

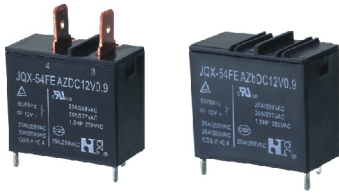
DB ELECTRO^{CO., LTD.}

Présente / Presents:

NINGBO HUAGUAN ELECTRONICS CO., LTD.



JQX-54FE



30.4×16.0×26.0 (26.5)



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
 2 Contact arrangement: A:1A
 3 Enclosure: Z: Dust cover
 4 Contact rating: Resistive:25A/250VAC; 20A/277VAC
 Inductive:20A/250VAC; cos Φ=0.4

5 Terminal: b:PC type; NIL:PC type and QC type
 6 Coil rated voltage(V): DC:6,9,12,24,48
 7 Contact material: C:AgCdO; NIL:AgSnO₂
 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 | Max. Switching Current:25A rushing current:70A | |
| Contact Resistance or Voltage drop | <50mΩ | Item 3.12 of IEC255-7 | |
| Operation life | Electrical | 10 ⁵ | Item 3.30 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°C ± 2°C 3 ± 0.5s | IEC68-2-20 Test Ta method 1 |
| Ambient Temperature | -30~70°C | |
| Relative Humidity | 20~85% | IEC68-2-3 Test Ca |
| Mass | 28g | |

Qualification inspection:

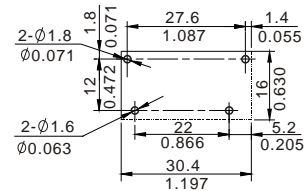
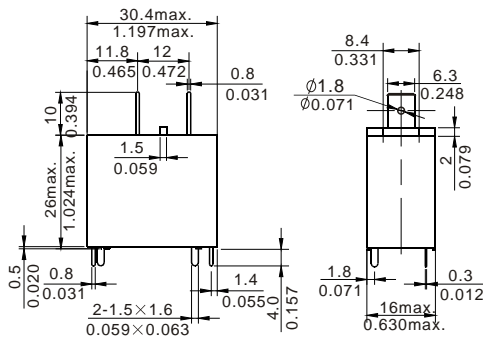
Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

Safety approvals

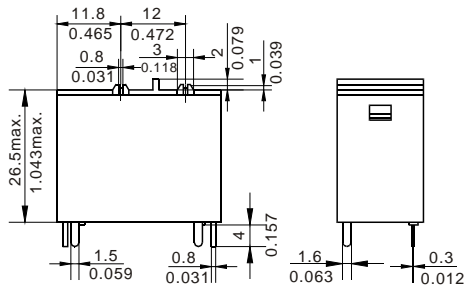
| Safety approval | UL&CUR | TUV | CQC |
|-----------------|--------------------------------------|---------------------------------|------------|
| Load | 25A/250VAC 20A/277VAC 1.5HP250VAC | 25A/250VAC 20A/250VAC COS φ=0.4 | 25A/250VAC |

Dimensions

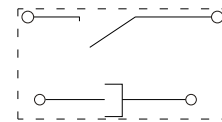
mm /inch



Mounting (Bottom view)



Dimensions



Wiring diagram (Bottom view)

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