

# H782 Series Hermetically Sealed Electromechanical Relay Selection Guide

Specification	H782 Series
<b>Coil Voltages</b>	120VAC, 240VAC, 12VAC, 12VDC, 24VAC, 24VDC
<b>Configuration</b>	4PDT
<b>Contact Rating</b>	3A, 5A
<b>Base Socket</b>	14 pin spade terminal
<b>Agency Approvals</b>	UL Recognized (E344123), cULus when used with 782-4C-SKT socket, CSA, CE, RoHS
<b>Prices starting at</b>	\$35.00

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
<b>H782-4C3-12D</b>	\$35.00	12VDC	4PDT	3A	Figure 1	<b>782-4C-SKT</b>	\$3.75	Figure 2
<b>H782-4C3-12A</b>	\$35.00	12VAC						
<b>H782-4C3-24D</b>	\$35.00	24VDC						
<b>H782-4C3-24A</b>	\$34.75	24VAC						
<b>H782-4C3-120A</b>	\$40.25	120VAC						
<b>H782-4C3-240A</b>	\$40.25	240VAC						
<b>H782-4C5-12D</b>	\$35.50	12VDC		5A				
<b>H782-4C5-12A</b>	\$38.50	12VAC						
<b>H782-4C5-24D</b>	\$35.50	24VDC						
<b>H782-4C5-24A</b>	\$37.00	24VAC						
<b>H782-4C5-120A</b>	\$39.75	120VAC						
<b>H782-4C5-240A</b>	\$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	
<b>General Specifications</b>													
<b>*Service Life: Mechanical / Electrical Operations</b>	Mechanical: 10,000,000 operations unpowered Electrical life: 100,000 operations @ rated resistive load												
<b>Operating Temperature</b>	-40°C to 70°C (-40°F to 158°F)												
<b>Response Time</b>	20ms												
<b>Vibration Resistance</b>	6 gn at 10-55 Hz												
<b>Shock Resistance</b>	10 G's												
<b>Weight</b>	45g (1.59 oz)												
<b>**Agency Approvals and Standards</b>	UL Recognized File E344123, CE, CSA, RoHS												
<b>Environmental Protection</b>	IP67 (Class I, Div. 2; Groups A, B, C, D; T5 Temp Code for Hazardous Locations)												
<b>NEMA B300 Pilot Duty Rated</b>	Yes												
<b>Coil Specifications</b>													
<b>Coil Input Voltage</b>	12VDC	12VAC	24VDC	24VAC	120VAC	240VAC	12VDC	12VAC	24VDC	24VAC	120VAC	240VAC	
<b>Coil Resistance</b>	160Ω	43Ω	650Ω	160Ω	3.9kΩ	12kΩ	160Ω	43Ω	650Ω	160Ω	3.9kΩ	12kΩ	
<b>Power Consumption</b>	0.9W DC; 1.2 VAC												
<b>Dropout Voltage (% of nominal voltage or more)</b>	30% AC, 10% DC												
<b>Pull-in Voltage (% of nominal voltage or less)</b>	80% AC, 75% DC												
<b>Max. Voltage (Max. continuous voltage)</b>	110% of the rated coil voltage												
<b>Contact Specifications</b>													
<b>Contact Type</b>	4PDT												
<b>Contact Material</b>	Fine silver, gold flashed						Silver alloy						
<b>Minimum Switching Requirement</b>	10mA @ 5VDC						100mA @ 5VDC						
<b>Max. Contact Rating</b>	Refer to Contact Ratings charts.												
<b>Dielectric Strength Between Contacts</b>	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	

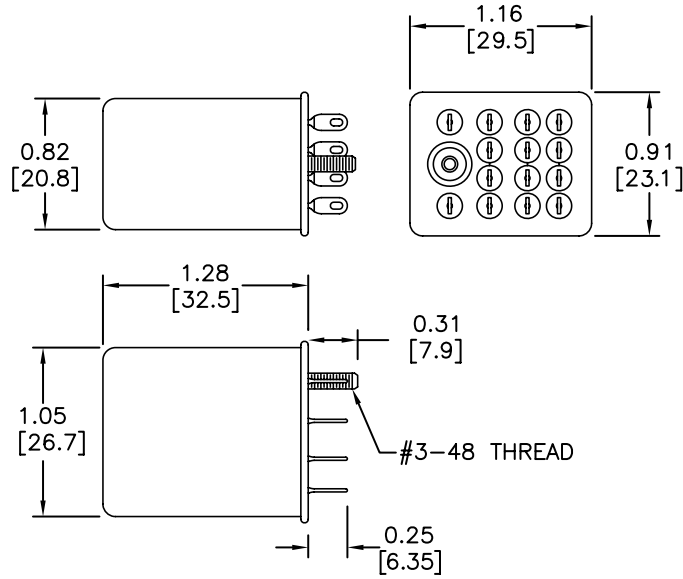
782 Series Contact Ratings (current)					
Voltage	Resistive			*Motor Load	
	Nominal	UL	CSA	UL	
30VAC	5A	5A	5A		
120VAC	5A	5A	5A		
240VAC	5A	5A	5A		

# H782 Series Hermetically Sealed Electromechanical Relay Dimensions

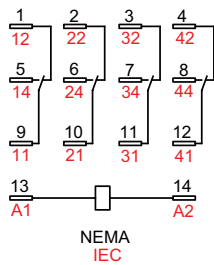
## Dimensions

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
<b>782-4C-SKT</b>	\$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

