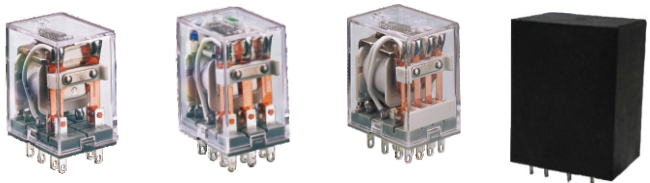


28×21.5×35.5
28×21.5×36.2(Wash tight)

# JZX-18FF

R50126379 c UL us E169380

## Features

- Small size, light weight, heavy reverse power.
- Optional mounting ways.
- Firm structure, strong anti-shock & anti vibration.
- Suitable for automatic control, telecommunication equipment, household electrical appliances and machinery electrical facilities.

## Ordering Information

**JZX-18FF 2C a DC12V 1 L**
1 2 3 4 5 6

1 Part number: JZX-18FF
2 Contact arrangement: 2C:2C
3C:3C; 4C:4C
3 Terminal: a: inserting type; b: PCB type
4 Coil rated Voltage(V): AC: 6,12,24,36,48,110,120,220
DC: 6,12,24,36,48,110
5 Cover: 1:1Mode; 2:2 Mode
6 Coil transient suppression: L:with LED
D:with diode
LD:with LED & diode
NIL:standard

## Contact Data

| | | | |
|---|---|---|---|
| Contact Arrangement | | 2C (DPDT (B-M))、3C (3PDT (B-M))、4C (4PDT(B-M)) | |
| Contact Material | | $AgSnO_2$ Ag Alloy | |
| Contact Rating (Resistive) | | 2C&3C:5A,7A/220VAC,28VDC; 7A/250VAC Heavy Load:10A/220VAC,28VDC<br>4C:3A/220VAC,28VDC; Heavy Load:5A/220VAC,28VDC | |
| Max. Switching Power | | 280W 2500VA | |
| Max. Switching Voltage | | 150VDC 300VAC | Max.Switching Current:10A |
| Contact Resistance | | ≤50mΩ | Item 4 .12 of IEC 61810-7 |
| Operational Life | Electrical | $3A:5\times10^5$; $5A:2\times10^5$ ;7A、10A:$1\times10^5$ | Item 4.30 of IEC 61810-7 |
| | Mechanical | $2\times10^7$ Heavy load:$1\times10^7$ | Item 4.31 of IEC 61810-7 |

## Coil Parameter(AC)

| Dash numbers | Coil voltage V | | Coil resistance Ω ± 10% | Rated current mA | Pick-up voltage V(max) (80%of rated Voltage) | Drop-out voltage V(min) (30%of rated voltage) | Coil power | Operate time ms | Release time ms |
|---|---|---|---|---|---|---|---|---|---|
| | Rated | Max. | | | | | | | |
| | AC | | | | | | | | |
| 006AC-1200 | 6 | 6.6 | 11.5 | 183.0 | 4.8 | 1.8 | 1.2VA | ≤25 | ≤25 |
| 012AC-1200 | 12 | 13.2 | 46 | 91.0 | 9.6 | 3.6 | | | |
| 024AC-1200 | 24 | 26.4 | 184 | 46.0 | 19.2 | 7.2 | | | |
| 036AC-1200 | 36 | 39.6 | 370 | 33.0 | 28.8 | 10.8 | | | |
| 048AC-1200 | 48 | 52.8 | 735 | 24.0 | 38.4 | 14.4 | | | |
| 110AC-1200 | 110 | 121 | 3750 | 11.0 | 88.0 | 33.0 | | | |
| 120AC-1200 | 120 | 132 | 4550 | 9.8 | 96.0 | 36.0 | | | |
| 220AC-1200 | 220 | 242 | 14400 | 4.2 | 176 | 66.0 | | | |
| DC | | | | | | 10% of rated voltage | | | |
| 006-900 | 6 | 6.6 | 40 | 150 | 4.8 | 0.6 | 0.9W | ≤25 | ≤25 |
| 012-900 | 12 | 13.2 | 160 | 75 | 9.6 | 1.2 | | | |
| 024-900 | 24 | 26.4 | 640/650 | 36.9 | 19.2 | 2.4 | | | |
| 036-900 | 36 | 39.6 | 1500 | 24.5 | 28.8 | 3.6 | | | |
| 048-900 | 48 | 52.8 | 2600 | 18.5 | 38.4 | 4.8 | | | |
| 110-900 | 110 | 121 | 11000 | 10.0 | 88.0 | 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.

