

Description

Magnecraft General Purpose Relays

782H Hazardous Location Series

4PDT 3 A and 5 A



UL Listed when used with proper Magnecraft sockets



782H Hazardous Location Relay

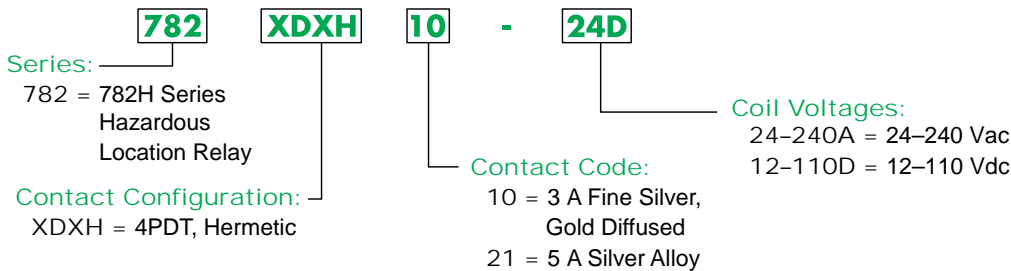
Description

The hermetically sealed 782H 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
3 A / 5 A max. switching current	Ideal choice for automation and control applications
4PDT contact configuration	Simultaneous control of up to 4 separate circuits
Screw-mounting options	Direct mounting
Socket-mounting option	Simplified installation and maintenance; use of protection modules, hold-down clips, and other accessories
Gold-flashed contacts	Reduced contact oxidation and increased shelf life

Contact Rating	Contact Configuration	Nominal Voltage	Coil Resistance (Ω)	Standard Part Number
3 A	4PDT	120 Vac, 50/60 Hz	3,900	782XDXH10-120A
		12 Vdc	160	782XDXH10-12D
		24 Vdc	650	782XDXH10-24D
		110 Vdc	11,000	782XDXH10-110D
5 A	4PDT	120 Vac, 50/60 Hz	3,900	782XDXH21-120A
		12 Vdc	160	782XDXH21-12D
		24 Vdc	650	782XDXH21-24D

Part Number Explanation



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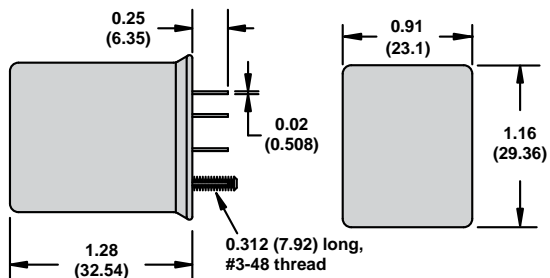
Specifications

Part Number	782XDXH21	782XDXH10
Contact Characteristics		
Terminal Style	Blade	Blade
Contact Material	Silver Alloy	Fine Silver
Load Type	Standard	Low Level
Contact Configuration	4PDT	4PDT
Carrying Current	5 A	3 A
Maximum Switching Voltage	300 V	300 V
Rated Switching Current (Conforming to IEC AC-1)	5 A at 240 Vac (N.O. or N.C. Only)	3 A at 240 Vac (N.O. or N.C. Only)
Rated Switching Current (Conforming to UL and ANSI/ISA 12.12.01)	Resistive	5 A at 120 Vac, 50/60 Hz, 100 k cycles 5 A at 240 Vac, 50/60 Hz, 100 k cycles 5 A at 30 Vdc, 100 k cycles
	Motor	— 1/10 hp at 120 Vac 1/10 hp at 240 Vac
Minimum Switching Requirement	100 mA at 5 Vdc	10 mA at 5 Vdc
Coil Characteristics		
Maximum Operating Voltage	110% (AC/DC)	
Maximum Pickup Voltage	80% (AC); 75% (DC)	
Drop-out Voltage Threshold	30% (AC); 10% (DC)	
Average Consumption	1.2 VA (AC); 0.9 W (DC)	
General Characteristics		
Electrical Life at Rated Load	100,000 operations	
Mechanical Life (Unpowered)	10,000,000 operations	
Operating Time	20 ms	
Dielectric Strength	Between Coil and Contact (AC)	1600 V (rms)
	Between Poles (AC)	1600 V (rms)
Ambient Air Temperature Around the Device	Storage	-60 to +85 °C (-76 to +185 °F)
	Operation	-45 to +70 °C (-49 to +158 °F)
Temperature Code for Hazardous Locations	T5: AC coil +40 °C (+40 °F), DC coil +70 °C (+158 °F)	
Vibration Resistance—In Operation	6 gn at 10–55 Hz	
Shock Resistance	10 gn	
Degree of Protection	Hermetically sealed	
Weight	45 g (1.59 oz)	
Agency Approvals	UL with socket, UR (E209950), CE, CSA (LR40787), RoHS	

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

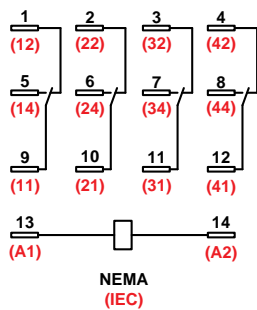
Dimensions, in. (mm)

782H



Wiring Diagrams

4PDT

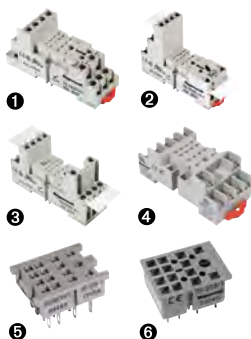




Description

Optional sockets offer customizable solutions including protection modules, hold-down clips, and ID tags. Sockets are finger protected 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 and clamping plates	782XDXH	10	70-782D14-1
Socket ②	DIN or panel mounting with elevator terminals		10	70-782EL14-1
Socket ③	DIN or panel mounting with rising elevator box terminals		10	70-782E14-1
Socket ④	DIN or panel mounting with screw terminals and clamping plates		10	70-461-1
Socket ⑤	Solder terminals for chassis mount		10	70-378-1
Socket ⑥	Printed circuit terminals for PCB mount		10	70-379-1

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	70-782D14-1, 70-782E14-1, 70-782EL14-1, 70-461-1, 70-378-1, 70-379-1	—	10	16-1342
Plastic ID Tag ②	Write-on plastic labels	70-782E14-1, 70-782EL14-1	—	10	16-782FT-1
Insulated Coil Bus Jumper System ③	Wireless socket connection	70-782EL14-1	—	10	16-782CBJ-1
Extruded Aluminum DIN Rail, 1 m (39.37 in.) ④	Quick installation and removal of sockets	70-782D14-1, 70-782EL14-1, 70-782E14-1	—	10	16-700DIN
DIN Rail End Clip ④	Holding the sockets firmly in place on a DIN rail	—	—	10	16-DCLIP-1