IEC Power Devices Mini Control Relays Overview C-2000

Contact Rating A600, Q300

Control Relays

- -Relays are suitable for use on alternating current (ac) control circuits up to 600 volts, and dc control circuits up to 240 Volts.
- —All terminals are marked in accordance to EN50011.
- —Control relays may be mounted on 35mm DIN rail EN50022-35, or may be panel-mounted using two or four #8 screws in diagonal corners.
- –Screw and quick-connect terminals are protected against accidental contact in accordance with VDE0106T.100 and VBG4.
- –Low-coil wattage requirement makes relay ideal for most applications. (24 Vdc PLC interface versions are available.)
- —A wide range of accessories, including front-mounted auxiliary contact blocks, side-mounted auxiliary contact blocks, a timer, and surge suppressors, are easily installed on relays.

PLC Compatible Control Relays

Low Coil Wattage Control Relays

While the standard line of MCRC dc operated relays requires only 3 watts coil holding current, some PLC applications require lower wattage coils to efficiently interface with the PLC. Special relays are available with 24 Vdc coils which only require 1.2 or 2 watts for pull in and holding. These relays are available with screw terminal configuration.

- -All terminals are dual marked in accordance to EN50012, and U.S. marking standards.
- -Relay may be mounted on 35mm DIN rail EN50022-35, or may be panel-mounted using two #8 screws in diagonal corners.
- -Screw-type terminals are protected against accidental contact in accordance with VDE0106T.100 and VBG4.

Reference Publications

Instructions
GEH-5475 MC Mini-Contactor/MT0 Thermal-Overload Relay. U.S. version.
GEH-5931 MC Mini-Contactor Global Instructions
GEH-5932 MT0 Thermal-Overload Relay Global Instructions



AC Operated Control Relay



IEC Power Devices Mini Control Relays Selection C-2000

Contact Rating A600, Q300

AC Operated Control Relays

			List Price	
Contact Configuration	Mounting Type	Product Number ^{1,2}	GO-10A1	Approx. Weight Each
4NO	Standard Screw	MCRA040AT*	\$38.00	6 oz.
4NO	2x2.8mm Faston	MCRA040AF*	\$41.00	6 oz.
4NO	1x6.3mm Faston	MCRA040AH*	\$41.00	6 oz.
4NO	PC Board	MCRA040AI*	\$41.00	6 oz.
3NO-1NC	Standard Screw	MCRA031AT*	\$38.00	6 oz.
3NO-1NC	2x2.8mm Faston	MCRA031AF*	\$41.00	6 oz.
3NO-1NC	1x6.3mm Faston	MCRA031AH*	\$41.00	6 oz.
3NO-1NC	PC Board	MCRA031AI*	\$41.00	6 oz.
2NO-2NC	Standard Screw	MCRA022AT*	\$38.00	6 oz.
2NO-2NC	2x2.8mm Faston	MCRA022AF*	\$41.00	6 oz.
2NO-2NC	1x6.3mm Faston	MCRA022AH*	\$41.00	6 oz.
2NO-2NC	PC Board	MCRA022AI*	\$41.00	6 oz.
1NO-3NC	Standard Screw	MCRA013AT*	\$38.00	6 oz.
1NO-3NC	2x2.8mm Faston	MCRA013AF*	\$41.00	6 oz.
1NO-3NC	1x6.3mm Faston	MCRA013AH*	\$41.00	6 oz.
1NO-3NC	PC Board	MCRA013AI*	\$41.00	6 oz.
4NC	Standard Screw	MCRA004AT*	\$38.00	6 oz.
4NC	2x2.8mm Faston	MCRA004AF*	\$41.00	6 oz.
4NC	1x6.3mm Faston	MCRA004AH*	\$41.00	6 oz.
4NC	PC Board	MCRA004AI*	\$41.00	6 oz.

¹Complete product number reference by replacing the "*" with the letter corresponding to the voltage and frequency of the control circuit.

²Packaged in multiples of 20 units. Each product number represents one unit.

(Replace asterisk (*) in product number with coil product number suffix.)

