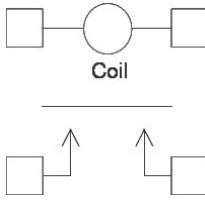
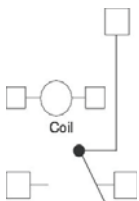
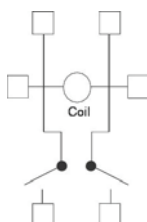
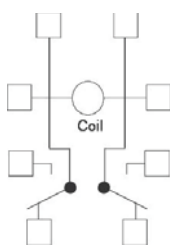


700-HG Power Relay

- 40 A Contact Ratings
- SPST-NO-DM, SPDT, DPST-NO, DPDT
- Panel Mounted
- Options: Magnetic Blowout for High DC Loads, Auxiliary Snap Action Switch
- Screw Terminals #6-32 for Coil, #8-32 for Contacts

	Description	Contact Ratings	Wiring Diagrams	Coil Voltage	Cat. No. ⁽¹⁾
	SPST-NO-DM 1 Form X AgCdO Contacts	40 A (A600)		24V AC	700-HG45A24
				120V AC	700-HG45A1
				240V AC	700-HG45A2
				277V AC	700-HG45A27
				480V AC	700-HG45A4
				12V DC	700-HG45Z12
				24V DC	700-HG45Z24
				48V DC	700-HG45Z48
				110V DC	700-HG45Z1
	SPDT 1-pole 1 Form C AgCdO Contacts	40 A (A600)		24V AC	700-HG46A24
				120V AC	700-HG46A1
				240V AC	700-HG46A2
				12V DC	700-HG46Z12
				24V DC	700-HG46Z24
				48V DC	700-HG46Z48
	DPST-NO 2-pole 2 Form A AgCdO Contacts	40 A (A600)		24V AC	700-HG47A24
				120V AC	700-HG47A1
				240V AC	700-HG47A2
				480V AC	700-HG47A4
				12V DC	700-HG47Z12
				24V DC	700-HG47Z24
	DPDT 2-pole 2 Form C AgCdO Contacts	40 A (A600)		24V AC	700-HG42A24
				120V AC	700-HG42A1
				240V AC	700-HG42A2
				277 AC	700-HG42A27
				12V DC	700-HG42Z12
				24V DC	700-HG42Z24
				48V DC	700-HG42Z48
				110V DC	700-HG42Z1
				220V DC	700-HG42Z2
				250V DC	700-HG42Z25

(1) Auxiliary Snap Switch Option: Add suffix (-5) to the selected 700-HG relay Cat. No., except for the 220V DC add (-5L).
Magnetic Blowout Option: Add suffix (-6) to the selected 700-HG relay Cat. No. (suppresses the arc when switching DC loads — ratings listed below).

Accessories - 700-HG Relays

Photo	Description	Pkg. Qty.	Cat. No.
	Pre-Printed Identification Tags — contains 10 sheets of pre-printed and blank tags. Each sheet contains 13 sets of the markings CR...9CR, TR...9TR, M...9M, F, R, 1S, and 117 blank tags. Tags are peel-off with sticky backing for easy placement on relays.	10	700-N40
	Blank Identification Tags — contains 10 sheets of blank identification tags for customer specialized printing. Each sheet contains 546 blank tags. Tags are peel-off with sticky backing for easy placement on relays.	10	700-N41
	Type 1 Enclosure For use with any of the listed relays. Knockouts for 1/2 in. and 3/4 in. conduit connections. The enclosure exceeds the minimum clearances required by U.S. standards, resulting in generous wiring spaces.	1	700-HN120

Auxiliary Snap Action Switch

Contact	Material	Rating	Dielectric Withstand V (1 Min.)
SPDT (1 Form C)	Silver Cad. Ox.	10 A at 120 or 240 Resistive	1500V AC RMS Contact to Frame

