

CR305, CR385 Magnetic Contactors

1600 Horsepower Maximum NEMA Sizes 00-9 600 Volts Maximum 2500 Amperes Maximum 50/60 Hertz

GE Fastrac™ Program items are printed in red type.

CR305, CR385, NEMA Types Open, 1, 3R, 12 and 4/4X, 60 Hertz ①

List price includes holding contact (normally open) and pressure terminals for the line and load connections on NEMA Sizes 0-8 in Types 1, 3R, 12 and 4/4X enclosure, and Open Type NEMA Sizes 00-5. Open Type, NEMA Sizes 6-8 are supplied with bus bar type connections only. However, pressure box terminals are available,

if required, and can be ordered by description, using the terminology: "Similar to (a listed Catalog Number) except with pressure box terminals." All NEMA Size 9 contactor forms are furnished with bus bar type connections only as standard.

One-Pole, Single-Phase, NEMA Sizes 00-1

NEMA Size	Continuous Ampere Rating		Maximum Horsepower ②		Open Type		NEMA Type 1 General-Purpose		NEMA Type 3R Rainproof, Sleet-Resistant	NEMA Type 12 Dust-Tight, Driptight Industrial Use ④		NEMA Type 4/4X Watertight, Dust-Tight (Stainless Steel) ④	
	Enclosed	Open	Voltage (60 Hertz) ③	Horsepower	Catalog Number CR305	List Price, GO-10G	Catalog Number CR305	List Price, GO-10G	Catalog Number CR305	Catalog Number CR305	List Price, GO-10G	Catalog Number CR305	List Price, GO-10G
00	9	10	115-120 230-240	1/3 1	Use NEMA Size 0		Use NEMA Size 0		—	—	—	—	—
0	18	20	115-120 230-240	1 2	J002ADA J003ADA	\$ 138.00 138.00	J102ADA J103ADA	\$ 150.00 150.00	—	—	—	—	—
1	27	30	115-120 230-240	2 3	K002ADA K003ADA	168.00 168.00	K102ADA K103ADA	180.00 180.00	—	—	—	K402ADA K403ADA	\$ 396.00 396.00

