



30.4×28.5×18.5

# JQX-54W

UL US E160644

Features	
• Can be welded directly onto PCB.	
• Compact high capacity relay for inductive load, rushing current of 80A and steady-state current of 25A.	
• Used in household appliances like air conditioning , heater and instruments etc.	

Ordering Information	
<b>JQX-54W A 25 DC12V C B</b>	
1 Part number: JQX-54W	4 Coil rated voltage(V): DC:5,6,9,12,24,48,110
2 Contact arrangement: A:1A	5 Contact material: C:AgCdO; NIL:AgSnO <sub>2</sub>
3 Contact rating: Resistive: 25A/277VAC 30VDC Inductive:20A/250VAC; cosΦ=0.7	6 Resistance heat class: B:130℃; F:155℃

Contact Data			
Contact Arrangement	1A (SPSTNO)		
Contact Material	AgSnO <sub>2</sub> AgCdO		
Contact Rating	Resistive: 25A/277VAC, 30VDC Inductive :20A/250VAC,cosΦ=0.7 1½HP 250VAC 1HP 125VAC TV-15		
Max. Switching Power	6925VA 750W		
Max. Switching Voltage	300VAC30VDC		
Contact Resistance or Voltage drop	<50mΩ	Max. Switching Current:25A	rushing current:80A
Operation life	Electrical	10 <sup>5</sup>	Item 4.30 of IEC 61810-7
	Mechanical	10 <sup>7</sup>	Item 4.31 of IEC 61810-7

Coil Parameter								
Dash numbers	Coil voltage VDC		Coil resistance Ω ±10%	Pick up voltage VDC(max) (75% of rated voltage )	Release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max						
005-900	5	5.5	27.7	3.75	0.5	0.9	<20	<10
006-900	6	6.6	40	4.5	0.6			
009-900	9	9.9	90	6.75	0.9			
012-900	12	13.2	160	9.00	1.2			
024-900	24	26.4	640	18.00	2.4			
048-900	48	52.8	2560	36.00	4.8			
110-900	110	121	13440	82.50	11.0			

**CAUTION:** 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Operation condition		
Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength	50Hz 1200V	Item 6 of IEC 60255-5
Between contacts	50Hz 3600V	Item 6 of IEC 60255-5
Between contact and coil	surge voltage:10kV	Item 8 of IEC 60255-5
Shock resistance	Functional:100m/s <sup>2</sup> 11ms Survival:1000 m/s <sup>2</sup> 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10~55Hz double amplitude Functional 1.0mm double amplitude Survival 2.0mm	IEC 68-2-6 Test Fc IEC 68-2-6 Test Fc
Terminals strength	10N 8N	IEC 68-2-21 Test Ua1 and Ua2
Solderability	235℃ ± 2℃ 3 ± 0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-40~85℃	
Relative Humidity	20~85%	IEC 68-2-3 Test Ca
Mass	31.5g	

Safety approvals		
Safety approval	UL&CUR	CQC
Load	20A/250VAC 25A/277VAC 1½HP250VAC 1HP125VAC	25A/250VAC

### Dimensions

mm /inch

Wiring diagram(Bottom view)

Mounting (Bottom view)

NOTES 1).Dimensions are in millimeters.  
2).Inch equivalents are given for general information only.