



12.5×7.5×10

# JRC-23F

 US E158859

## Features

- Low coil power consumption.
- High sensitivity.
- Small size, light weight.
- PC board mounting.
- Suitable for automation facilities, telecommunication equipment, wireless radio remote control, sound control toys application etc.

## Ordering Information

**JRC-23F** H S DC12V  
 1            2            3            4

1 Part number: JRC-23F  
 2 Coil power : NIL:0.2W; H:0.15W

3 Enclosure: S: Wash tight ; NIL: Flux proof  
 4 Coil rated voltage(V): DC:1.5,3,5,6,9,12,24

## Contact Data

|                           |            |                                   |                            |
|---------------------------|------------|-----------------------------------|----------------------------|
| Contact Arrangement       |            | 1C(SPDT(B-M))                     |                            |
| Contact Material          |            | AgNi (Au plated)                  |                            |
| Contact Rating(Resistive) |            | 0.5A/125VAC; 1A/30VDC; 0.3A/60VDC |                            |
| Max. Switching Power      |            | 30W 62.5VA                        |                            |
| Max. Switching Voltage    |            | 60VDC 125VAC                      | Max. Switching Current: 1A |
| Contact Resistance        |            | ≤100mΩ                            | Item 4.12 of IEC 61810-7   |
| Operational Life          | Electrical | 1×10 <sup>5</sup>                 | Item 4.30 of IEC 61810-7   |
|                           | Mechanical | 5×10 <sup>6</sup>                 | Item 4.31 of IEC 61810-7   |

**CAUTION:** The min. switching current and min. switching voltage is 50mA/6VDC.

## Coil Parameter

| Dash numbers | Coil voltage VDC |      | Coil resistance Ω ± 10% | Pick-up voltage VDC(max) (80% of rated voltage) | Drop-out voltage VDC(min) (10% of rated voltage) | Coil power W | Operate time ms | Release time ms |
|--------------|------------------|------|-------------------------|---|--|--------------|-----------------|-----------------|
|              | Rated            | Max. |                         |   |  |              |                 |                 |
| 001-150      | 1.5              | 3.0  | 15.0                    | 1.2   | 0.15   | 0.15         | ≤5              | ≤5              |
| 003-150      | 3                | 6.0  | 60.0                    | 2.4   | 0.30   |              |                 |                 |
| 005-150      | 5                | 10.0 | 166.7                   | 4.0   | 0.50   |              |                 |                 |
| 006-150      | 6                | 12.0 | 240.0                   | 4.8   | 0.60   |              |                 |                 |
| 009-150      | 9                | 18.0 | 540.0                   | 7.2   | 0.90   |              |                 |                 |
| 012-150      | 12               | 24.0 | 960.0                   | 9.6   | 1.20   |              |                 |                 |
| 024-150      | 24               | 48.0 | 3840.0                  | 19.2  | 2.40   |              |                 |                 |
| 001-200      | 1.5              | 2.25 | 11.3                    | 1.2   | 0.15   | 0.2          | ≤5              | ≤5              |
| 003-200      | 3                | 4.5  | 45.0                    | 2.4   | 0.30   |              |                 |                 |
| 005-200      | 5                | 7.5  | 125.0                   | 4.0   | 0.50   |              |                 |                 |
| 006-200      | 6                | 9.0  | 180.0                   | 4.8   | 0.60   |              |                 |                 |
| 009-200      | 9                | 13.5 | 405.0                   | 7.2   | 0.90   |              |                 |                 |
| 012-200      | 12               | 18.0 | 720.0                   | 9.6   | 1.20   |              |                 |                 |
| 024-200      | 24               | 36.0 | 2880.0                  | 19.2  | 2.40   |              |                 |                 |

- 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.
  - 3.Unless otherwise stated, the rated coil voltage specified in coil parameter table shall be used for all tests and its application to the relay.

## Characteristics

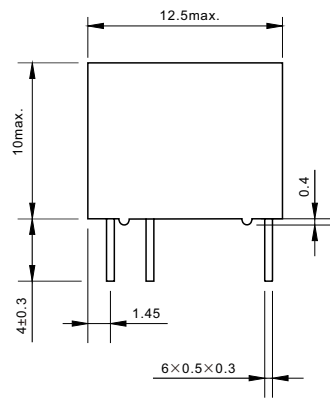
|   |                                  |  |
|---|----------------------------------|--|
| Insulation Resistance   | 1000MΩmin (at 500V)              | Item 4.11 of IEC 60255-5                           |
| Dielectric Strength<br>Between Contacts<br>Between Contact and Coil | 50Hz 400V<br>50Hz 1000V          | Item 4.7 of IEC 61810-7<br>Item 4.7 of IEC 61810-7 |
| Shock Resistance  | 98m/s <sup>2</sup> 11ms          | Item 4.26 of IEC 61810-7                           |
| Vibration Resistance  | 10Hz~55Hz Double amplitude 3.3mm | Item 4.28 of IEC 61810-7                           |
| Terminals Strength  | 5N                               | Item 4.24 of IEC 61810-7                           |
| Ambient Temperature   | -30°C~70°C                       |  |
| Relative Humidity   | 5% to 85%                        | Item 4.16 of IEC 61810-7                           |
| Mass  | 2.2g                             | Item 4.7 of IEC 61810-7                            |

## Safety Approvals

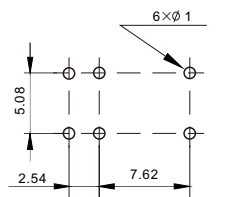
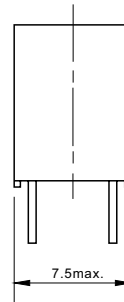
|                 |                                   |
|-----------------|-----------------------------------|
| Safety approval | UL&CUR                            |
| Load            | 1A/30VDC; 0.5A/125VAC; 0.3A/60VDC |

## Dimensions

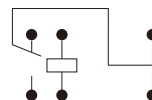
mm



Dimensions



Mounting (Bottom view)



Wiring diagram  
(Bottom view)

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