



# GE NEMA Rated Full Voltage Starters

## CR306, CR386 Nonreversing Magnetic Motor Starters

1600 Horsepower Maximum  
NEMA Sizes 00-9  
600 Volts Maximum  
50/60 Hertz

GE Fastrac™ Program items are printed in red type.

### CR306, CR386 Three-Phase, Three-Pole Forms, NEMA Types Open, 1, 3R, 12 and 4/4X, Three-Leg Protection, 60 Hertz ①

List price includes a holding interlock, pressure terminals for the line and load connections, plus a 3-leg block type overload relay (manual reset).

One NO isolated contact on the overload relay is available as an option at **\$24.00, GO-10G**. To order, add suffix LAA to Catalog

Numbers (Size 00-5) listed in table.

Three heaters should be ordered as separate items. **List Price \$9.00 each, GO-10H**. Packaged in quantities of three; must be ordered in multiples of three. Select heaters by using tables on pages 1-71 to 1-75.

NEMA Size	Continuous Ampere Rating	Maximum Horsepower <sup>②</sup>		Open Type		NEMA Type 1 General-Purpose		NEMA Type 3R Rainproof Sleet-Resistant		NEMA Type 12 <sup>③</sup> Dust-tight, Drip-tight Industrial Use		NEMA Type 4/4X Watertight, Dust-tight (Stainless Steel) <sup>④</sup>	
		Voltage <sup>⑤</sup> (60 Hertz)	Horsepower	Catalog Number CR306	List Price, GO-10G	Catalog Number CR306	List Price, GO-10G	Catalog Number CR306	List Price, GO-10G	Catalog Number CR306	List Price, GO-10G	Catalog Number CR306	List Price, GO-10G
00	9	Separate Control—115-120 V		A002	\$ 162.00	A102	\$ 174.00	Use NEMA Size 0		Use NEMA Size 0		Use NEMA Size 0	
		200-208	1½	A023	162.00	A123	174.00						
		230-240	1½	A003	162.00	A103	174.00						
		460-480	2	A004	162.00	A104	174.00						
		575-600	2	A005	162.00	A105	174.00						
0	18	Separate Control—115-120 V		B002	204.00	B102	216.00	B602	\$ 288.00	B202	\$ 288.00	B402	\$ 426.00
		200-208	3	B023	204.00	B123	216.00	B623	288.00	B223	288.00	B423	426.00
		230-240	3	B003	204.00	B103	216.00	B603	288.00	B203	288.00	B403	426.00
		460-480	5	B004	204.00	B104	216.00	B604	288.00	B204	288.00	B404	426.00
		575-600	5	B005	204.00	B105	216.00	B605	288.00	B205	288.00	B405	426.00
1	27	Separate Control—115-120 V		C002	234.00	C102	246.00	C602	318.00	C202	318.00	C402	462.00
		200-208	7½	C023	234.00	C123	246.00	C623	318.00	C223	318.00	C423	462.00
		230-240	7½	C003	234.00	C103	246.00	C603	318.00	C203	318.00	C403	462.00
		460-480	10	C004	234.00	C104	246.00	C604	318.00	C204	318.00	C404	462.00
		575-600	10	C005	234.00	C105	246.00	C605	318.00	C205	318.00	C405	462.00
2	45	Separate Control—115-120 V		D002	426.00	D102	486.00	D602	618.00	D202	618.00	D402	918.00
		200-208	10	D023	426.00	D123	486.00	D623	618.00	D223	618.00	D423	918.00
		230-240	15	D003	426.00	D103	486.00	D603	618.00	D203	618.00	D403	918.00
		460-480	25	D004	426.00	D104	486.00	D604	618.00	D204	618.00	D404	918.00
		575-600	25	D005	426.00	D105	486.00	D605	618.00	D205	618.00	D405	918.00
3	90	Separate Control—115-120 V		E002	690.00	E102	810.00	E602	966.00	E202	966.00	E402	1422.00
