



MINIATURE POWER RELAY

Single-Pole, 20A , PC Board

JQX-14FW



- 20A switching capabilities
- SPST-NO, SPST-NC and SPDT configuration
- 4KV dielectric between coil to contacts
- UL & CUR file No.: E134517
- TÜV file No.: R9659294

CONTACT DATA

Arrangement	SPST-NO, SPST-NC, SPDT	
Initial Contact Resistance	50mΩ	
Max. (at 1A 24VDC)		
Contact Material	Silver alloy	
Contact Rating (Res. Load)	16A 240VAC/24VDC 1HP 240VAC	
Max. switching voltage	277VAC/30VDC	
Max. switching current	20A	
Max. switching power	3,840VA/384W	
UL/CUR rating	20A 277V/24VDC resistive 1HP 240VAC TV-8,125Vac No only 16A 240VAC/24VDC	
TÜV rating	16A 250VAC/30VDC	
Expected operations	Mechanical	1X10 ⁷ (18,000 ops/hour)
Life min.	Electrical	1X10 ⁵

SPECIFICATION

Initial Insulation Resistance	1,000MΩ 500VDC	
Dielectric Strength		
Between coil and Contacts	4,000VAC 1minute	
Between open contacts	1,000VAC 1minute	
Surge Voltage between	10000V	
Contacts and coil	(at 4.2X50us)	
Operate time (at nomi. Vot.)	15ms	
Release time (at nomi. Vot.)	5ms	
Ambient temperature	-40 to +70℃	
Humidity	98%, +40℃	
Shock Resistance	Functional	100m/s ²
	Destructive	1,000m/s ²
Vibration Resistance	1.5mm, 10 to 55Hz	
Termination	PCB	
Unit weight	Approx. 18.5g	
Construction	Sealed and Unsealed	

COIL

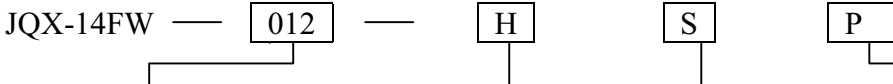
Nominal coil power	Standard:0.72W, Sensitive:0.55W
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TABLE

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage VDC (at 20 °C)	Coil Resistance Ω	
				Standard	Sensitive
5	3.6	0.5	5.5	36±10%	47±10%
6	4.3	0.6	6.6	50±10%	68±10%
9	6.5	0.9	9.9	115±10%	160±10%
12	8.6	1.2	13.2	200±10%	275±10%
18	13.0	1.8	19.8	460±10%	650±10%
24	17.3	2.4	26.4	820±10%	1100±15%
48	34.6	4.8	52.8	3300±15%	4170±15%
60	43.2	6.0	66	5100±15%	7000±15%

- When require pick-up voltage<72% of nominal voltage, special order allowed.

■ ORDERING INFORMATION



Coil voltage	Contact arrangement	Classification of type	Sensitivity
5,6,9,12,18, 24,48,60VDC	H: SPST-NO D:SPST-NC Z: SPDT	S: Sealed Nil: Unsealed	P: Standard type Nil: High sensitive

■ OUTLINE DIMENSIONS , WIRING DIAGRAM AND PC BOARD LAYOUT

	H type	D type	Z type
Outline Dimensions			
Bottom View			
Wiring Diagram			
PCB Layout			

■ USEFUL CURVES

