

H750 Series Hermetically Sealed Electromechanical Relay Selection Guide

Features

- Hermetically sealed for use in hazardous locations (Class 1, Div 2, Groups A, B, C, D)
- Octal base design
Silver Cadmium Oxide, gold flashed contacts
- High open contact dielectric strength (1,500V rms)
- High reliability and long life
- High vibration and shock resistance
- DPDT and 3PDT models

H750 Series Overview	
Specification	H750 Series
Coil Voltages	120VAC, 240VAC, 12VAC, 12VDC, 24VAC, 24VDC
Configuration	DPDT or 3PDT
Contact Rating	12A
Base Socket	8-pin or 11-pin spade terminal,
Agency Approvals	UL Recognized (E344123), cULus used with 750 sockets RoHS



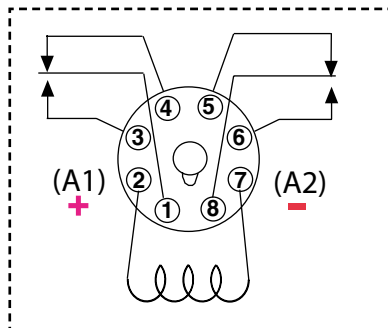
H750-2C-12D

H750 Series Hermetically Sealed Relays								
Part Number	Price	Drawing Links	Coil Voltage	Configuration	Contact Rating	Relay Socket Part Number	Price	Drawing Links
H750-2C-12D	\$;0b[7:	PDF	12VDC	DPDT	12A	750-2C-SKT	\$-b?j:	PDF
H750-2C-12A	\$;0b[6:	PDF	12VAC					
H750-2C-24D	\$;:0b[t:	PDF	24VDC					
H750-2C-24A	\$;0b[s:	PDF	24VAC					
H750-2C-120A	\$;0b[5:	PDF	120VAC					
H750-2C-240A	\$;0b[8:	PDF	240VAC	3PDT		750-3C-SKT	\$b?k:	PDF
H750-3C-12D	\$;0b[x:	PDF	12VDC					
H750-3C-12A	\$;0b[v:	PDF	12VAC					
H750-3C-24D	\$;:0b[]:	PDF	24VDC					
H750-3C-24A	\$;0b[z:	PDF	24VAC					
H750-3C-120A	\$;0b[u:	PDF	120VAC					
H750-3C-240A	\$;0b[jy:	PDF	240VAC					

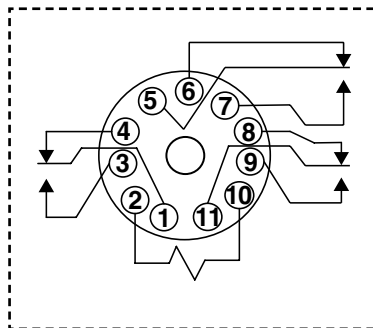
Note: Order socket separately. [750-2C-SKT](#)/[750-3C-SKT](#) socket torque 9 lb-in/ 1.0 N·m