		200-208	25	E023	690.00	E123	810.00	E623	966.00	E223	966.00	E423	1422.00
		230-240	30	E003	690.00	E103	810.00	E603	966.00	E203	966.00	E403	1422.00
		460-480	50	E004	690.00	E104	810.00	E604	966.00	E204	966.00	E404	1422.00
		575-600	50	E005	690.00	E105	810.00	E605	966.00	E205	966.00	E405	1422.00
4	135	Separate Control—115-120 V		F002	1578.00	F102	1830.00	F602	2346.00	F202	2346.00	F402	2874.00
		200-208	40	F023	1578.00	F123	1830.00	F623	2346.00	F223	2346.00	F423	2874.00
		230-240	50	F003	1578.00	F103	1830.00	F603	2346.00	F203	2346.00	F403	2874.00
		460-480	100	F004	1578.00	F104	1830.00	F604	2346.00	F204	2346.00	F404	2874.00
		575-600	100	F005	1578.00	F105	1830.00	F605	2346.00	F205	2346.00	F405	2874.00
5	270	Separate Control—115-120 V		G002	3855.00	G102	4317.00	G602	5637.00	G202	5637.00	G402	5637.00
		200-208	75	G023	3855.00	G123	4317.00	G623	5637.00	G223	5637.00	G423	5637.00
		230-240	100	G003	3855.00	G103	4317.00	G603	5637.00	G203	5637.00	G403	5637.00
		460-480	200	G004	3855.00	G104	4317.00	G604	5637.00	G204	5637.00	G404	5637.00
		575-600	200	G005	3855.00	G105	4317.00	G605	5637.00	G205	5637.00	G405	5637.00
6	540	Separate Control—115-120 V		HH002	9165.00	HH102	12165.00	HH602	13785.00	HH202	13785.00	HH402	15165.00
		200-208	150	HH023	9165.00	HH123	12165.00	HH623	13785.00	HH223	13785.00	HH423	15165.00
		230-240	200	HH003	9165.00	HH103	12165.00	HH603	13785.00	HH203	13785.00	HH403	15165.00
		460-480	400	HH004	9165.00	HH104	12165.00	HH604	13785.00	HH204	13785.00	HH404	15165.00
		575-600	400	HH005	9165.00	HH105	12165.00	HH605	13785.00	HH205	13785.00	HH405	15165.00
7	810	Separate Control—115-120 V		J002AA1A	13167.00								
		220-240	300	J003AA1A	13167.00								
		440-480	600	J004AA1A	13167.00								
		550-600	600	J005AA1A	13167.00								
8	1215	Separate Control—115-120 V		K002AA1A	19455.00								
		220-240	450	K003AA1A	19455.00								
		440-480	900	K004AA1A	19455.00								
9	2250	Separate Control—115-120 V		L002AA1A	31983.00								
		220-240	800	L003AA1A	31983.00								
		440-480	1600	L004AA1A	31983.00								
		550-600	1600	L005AA1A	31983.00								

Note: See page 1-7 for single-phase forms.

- ① Pricing for 50-Hertz forms (at standard voltages) is the same as shown in table for 60 Hertz. Listed prices for 460-480 Volt also apply to 380-415 Volt, 50 Hertz. See page 1-2 for 380-415 Volt horsepower ratings.
- ② Motor full-load current should not exceed continuous ampere rating of starter.
- ③ NEMA Types 4/4X and 12 starters are UL listed to include Class II Groups F and G, Division 2 only, and Class III hazardous locations.
- ④ External reset not included on standard listed forms.
- ⑤ Refer to Coil Table, page 1-3 for other available starter coils and suffixes (sizes 00-6). For sizes 7-9 starters with other control circuit voltages, contact nearest GE Industrial Systems—Electrical Distribution and Control Representative.
- ⑥ Units are individually boxed and "Poly-Packed" six per carton as standard.

Reference:  
See page 1-5.



