25 - 50	10	J	15	J	25	J		
3	17 - 35							30	K
	35 - 70	20	L	25	L	50	L	50	L
	65 - 135	25	M	30	M				
4	65 - 135	40	M	50	M	100	M	100	M

Optional Ranges

OL Amp Range	NEMA SIZE		
	0 & 1	2	3 & 4
0.4 - 0.85	C	-	-
0.8 - 1.7	D	-	-
1.6 - 3.4	E	-	-
3.2 - 6.8	F	-	-
6.5 - 13.5	G	G	-
13 - 27	H	H	-
25 - 50	-	J	-
17 - 35	-	-	K
35 - 70	-	-	L
65 - 135	-	-	M

Step 5 (Digit 13) Select Auxiliary Contacts

Aux Contacts	Code
None	A
1NO	B
1NC	C
1NO-1NC	D
2NO	E
2NC	F
2NO-1NC	G
1NO-2NC	H
3NO	J
3NC	K
4NO	L ⁵
4NC	M ⁵
2NO-2NC	N ⁵
3NO-1NC	P ⁵
1NO-3NC	R ⁵

⁵Exceeds maximum number of contacts for some pilot light selections. See Step 8 (Digit 16) Table, page 1-40.



NEMA Full Voltage Power Devices

NEMA Rated Full Voltage Starters - Magnetic

CR408 Magnetic Starters

Nonreversing, Combination, Nonfusible and Fusible Disconnect Type

Part Number Configuration

Valid for NEMA sizes 0-4

Step 6 (Digit 14) Select Monitoring Options

Device	Code	List Price GO-10G1					
		NEMA Size 0-2		NEMA Size 3		NEMA Size 4	
		Type 1, 3R, & 12	Type 4/4X	Type 1, 3R, & 12	Type 4/4X	Type 1, 3R, & 12	Type 4/4X
None	A						
Phase Failure Relay with Undervoltage Protection (panel mounted) - 190-480V (PFR w/UV)	C ^{2,7}						
Phase Failure Relay with Undervoltage Protection (panel mounted) - 575V (PFR w/UV)	D ^{2,7}						
Phase Failure Relay - 208V (PFR)	E ^{4,7}						
Phase Failure Relay - 240V (PFR)	F ^{4,7}						
Phase Failure Relay - 480V (PFR)	G ^{4,7}						
Phase Failure Relay - 575V (PFR)	H ^{4,7}						
Elapsed Time Meter (120V/60Hz) Wired Across Coil (ETM)	I ^{2,6}						
ETM + PFR w/UV (190-480V)	L ^{2,6,7}						
ETM + PFR w/UV (575V)	N ^{2,6,7}						
ETM + PFR (208V)	P ^{2,4,6,7}						
ETM + PFR (240V)	Q ^{2,4,6,7}						
ETM + PFR (480V)	R ^{2,4,6,7}						
ETM + PFR (575V)	S ^{2,4,6,7}						

²Requires Oversized Enclosure for NEMA sizes 0-2. Select proper NEMA size and enclosure type from Step 1 (Digits 1-7) Table, page 1-37, and adjust price accordingly.

⁴Available for Type 1 Enclosure only.

⁶Requires 120V Control Circuit Voltage or CPT w/ 120V Secondary.

⁷Requires Oversized Enclosure for phase failure relay.

Step 7 (Digit 15) Select Push Button/Selector Switch

Push Button/Selector Switch - Heavy Duty	Code
None	A
Start/Stop Push Button	J
Hand-Off-Auto (HOA) Selector Switch	L
Off-On Selector Switch	M
HOA SS & Start Push Button	S
Keyed HOA SS, Key Removal Center Pos.	N

