

GENERAL PURPOSE ROUND RELAYS

GR SERIES



- ◆ High Capacity 10 Amp rated
- ◆ LED indication
- ◆ Push-to-test button
- ◆ Transparent dust cover
- ◆ 2- or 3-pole configurations
- ◆ RoHS compliant
- ◆ UL/cUL, CE approval



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Macromatic GR Series General Purpose Relays provide high reliability and durability for applications requiring an economical solution.

These “cube style” relays are configured with Octal (Round) Style terminals and are rated for 10,000,000 mechanical operations. Even though compact in size, these relays provide up to 10 Amp contacts at various AC and DC coil voltage ratings.

Sockets for GR Series relays can be DIN-rail or screw-mounted.

TYPICAL MODEL CODE

BASE PART NUMBER		OPTIONS	
Leave blank if not selected		Leave blank if not selected	
Series	Control Voltage	Output Contacts	Options
GR	120A 120V AC 024D 24 V DC	2 2 Form C 3 3 Form C	T Omit Push-to-Test

OUTPUT CONTACTS	CONTACT RATING	CONTROL VOLTAGE	CATALOG NUMBER	WIRING/SOCKET
2 FORM C	10 Amp	24V DC	GR024D2 GR024D2T	8-Pin Octal Socket SR2ZC3 Bottom View DIAGRAM 820
	10 Amp	120V AC	GR120A2 GR120A2T	
3 FORM C	10 Amp	24V DC	GR024D3 GR024D3T	11-Pin Octal Socket SR3ZC3 Bottom View DIAGRAM 821
	10 Amp	120V AC	GR120A3 GR120A3T	

See page 9 for additional socket information

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APPLICATION DATA

Load (Burden):

DC: approximately 1.4 W; AC: approximately 3.0 VA

Voltage Maximum: 250V

Output Contacts:

10A 250V AC/30V DC 2500 VA/300 W

Horsepower Rating,

1/3 HP 120V AC

1/3 HP 240V AC

1/2 HP 277V AC

Wire Size:

(1) 12-20 AWG, solid or stranded

(2) 16-20 AWG, solid or stranded

Life:

10,000,000 mechanical operations

100,000 electrical operations

Temperature: -40° C to 55° C (-40° F to 131° F)

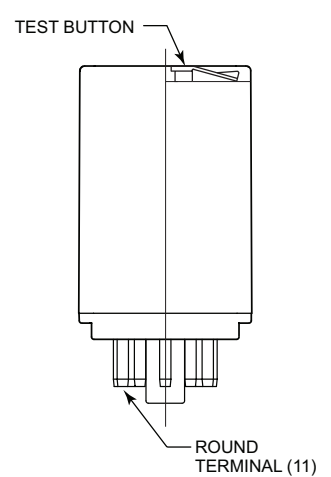
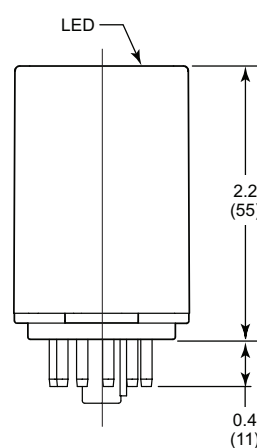
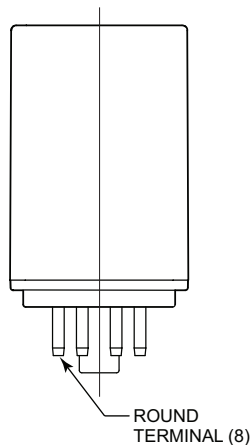
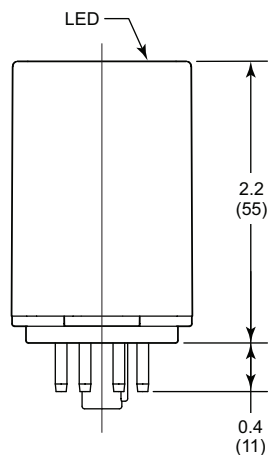
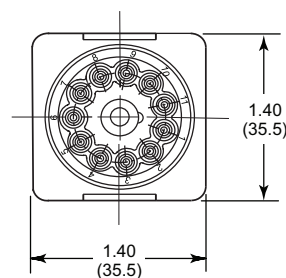
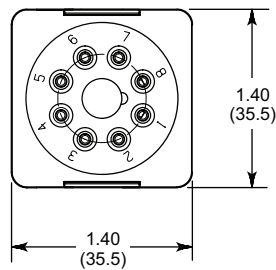
Unit Weight: Approximately 0.20 lb (90 g)

Approvals: UL/cUL, CE, RoHS compliant



GR120A2 Relay on SR2C3 Socket, left, and GR024D3 Relay on SR3ZC3 Socket, right (Sockets ordered separately)

DIMENSIONS



2 Form C (2 Pole)

3 Form C (3 Pole)

Dimensions in Inches (Millimeters)