

# 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

**UL**  
File #E109466



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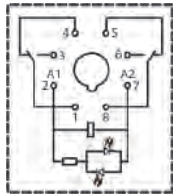
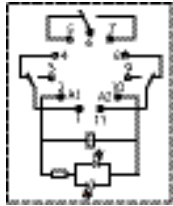
Macromatic GR Series General Purpose Relays provide high reliability and durability for applications requiring an economical solution.

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	
Series		Control Voltage	Output Contacts	Options	
GR	Octal (Round) Terminal		2 2 Form C	T	Omit Push-to-Test
			3 3 Form C		
		120A 120V AC			
		024D 24 V DC			

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

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)

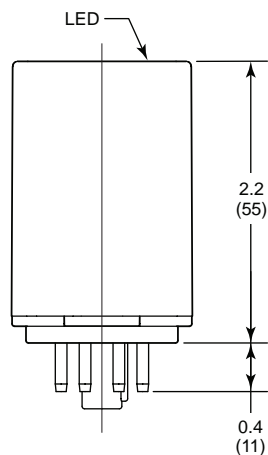
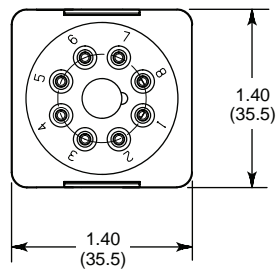
**Unit Weight:** Approximately 0.20 lb (90 g)

**Approvals:** UL/cUL, CE, RoHS compliant

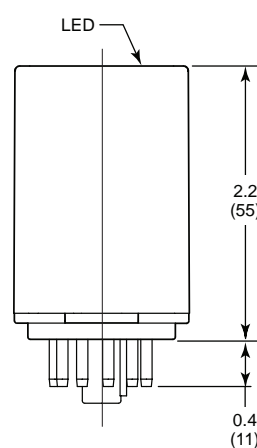
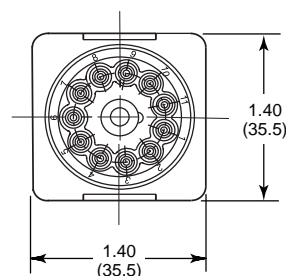
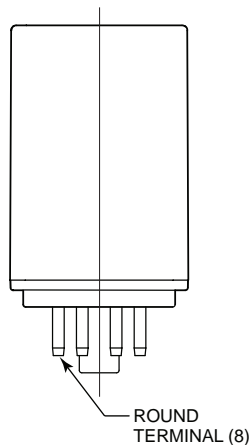


GR120A2 Relay on SR2C3 Socket, left, and  
GR024D3 Relay on SR3ZC3 Socket, right  
(Sockets ordered separately)

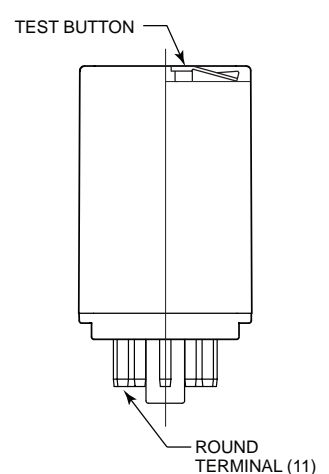
### DIMENSIONS



2 Form C (2 Pole)



3 Form C (3 Pole)



Dimensions in Inches (Millimeters)