Two-Pole, Single-Phase, NEMA Sizes 00-9

00	9	10	115-120 230-240	1/3 1	H002 H003	120.00 120.00	H102 H103	132.00 132.00	Use NEMA Size 0	Use NEMA Size 0		Use NEMA Size 0	
0	18	20	115-120 230-240	1 2	J002 J003	156.00 156.00	J102 J103	168.00 168.00	J602 J603	J202 J203	240.00 240.00	J402 J403	378.00 378.00
1	27	30	115-120 230-240	2 3	K002 K003	186.00 186.00	K102 K103	198.00 198.00	K602 K603	K202 K203	270.00 270.00	K402 K403	414.00 414.00
2	45	50	115-120 230-240	3 7 1/2	L002 L003	348.00 348.00	L102 L103	408.00 408.00	L602 L603	L202 L203	540.00 540.00	L402 L403	840.00 840.00
3	90	100	115-120 230-240 460-480 575-600	7 1/2 15 25 25	M002 M003 M004 M005	552.00 552.00 552.00 552.00	M102 M103 M104 M105	672.00 672.00 672.00 672.00	M602 M603 M604 M605	M202 M203 M204 M205	828.00 828.00 828.00 828.00	M402 M403 M404 M405	1284.00 1284.00 1284.00 1284.00
4	135	150	115-120 200-208 230-240 460-480 575-600	— — — — —	N002 N023 N003 N004 N005	1332.00 1332.00 1332.00 1332.00 1332.00	N102 N123 N103 N104 N105	1584.00 1584.00 1584.00 1584.00 1584.00	N602 N623 N603 N604 N605	N202 N223 N203 N204 N205	2100.00 2100.00 2100.00 2100.00 2100.00	N402 N423 N403 N404 N405	2628.00 2628.00 2628.00 2628.00 2628.00
5	270	300	115-120 200-208 230-240 460-480 575-600	— — — — —	P002 P023 P003 P004 P005	2886.00 2886.00 2886.00 2886.00 2886.00	P102 P123 P103 P104 P105	3348.00 3348.00 3348.00 3348.00 3348.00	P602 P623 P603 P604 P605	P202 P223 P203 P204 P205	4668.00 4668.00 4668.00 4668.00 4668.00	P402 P423 P403 P404 P405	4668.00 4668.00 4668.00 4668.00 4668.00
6	540	600	115-120 200-208 230-240 460-480 575-600	— — — — —	HR002 HR023 HR003 HR004 HR005	7344.00 7344.00 7344.00 7344.00 7344.00	HR102AA2A HR123AA2A HR103AA2A HR104AA2A HR105AA2A	9378.00 9378.00 9378.00 9378.00 9378.00	HR602AA2A HR623AA2A HR603AA2A HR604AA2A HR605AA2A	HR202AA2A HR223AA2A HR203AA2A HR204AA2A HR205AA2A	10998.00 10998.00 10998.00 10998.00 10998.00	HR402AA2A HR423AA2A HR403AA2A HR404AA2A HR405AA2A	12378.00 12378.00 12378.00 12378.00 12378.00
			Control Circuit Voltage®		Catalog Number CR385	List Price, GO-10G	Notes: See page 1-44 and 1-45 for 3- and 4-pole contactors. 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 contactor. ③ Refer to coil table, page 1-3 for other available NEMA Size 00-6 contactor coils. For NEMA size 7-9 contactors with other control circuit voltages, contact nearest GE Industrial Systems—Electrical Distribution and Control Representative. ④ NEMA Types 4/4X and 12 contactors are UL listed to include Class II Groups E and G, Division 2 only, and Class III Hazardous Locations.						
7	810	900	115-120 230-240 460-480 575-600	— — — —	S002AA1A S003AA1A S004AA1A S005AA1A	10722.00 10722.00 10722.00 10722.00							
8	1215	1350	115-120 230-240 460-480 575-600	— — — —	T002AA1A T003AA1A T004AA1A T005AA1A	17208.00 17208.00 17208.00 17208.00							
9	2250	2500	115-120 230-240 460-480 575-600	— — — —	U002AA1A U003AA1A U004AA1A U005AA1A	22800.00 22800.00 22800.00 22800.00							

Notes: See page 1-44 and 1-45 for 3- and 4-pole contactors.

- 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 contactor.
- ③ Refer to coil table, page 1-3 for other available NEMA Size 00-6 contactor coils. For NEMA size 7-9 contactors with other control circuit voltages, contact nearest GE Industrial Systems—Electrical Distribution and Control Representative.
- ④ NEMA Types 4/4X and 12 contactors are UL listed to include Class II Groups F and G, Division 2 only, and Class III Hazardous Locations.

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

**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

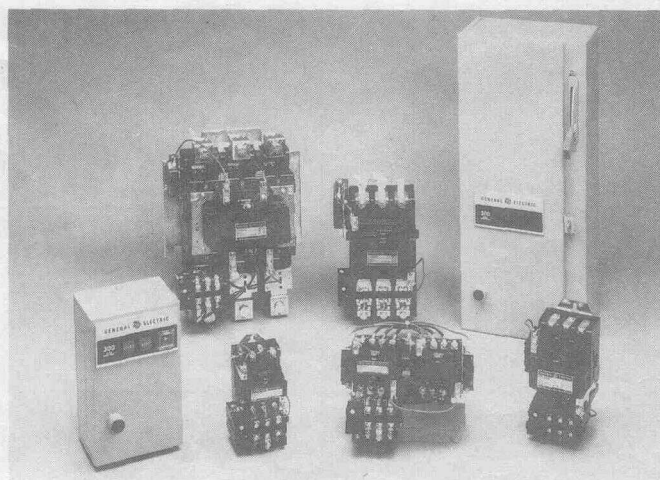
To order GE Fastrac starters, select and price items required that are printed with red catalog numbers. Clearly indicate on the order that Fastrac service is required.

