Heavy Duty Power Relay

30 Amp Heavy Duty Relay

- Class F coil insulation system for 155°C (311°F)
- Coil molded in DuPont Rynite® for environmental protection
- · Rugged construction rivets terminals to base
- CUL_{US} Listed
- · Short Circuit Current Rating (SCCR) of 5kA, 600VAC



Ordering Information

To Order: Select part number and add the desired coil voltage rating (e.g. MGN1C-AC24)

Base size	Contact Form	Model
Short	SPDT	MGN1C
	SPST-NO	MGN1A
	SPST-NO-DM	MGN1X (see note)
	DPST-NO	MGN2A
Long	DPDT	MGN2C
	DPDT	MGN2CM (see note)
MG series dust cover	·	MGCOV

Note 1: MGN2CM is magnetic blow-out type. Available in following coil voltages:

AC: 120, 240 DC: 12, 24, 48

Note 2: MGN1X is available in following coil voltages:

AC: 12, 24, 120 DC: 12, 24

Specifications

■ Contact Data

Materials	All versions 5/16" diameter Ag-Alloy	
	30 amp or 1-1/2 hp @ 120 or 240 VAC, 2 hp @ 240 VAC, 3,600w @ 120 or 240 VAC (ballast), 30 amp @ 240 VAC, 100,000 cycle (resistive), 20 amp @ 600 VAC, 30 amp @ 28 VDC	
UL file number	E323870	

Note: Magnetic Blow-out versions also have a 20 amp @ 125 VDC (resistive) load rating.

■ Coil Data

AC

Nominal voltage	Resistance in Ohms ± 10%	Nominal coil power	Coil voltages	Coil treatment	Insulation resistance	Pick up voltage at 25 C (77 F)
6 VAC*	0.85	9.5 VA	Up to 600	Molded Rynite®	100 megohms	85% or less
12 VAC*	2.85		volts/60 Hz	Std. Class F	min.	of nominal
24 VAC	11.5					
120 VAC	295					
240 VAC	1,170					
480 VAC*	4,860					

DC

Nominal voltage	Resistance in Ohms ± 10%	Nominal coil power	Coil voltages	Coil treatment	Insulation resistance	Pick up voltage at 25 C (77 F)
6 VDC*	18	2W	Up to 125 volts	Molded Rynite®	100 megohms	75% or less
12 VDC	72			Std. Class F	min.	of nominal
24 VDC	290					
48 VDC*	1,150					
110 VDC*	6,050					

Note: All rated coil voltages denoted by * will be manufactured upon special request. Please consult with an Omron Representative for more details.

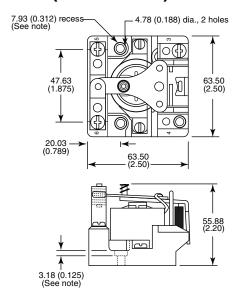
■ Characteristics

Operate time		Approximately 30 ms			
Release time		Approximately 30 ms			
Operating ambient temperature		AC: -45 to 80 C (-49 to 176 F) @ 30 amps			
		DC: -45 to 115 C (-49 to 239 F) @ 30 amps			
Coil temperature rise		25 C ambient-continuous duty			
		AC: 70 C (158 F) approx. @ 60 Hz (use at 50 Hz will cause slight increase in coil rise)			
		DC: 35 C (95 F) approx.			
Life expectancy	Electrical at rated load	100,000 operations (minimum)			
	Mechanical	1,000,000 operations			
Dielectric strength		2,200 VRMS, 60 Hz between contacts 2,200 VRMS, 60 Hz between other elements			
Terminals		Screw type			
		Short base version: approx 227 g (8 oz) Long base version: approx 283 g (10 oz)			

Dimensions

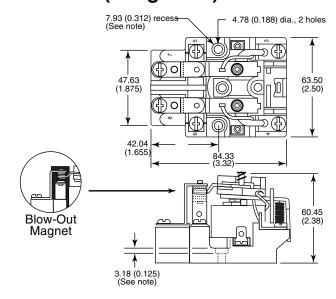
Unit: mm (inch)

■ MGN (Short Base)



Note: Recess for screw mounting on units with 300-600 VAC coils

■ MGN (Long Base)



Note: Recess for screw mounting on units with 300-600 VAC coils

■ MG Series Dust Cover (Optional)



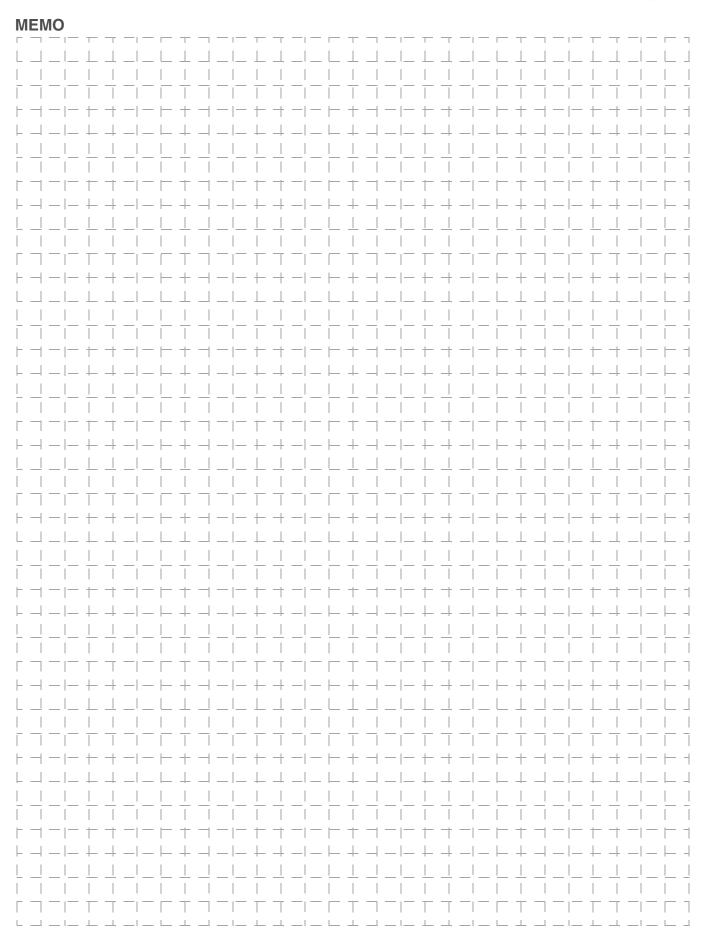
Sealed knock-out holes for standard conduit fittings. Relay mounts on pre-drilled base. Constructed of Aluminum. Snap-action cover release.

127W x 76.2H x 101.6D mm (5W x 3H x 4D in)

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.







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