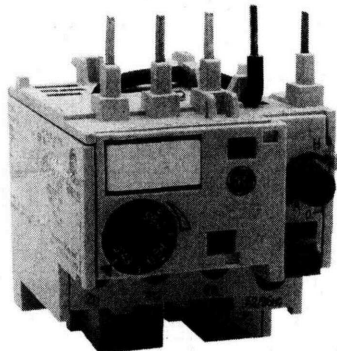




C-2000™ Mini-Contactors Overload Relays






- Class 10A trip.
- Ambient temperature compensation.
- Differential phase loss sensitivity.
- Trip indication.
- Manual trip test.
- Stop button (red).
- Reset button (blue), two positions: manual (H) and automatic (A).
- Pre-wired coil and NC contact connection.
- Auxiliary contact feed-through wire, to facilitate installation.

Overload Relays—Fixed Heater With Differential Protection for Direct Mounting to Contactor

Packaged in multiples of 10 units. Each catalog number represents one unit.

Current Range Setting		Max. Fuse Rating		Catalog Number	List Price, GO-10A1	Approximate Weight Each
Min.	Max.	HRC11	K5			
0.11	0.17			MT03A	\$40.00	4 oz.
0.17	0.26			MT03B	40.00	4 oz.
0.26	0.43	2	1	MT03C	40.00	4 oz.
0.43	0.65	4	1	MT03D	40.00	4 oz.
0.65	1.0	6	3	MT03E	40.00	4 oz.
0.85	1.3	6	3	MT03F	40.00	4 oz.
1.1	1.6	10	6	MT03G	40.00	4 oz.
1.35	2.0	10	6	MT03H	40.00	4 oz.
1.7	2.4	16	6	MT03I	40.00	4 oz.
2.2	3.2	16	10	MT03J	40.00	4 oz.
3.0	4.7	16	15	MT03K	40.00	4 oz.
4.0	6.3	20	20	MT03L	40.00	4 oz.
5.5	8.0	25	30	MT03M	40.00	4 oz.
7.5	10.5	35	40	MT03N	40.00	4 oz.

Overload Relay Accessories

	Description	Catalog Number	List Price, GO-10A1	Approximate Weight Each
	Base for Separate Panel/Rail Mount of Overload Relay (Requires Power Input Terminals) (Packaged in multiples of 5)	MVB0T	\$3.00	1 oz.
	Power Input Terminals Used in Conjunction with Base (Packaged in multiples of 5)	MVE0T	9.00	2 oz.
	Instantaneous Auxiliary Contact Block for Relay, 1NO Contact [Ⓞ] (Packaged in multiples of 10)	MATV10AT	8.00	1 oz.

Ⓞ Adder block may be used with manual operation only.

References:

- Instructions
- GEH-5475 MC Mini-Contactor/MT03 Thermal-Overload Relay, U.S. version.
- GEH-5931 MC Mini-Contactor Global Instructions
- GEH-5932 MT03 Thermal-Overload Relay Global Instructions

Field-Installed

- Accessories..... pages 3-59 to 3-62
- Technical Information..... pages 3-66 to 3-70
- Dimensions and Weights..... pages 3-71 to 3-76



C-2000™ Mini-Contactors Technical Information

International Certification Marks

In addition to stating the catalog number, the contactor nameplate also lists the international certification marks. All contactors, control relays, overload relays, and accessories are UL listed and CSA Certified.

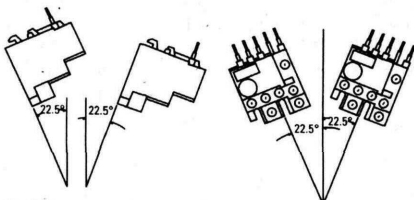
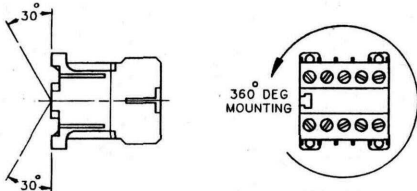
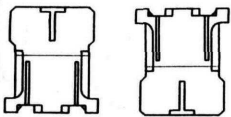
Contactors and relays also conform to International Standards:

- UL listed (Underwriters Laboratories, U.S. -UL 508);
- CSA Certified (Canadian Standards Association, Canada-CSA C22.2 No. 14);
- CE Mark;
- IEC 947-1,4 (International Electrotechnical Commission);
- BS 5424 (British Standards, UK);
- VDE 0660 (Verband Deutscher Elektotechniker, Federal Republic of Germany);
- (S) (SEV, Switzerland-SEV 10254);
- (D) (DEMCO, Denmark);
- (N) (NEMCO, Norway);
- (FI) (SETI, Finland);

plus other specifications approvals...

