

Description

Magnecraft General Purpose Relays

750H Hazardous Location Series

DPDT, 3PDT 12 A



UL listed when used with proper Magnecraft sockets



750H Hazardous Location Relay

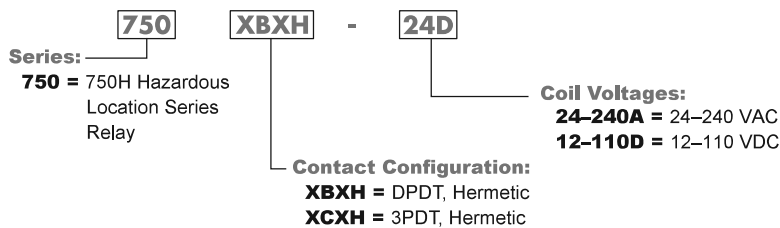
Description

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

Feature	Benefit
Hermetically sealed	Complies 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 for automation and control applications
DPDT and 3PDT contact configuration	Simultaneously control separate circuits
Socket mount option	Simplifies installation and maintenance while also allowing the 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	24 Vac 50/60 Hz	72	750XBXH-24A
		120 Vac 50/60 Hz	1700	750XBXH-120A
		12 Vdc	120	750XBXH-12D
		24 Vdc	470	750XBXH-24D
		110 Vdc	10000	750XBXH-110D
	3PDT	24 Vac 50/60 Hz	72	750XCXH-24A
		120 Vac 50/60 Hz	1700	750XCXH-120A
		24 Vdc	470	750XCXH-24D
110 Vdc		10000	750XCXH-110D	

Part Number Explanation



Please contact Customer Service for more information (847-441-2540).

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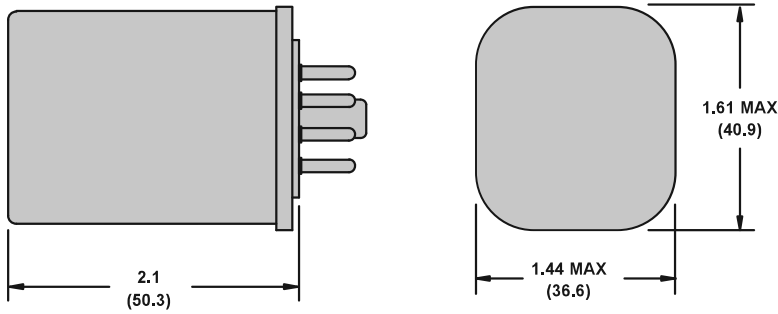
Specifications (UL 508)

Part Number	750XBXH	750XCXH
Contact Characteristics		
Terminal Style	Octal	Octal
Contact Configuration	DPDT	3PDT
Maximum Current	12 A	12 A
Load Type	Standard	Standard
Contact Materials	Silver Alloy	Silver Alloy
Maximum Switching Voltage	300 V	300 V
Rated Switching Current at Voltage (Conforming to UL and ANSI/ISA 12.12.01)	Resistive: 12 A at 120 Vac 50/60 Hz; 12 A at 240 Vac 50/60 Hz; 12 A at 28 Vdc Motor: 1/2 HP at 240 Vac 50/60 Hz; 1/3 HP at 120 Vac 50/60 Hz Pilot Duty: B300	Resistive: 12 A at 120 Vac 50/60 Hz; 12 A at 240 Vac 50/60 Hz; 12 A at 28 Vdc Motor: 1/2 HP at 240 Vac 50/60 Hz; 1/3 HP at 120 Vac 50/60 Hz Pilot Duty: B300
Minimum Switching Requirement	100 mA at 5 Vdc	100 mA at 5 Vdc
Coil Characteristics		
Maximum Operating Voltage	110% (AC / DC)	110% (AC / DC)
Maximum Pickup Voltage	85% (AC); 80% (DC)	85% (AC); 80% (DC)
Drop-out Voltage Threshold	15% (AC); 10% (DC)	15% (AC); 10% (DC)
Average Consumption	1.2 VA (AC); 0.9 W (DC)	2 VA (AC); 1.2 W (DC)
General Characteristics		
Electrical Life at Rated Load	100,000 operations	100,000 operations
Mechanical Life (Unpowered)	10,000,000 operations	10,000,000 operations
Operating Time (Response Time)	20 ms	20 ms
Dielectric Strength - Between Coil and Contact (AC)	1500 V(rms)	1500 V(rms)
Dielectric Strength - Between Poles (AC)	1500 V(rms)	1500 V(rms)
Ambient Air Temperature around the Device - Storage	-40 to +85 °C (-40 to 185 °F)	-40 to +85 °C (-40 to 185 °F)
Ambient Air Temperature around the Device - Operation	-40 to +55 °C (-40 to 131 °F)	-40 to +55 °C (-40 to 131 °F)
Vibration Resistance - Operational	3 g-n at 10-55 Hz	3 g-n at 10-55 Hz
Shock Resistance	10 g-n	10 g-n
Degree of Protection	Hermetically Sealed	Hermetically Sealed
Weight	130 g (4.59 oz)	130 g (4.59 oz)
Agency Approvals	UL with socket, UR (E209950), RoHS	UL with socket, UR (E209950), RoHS

