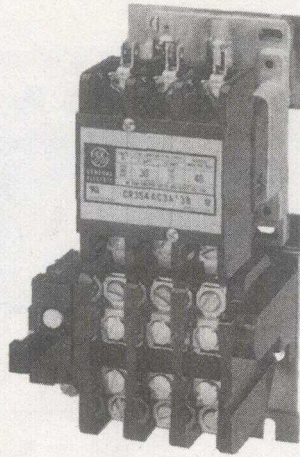


# CR354A, CR354F Definite-Purpose Starters

600 Volts Maximum  
25- Thru 60-Amperes Maximum Inductive  
50/60 Hertz



Typical 30-Ampere Starter, Open-Type

5 DEFINITE PURPOSE CONTROLS

## CR354, 2- and 3-Poles, Open-Type

One heater should be ordered, as a separate item, for single-phase starters and three heaters as separate items, for three-phase starters. Heaters are **List Price \$9.00 each, GO-10H**. (Packaged in quantities of three. Must be ordered in multiples of three.) Select heaters from selection tables, page 5-6.

Inductive Full Load	Ampere Ratings			Phase	Number of Poles	Normally Open Aux. Contact	Number of Over-load Heaters	Open-Type			
	Locked Rotor							Standard Overload Relay		Ambient Compensated Overload Relay	
	240 V	480 V	600 V					Catalog Number	List Price, GO-10DPA	Catalog Number	List Price, GO-10DPA
25	150	125	100	1	2	—	1	CR354AB2A*3	\$ 94.00	CR354AB2A*4	\$110.00
				1	2	1	1	CR354AB2A*3B	106.00	CR354AB2A*4B	122.00
				3	3	—	3	CR354AB3A*3	131.00	CR354AB3A*4	147.00
				3	3	1	3	CR354AB3A*3B	143.00	CR354AB3A*4B	159.00
30	180	150	120	1	2	—	1	CR354AC2A*3	106.00	CR354AC2A*4	122.00
				1	2	1	1	CR354AC2A*3B	118.00	CR354AC2A*4B	134.00
				3	3	—	3	CR354AC3A*3	147.00	CR354AC3A*4	163.00
				3	3	1	3	CR354AC3A*3B	159.00	CR354AC3A*4B	175.00
40	240	200	160	1	2	—	1	CR354AD2B*3	127.00	CR354AD2B*4	143.00
				1	2	1	1	CR354AD2B*3B	139.00	CR354AD2B*4B	155.00
				3	3	—	3	CR354AD3B*3	177.00	CR354AD3B*4	193.00
				3	3	1	3	CR354AD3B*3B	189.00	CR354AD3B*4B	205.00
50	300	250	200	1	2	—	1	CR354FE2B†3	242.00	CR354FE2B†4	258.00
				1	2	1	1	CR354FE2B†3B	254.00	CR354FE2B†4B	270.00
				3	3	—	3	CR354FE3B†3	336.00	CR354FE3B†4	352.00
				3	3	1	3	CR354FE3B†3B	348.00	CR354FE3B†4B	364.00
60	360	300	240	1	2	—	1	CR354FF2B†3	282.00	CR354FF2B†4	298.00
				1	2	1	1	CR354FF2B†3B	294.00	CR354FF2B†4B	310.00
				3	3	—	3	CR354FF3B†3	393.00	CR354FF3B†4	409.00
				3	3	1	3	CR354FF3B†3B	405.00	CR354FF3B†4B	421.00

### \* AC Coil Selection for CR354A Forms

Letter Code	Voltage 50/60 Hz	Inrush VA (Nominal) 60 Hz	Sealed VA (Nominal) 60 Hz	Sealed Watts (Nominal) 60 Hz	Resistance (Ohms) ± 10%
H	24	60	7	2.7	5.61
A	110-120	77	12	4.4	89.5
B	208-240	77	12	4.4	366.0
F	277	77	12	4.4	713.0
C	416-480	77	12	4.4	1872.0
D	550-600	77	12	4.4	2983.0

### † AC Coil Selection for CR354F Forms

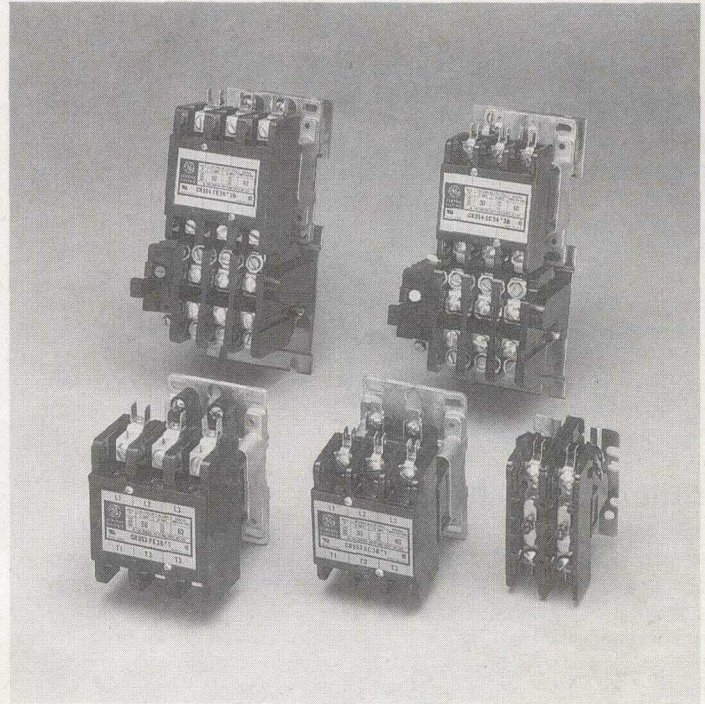
Letter Code	Voltage 50/60 Hz	Inrush VA (Nominal) 60 Hz	Sealed VA (Nominal) 60 Hz	Sealed Watts (Nominal) 60 Hz	Resistance (Ohms) ± 10%
H	24	125	17	8	2.75
A	110-120	125	17	8	64.3
B	208-240	125	17	8	241.0
F	277	125	17	8	399.0
C	440-480	125	17	8	972.0
D	575-600	125	17	8	2074.0

\* † Insert letter from proper AC Coil Selection table above to complete Catalog Number.