Step 8 (Digit 16) Select Pilot Device

Pilot Light (Heavy Duty CR104P Style)		
Type	Color - Functionality	Code
None	Red - Across Coil	J
	Green - Across Coil	K
	Red - Thru NO Aux Contact	M ⁹
	Green - Thru NC Aux Contact	N ⁹
	Red - Thru NO Aux Contact & Green - Thru NC Aux Contact	U ¹⁰
	Red - Across Coil & Green - Thru NC Aux Contact	T ⁹
	Red - Across Coil & Green - Thru NC Aux Contact & Unwired Amber	X ⁹
Standard Lights	Red - Across Coil	1
	Green - Across Coil	2
	Red - Thru NO Aux Contact	3 ⁹
	Green - Thru NC Aux Contact	4 ⁹
	Red - Thru NO Aux Contact & Green - Thru NC Aux Contact	5 ¹⁰
	Red - Across Coil & Green - Thru NC Aux Contact	6 ⁹
	Red - Across Coil & Green - Thru NC Aux Contact & Unwired Amber	7 ⁹
LED Lights	Red - Across Coil	R
	Green - Across Coil	S
	Red - Thru NO Aux Contact	C ⁹
	Green - Thru NC Aux Contact	D ⁹
	Red - Thru NO Aux Contact & Green - Thru NC Aux Contact	E ¹⁰
	Red - Across Coil & Green - Thru NC Aux Contact	V ⁹
	Red - Across Coil & Green - Thru NC Aux Contact & Unwired Amber	V ⁹

⁹Maximum of 3 Aux contacts may be added to Sizes 0 & 1.

¹⁰Maximum of 2 Aux contacts may be added to Sizes 0 & 1. Maximum of 3 Aux contacts may be added to Sizes 2-4.

Note: Auxiliary contacts wired as part of pilot light selection are in addition to the auxiliary contacts selected from Step 5 (Digit 13) Table, page 1-39, which are for customer/field connections.



NEMA Full Voltage Power Devices

NEMA Rated Full Voltage Starters - Magnetic

CR408 Magnetic Starters

Nonreversing, Combination, Nonfusible and Fusible Disconnect Type

Part Number Configuration

Valid for NEMA sizes 0-4

Step 9 (Digit 17) Select Control Options

Device	Code	List Price GO-10G1					
		NEMA Size 0-2		NEMA Size 3		NEMA Size 4	
		Type 1, 3R, & 12	Type 4/4X	Type 1, 3R, & 12	Type 4/4X	Type 1, 3R, & 12	Type 4/4X
None	A						
1 Relay, 2NO-2NC, 24/120V Coil - unwired	B ^{4,11}						
2 Relays, 24/120V Coil - unwired	C ^{4,11}						
DIN Rail - for Customer Use	D ⁴						
12 Point Terminal Strip - unwired (12 PT Strip)	E ⁴						
Space Heater w/ NC Contact	H ^{4,12}						
1 Relay + 12 PT Strip	J ^{4,11}						
2 Relays + 12 PT Strip	K ^{4,11}						
DIN Rail + 12 PT Strip + Space Heater	L ^{4,12}						
2 Relays + 12 PT Strip + Space Heater	M ^{4,11,12}						
Time Delay ON Relay, 24/120V Coil - unwired (TD)	N ^{4,11}						
Time Delay OFF Relay, 24/120V Coil - unwired (TD)	P ^{4,11}						
12 PT Strip + TD ON	R ^{4,11}						
12 PT Strip + TD OFF	S ^{4,11}						
12 PT Strip + Space Heater + TD ON	T ^{4,11,12}						
12 PT Strip + Space Heater + TD OFF	U ^{4,11,12}						

⁴Requires Oversized Enclosure for NEMA sizes 0-2. Select proper NEMA size and enclosure type from Step 1 (Digits 1-7) Table, page 1-37, and adjust price accordingly.

¹¹Relay/Timer coil voltage is equivalent to CPT secondary voltage. Requires minimum 100 extra VA CPT option.

¹²Maximum number of auxiliary contacts shall be reduced by 1.

GENERAL NOTE:

On NEMA Size 3 & 4 starters, if selecting factory installed and wired operator devices (Push Buttons, Selector Switches, and/or Pilot Lights) then control circuit fusing, a control power transformer, or 120V separate sourced control is required when the protective device is rated greater than 100 Amps.