### GE Fastrac™ Program Service

#### Full Voltage Noncombination Starters

GE Fastrac Program covers nonreversing magnetic motor starters (3-phase, 3-pole) in NEMA sizes 0-4 with a full range of options. It also includes standard catalog forms of many other nonreversing magnetic motor starters, magnetic reversing controllers, magnetic two-speed controllers and magnetic contactors.

#### Combination Starters

Eighty percent of all the combination starters that GE sells are available on a GE Fastrac Program basis.

*Standard cycle: 2 weeks*

**GE Fastrac Program: 1 day**

To order GE Fastrac starters, select and price items required that are printed with red catalog numbers. Clearly indicate on the order that Fastrac service is required.

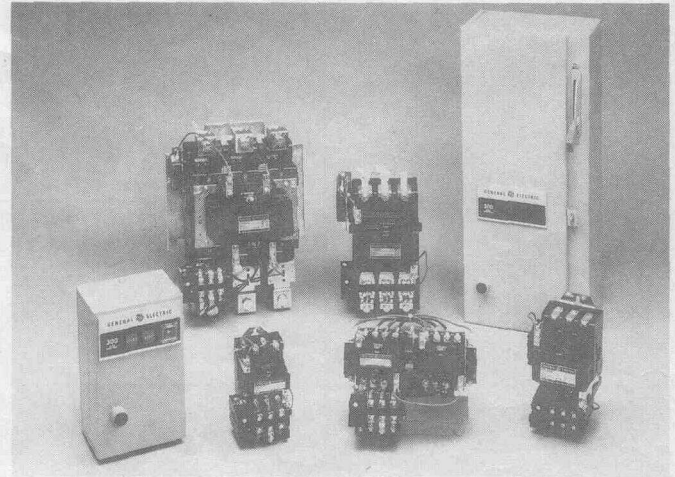
#### References:

DEP-015 Fastrac Application & Selection Guide for NEMA Controls  
DEP-078 Fastrac Now™—the motor starter you need is only minutes away.



#### Fastrac Now™

Distributor-assembled kits for various enclosed starter combinations. No point-to-point wiring required. Assembly possible by anyone while retaining full UL listing. See pages 1-78 to 1-84 for Fastrac Now™ distributor-assembled starters.



GE's 300-Line of NEMA rated controls has a complete offering of full voltage nonreversing, reversing, two-speed and combination motor starters, plus magnetic contactors.

They are available in NEMA Sizes 00-9; 600 Volts maximum, 1600 horsepower maximum. Open forms are available in sizes 00-9. Type 1 enclosures are available in sizes 00-6. Types 3R, 12, 4, and 4X enclosures are available in sizes 0-6. The 300-Line has standard specification approval by many major manufacturers for the toughest industrial applications.

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#### References:

See Publication Index, Section 18.