Specifications - 700-HG Relays

Attribute			700-HG									
Electrical Ratings												
Pilot Duty Rating ⁽¹⁾			A600									
Rated Thermal Current (<i>I</i> _{th})			40 A									
Rated Insulation Voltage (<i>U</i> _i)			600V UL									
Contact Ratings: AC Ratings SPST-NO-DM							Contact Ratings: AC Ratings SPDT, DPST - NO and DPDT					
Volts		Inductive			Resistive - Make/Break and Continuous	HP	Volts	Inductive			Resistive - Make/Break and Continuous	HP ⁽²⁾
		Make	Break	Continuous				Make	Break	Continuous		
120		60 A	6 A	10 A	40 A	2	120	60 A	6 A	10 A	40 A	1 - 1/2
240		30 A	3 A	10 A	40 A		240	30 A	3 A	10 A	40 A	
480V		15 A	1.5 A	10 A	12 A	2	480	15 A	1.5 A	10 A	5 A	1 - 1/2
600V		12 A	1.2 A	10 A	10 A		600	15 A	1.2 A	10 A	5 A	
DC Ratings: Without Magnetic Blowouts - 28V 40 A - Make, Break and Continuous Est Drop 125V 1.2...3 A												
DC Ratings: With Magnetic Blowouts:		SPST - NO - DM		SPDT, DPST - NO and DPDT								
Make, Break, and Continuous		110V	20 A	10 A								
		220V	8 A	4 A								
		325V	4 A	2 A								
		500V	2 A	—								
Permissible Coil Voltage Variation		80...100% of Nominal Voltage at 50 Hz										
		85...110% of Nominal Voltage at 60 Hz										
		80...110% of Nominal Voltage at DC										
			50 HZ	60 HZ								
Coil Consumption ±10%	AC Coils	Inrush	13 VA	16 VA								
		Sealed	10 VA	11 VA								
	DC Coils		2.0W									
Design Specification/Test Requirements												
Dielectric Withstand Voltage	Pole-to-Pole		2200V AC									
	Contact to Pole		2200V									
	Contact to Frame		2200V AC									
Mechanical												
Degree of Protection			Open Type									
Mechanical Life Operations			5 x 10 ⁶									
Switching Frequency Operations			1600/Hr									
Coil Voltage			See Overview/Product Selection									
Operating Time at Nominal Voltage at 20 °C (68 °F)		Pickup Dropout	40 ms 35 ms									
Maximum Operating Rate			—									

Specifications - 700-HG Relays

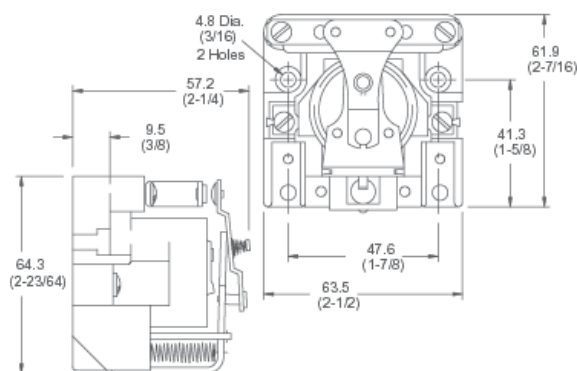
Environmental		
Temperature	Operating	30...+55 °C (-22...+149 °F)
	Storage	-30...+65 °C (-22...+149 °F)
Altitude		2000 m (6560 ft)
Construction		
Insulating Material	Molded Thermo	
	Setting Plastic	
Enclosure	—	
Contact Material	Silver Cadmium Oxide	
Terminal Markings on Socket	—	
Sockets	—	
Certifications	CSA Certified, File 225674, UL Listed, File E3125, Guide NLDX, CE Marked	
Standards	UL 508, CSA 22.2 No. 14, EN/IEC 60947-1, -5-1	

(1) NEMA Rating Chart is on page 19 of publication 700-SG003B-EN-P.

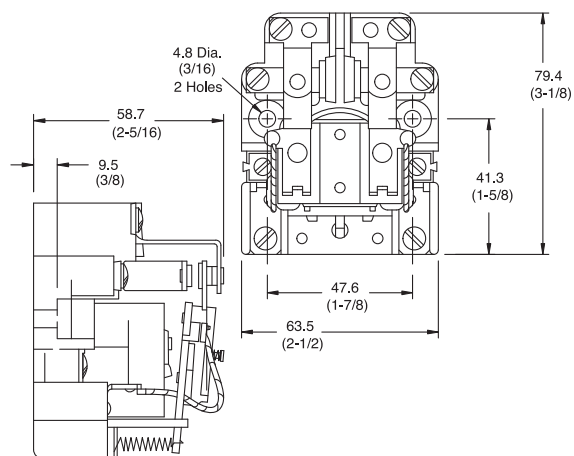
(2) For DPDT only: 2 Hp Switching 2 Poles, 200...600V AC, 50/60 Hz.

Dimensions - 700-HG Relays

Approximate dimensions are shown in millimeters (inches). Dimensions are not intended for manufacturing purposes.



700-HG Relay, SPST-NO-DM



700-HG Relay