Heater Selection Tables ..... page 5-7



GE's full complement of definite purpose controls provides the contactors, magnetic starters and two-speed controllers for a variety of industrial electric equipment. These include air conditioning, heating and refrigeration, food processing, agricultural plus numerous other similar industrial applications. All of the definite-purpose components by GE are UL component recognized and CSA certified. CE compliant: for Declaration of Conformity and Technical Details, contact nearest GE Industrial Systems—Electrical Distribution and Control Representative.



Compact Design, 20-40 Ampere, One- and Two-Pole Contactor Forms (CR353C Series) .....	5-3
Standard, 25-40 Ampere, Two-, Three-, and Four-Pole Contactor Forms (CR353A Series) .....	5-3
Standard 50-150 Ampere, Two- and Three-Pole Contactor Forms (CR353F, CR353E, and CR353G Series) .....	5-4
Standard, 25-60 Ampere, Single- and Three-Phase Starter Forms (CR354A and CR354F Series) .....	5-5
Standard, 25-90 Ampere, Two-Three, Three-Three, and Five-Three-Pole Controller Forms (CR355A and CR355E Series) .....	5-6
Definite Purpose Starter Heaters .....	5-7
Field Modifications .....	5-8
Dimensions .....	5-9 to 5-14
UL/CSA References .....	5-14

**Reference:**  
See Publication Index, Section 18.

Type	Instruction
CR353C	GEH-5092
CR353A, F	GEH-5089
CR353E	GEH-5090



# CR353, CR354, CR355 Definite-Purpose Contactors, Starters, and Two-Speed Controllers

600 Volts Maximum  
150 Amperes Maximum  
50/60 Hertz

## Application

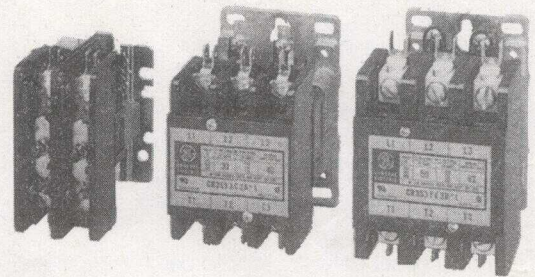
For over 30 years, GE has offered definite-purpose control components that provide the dependability required for today's air conditioning, heating and refrigeration, data processing, power supply, food processing, agricultural, and other industrial equipment. Contactors, starters, and 2-speed controllers reflect quality materials and workmanship resulting in products with broad industry acceptance. Backed by design knowledge and experience, GE definite-purpose components offer high reliability for a wide variety of applications. All carry UL component recognition and are certified by CSA. CE compliant: for Declaration of Conformity and Technical Details, contact nearest GE Industrial Systems—Electrical Distribution and Control Representative.

## Ordering Directions

Standard Catalog Numbers are listed on the following pages for definite purpose contactors. Coil letter code must be added from coil selection tables. Standard Catalog Numbers include binding-screw terminals with quick connects on 20- thru 35-Ampere devices; box-lug terminals with quick connects on 40- thru 90-Ampere forms (except 40-Ampere, CR353C compact design which has binding-head screw terminals with quick connects). Catalog Numbers for contactors represent standard terminal markings—line (L) markings at top; load (T) markings at bottom. Factory modifications to these standard Catalog Numbers are available. Order by complete Catalog Number.

Example: for a 40-Ampere, 3-pole contactor with 110-120-Volt coil, select CR353AD3BA1. The device will have box-lug with quick-connect terminals and standard markings on the terminals. **List Price, \$71.00, GO-10DP.**

Full voltage, single-speed motor starters for three-phase and single-phase motor applications are also available in the definite purpose control line.



**Typical Open-Type, Definite-Purpose Contactors**

## Features

- Universal mounting plates with multiple holes make them easy to interchange with other manufacturer's devices.
- Bold, easy-to-read terminal markings simplify installation and field maintenance.
- Straight-through wiring speeds installation.
- Standard combination screw and quick-connect power and coil terminals simplify connections.
- Class B coil insulation is standard on devices rated up through 60 Amperes.
- Precision, self-aligning magnets add to quiet, dependable operation.
- Inspection of durable, double-break contacts is performed easily without removal of contactor.
- Housing design offers high arc tracking resistance and dielectric strength.
- Corrosion-resistant materials used throughout.
- Arc confining cover (except CR353C compact forms) protects against contaminants.
- Contacts and coils (except for CR353C compact design) are field replaceable.

## Factory Modifications

For available modifications on specific devices, contact nearest GE Industrial Systems—Electrical Distribution and Control Representative for proper selection and pricing, or refer to descriptive bulletin, GEA-11540.

DEFINITE PURPOSE CONTROLS