## Characteristics

| | | |
|---|---|---|
| Insulation Resistance[1)] | 1000MΩ min (at 500VDC) | Item 4.11 of IEC 61810-7 |
| Dielectric Strength[1)]<br>Between Contacts<br>Between Contact and Coil | <br>50Hz 1000V<br>50Hz 1500V | <br>Item 4.9 of IEC 61810-7<br>Item 4.9 of IEC 61810-7 |
| Shock Resistance | 98m/s$^2$ 11ms | Item 4.26 of IEC 61810-7 |
| Vibration Resistance | 10Hz~55Hz Double amplitude 1.5mm | Item 4.28 of IEC 61810-7 |
| Terminals Strength | 8N 4N(PC type) | Item 4.24 of IEC 61810-7 |
| Ambient Temperature | -55℃~70℃ | |
| Relative Humidity | 5% to 85% | Item 4.16 of IEC 61810-7 |
| Mass | 37g | Item 4.7 of IEC 61810-7 |

Note: 1). When testing, coil terminals should be connected , if LED is installed in relay .

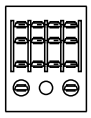
## Safety Approvals

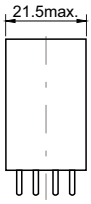
| Safety approval | UL&CUR | TÜV |
|---|---|---|
| Load | 4C:5A/220VAC,28VDC<br>2C,3C:10A/220VAC,28VDC | 5A/220VAC,28VDC<br>7A/250VAC |

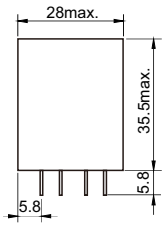
## Dimensions

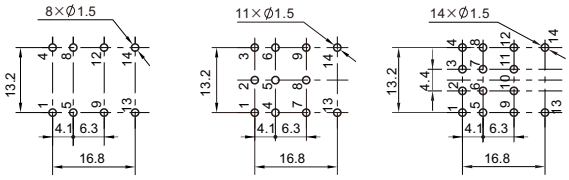
mm

1mode



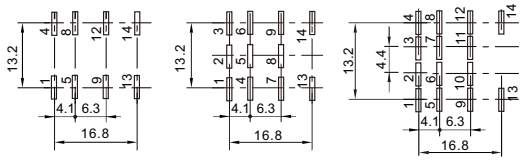



2C 3C 4C

PCB type

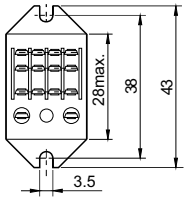


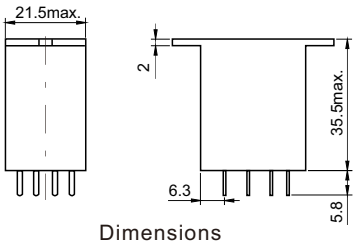

2C 3C 4C

Inserting type

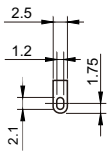
Mounting (Bottom view)

2mode

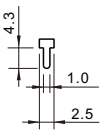



Dimensions




Inserting type

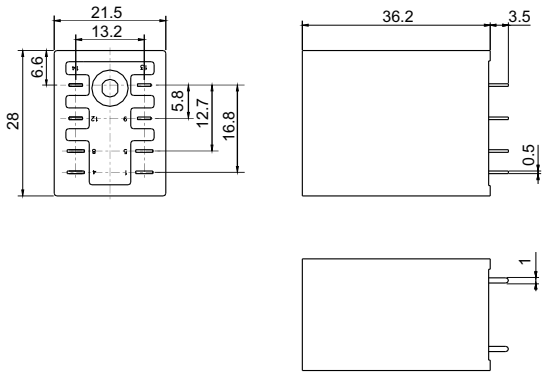



PCB type

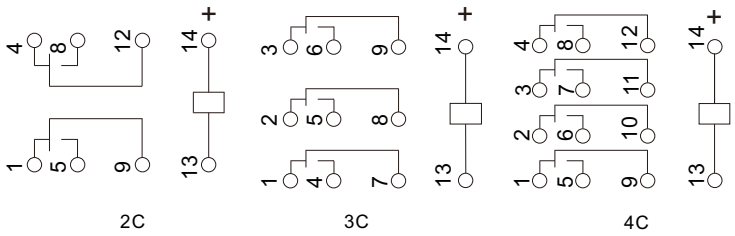
Leading end shape diagram

## Dimensions

mm




Wash tight
Dimensions

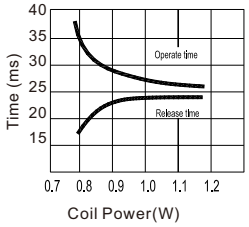



Wiring diagram(Bottom view)

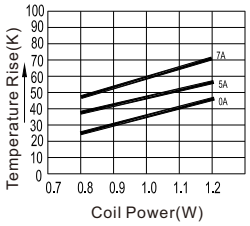
**CAUTION:** In case of no tolerance shown in outline dimension: outline dimension ≤1mm,tolerance should be±0.2mm ; outline dimension >1mm and ≤5mm, tolerance should be±0.3mm; outline dimension >5mm, tolerance should be±0.4mm.

## Reference Data

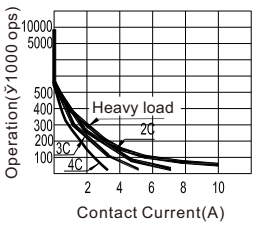
Operate Time




Coil Temperature Rise




Endurance Curve




Contact Switching Capacity