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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Magnetic Reversing Controllers (CR309 Series)	1-12 to 1-17
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Nonreversing Combination Magnetic Starters (CR307, CR308, CR310, CR311, CR387, CR390, CR385 Series)	1-24 to 1-38
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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 ①											
Single Phase											
115V 60Hz	1/3	1	2	3	7 1/2	NA	NA	NA	NA	NA	NA
230V 60Hz	1	2	3	7 1/2	15	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 ①											
Single Phase											
115V 60Hz	NA	1/2	1	2	5	NA	NA	NA	NA	NA	NA
230V 60Hz	NA	1	2	5	10	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
230V 60Hz	NA	1 1/2	3	10	20	30	75	150	NA	NA	NA
380-415V 50Hz	NA	1 1/2	5	15	30	50	125	250	NA	NA	NA
460V 60Hz	NA	2	5	15	30	60	150	250	NA	NA	NA
575V 60Hz	NA	2	5	15	30	60	150	250	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 ②	500 ②	1000 ②	1500 ②	1501 ②
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)											
Contactor (Pounds)	2 3/4	2 3/4	2 3/4	6 1/2	15	14 3/4	48	48	79	203	302
Starter (Pounds)	3 3/4	3 3/4	3 3/4	7 1/2	17 3/4	17 1/2	53	75	106	263	385
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

① 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.

② 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®	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®	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®	100,000	100,000	100,000
TED	15-50	0	5,000	5,000	5,000
	15-30	1	25,000	25,000	5,000
	35-70	1	5,000	5,000	5,000
	15-50	2	25,000	25,000	5,000
THED	60-100	2	5,000	5,000	5,000
	25-100	3	25,000	25,000	5,000
	110-150	3	5,000	5,000	5,000
	110-150	3	5,000	5,000	5,000
TFJ & TFK	15-50	0	65,000	14,000	5,000
	15-50	1	65,000	25,000	25,000
	60-70	1	65,000	14,000	5,000
	15-50	2	65,000	25,000	25,000
THFK	60-100	2	65,000	25,000	5,000
	25-100	3	65,000	25,000	25,000
	110-150	3	42,000	25,000	5,000
	110-150	3	42,000	25,000	5,000
TJJK	15-50	0	65,000	14,000	5,000
	15-50	1	65,000	25,000	25,000
	60-70	1	65,000	14,000	5,000
	15-50	2	65,000	25,000	25,000
THJK	60-100	2	65,000	25,000	5,000
	25-100	3	65,000	25,000	25,000
	110-150	3	42,000	25,000	5,000
	110-150	3	42,000	25,000	5,000
TKM, TKC	15-50	0	65,000	14,000	5,000
	15-50	1	65,000	25,000	25,000
	60-70	1	65,000	14,000	5,000
	15-50	2	65,000	25,000	25,000
THKM8	60-100	2	65,000	25,000	5,000
	25-100	3	65,000	25,000	25,000
	110-150	3	42,000	25,000	5,000
	110-150	3	42,000	25,000	5,000
TB6, TBC	15-50	0	65,000	14,000	5,000
	15-50	1	65,000	25,000	25,000
	60-70	1	65,000	14,000	5,000
	15-50	2	65,000	25,000	25,000
THJK	60-100	2	65,000	25,000	5,000
	25-100	3	65,000	25,000	25,000
	110-150	3	42,000	25,000	5,000
	110-150	3	42,000	25,000	5,000

- Open continuous Ampere ratings are for contactors only.
- Mag-Break® motor circuit protector with adjustable magnetic trip (Amperes).
- Mag-Break motor circuit protector with adjustable magnetic trip (Amperes) and current limiter.
- 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 ®	200-208V ®	230-240V ®	265-277V	460-480V ®	575-600V ®
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