- CEI 17-3, 17-7 (Comitato Elettrotecnico Italiano, Italy);
- Bureau Veritas, France;
- SEMKO, Sweden.

Operating Position



Operating Characteristics/Technical Data: Contactors and Control Relays

General Data

Ambient Conditions

- Temperature

Storage	-30 to +80°C (-22 to +176°F)
Operation	-20 to +55°C (-4 to +131°F)
- Altitude

Up to 3000 meters	Rated current
3000 - 4000 meters	.9 x's rated current
4000 - 5000 meters	.8 x's rated current

Shock Resistance (All Axis)

- Contacts closed (80% voltage)

Admissible acceleration	30g
Impulse duration	11 ms
- Contacts open (no voltage)

Admissible acceleration	10g
Impulse duration	11 ms

Vibration Resistance (All Axis)

- Contacts closed (80% voltage)

Admissible acceleration	10g
Sweep between	10-200 hz
- Contacts open (no voltage)

Admissible acceleration	5g
Impulse duration	10-200 hz

Terminal Capacity

- Screw terminal

Wire size	(2) #14-18 AWG max.
Wire temperature class	60°C/75°C wire
- Quick connect (Faston 2.8mm)

Wire size	(2) 1mm ²
Max. thermal current	8 amps
- Printed circuit terminal

Hole size	1.8mm
-----------	-------

C-2000™ Mini-Contactors Technical Information

Operating Characteristics/Technical Data: Contactors and Control Relays

Control Circuit Data

Pick-up/Drop-out % Coil Voltage

Type Coil	Pick-up	Drop-out
AC Controlled	80%-110%	35%-55%
DC Controlled	80%-110%	20%-40%
PLC interface (1.2W)	80%-125%	20%-30%
PLC interface (2W)	70%-125%	20%-35%

Opening/Closing Time

Type Coil	Voltage	Making (on Energization)		Breaking (on De-energization)	
		NO Contact	NC Contact	NO Contact	NC Contact
AC Controlled (ms)	+10-15% Nominal	6-13 7-12	8-16 8-16	5-11 6-10	6-13 6-13
DC Controlled (ms)	+10-15% Nominal	22-36 24-27	9-12 9-11	18-27 20-26	5-7 5-8
PLC Interface (1.2W) (ms)	+25-20% Nominal	30-70 25-45	9-16 9-16	20-45 25-35	5-9 5-9
PLC Interface (2W) (ms)	+25-30% Nominal	20-50 25-40	9-16 9-16	18-35 20-30	5-9 5-9

Maximum Operating Rate

No load
AC1 and AC3 at rated power
AC4 at rated power

Operations per Hour

9000 OPS/H
1200 OPS/H
300 OPS/H

Coil Consumption

Type Coil	Pick-up		Holding		Power Dissipation (Watts)
	(Watts)	(VA)	(Watts)	(VA)	
AC Controlled		26		4	1.4
DC Controlled	3		3		
PLC Interface (1.2W)	1.2		1.2		
PLC Interface (2W)	2		2		

Main Contacts Data

	Contactors	Control Relays
Rated insulation voltage (IEC 947-1)	660V	660V
Rated thermal current (UL 508)	16 amps	10 amps
Contact rating		A600, Q600
Frequency limits	25-400 Hz	25-400 Hz
Impedance per pole	1.76 mΩ	2.4 mΩ
Power dissipation AC-1 AC-3	0.7 W .13W	
Insulation resistance	≧ 10 mΩ	
No overlap between NO and NC contacts Space Time	1mm ≧ 2ms	1.1mm ≧ 2ms

Instantaneous Auxiliary Contact Data

	Contactors
Rated insulation voltage (IEC 947-1)	660V
Rated thermal current	10 amps
Contact rating	A600, Q600
Frequency limits	25-400 Hz
Impedance per pole	2.4 mΩ
Insulation resistance	≧ 10 mΩ
No overlap between NO and NC contacts Space Time	1mm ≧ 2ms

Overload Relay Auxiliary Contact Data

	Contactors
Rated insulation voltage (IEC 947-1)	660V
Rated thermal current	6 amps
Contact rating	B600, R300
Frequency limits	25-400 Hz

Control Circuit Ratings

120 Vac, 125 Vdc

Time	Rating	Carry Continuous Amperes	Make Momentary Amperes	Break Amperes
A600	AC	10	60	6
B600	AC	5	30	3
Q600	DC	2.5	0.55	0.55
R300	DC	1.0	0.22	0.22

For other voltages, reference NEMA ICS 3-125 or contact nearest GE Industrial Systems—Electrical Distribution and Control Representative.