# GE NEMA Rated Full Voltage Starters

## 300-Line

### Application Information and Technical Data

Description	NEMA Size											
	00	0	1	2	3	4	5	6	7	8	9	
Normal Starting Duty HP Rating <sup>Ⓛ</sup>												
Single Phase												
115V 60Hz	1/2	1	2	3	7 1/2	NA	NA	NA	NA	NA	NA	NA
230V 60Hz	1	2	3	7 1/2	15	NA	NA	NA	NA	NA	NA	NA
Three Phase												
200V 60Hz	1 1/2	3	7 1/2	10	25	40	75	150				
230V 60Hz	1 1/2	3	7 1/2	15	30	50	100	200	300	450	800	
380-415V 50Hz	1 1/2	5	10	25	50	75	150	300	500	750	1350	
460V 60Hz	2	5	10	25	50	100	200	400	600	900	1600	
575V 60Hz	2	5	10	25	50	100	200	400	600	900	1600	
Plugging or Jogging HP Rating <sup>Ⓛ</sup>												
Single Phase												
115V 60Hz	NA	1/2	1	2	5	NA	NA	NA	NA	NA	NA	NA
230V 60Hz	NA	1	2	5	10	NA	NA	NA	NA	NA	NA	NA
Three Phase												
200V 60Hz	NA	1 1/2	3	7 1/2	15	25	60	125	NA	NA	NA	NA
230V 60Hz	NA	1 1/2	3	10	20	30	75	150	NA	NA	NA	NA
380-415V 50Hz	NA	1 1/2	5	15	30	50	125	250	NA	NA	NA	NA
460V 60Hz	NA	2	5	15	30	60	150	250	NA	NA	NA	NA
575V 60Hz	NA	2	5	15	30	60	150	250	NA	NA	NA	NA
Continuous Current Max												
Starters and Enclosed												
Contactors	9	18	27	45	90	135	270	540	810	1215	2250	
Open Contactors	10	20	30	50	100	150	300	600	900	1350	2500	
Coil Burden (VA)												
Inrush 2-Pole	151	151	151	528	1152	1248	2580	3360	1600	1500	2900	
Holding 2-Pole	24	24	24	60	83	87	191	255	210	140	300	
Inrush 3-Pole	151	151	151	528	1152	1248	2580	3360	1600	2900	3600	
Holding 3-Pole	24	24	24	60	83	87	191	255	210	300	400	
Inrush 4- and 5-Pole	151	151	151	576	1248	1356	3600	NA	NA	NA	NA	
Holding 4- and 5-Pole	24	24	24	75	87	95	276	NA	NA	NA	NA	
Control Power Transformer												
VA (Min)	50	50	50	100	200	250	500 <sup>Ⓛ</sup>	500 <sup>Ⓛ</sup>	1000 <sup>Ⓛ</sup>	1500 <sup>Ⓛ</sup>	1501 <sup>Ⓛ</sup>	
Coil Operating Voltage												
% Minimum Pickup	85	85	85	85	85	85	85	85	85	85	85	
% Maximum Dropout	63	63	63	68	65	65	65	65	50	50	50	
Switching Delay 3-Pole												
Pickup Typical (Milliseconds)	15-30	15-30	15-30	20-40	20-45	20-45	30-50	30-50	60-90	80-125	80-125	
Dropout Typical (Milliseconds)	7-15	7-15	7-15	7-15	7-15	7-15	15-25	15-25	100-150	25-100	25-100	
Mechanical Life Millions Nominal	20	20	20	10	5	5	5	1	1	1	0.5	
Weight (Less Carton)												
Contactors (Pounds)	2 3/4	2 3/4	2 3/4	6 1/2	15	14 3/4	48	48	79	203	302	
Starters (Pounds)	3 3/4	3 3/4	3 3/4	7 1/2	17 3/4	17 1/2	53	75	106	263	365	
Power Terminals												
Wire Size Range												
(75 DEG) AWG	14-8	14-8	14-8	14-4	10-1/0	8-3/0	1/0-500kcmil	2 2/0-500kcmil	3 2-600kcmil	4 2-600kcmil	NA	
Torque (Pounds-Inches)	20	20	20	50	150	200	300	375	500	500	NA	
Max. Noise (DBA)	50	50	50	50	50	50	65	65	65	65	65	

- Ⓛ When operation of the controller requires jogging (inching) or plug stopping or when normal operation requires continued operation in excess of 5 operations per minute or 10 operations in a 10-minute period, the plugging or jogging horsepower ratings must be followed.
- Ⓛ In lieu of a 500 to 1500 VA control transformer, a 50 VA unit in conjunction with a control relay can be used as follows:
  1. Wire control relay coil in control circuit on secondary side of control transformer.
  2. Wire two poles of control relay in series with contactor coil at line voltage.

### Mounting Position

Devices must be mounted to a sturdy vertical surface with the line side terminals up. No other orientations are permitted.

