

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	
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

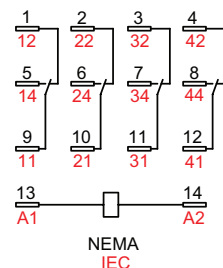


H782-4C3-12A

H782 Series Hermetically Sealed Relays

Part Number	Price	Drawing Link	Coil Voltage	Configuration	Contact Rating	Relay Socket Part Number	Price	Drawing Link
H782-4C3-12D	\$41.00	PDF	12VDC	4PDT	3A	782-4C-SKT	\$4.25	PDF
H782-4C3-12A	\$41.00	PDF	12VAC					
H782-4C3-24D	\$41.00	PDF	24VDC					
H782-4C3-24A	\$40.50	PDF	24VAC					
H782-4C3-120A	\$48.00	PDF	120VAC					
H782-4C3-240A	\$48.00	PDF	240VAC					
H782-4C5-12D	\$41.50	PDF	12VDC		5A			
H782-4C5-12A	\$45.00	PDF	12VAC					
H782-4C5-24D	\$41.50	PDF	24VDC					
H782-4C5-24A	\$43.50	PDF	24VAC					
H782-4C5-120A	\$46.50	PDF	120VAC					
H782-4C5-240A	\$50.00	PDF	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
General Specifications												
*Service Life: Mechanical / Electrical Operations	Mechanical: 10,000,000 operations not powered											
	Electrical life:100,000 operations @ rated resistive load											
Operating Temperature	-40 to 70°C [-40 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	0.9 W DC; 1.2 W AC											
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)				
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
782-4C-SKT	\$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	PDF	UL Recognized file number: E344123