

JRC-27F

SUBMINIATURE DIP RELAY



File No.:E133481



File No.:CQC02001001938



Features

- * 2 Form C contact
- * High switching capacity 60W, 125VA
- * Matching 16 pin IC socket
- * Epoxy sealed for automatic-wave
- * Soldering and cleaning

CONTACT DATA

| | |
|---------------------------------|------------------------------------|
| Contact Arrangement | 2C |
| Initial Contact Resistance Max. | 50mΩ |
| Contact Material | AgNi, (Au Clad) |
| Contact Rating (Res. Load) | 2A 30VDC 1A 125VAC |
| Max. switching power | 125VA/60W |
| Max. switching voltage | 120VDC/240VAC |
| Max. switching current | 2A |
| Min. Applicable load | 10mV 10μA |
| Mechanical life | 1x10 ⁸ OPS |
| Electrical life | 1x10 ⁵ OPS (at2A 30VDC) |
| | 3x10 ⁵ OPS (at1A 30VDC) |

CHARACTERISTICS

| | |
|-------------------------------|---|
| Initial Insulation Resistance | 1000MΩ 500VDC |
| Dielectric Strength | Between coil and Contacts 1500VAC 1min. |
| | Between open contacts 1000VAC 1min. |
| Operate time (at nomi. Volt.) | Max. 6ms |
| Release time (at nomi. Volt.) | Max. 4ms |
| Ambient temperature | -40°C to +85°C |
| Humidity | 40% to 85%R.H. |
| Vibration Resistance | DA: 1.5mm 10 to 55Hz |
| Shock Resistance | Functional 196m/s ² (20g) |
| | Destructive 980m/s ² (100g) |
| Termination | DIP & PCB |
| Unit weight | Approx. 5g |
| Construction | Sealed IP67 |

COIL

| | | |
|------------------|-----------------------|-----------------|
| Coil power | Sensitive: 200mW | Standard: 360mW |
| | High Sensitive: 150mW | |
| Temperature Rise | Max. 65°C | |
| Coil Voltage | See coil data table | |

COIL DATA

| Order Number | Coil Voltage VDC | Pick-up Voltage VDC | Drop-out Voltage VDC | Standard (360mW) 20°C | |
|--------------|------------------|---------------------|----------------------|------------------------|-------------------|
| | | | | Coil Resistance Ω ±10% | Allow Voltage VDC |
| 003-M | 3 | 2.25 | 0.3 | 30 | 4.5 |
| 005-M | 5 | 3.75 | 0.5 | 90 | 8.0 |
| 006-M | 6 | 4.50 | 0.6 | 130 | 10.0 |
| 009-M | 9 | 6.80 | 0.9 | 280 | 14.5 |
| 012-M | 12 | 9.00 | 1.2 | 450 | 18.5 |
| 015-M | 15 | 11.3 | 1.5 | 625 | 22.0 |
| 024-M | 24 | 18.0 | 2.4 | 1600 | 35.5 |
| 048-M | 48 | 36.0 | 4.8 | 4000 | 56.0 |

| Order Number | Coil Voltage VDC | Pick-up Voltage VDC | Drop-out Voltage VDC | Sensitive (200mW) 20°C | |
|--------------|------------------|---------------------|----------------------|------------------------|-------------------|
| | | | | Coil Resistance Ω ±10% | Allow Voltage VDC |
| 003-S | 3 | 2.25 | 0.3 | 45 | 6 |
| 005-S | 5 | 3.75 | 0.5 | 125 | 10 |
| 006-S | 6 | 4.50 | 0.6 | 180 | 12 |
| 009-S | 9 | 6.80 | 0.9 | 405 | 18 |
| 012-S | 12 | 9.00 | 1.2 | 720 | 24 |
| 015-S | 15 | 11.3 | 1.5 | 1125 | 30 |
| 024-S | 24 | 18.0 | 2.4 | 2880 | 48 |



HONGFA RELAY
ISO9001 *ISO/TS16949 *ISO14001 CERTIFIED

VERSION: EN02-20040601

COIL DATA

| Order Number | Coil Voltage VDC | High Sensitive (150mW) | | Coil Resistance Ω $\pm 10\%$ | Allow Voltage VDC (Max.) |
|--------------|------------------|----------------------------|-----------------------------|--|--------------------------|
| | | Pick-up Voltage VDC (Max.) | Drop-out Voltage VDC (Min.) | | |
| 003-H | 3 | 2.4 | 0.3 | 60 | 7.0 |
| 005-H | 5 | 4.0 | 0.5 | 167 | 11.5 |
| 006-H | 6 | 4.8 | 0.6 | 240 | 13.8 |
| 009-H | 9 | 7.2 | 0.9 | 540 | 20.8 |
| 012-H | 12 | 9.6 | 1.2 | 960 | 27.7 |
| 015-H | 15 | 12.0 | 1.5 | 1500 | 34.6 |

Note: When user's requirements can't be found in the above table, special order allowed.

SAFETY APPROVAL RATINGS

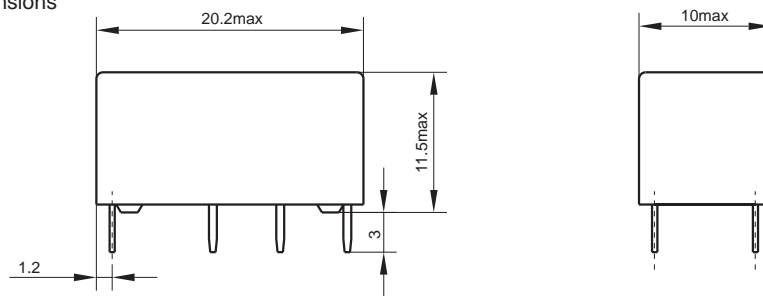
| | |
|----|-----------------------|
| UL | 2A 30VDC 125VAC 1A |
|----|-----------------------|

ORDERING INFORMATION

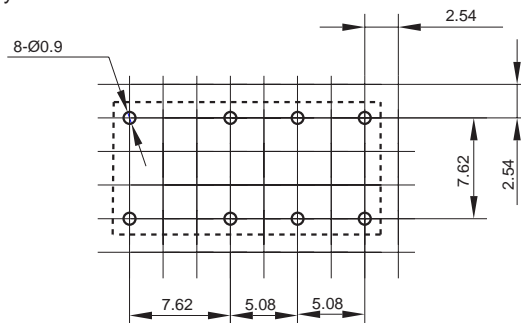
| | | | |
|--------------|--|-----|---|
| Type | JRC-27F / | 012 | S |
| Coil voltage | 3, 5, 6, 9, 12, 15, 24, 48VDC(Standard only) | | |
| Coil Power | S: Sensitive (200mW) M: Standard (360mW) H: high-Sensitive (150mW) | | |

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

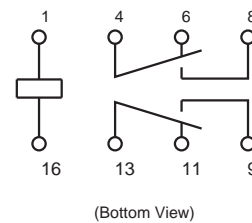
Outline Dimensions



PCB Layout

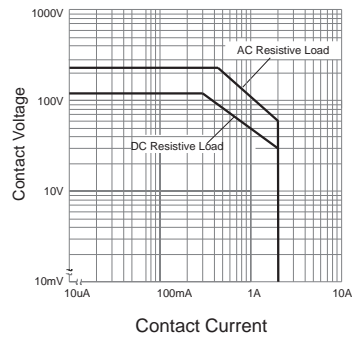


Wiring Diagram



CHARACTERISTICS CURVE

MAXIMUM SWITCHING POWER



LIFE CURVE

