

H782 Series Hermetically Sealed Electromechanical Relay Selection Guide

Specification	H782 Series
Coil Voltages	120VAC, 240VAC, 12VAC, 12VDC, 24VAC, 24VDC
Configuration	4PDT
Contact Rating	3A, 5A
Base Socket	14 pin spade terminal
Agency Approvals	UL Recognized (E344123), cULus when used with 782-4C-SKT socket, CSA, CE, RoHS
Prices starting at	<--->

These ice cube style relays are designed for applications requiring hermetically sealed units for hazardous factory locations. (Class I, Div. 2 Groups A, B, C, D).

Features

- Hermetically sealed for use in hazardous locations (Class I, Div. 2 Groups A, B, C, D)
- Small package design
- Silver Cadmium Oxide gold flashed contact
- High reliability and long life
- High vibration and shock resistance
- Sealed for washdown conditions
- 4PDT models



H782-4C3-12A shown

782 Series Hermetically Sealed Relays Selection Guide								
Part Number	Price	Coil Voltage	Configuration	Contact Rating	Dimensions	Relay Socket Part Number	Price	Dimensions
H782-4C3-12D	<--->	12VDC	4PDT	3A	Figure 1	782-4C-SKT	<--->	Figure 2
H782-4C3-12A	<--->	12VAC						
H782-4C3-24D	<--->	24VDC						
H782-4C3-24A	<--->	24VAC						
H782-4C3-120A	<--->	120VAC						
H782-4C3-240A	<--->	240VAC		5A				
H782-4C5-12D	<--->	12VDC						
H782-4C5-12A	<--->	12VAC						
H782-4C5-24D	<--->	24VDC						
H782-4C5-24A	<--->	24VAC						
H782-4C5-120A	<--->	120VAC						
H782-4C5-240A	<--->	240VAC						

H782 Series Hermetically Sealed Electromechanical Relay Specifications

H782 Series Hermetically Sealed Relay Specification Table												
Part Numbers	H782-4C3-12D	H782-4C3-12A	H782-4C3-24D	H782-4C3-24A	H782-4C3-120A	H782-4C3-240A	H782-4C5-12D	H782-4C5-12A	H782-4C5-24D	H782-4C5-24A	H782-4C5-120A	H782-4C5-240A
General Specifications												
*Service Life: Mechanical / Electrical Operations	Mechanical: 10,000,000 operations unpowered Electrical life: 100,000 operations @ rated resistive load											
Operating Temperature	-40°C to 70°C (-40°F to 158°F)											
Response Time	20 ms											
Ambient Humidity	45% RH to 85% RH											
Vibration Resistance	3 G's, 10 to 55Hz (0.6mm double amplitude)											
Shock Resistance	10 G's											
Weight	45 g (1.59 oz)											
**Agency Approvals and Standards	UL Recognized File E344123, CE, CSA, RoHS											
Environmental Protection	IEC IP67 (Class I, Div. 2 Groups A, B, C, D)											
NEMA B300 Pilot Duty Rated	Yes											
Coil Specifications												
Coil Input Voltage	12VDC	12VAC	24VDC	24VAC	120VAC	240VAC	12VDC	12VAC	24VDC	24VAC	120VAC	240VAC
Coil Resistance	160Ω	43Ω	650Ω	160Ω	3.9kΩ	12kΩ	160Ω	43Ω	650Ω	160Ω	3.9kΩ	12kΩ
Power Consumption	0.9W DC; 1.2VA @ 60Hz AC @ 25°C											
Dropout Voltage (% of nominal voltage or more)	15% AC, 10% DC											
Pull-in Voltage (% of nominal voltage or less)	85% AC, 80% DC											
Max. Voltage (Max. continuous voltage)	110% of the rated coil voltage											
Contact Specifications												
Contact Type	4PDT											
Contact Material	Fine silver, gold flashed						Silver alloy					
Minimum Switching Requirement	10 mA @ 5VDC						100mA @ 5VDC					
Max. Contact Rating	Refer to Contact Ratings charts.											
Dielectric Strength Between Contacts	500V rms											

*Note: These devices are rated for 1,000 cycles when used in a motor application. (Per Table 45.1, UL 508).

**Note: UL listed when used with socket 782-4C-SKT. Current limited to rating of relay or socket, whichever is less.

782 Series Contact Ratings (current)				
Voltage	Resistive			*Motor Load
	Nominal	UL	CSA	UL
30VAC	3A	3A	3A	
120VAC	3A	3A	3A	1/16 HP
240VAC	3A	3A	3A	1/10 HP

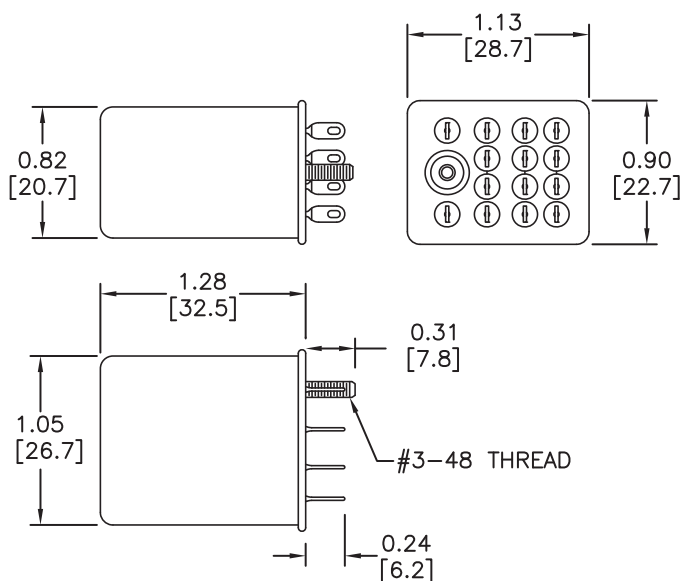
782 Series Contact Ratings (current)				
Voltage	Resistive			*Motor Load
	Nominal	UL	CSA	UL
30VAC	5A	5A	5A	
120VAC	5A	5A	5A	
240VAC	5A	5A	5A	

H782 Series Hermetically Sealed Electromechanical Relay Dimensions

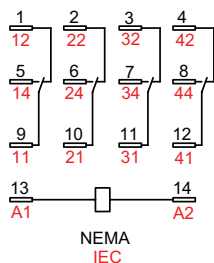
Dimensions

inches [mm]

Figure 1: H782-4C3-xx and H782-4C5-xx



Wiring



**Wiring Diagram
Bottom View**

Socket for H782 Series Hermetically Sealed Electromechanical Relay



Part Number	Price	Maximum Screw Torques	Maximum Wire Sizes
782-4C-SKT	<-->	All terminals: 9 in-lbs/1Nm	All terminals: 12 to 20 AWG, solid or stranded, one or two identical wires

Dimensions

inches [mm]

Figure 2: 782-4C-SKT