Wiring Diagrams

H750-2C-xxx wiring diagram



H750-3C-xxx wiring diagram



Note: Contacts and coil shown are internal to the relay

H750 Series Hermetically Sealed Electromechanical Relay Specifications

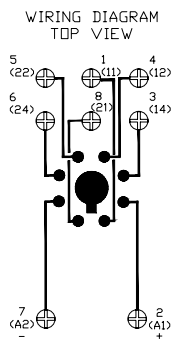
H750 Series Hermetically Sealed Relays Specifications												
Part Numbers	H750-2C-12D	H750-2C-12A	H750-2C-24D	H750-2C-24A	H750-2C-120A	H750-2C-240A	H750-3C-12D	H750-3C-12A	H750-3C-24D	H750-3C-24A	H750-3C-120A	
	General Specifications											
	Service Life	Mechanical: 10 million operations										
		Electrical: 100,000 operations @ rated resistive load										
	Operating Temperature	-40 to 55°C [-40 to 131°F]										
	Response Time	20 ms										
	Vibration Resistance	3 gn at 35–150 Hz										
	Shock Resistance	10 G										
	Weight	130g [4.6 oz]										
	Environmental Protection	IP67 (Class I, Div. 2; Groups A, B, C, D; T5 (DC) and T4A (AC) Temperature Codes)										
	NEMA B300 Pilot Duty Rated	Yes										
	*Agency Approvals and Standards	UL Recognized file E344123, CSA 244610, RoHS										
Coil Specifications												
Coil Input Voltage	12VDC	12VAC 50/60 Hz	24VDC	24VAC 50/60 Hz	120VAC 50/60 Hz	240VAC 50/60 Hz	12VDC	12VAC 50/60 Hz	24VDC	24VAC 50/60 Hz	120VAC 50/60 Hz	
Coil Resistance	120Ω	18Ω	470Ω	72Ω	1.7 kΩ	7.2 kΩ	120Ω	18Ω	470Ω	72Ω	1.7 kΩ	
Power Consumption	2.75 VA (60Hz) AC, 1.2 W DC											
Dropout Voltage (% of rated voltage)	10% (AC); 15% (DC)											
Pull-in Voltage	85% (AC); 80% (DC)											
Max. Voltage (Max. Continuous Voltage)	110% of the rated coil voltage											
Contact Specifications												
Contact Type	DPDT						3PDT					
Contact Material	Silver alloy											
Minimum Switching Requirement	100mA @ 5VDC											
Contact Rating	Refer to Contact Ratings charts											
Dielectric Strength Between Contacts	Between Coil and Contact: 1600V rms; Between Poles: 1600V rms; Between Open Contacts: 1500V rms											

*Note: UL listed when used with sockets [750-2C-SKT](#), [750-3C-SKT](#). Current limited to rating of relay or socket, whichever is less.

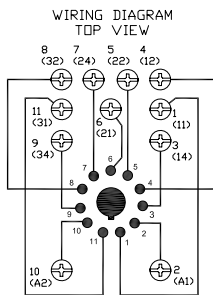
H750 Series Contact Ratings (current)				
Resistive				Motor Load
Voltage	Nominal	UL	CSA	UL
28VDC	12A	12A	12A	---
120VAC	12A	12A	12A	1/3Hp
240VAC	12A	12A	12A	1/2Hp

H750 Series Socket Wiring

Wiring Diagrams

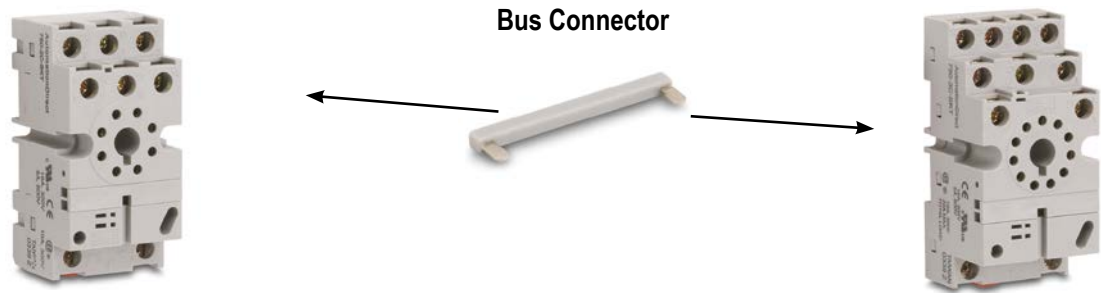


750-2C-SKT



750-3C-SKT

H750 Series Socket	
Specification	Description
Max Screw Torque	9 lb·in (1.0 N·m)
Max Wire Size	Solid or Stranded Cu: two 12–14 AWG (2.5–4 mm²)



Accessory		
Part Number	Description	Price
<u>33-796-1</u>	Coil bus connector used to connect multiple relays in parallel. Package includes 5 pairs of bus bars to connect up to 5 relays together.	\$b_9: