

H750 Series Hermetically Sealed Electromechanical Relay Selection Guide

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 when used with 750 sockets RoHS
Prices starting at	\$47.75

H750 series hermetically sealed relays are designed for use in hazardous applications. (Class 1, Div 2, Groups A, B, C, D).

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



H750-2C-12D shown

H750 Series Hermetically Sealed Relay Selection Guide							
Part Number	Price	Coil Voltage	Configuration	Contact Rating	Dimensions	Relay Socket Part Number	Price
H750-2C-12D	\$45.00	12VDC	DPDT	12A	Figure 1	750-2C-SKT	\$4.25
H750-2C-12A	\$47.75	12VAC					
H750-2C-24D	\$45.00	24VDC					
H750-2C-24A	\$47.25	24VAC					
H750-2C-120A	\$47.25	120VAC					
H750-2C-240A	\$55.00	240VAC	3PDT	12A	Figure 2	750-3C-SKT	\$4.75
H750-3C-12D	\$50.50	12VDC					
H750-3C-12A	\$50.50	12VAC					
H750-3C-24D	\$48.25	24VDC					
H750-3C-24A	\$48.25	24VAC					
H750-3C-120A	\$50.50	120VAC					
H750-3C-240A	\$50.50	240VAC					

Note: Order socket separately. 750-2C-SKT/750-3C-SKT socket torque 9 lb-in/ 1.0 N-m

H750 Series Hermetically Sealed Electromechanical Relay Specifications

H750 Series Hermetically Sealed Relays Specification Table											
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°C to 55°C (-40°F to 131°F)										
Response Time	20 ms										
Vibration Resistance	3 gn at 35–150 Hz										
Shock Resistance	10 G										
Weight	130g (4.6 oz)										
*Agency Approvals and Standards	UL Recognized file E344123, CSA 244610, RoHS										
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										
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.

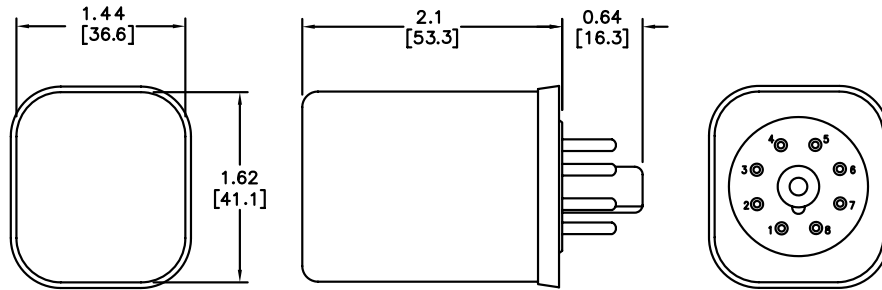
75 Series Contact Ratings (current)				
Voltage	Resistive			Motor Load
	Nominal	UL	CSA	UL
28VDC	12A	12A	12A	---
120VAC	12A	12A	12A	1/3Hp
240VAC	12A	12A	12A	1/2Hp

H750 Series Hermetically Sealed Electromechanical Relay Specifications

Dimensions

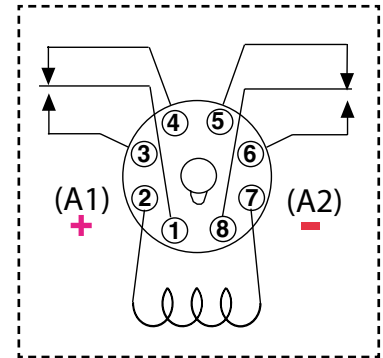
inches [mm]

