

## Description

# Legacy General Purpose Relays

## 750H Hazardous Location Series

DPDT, 3PDT 12 A



UL Listed when used with corresponding sockets



750H Hazardous Location Relay

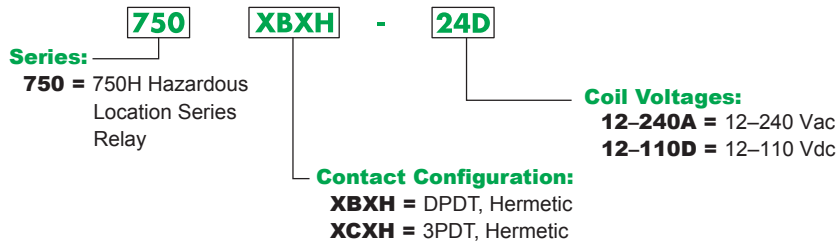
### Description

The hermetically sealed 750H Series relays comply with UL Class I Division 2 requirements for use in hazardous locations.

Feature	Benefit
Hermetically sealed	Compliance with UL Class I Division 2 for Hazardous Locations Groups A, B, C, and D; sealed for wash down conditions
Octal style mounting	Robust and historically proven mounting platform that provides excellent structural support
12 A max. switching current	Ideal choice for automation and control applications
DPDT and 3PDT contact configuration	Simultaneous control of separate circuits
Socket-mounting option	Simplified installation and maintenance; use of protection modules, hold-down clips, and other accessories

Contact Rating	Contact Configuration	Nominal Voltage	Coil Resistance (Ω)	Standard Part Number
12 A	DPDT	12 Vac, 50/60 Hz	18	750XBXH-12A
		24 Vac, 50/60 Hz	72	750XBXH-24A
		120 Vac, 50/60 Hz	1700	750XBXH-120A
		240 Vac, 50/60 Hz	7200	750XBXH-240A
		12 Vdc	120	750XBXH-12D
		24 Vdc	470	750XBXH-24D
		110 Vdc	10,000	750XBXH-110D
	3PDT	12 Vac, 50/60 Hz	18	750XCXH-12A
		24 Vac, 50/60 Hz	72	750XCXH-24A
		120 Vac, 50/60 Hz	1700	750XCXH-120A
		240 Vac, 50/60 Hz	7200	750XCXH-240A
		12 Vdc	120	750XCXH-12D
		24 Vdc	470	750XCXH-24D
		110 Vdc	10,000	750XCXH-110D

### Part Number Explanation



For more information, contact Customer Service (847-441-2540).

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## 750H Hazardous Location Series

### DPDT, 3PDT 12 A

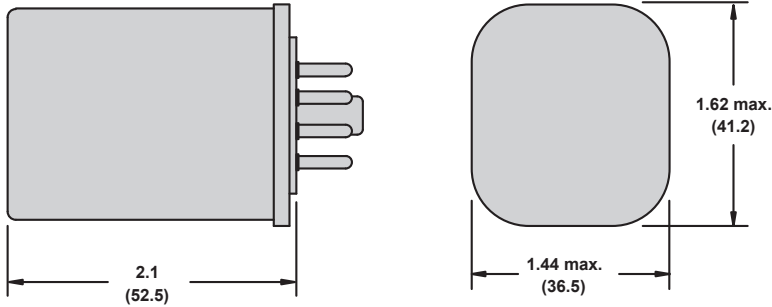
#### Specifications (UL 508)

