

# H782 Series Hermetically Sealed Electromechanical Relay Selection Guide

## 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

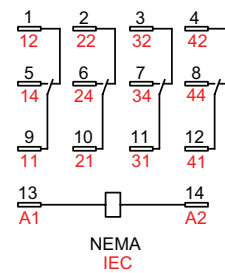
H782 Series Overview	
<b>Specification</b>	<b>H782 Series</b>
<b>Coil Voltages</b>	120VAC, 240VAC, 12VAC, 12VDC, 24VAC, 24VDC
<b>Configuration</b>	4PDT
<b>Contact Rating</b>	3A, 5A
<b>Base Socket</b>	14 pin spade terminal
<b>Agency Approvals</b>	UL Recognized (E344123), cULus when used with 782-4C-SKT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



**H782-4C3-12A**

782 Series Hermetically Sealed Relays								
Part Number	Price	Drawing Link	Coil Voltage	Configuration	Contact Rating	Relay Socket Part Number	Price	Drawing Link
<a href="#">H782-4C3-12D</a>	\$41.00	<a href="#">PDF</a>	12VDC	4PDT	3A	<a href="#">782-4C-SKT</a>	\$4.25	<a href="#">PDF</a>
<a href="#">H782-4C3-12A</a>	\$41.00	<a href="#">PDF</a>	12VAC					
<a href="#">H782-4C3-24D</a>	\$41.00	<a href="#">PDF</a>	24VDC					
<a href="#">H782-4C3-24A</a>	\$40.50	<a href="#">PDF</a>	24VAC					
<a href="#">H782-4C3-120A</a>	\$48.00	<a href="#">PDF</a>	120VAC					
<a href="#">H782-4C3-240A</a>	\$48.00	<a href="#">PDF</a>	240VAC					
<a href="#">H782-4C5-12D</a>	\$41.50	<a href="#">PDF</a>	12VDC		5A			
<a href="#">H782-4C5-12A</a>	\$45.00	<a href="#">PDF</a>	12VAC					
<a href="#">H782-4C5-24D</a>	\$41.50	<a href="#">PDF</a>	24VDC					
<a href="#">H782-4C5-24A</a>	\$43.50	<a href="#">PDF</a>	24VAC					
<a href="#">H782-4C5-120A</a>	\$46.50	<a href="#">PDF</a>	120VAC					
<a href="#">H782-4C5-240A</a>	\$50.00	<a href="#">PDF</a>	240VAC					

## Wiring Diagram



Wiring Diagram  
Bottom View

# H782 Series Hermetically Sealed Electromechanical Relay Specifications

H782 Series Hermetically Sealed Relay Specifications												
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 not powered Electrical life: 100,000 operations @ rated resistive load											
<b>Operating Temperature</b>	-40 to 70°C [-40 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>	0.9 W DC; 1.2 W AC											
<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)				
Resistive				*Motor Load
Voltage	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)				
Resistive				*Motor Load
Voltage	Nominal	UL	CSA	UL
30VAC	5A	5A	5A	–
120VAC	5A	5A	5A	–
240VAC	5A	5A	5A	–

# Socket for H782 Series Hermetically Sealed Electromechanical Relay



Relay Socket						
Part Number	Price	Description	Maximum Screw Torques	Maximum Wire Sizes	Drawing Link	Agency Approval
<a href="#"><u>782-4C-SKT</u></a>	\$4.25	AutomationDirect relay socket, 35mm DIN rail or panel mount. For use with H782 series cube relays.	All terminals: 9 in·lbs/1 N·m	All terminals: 12 to 20 AWG, solid or stranded, one or two identical wires	<a href="#"><u>PDE</u></a>	UL Recognized file number: E344123