### Operating Temperature

Equipment is designed for ambient temperature outside of equipment enclosures to be -25° to 40°C. When contactor is energized, temperatures will be above outside ambient in equipment enclosures. Temperature rises inside the enclosures should be limited so that internal air temperature does not exceed 65° for sizes 00 to 6 and 60°C for sizes 7 to 9. If condensing moisture is present, space heater kits should be used to prevent condensation when contactor is not energized.

Storage temperature should be -30° to 65°C. If equipment is stored over 1 week, it may be necessary to cover the equipment and provide a source of heat to prevent condensation.

### Short-Circuit Ratings

Fusible forms of combination magnetic starters equipped with UL labeled, nonrenewable, NEC-type fuses listed in the table below, are adequate for installation on motor branch circuits where the available short-circuit current at the incoming line terminals of the starter does not exceed the value shown.

Circuit breaker-type combination magnetic starters equipped with the circuit breakers listed in the table at right are adequate for installation on motor branch circuits where the available short-circuit current at the incoming line terminals of the starter does not exceed the value shown.

For either type, it is recognized that maintenance of some components may be required after a branch circuit fault and in some cases a device may require replacement.

### Fusible Combination Starters

NEMA Size	Fuse Type	Maximum Symmetrical rms Amperes
0-3 4, 5	H, K H, K	5,000 10,000
0-5	J, RK-1, RK-5	100,000
6	J, L, RK-1, RK-5	100,000

### Circuit Breaker Combination Starters

Breaker Type	Rating Amperes	NEMA Size	Maximum Symmetrical rms Amperes		
			240 Volt	480 Volt	600 Volt
TEB	15-50	0	5,000	—	—
	15-70	1	5,000	—	—
	15-100	2	5,000	—	—
	25-150	3	5,000	—	—
TEC <sup>Ⓢ</sup>	3-30	0	25,000	25,000	5,000
	3-50	1	25,000	25,000	5,000
	15-50	2	25,000	25,000	5,000
	30-100	3	25,000	25,000	5,000
50-150	4	25,000	25,000	5,000	
TEC <sup>Ⓢ</sup>	3-30	0	100,000	100,000	100,000
	3-50	1	100,000	100,000	100,000
	15-50	2	100,000	100,000	100,000
	30-100	3	100,000	100,000	100,000
50-150	4 <sup>Ⓢ</sup>	100,000	100,000	100,000	
TED	15-50	0	5,000	5,000	5,000
	15-30		25,000	25,000	5,000
	35-70	1	5,000	5,000	5,000
	15-50		25,000	25,000	5,000
	60-100	2	5,000	5,000	5,000
	25-100		25,000	25,000	5,000
110-150	3	5,000	5,000	5,000	
THED	15-50	0	65,000	14,000	5,000
	15-50		65,000	25,000	25,000
	60-70	1	65,000	14,000	5,000
	15-50		65,000	25,000	25,000
	60-100	2	65,000	25,000	5,000
	25-100		65,000	25,000	25,000
110-150	3	42,000	25,000	5,000	
TFJ & TFK	70-225	4	22,000	22,000	22,000
THFK	70-225	4	25,000	25,000	10,000
TJJ & TJK	225-600	5	10,000	10,000	10,000
THJK	225-400	5	35,000	35,000	25,000
	450-600		10,000	10,000	10,000
TKM, TKC THKMB TB6, TBC	300-800	6	42,000	30,000	22,000
	300-800		65,000	35,000	25,000
	300-800		65,000	65,000	42,000

- ① Open continuous Ampere ratings are for contactors only.
- ② Mag-Break<sup>®</sup> motor circuit protector with adjustable magnetic trip (Amperes).
- ③ Mag-Break motor circuit protector with adjustable magnetic trip (Amperes) and current limiter.
- ④ 100 Amperes and smaller current limiters are UL listed.

### Control Transformers Where to Use

It is often desirable to use a control transformer in conjunction with a magnetic starter or controller to provide low voltage control.

### Description—Factory Wired

A transformer, with sufficient capacity for the control circuit, mounted with the starter can be supplied by the factory for the majority of transformer ratings and types of enclosures.

