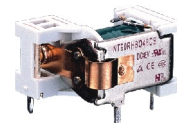


DB ELECTRO^{CO., LTD.}

Présente / Presents:

NINGBO HUAGUAN ELECTRONICS CO.,LTD.





30.4×16.0×26.0 (26.5)

JQX-54FE



R50016343 C ^{US} E160644



03001003506

Features

- Can be welded directly onto PCB.
- Used in household appliances like air conditioning , heater and instruments etc.
- Compact high capacity relay for inductive load, rushing current of 70A and steady-state current of 20A.

Ordering Information

JQX-54FE A Z 25 b DC12V C 0.9
 1 2 3 4 5 6 7 8

- | | |
|--|---|
| 1 Part number: JQX-54FE | 5 Terminal: b:PC type; NIL:PC type and QC type |
| 2 Contact arrangement: A:1A | 6 Coil rated voltage(V): DC:6,9,12,24,48 |
| 3 Enclosure: Z: Dust cover | 7 Contact material: C:AgCdO; NIL:AgSnO ₂ |
| 4 Contact rating: Resistive:25A/250VAC; 20A/277VAC
Inductive:20A/250VAC; cosΦ=0.4 | 8 Coil power consumption: 0.9:0.9W |

Contact Data

Contact Arrangement		1A (SPSTNO)	
Contact Material		AgSnO ₂ AgCdO	
Contact Rating		Resistive: 25A/250VAC, 20A/277VAC Inductive :20A/250VAC,cosΦ=0.4	
Max. Switching Power		6380VA	
Max. Switching Voltage		300VAC	
Contact Resistance or Voltage drop		≤50mΩ	
Operation life	Electrical	10 ⁵	Item 3.12 of IEC255-7
	Mechanical	10 ⁷	Item 3.31 of IEC255-7

Coil Parameter

Dash numbers	Coil voltage VDC		Rated current mA	Coil resistance Ω ±10%	Pickup voltage VDC(max) (75%of rated voltage)	Release voltage VDC(min) (5% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.							
006-900	6	7.8	150	40	4.5	0.3	0.9	≤20	≤10
009-900	9	11.7	100	90	6.7	0.5			
012-900	12	15.6	75	160	9.0	0.6			
024-900	24	31.2	37.8	640	18	1.2			
048-900	48	62.4	18.8	2560	36	2.4			

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 IEC255-5
Dielectric Strength Between contacts Between contact and coil	50Hz 1000V 50Hz 5000V surge voltage:10kV	Item 6 of IEC255-5 Item 6 of IEC255-5 Item 8 of IEC255-5
Shock resistance	Functional:100m/s ² 11ms Survival:1000 m/s ² 11ms	IEC68-2-27 Test Ea IEC68-2-27 Test Ea
Vibration resistance	10~55Hz Double amplitude Functional 1.5mm Double amplitude Survival 2.0mm	IEC68-2-6 Test Fc IEC68-2-6 Test Fc
Terminals strength	10N 8N	IEC68-2-21 Test Ua1 and Ua2
Solderability	235℃ ± 2℃ 3±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-30~70℃	
Relative Humidity	20~85%	IEC68-2-3 Test Ca
Mass	28g	

Qualification inspection:

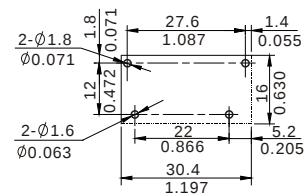
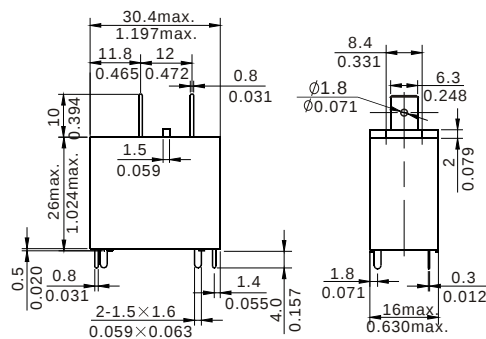
Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

Safety approvals

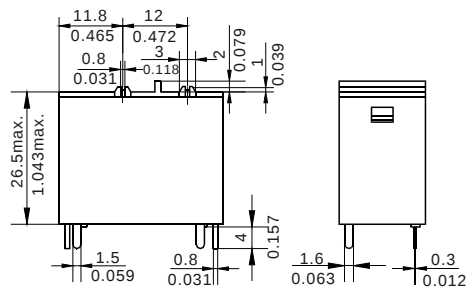
Safety approval	UL&CUR	TUV	CQC
Load	25A/250VAC 20A/277VAC 1.5HP250VAC	25A/250VAC 20A/250VAC COSΦ=0.4	25A/250VAC

Dimensions

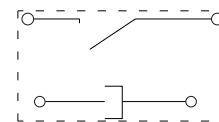
mm /inch



Mounting (Bottom view)



Dimensions



Wiring diagram (Bottom view)

NOTES 1).Dimensions are in millimeters.

2).Inch equivalents are given for general information only.