

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



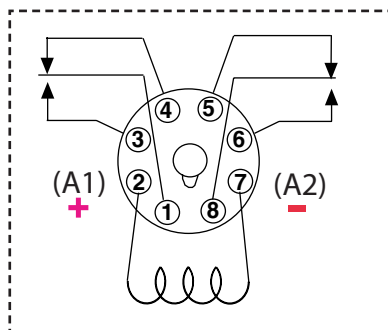
**H750-2C-12D**

H750 Series Hermetically Sealed Relays								
Part Number	Price	Drawing Links	Coil Voltage	Configuration	Contact Rating	Relay Socket Part Number	Price	Drawing Links
<a href="#">H750-2C-12D</a>	\$52.00	<a href="#">PDF</a>	12VDC	DPDT	12A	<a href="#">750-2C-SKT</a>	\$4.75	<a href="#">PDF</a>
<a href="#">H750-2C-12A</a>	\$55.00	<a href="#">PDF</a>	12VAC					
<a href="#">H750-2C-24D</a>	\$52.00	<a href="#">PDF</a>	24VDC					
<a href="#">H750-2C-24A</a>	\$55.00	<a href="#">PDF</a>	24VAC					
<a href="#">H750-2C-120A</a>	\$55.00	<a href="#">PDF</a>	120VAC					
<a href="#">H750-2C-240A</a>	\$63.00	<a href="#">PDF</a>	240VAC					
<a href="#">H750-3C-12D</a>	\$59.00	<a href="#">PDF</a>	12VDC	3PDT	12A	<a href="#">750-3C-SKT</a>	\$5.25	<a href="#">PDF</a>
<a href="#">H750-3C-12A</a>	\$59.00	<a href="#">PDF</a>	12VAC					
<a href="#">H750-3C-24D</a>	\$56.00	<a href="#">PDF</a>	24VDC					
<a href="#">H750-3C-24A</a>	\$56.00	<a href="#">PDF</a>	24VAC					
<a href="#">H750-3C-120A</a>	\$59.00	<a href="#">PDF</a>	120VAC					
<a href="#">H750-3C-240A</a>	\$59.00	<a href="#">PDF</a>	240VAC					

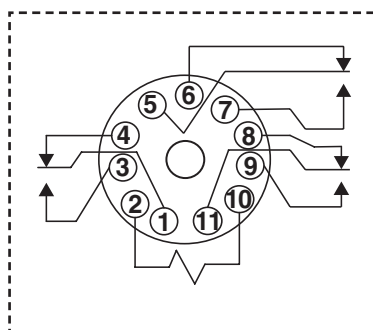
Note: Order socket separately. [750-2C-SKT](#)/[750-3C-SKT](#) socket torque 9 lb-in/ 1.0 N·m

## 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

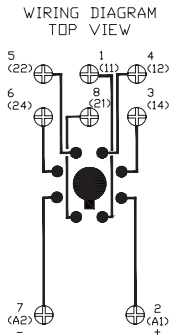
H750 Series Hermetically Sealed Relays Specifications											
Part Numbers	H750-2C-12D	H750-2C-12A	H750-2C-24D	H750-2C-24A	H750-2C-120A	H750-2C-240A	H750-3C-12D	H750-3C-12A	H750-3C-24D	H750-3C-24A	H750-3C-120A
<b>General Specifications</b>											
<b>Service Life</b>	Mechanical: 10 million operations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

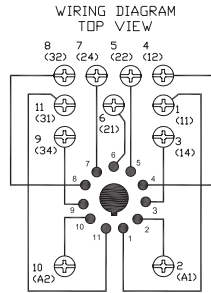
75 Series Contact Ratings (current)				
Voltage	Resistive			Motor Load
	Nominal	UL	CSA	UL
28VDC	12A	12A	12A	---
120VAC	12A	12A	12A	1/3Hp
240VAC	12A	12A	12A	1/2Hp

# 750 Series Socket Wiring

## Wiring Diagrams

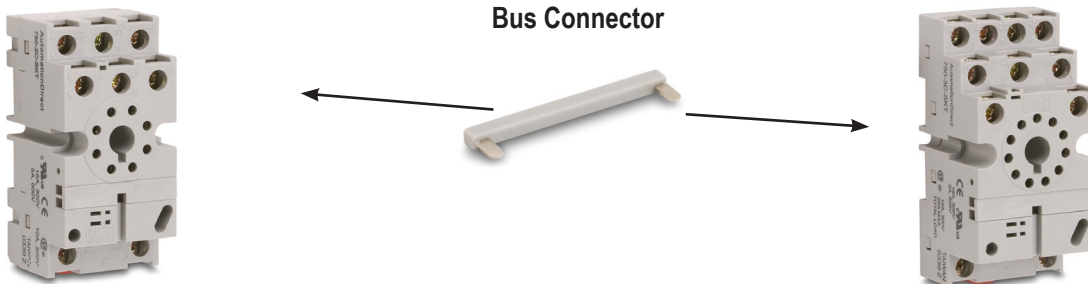


**750-2C-SKT**



**750-3C-SKT**

750 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 mm <sup>2</sup> )



Accessory		
Part Number	Description	Price
<b><u>33-796-1</u></b>	Coil bus connector used to connect multiple relays in parallel. Package includes 5 pairs of bus bars to connect up to 5 relays together.	\$3.75