### Coil Suffix

(THIS TABLE IS TO BE USED FOR STARTER FORMS WITHOUT CONTROL TRANSFORMERS.)

Indicates voltage and frequency of operating coils. For use in ordering full voltage starters and contactors, Sizes 00-6, with other coil ratings than those shown in listing on pages 1-6 to 1-49.

Frequency (Hertz)	24V	115-120V <sup>Ⓢ</sup>	200-208V <sup>Ⓢ</sup>	230-240V <sup>Ⓢ</sup>	265-277V	460-480V <sup>Ⓢ</sup>	575-600V <sup>Ⓢ</sup>
60	24	02	23	03	13	04	05
Frequency (Hertz)	—	110V	—	220V	380-415V	440V	550V
50	—	02	—	03	64	04	05

**Note:** The 02 coil suffix (115-120V, 60 Hz/110V, 50 Hz) supersedes the 22 coil suffix (120V, 60 Hz).

Ⓢ Suffix shown for this voltage is part of Catalog Number in magnetic starter-contactor listings.

### Auxiliary Contact Ratings NEMA Size 0-9

AC Volts	Amperes		
	Continuous	Make	Break
115	10	60	6.0
230	10	30	3.0
460	10	15	1.5
575	10	12	1.2
DC Volts			
125	10	—	1.1
250	10	—	0.5

### Contactors DC Ratings

NEMA Size	No. of Poles in Series	Continuous Current Rating	Interrupting Ratings							
			Inductive Amps				Noninductive Amps			
			125 Volts		250 Volts		125 Volts		250 Volts	
			N.O.	N.C.	N.O.	N.C.	N.O.	N.C.	N.O.	N.C.
00	1	9	2.5	2.5	0.6	0.5	5	4	1	0.8
	2	9	7	7	1.2	1.2	25	25	5	4
	3	9	14	14	3.5	3.5	35	35	15	15
	4	9	25	25	7	7	50	50	50	50
0	1	18	2.8	2.5	0.7	0.5	6	4.5	1.1	0.9
	2	18	7	7	1.5	1.2	35	25	6	4.5
	3	18	14	14	3.5	3.5	50	35	25	25
	4	18	25	25	7	7	90	60	60	55
1	1	27	3	2.5	0.7	0.5	6.5	4.5	1.2	0.9
	2	27	7	7	1.5	1.2	50	25	7	4.5
	3	27	14	14	3.5	3.5	70	35	35	25
	4	27	25	25	7	7	120	60	70	55
2	2	45	7		1.5		60		9	
	3	45	14		3.5		120		40	
	4	45	25		7		160		80	
	3	2	90	7		2.2		600		300
3		90	14		4.5		600		600	
4		90	25		9		600		600	
4		2	135	7		2.2		600		300
	3	135	14		4.5		600		600	
	4	135	25		9		600		600	

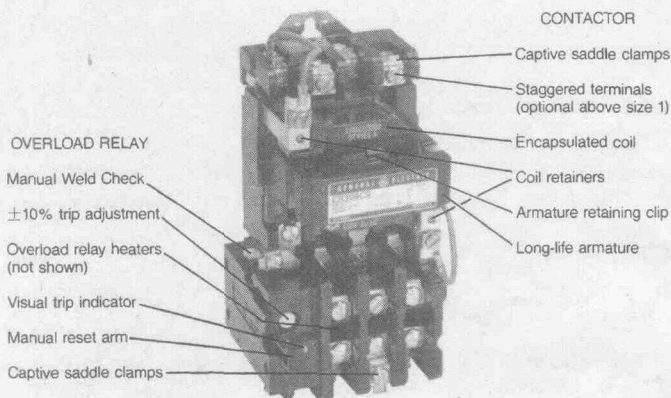




# CR306, CR386 Nonreversing Magnetic Motor Starters

1600 Horsepower Maximum  
NEMA Sizes 00-9  
600 Volts Maximum  
50/60 Hertz

## Basic 300-Line Features



Typical Size 1 Motor Starter

GE's full voltage (600-Volt maximum) magnetic motor starter has an encapsulated coil and a 3-leg overload relay to protect against overloads in all phases. It is on standard specifications of major manufacturers. The line offers features and benefits most asked for by users.

Forms available include reversing and nonreversing, two-speed, and combination, sizes 00-9.

- **Toolless contactor disassembly (Sizes 00-4)**—allows quick access for inspection and maintenance. Just release two retainers and pull a clip to get at magnet, coil, and contacts.
- **Saddle clamp terminals (Sizes 00-1)**—accommodate ring, spade, and stripped wire leads and carry permanent stamped-in identification. Staggered arrangement makes wiring easier and helps prevent shorting between phases.
- **Current-carrying components**—contact tips are weld-resistant silver cadmium oxide (fine silver on sizes 00 and 0 only). Contacts are installed in a wedge configuration for positive make with minimum bounce.
- **Optional PF capacitor terminals**—permit easy connection of power factor correction capacitors between contactor and overload relay for energy conservation.
- **Class 20 overload protection.**
- **Visual trip indicator with manual reset**—to avoid surprise restarts. Reset occurs on arm upstroke so a tripped condition can't be overridden by holding the arm down.
- **Manual weld check**—provides a convenient test against welding of overload relay contacts. Just depress the weld check operator to trip the relay, run a simple continuity test across the relay contacts, then depress the manual reset to return the starter to service.
- **Optional isolated NO contact on the overload relay**—provides means of direct interface with programmable controller or computer to monitor performance and diagnose faults.
- **Dual bimetals**—anticipate overloads, responding to rising current and temperature with faster tripping on severe overloads for better motor protection. Trip points are factory-calibrated for accuracy.
- **±10% trip adjustment**—by turning a dial in the overload relay face allows "tuning" the protection to the motor on the spot.



CR306 Size 1 Motor Starter with Solid-State Overload Relay Installed

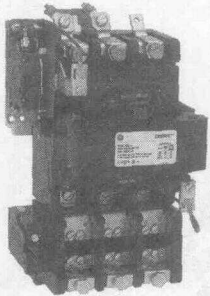
- **Largest selection of modifications and accessory kits**—includes auxiliary contacts, coils, fifth-pole addition, vertical and horizontal mechanical interlocks, surge suppressors, control circuit fusing, NEMA Type enclosures, push buttons, selector switches, indicating lights, control transformers, space heaters, and more.

## Technical Features—Solid-State Overload

- 2:1 Adjustable full load amps with tactile feedback dial
- Selectable 10/20/30 protection class
- Ambient insensitive within the stated operating temperature range of -20° to +70°C
- Built-in thermal memory to prevent hot motor restarts
- Protection against complete phase current loss
- Phase current unbalance: Adjustable 20-50%
- Manual reset (standard) and remote reset (optional) 24 Vdc or 120 Vac
- Accuracy: ±2%
- Repeatability: ±2%
- Self-powered @ 50% of minimum current range
- Size: 1-6 (0.40A-540A, 600 V, 50/60 Hz)
- Unbalance trip signal for PLC operation
- Manual trip
- Visual trip indication
- Standard isolated 1 NO and 1 NC aux. contact (A600, Q600)
- Built-in line/load straps
- Fits with existing 300-Line Starters
- Power factor correction terminals (sizes 1-4)
- DIN rail mountable sizes 1 & 2

# CR306, CR386 Nonreversing Magnetic Motor Starters

1600 Horsepower Maximum  
NEMA Sizes 00-6  
600 Volts Maximum  
50/60 Hertz



Typical CR306 Size 4 magnetic motor starter

## Application

GE's magnetic motor starters listed here may be used for starting full-voltage, nonreversing, single-speed ac motors up to 1600 horsepower, 600 Volts maximum, providing protection to the motor against running or stalled overloads.