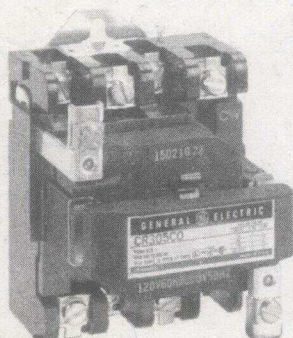
Contactors DC Ratings

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	7	1.5	1.5	60	45	9	9
	3	45	14	14	3.5	3.5	120	60	40	40
	4	45	25	25	7	7	160	100	80	80
	4	45	25	25	7	7	160	100	80	80
3	2	90	7	7	2.2	2.2	600	300	300	300
	3	90	14	14	4.5	4.5	600	600	600	600
	4	90	25	25	9	9	600	600	600	600
	4	90	25	25	9	9	600	600	600	600
4	2	135	7	7	2.2	2.2	600	300	300	300
	3	135	14	14	4.5	4.5	600	600	600	600
	4	135	25	25	9	9	600	600	600	600
	4	135	25	25	9	9	600	600	600	600



CR305, CR385 Magnetic Contactors

1600 Horsepower Maximum
NEMA Sizes 00-9
600 Volts Maximum
2500 Amperes Maximum
50/60 Hertz



Typical CR305 Open-Type Magnetic Contactor

Application

GE's magnetic contactor is designed for use on today's modern equipment. Especially suitable for handling the switching of resistance heating and capacitor circuit loads, their compact size also fits the needs of the panel building industry. In addition, they may be used for controlling ac motors where overload protection is provided separately.

Features

- Easy disassembly for maintenance and inspection of contacts.
- Auxiliary contacts with vertical contact surfaces enclosed to prevent accumulation of dust and dirt.
- Attractive, modern squared-off design enclosure.
- Magnet faces specially treated to resist rust.
- Provision for ring terminals may be specified as a special feature, if required. No price addition applies for this optional feature.

Holding Contacts

Each CR305 contactor is furnished with a normally open auxiliary contact for use as a holding interlock in three-wire control circuits. This auxiliary contact has the same rating as a main pole (contact) for Sizes 00, 0, and 1. If this contact is not required on these sizes, specify contactor with one less pole.

References:

Descriptive bulletin GEA-10928
Distributor mailer GED-7018

References:

Instruction bulletins

NEMA Size	Instructions
00, 0, 1	GEH-4782
2	GEH-4774
3	GEH-4806
4	GEH-4807
5	GEH-4839
6	GEH-5198
7-9	GEH-4151

50 Hertz Contactors

Pricing of contactors for use on 50 Hertz is the same as in table for 60 Hertz. See three-phase horsepower ratings for 380-415 Volts, 50 Hertz on page 1-2.

Ordering Directions

1. Specify contactor by Catalog Number.
Example: CR305B103 @ **\$186.00, GO-10G** is a Size 0, 18-Ampere, three-pole contactor (extra pole to be used as an auxiliary), with 230-240 Volt 60 Hertz coil. Contactor is in Type 1 enclosure.
2. Order forms not listed or with special features by complete description.
Example: Similar to CR305B103 @ **\$186.00** except with a red indicating light in cover @ **\$90.00**.
Total **List Price** **\$276.00, GO-10G**
3. 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 from first column of auxiliary interlock table (see page 1-56).
Example: CR305C102AAB @ **\$282.00, GO-10G**, is Size 1 contactor with one extra auxiliary contact, normally open.
4. Contactors are available with coils of other ratings (at same price) than those shown on pages 1-43 to 1-45. Refer to coil suffix table on page 1-3 for information. To order contactor forms with these other coil ratings, insert suffix from table in place of fifth and sixth **numbers** of contactor Catalog Number shown on pages 1-43 to 1-45.
Example: A CR305C**123** NEMA Size 1, three-pole contactor in Type 1 enclosure, except with 24 Volt, 60 Hertz coil, becomes a CR305C**124** Catalog Number.

Factory-Installed

Modifications pages 1-50 to 1-56

Field-Installed

Modification Kits pages 1-57 to 1-61