

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	\$25.50

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).



H782-4C3-12A shown

Features

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

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	\$35.00	12VDC	4PDT	3A	Figure 1	782-4C-SKT	\$3.75	Figure 2
H782-4C3-12A	\$25.50	12VAC						
H782-4C3-24D	\$35.00	24VDC						
H782-4C3-24A	\$34.75	24VAC						
H782-4C3-120A	\$40.25	120VAC						
H782-4C3-240A	\$29.00	240VAC						
H782-4C5-12D	\$35.50	12VDC		5A				
H782-4C5-12A	\$38.50	12VAC						
H782-4C5-24D	\$35.50	24VDC						
H782-4C5-24A	\$28.25	24VAC						
H782-4C5-120A	\$39.75	120VAC						
H782-4C5-240A	\$42.25	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	20ms												
Vibration Resistance	6 gn at 10–55 Hz												
Shock Resistance	10 G's												
Weight	45g (1.59 oz)												
**Agency Approvals and Standards	UL Recognized File E344123, CE, CSA, RoHS												
Environmental Protection	IP67 (Class I, Div. 2; Groups A, B, C, D; T5 Temp Code for Hazardous Locations)												
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; 1.2 VAC												
Dropout Voltage (% of nominal voltage or more)	30% AC, 10% DC												
Pull-in Voltage (% of nominal voltage or less)	80% AC, 75% 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	10mA @ 5VDC						100mA @ 5VDC						
Max. Contact Rating	Refer to Contact Ratings charts.												
Dielectric Strength Between Contacts	Between Coil and Contact = 1600V rms ; Between Poles = 1600V 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	1/10 HP	
240VAC	3A	3A	3A	1/10 HP	

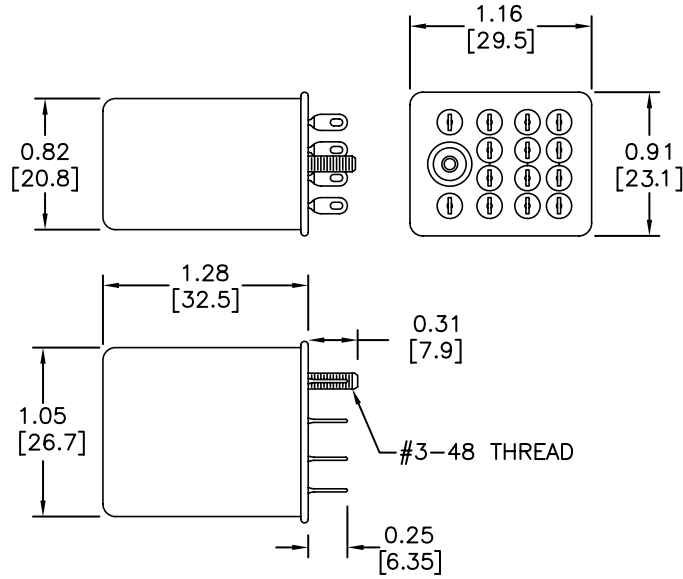
782 Series Contact Ratings (current)					
Voltage	Resistive			*Motor Load	
	Nominal	UL	CSA	UL	
30VAC	5A	5A	5A		
120VAC	5A	5A	5A		
240VAC	5A	5A	5A		

H782 Series Hermetically Sealed Electromechanical Relay Dimensions

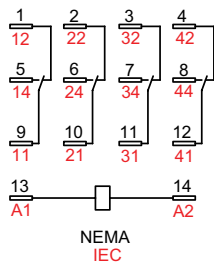
Dimensions

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	\$3.75	All terminals: 9 in-lbs/1 N-m	All terminals: 12 to 20 AWG, solid or stranded, one or two identical wires

Dimensions

inches [mm]

Figure 2: 782-4C-SKT