Part Number		750XBXH	750CXH
<b>Contact Characteristics</b>			
Terminal Style		Octal	
Contact Material		Silver Alloy	
Load Type		Standard	
Contact Configuration		DPDT	3PDT
Carrying Current		12 A	
Maximum Switching Voltage		300 V	
Rated Switching Current (Conforming to UL and ANSI/ISA 12.12.01)	Resistive	12 A at 120 Vac, 50/60 Hz, 100,000 cycles 12 A at 240 Vac, 50/60 Hz, 100,000 cycles 12 A at 28 Vdc, 100,000 cycles	
	Motor	1/2 hp at 240 Vac, 50/60 Hz, 100,000 cycles 1/3 hp at 120 Vac, 50/60 Hz, 100,000 cycles	
	Pilot Duty	B300 — 100,000 cycles	
Minimum Switching Requirement		100 mA at 5 Vdc	
<b>Coil Characteristics</b>			
Maximum Operating Voltage		110% (AC/DC)	
Maximum Pickup Voltage		85% (AC); 80% (DC)	
Drop-out Voltage Threshold		15% (AC); 10% (DC)	
Average Consumption		2.75 VA at 60 Hz (AC); 1.2 W (DC)	
<b>General Characteristics</b>			
Electrical Life (at Rated Load)		100,000 operations	
Mechanical Life (No Load)		10,000,000 operations	
Maximum Operating Time		20 ms	
Dielectric Strength	Between Coil and Contact	1600 V (rms)	
	Between Poles	1600 V (rms)	
	Between Open Contacts	1500 V (rms)	
Ambient Air Temperature Around the Device	Storage	-40 to +85 °C (-40 to +185 °F)	
	Operation	-40 to +55 °C (-40 to +131 °F)	
Temperature Code for Hazardous Locations		DC: T5, Max. Ambient Temperature +70 °C AC: T4A, Max. Ambient Temperature +40 °C	
Vibration Resistance—In Operation		3 gn at 35–150 Hz	
Shock Resistance		10 gn (11 ms)	
Degree of Protection		Hermetically sealed	
Weight		130 g (4.59 oz)	
Agency Approvals		UL with socket, UR (E209950), CSA (LR40787), RoHS	

Note: Actual product performance may vary depending on the application and environmental conditions.

## Dimensions, in. (mm)

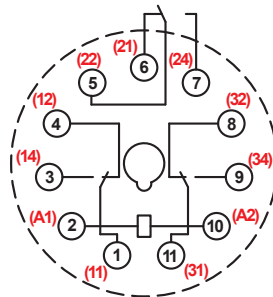
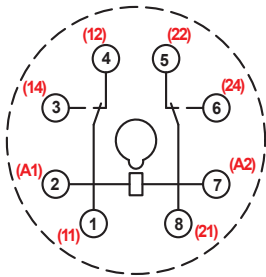
750H



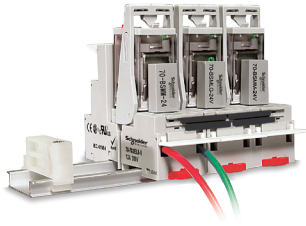
## Wiring Diagrams

DPDT

3PDT



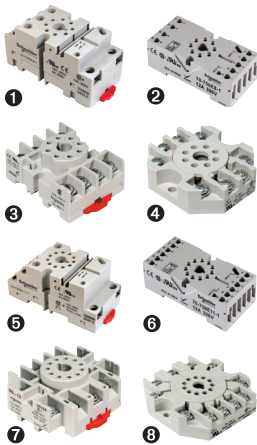
NEMA  
(IEC)



### Description

Optional sockets offer customizable solutions including protection modules, hold-down clips, and ID tags. Sockets are finger-safe according to IP20, and compatible with DIN rail or panel mounting.

### Relay Accessories



Description	Function	For Use with Relays	Pkg. Min.	Standard Part Number
Socket 1	DIN or panel mounting with screw terminals	750XBXH	10	70-750DL8-1
Socket 2	DIN or panel mounting with elevator terminals, module compatible		10	70-750E8-1
Socket 3	DIN or panel mounting with screw terminals and clamping plates		10	70-464-1
Socket 4	Panel mounting with screw terminals and clamping plates		10	70-169-1
Socket 5	DIN or panel mounting	750XCXH	10	70-750DL11-1
Socket 6	DIN or panel mounting with elevator terminals		10	70-750E11-1
Socket 7	DIN or panel mounting with screw terminals and clamping plates		10	70-465-1
Socket 8	Panel mounting with screw terminals and clamping plates		10	70-170-1

### Socket Accessories



Description	Function	For Use with Sockets	Coil Voltage	Pkg. Min.	Standard Part Number
Metal Spring Clip 1	Securing the relay in the socket	70-750DL8-1, 70-750E8-1, 70-464-1, 70-750E11-1, 70-750DL11-1, 70-465-1	—	10	16-1351
Plastic ID Tag 2	Write-on plastic labels	70-750E8-1, 70-750E11-1	—	10	16-750/788FT-1
Insulated Coil Bus Jumper System 3	Wireless socket connection	70-750DL8-1, 70-750DL11-1	—	10	16-750/788CBJ-1
Extruded Aluminum DIN Rail, 1 m (39.37 in.) 4	Quick installation and removal of sockets	70-750DL8-1, 70-750E8-1, 70-464-1, 70-750E11-1, 70-750DL11-1, 70-465-1	—	10	16-700DIN
DIN Rail End Clip 4	Holding the sockets firmly in place on a DIN rail	—	—	10	16-DCLIP-1