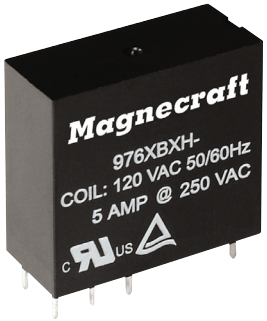
Magnecraft® PCB & Reed Relays

976

SPDT, 12 to 20 A

DPDT, 5 A



976

Description

The 976 series enclosed printed circuit board relays are used to switch resistive and inductive loads in industrial applications.

Feature	Benefit
High current switching capacity	Enables the relay to switch up to 20 A
AC coil voltages available	Expands application use
8 mm coil to contact clearance	Meets international standards
Epoxy sealed	Allows the relay to be washed after assembly

Rated Output Current (A)	Contact Configuration	Input Voltage	Coil Resistance (Ω)	Standard Part Number
5	DPDT	12 Vdc	270	976XBXH-12D
		24 Vac 50/60 Hz	250	976XBXH-24A
		24 Vdc	1100	976XBXH-24D
		120 Vac 50/60 Hz	5600	976XBXH-120A
		240 Vac 50/60 Hz	22000	976XBXH-240A
12	SPDT	24 Vac 50/60 Hz	250	976XAXH-24A
		24 Vdc	1100	976XAXH-24D
		120 Vac 50/60 Hz	5600	976XAXH-120A
		240 Vac 50/60 Hz	22000	976XAXH-240A
20	SPDT	24 Vac 50/60 Hz	250	976XAX97H-24A
		24 Vdc	1100	976XAX97H-24D
		120 Vac 50/60 Hz	5600	976XAX97H-120A

Part Number Explanation

976 **XAX** **97** **H** - **24A**

Series:
976

Contact Configuration:
AXX = SPST-NO
XAX = SPDT
XBX = DPDT

Construction:
97 = 20 A relay
Null = 5 or 12 A relay

Seal:
H = Epoxy sealed

Coil Voltage:
5DC = 5 Vdc
6DC = 6 Vdc
12DC = 12 Vdc
24DC = 24 Vdc

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976
SPDT, 12 to 20 A
DPDT, 5 A

Specifications (UL 508)

Part Number	976XAX97H	976XAXH	976XBXH
Input Characteristics			
Input Voltage Range	6–240 Vac; 3–110 Vdc		
Operating Range (% of Nominal)	85%–110%		
Average Consumption	1.2 VA; 0.53 W		
Drop-out Voltage Threshold	30% AC; 10% DC		
Output Characteristics			
Contact Configuration	SPDT	SPDT	DPDT
Contact Materials	Silver Alloy		
Output Current Load	20 A	12 A	5 A
Maximum Switching Voltage	300 V		
Output Voltage Range	20 A @ 125 Vac 50/60 Hz; 16 A @ Vac 50/60 Hz; 20 A @ 30 Vdc; 10 A @ 48 Vdc	NO: 12 A @ 240 vac 50/60 Hz, 12 A @ 30 Vdc; NC: 10 A @ 240 Vac 50/60 Hz, 10 A @ 30 Vdc	5 A @ 240 Vac 50/60 Hz; 5 A @ 30 Vdc
General Characteristics			
Electrical Life (Operations at Rated Current)	100,000 operations		
Mechanical Life (Unpowered)	10,000,000 operations		
Operating Time (Response time)	15 ms		
Dielectric Strength (Between coil and contact)	5000 V(rms)		
Dielectric Strength (Between contacts)	1000 V(rms)		
Storage Temperature Range	-40–85 °C (-40–185 °F)		
Operating Temperature Range	-40–55 °C (-40–131 °F)		
Vibration Resistance (Operational)	3 g-n, 10-55 Hz		
Shock Resistance	10 g-n		
Weight	17 g (0.6 oz)		
Agency Approvals	UR (E191122), TUV, RoHS		