Mini Contactors Coil Voltage Selection

50/60Hz	24	42	48	110-115			220-230	240			
50 Hz					115-127				380-400	415-440	500
60Hz				120		208			440	480	600
Product Number Suffix	1	2	9	J	К	М	6	7	U	W	Y

DC Operated Control Relays

			List Price	
Contact Configuration	Mounting Type	Product Number ^{2,3}	GO-10A1	Approx. Weight Each
4NO	Standard Screw	MCRC040AT**	\$48.00	6 oz.
4NO	2x2.8mm Faston	MCRC040AF**	\$51.00	6 oz.
4NO	1x6.3mm Faston	MCRC040AH**	\$51.00	6 oz.
4NO	PC Board	MCRC040AI**	\$51.00	6 oz.
3NO-1NC	Standard Screw	MCRC031AT**	\$48.00	6 oz.
3NO-1NC	2x2.8mm Faston	MCRC031AF**	\$51.00	6 oz.
3NO-1NC	1x6.3mm Faston	MCRC031AH**	\$51.00	6 oz.
3NO-1NC	PC Board	MCRC031AI**	\$51.00	6 oz.
2NO-2NC	Standard Screw	MCRC022AT**	\$48.00	6 oz.
2NO-2NC	2x2.8mm Faston	MCRC022AF**	\$51.00	6 oz.
2NO-2NC	1x6.3mm Faston	MCRC022AH**	\$51.00	6 oz.
2NO-2NC	PC Board	MCRC022AI**	\$51.00	6 oz.

²Packaged in multiples of 20 units. Each product number represents one unit.

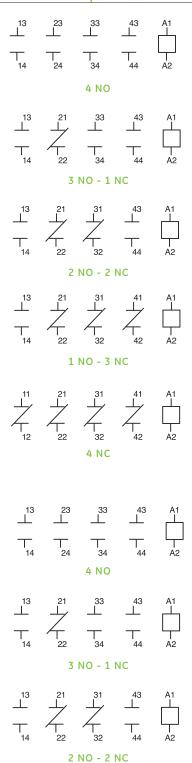
³Complete product number reference by replacing the "**" with the letter corresponding to the voltage and frequency of the control circuit.

(Replace asterisks (**) in product number with coil product number suffix.) Coil Voltage Selection

ЪС	Coil	Voltages
DC	COII	voituges

Voltage	DC	12	24	48	110	125	250
Product Number Suffix		В	D	G	J	L	S
DC Wide Range Coil Volto	iges						
DC Wide Range Coil Volto Voltage	iges DC	24		48	72	!	110

Contact Arrangement/ Terminal Numbers per EN 50011



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IEC Power Devices Mini Control Relays and Accessories C-2000

Contact Rating A600, Q300

PLC Control Relays—Standard Screw Type Terminals

Contact Configuration	Coil Voltage	Coil Wattage	Product Number	List Price GO-10A1
2NO-2NC	24 VDC	1.2w	MCRI022ATD	\$48.00
3NO-1NC	24 VDC	1.2w	MCRI031ATD	\$48.00
4 NO	24 VDC	1.2w	MCRI040ATD	\$48.00
2NO-2NC	24 VDC	2w	MCRK022ATD	\$48.00
3NO-1NC	24 VDC	2w	MCRK031ATD	\$48.00
4NO	24 VDC	2w	MCRK040ATD	\$48.00

Minimum order is 140 pieces. Packaged in multiples of 10 units. Each product number represents one unit.



2-Pole Front-Mounted Auxiliary Contact Block MARN2/MACN2

Front-Mounted Auxiliary Contact Blocks

			List Price	
Contact Configuration	For Use With	Product Number	GO-10A1	Approx. Weight Each
2NO	Relays	MARN220AT	\$12.00	1 oz.
1NO-1NC	Relays	MARN211AT	\$12.00	1 oz.
2NC	Relays	MARN202AT	\$12.00	1 oz.
4NO	Relays	MARN440AT	\$22.00	2 oz.
3NO-1NC	Relays	MARN431AT	\$22.00	2 oz.
2NO-2NC	Relays	MARN422AT	\$22.00	2 oz.
1NO-3NC	Relays	MARN413AT	\$22.00	2 oz.
4NC	Relays	MARN404AT	\$22.00	2 oz.

4-Pole Front-Mounted Auxiliary Contact

Block MARN4/MACN4

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

Front-mounted contacts may be combined with side auxiliary contacts for a total maximum number of six added auxiliary contacts.

Contact Arrangement/ <u>Terminal Numbers per EN 50005</u> ____⁵³ ___⁶³



Section 5