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

Dimensions — inches (millimeters)

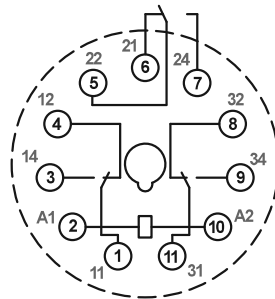
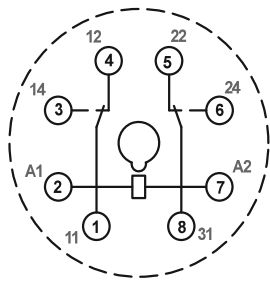
750H



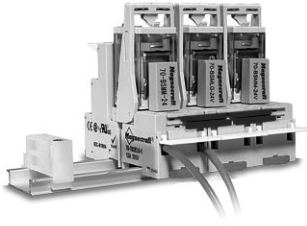
Wiring Diagrams

DPDT

3PDT



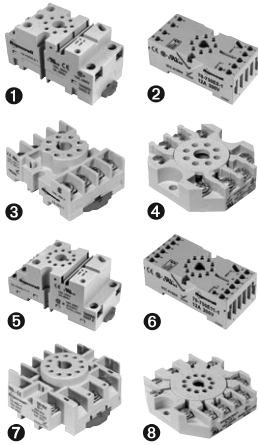
NEMA
IEC



Description

Optional sockets offer customizable, Fingersafe solutions including protection modules, hold-down clips, and ID tags. Sockets are DIN rail and panel mount compatible.

Relay Accessories



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

Socket Accessories



Description	Function	For Use With Sockets	Coil Voltage	Pkg. Min.	Standard Part Number
Metal Spring Clip 1	Secures relay in socket	70-750DL8-1, 70-750E8-1, 70-464-1, 70-750E11-1, 70-750DL11-1, 70-465-1	–	10	16-1351
Plastic I.D. 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, 39.37" (1000 mm) 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	Holds sockets firmly in place on DIN rail	–	–	10	16-DCLIP-1
Large Socket Module	MOV Suppressor (Protects from damaging electrical spikes)	70-750DL8-1, 70-750E8-1, 70-750E11-1, 70-750DL11-1	24 Vac/Vdc	10	70-ASMM-24
Large Socket Module	Protection Diode (Protects external drive circuitry from inductive voltages)		250 Vdc	10	70-ASMD-250
Large Socket Module 5	LED Indicator (Provides coil status at a glance)		110/240 Vac/Vdc	10	70-ASMLG-110/240
Large Socket Module	RC Suppressor (Snubs back EMF of relay coil)		110/240 Vac	10	70-ASMR-110/240

Note: Use of LED or RC socket module may increase coil power draw by up to 10%.