**Figure 1: H750-2C Series
8-pin**



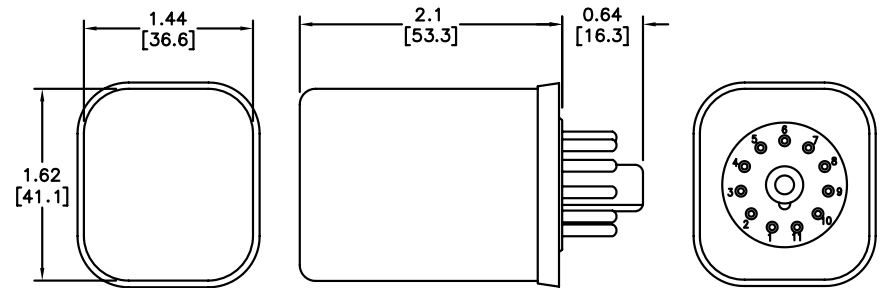
Wiring

H750-2C-xxx wiring diagram

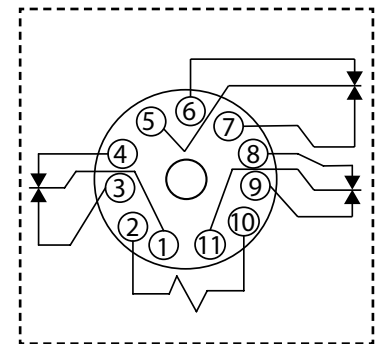


Note: Contacts and coil shown are internal to the relay

**Figure 2: H750-3C Series
11-pin**



H750-3C-xxx wiring diagram



Note: Contacts and coil shown are internal to the relay

750R Series Socket Dimensions

Dimensions

inches [mm]

Figure 3: 750-2C-SKT

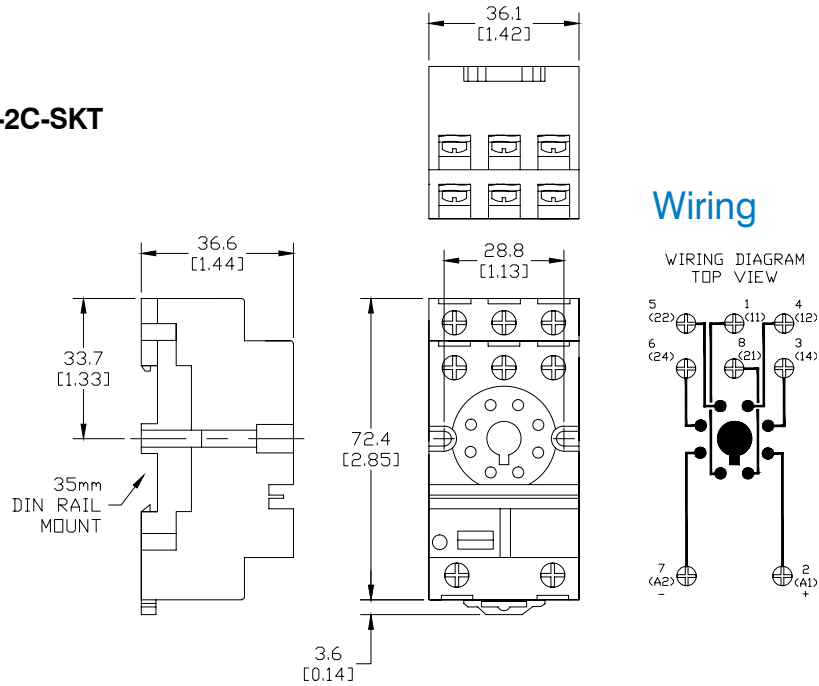
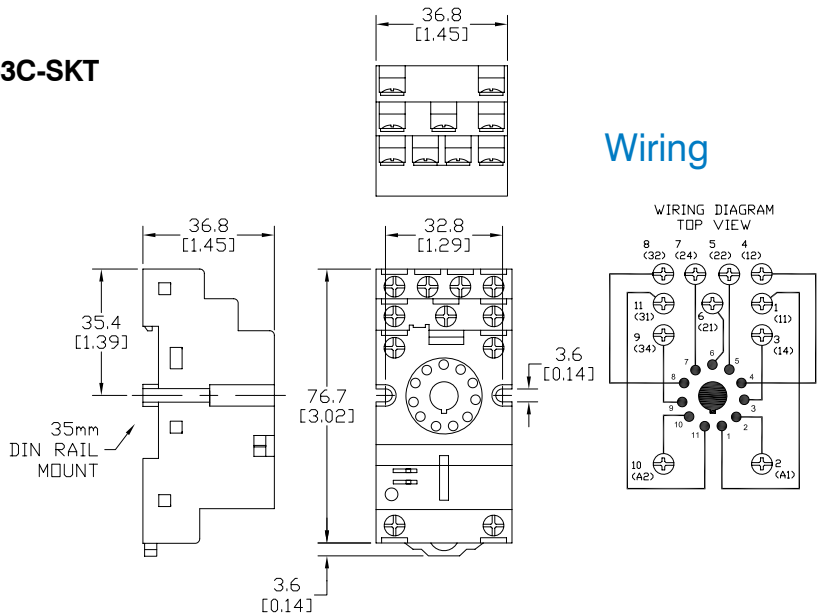


Figure 4: 750-3C-SKT



Bus Connector



Accessory		
Part Number	Description	Price
33-796-1	Coil bus connector used to connect multiple relays in parallel. Package includes 5 pairs of bus bars to connect up to 5 relays together.	\$3.25