Their compact size and ease of wiring make them especially suitable for motor control centers, custom-type control panels, and switchgear equipment. Refer to page 1-4 for features of basic starter.

## Ordering Directions

- Specify starter by complete Catalog Number.  
Example: CR306C103 is a Size 1 starter with 230-240-Volt, 60-Hertz coil and in Type 1 general-purpose enclosure @ **\$246.00, GO-10G.**
- The final letter of the Catalog Number denotes extra auxiliary contacts (sometimes referred to as auxiliary interlocks). Order the desired extra auxiliary contacts by replacing the final letter with one from first column of auxiliary interlock table (see page 1-58).  
Example: CR306C103AAB is Size 1 starter with one extra normally open, auxiliary contact @ **\$312.00, GO-10G.**
- Starter forms are available with coils of other ratings than those shown on pages 1-6 to 1-7. Refer to coil suffix table, page 1-3 for information. To order forms with other coil ratings, insert suffix from coil table in place of fifth and sixth **numbers** of listed starter Catalog Number shown on pages 1-6 to 1-7.  
Example: A CR306C102 NEMA Size 1, three-pole starter in Type 1 enclosure with 24-Volt, 60-Hertz coil becomes a CR306C124 Catalog Number.
- For continuous rated motors with a service factor of 1.15 to 1.25 select the heater with maximum motor Amperes equal to or immediately greater than the actual full-load current taken directly from the nameplate of motor. Order heaters by complete Catalog Number from appropriate heater tables on pages 1-71 to 1-75. **List Price \$9.00 each, GO-10H.** Packaged in quantities of three; must be ordered in multiples of three.

## References:

Instructions

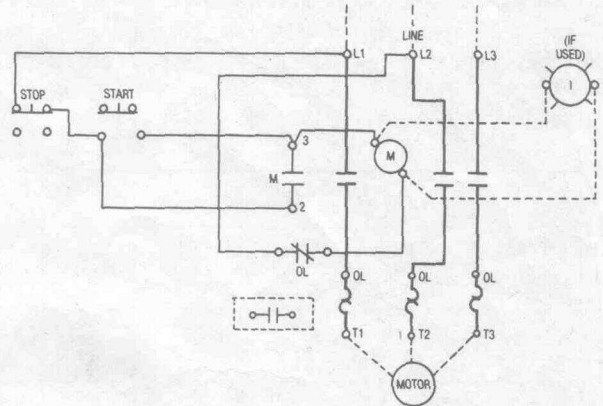
NEMA Size	Publication Number
00, 0, 1	GEH-5190
2	GEH-4774
3	GEH-4806
4	GEH-4807
5	GEH-4839
6	GEH-5198
7-9	GEH-5108

**Factory-Installed Modifications** ..... pages 1-50 to 1-56

**Field-Installed Modification Kits** ..... pages 1-57 to 1-61

**Heater Selection Tables** ..... pages 1-71 to 1-75

## Schematic Diagram



Typical Schematic Diagram for CR306 Starter (NEMA Sizes 00-6)

- Order special modifications or forms not listed by complete description using a listed Catalog Number as reference.  
Example: Similar to CR306C104 except with 480/120-Volt control transformer and red indicating light in cover.  
**Total List Price** ..... **\$483.00, GO-10G.**
- Two-phase, four-wire forms are available. Contact nearest GE Industrial Systems—Electrical Distribution and Control Representative for pricing and ordering information.

## Standard Coil Ratings

Standard Voltages (60 Hertz):  
24, 115-120, 200-208, 230-240, 265-277, 460-480 and 575-600

Standard Voltages (50 Hertz):  
110, 220, 380, 440 and 550

For price adders on special voltage and/or frequency coils, refer to page 1-52.

## 50-Hertz Starters

Pricing of starters for use on 50 Hertz at standard voltages is the same as shown in table for 60 Hertz. Refer to page 1-2 for three-phase horsepower ratings at 380 Volts, 50 Hertz.