

MAIN FEATURE

1. Low coil power consumption 200mW.
2. Dielectric Strength up to 4,000VAC.
3. Low profile 10.5 mm.
4. Clearance and creepage more than 5.0 mm.
5. UL Class F insulation available.
6. In accordance with IEC 60730-1.
7. Halogen Free series available.
8. Comply with RoHS and REACH regulations.

CONTACT RATING

| Load Type | JE (DM) | JE (D) |
|----------------------------|-----------|-----------|
| Rated Load (Resistive) | 8A 250VAC | 5A 250VAC |
| | 8A 30VDC | 5A 30VDC |
| Max. Allowable Voltage | AC 440V | AC 380V |
| | DC 30V | DC 30V |
| Max. Allowable Current | 8A | 5A |
| Max. Allowable Power Force | 2000VA | 1,250VA |
| | 240W | 150W |
| Contact Material | Ag Alloy | Ag Alloy |
| Contact Form | SPST | SPDT |

APPLICATION

1. Industrial Electronic Instrument, PLC, Timers, Temperature Control & Measure.
2. White goods.
3. Building Automation.
4. Air Conditioner.
5. Actuating Driver.

PERFORMANCE (AT INITIAL VALUE)

- Contact Resistance 100 mΩ Max. @1A,6VDC
- Operate Time 8 mSec. Max.
- Release Time 6 mSec. Max.
- Dielectric Strength:
 - Between Coil & Contact 4,000VAC at 50/60 Hz for one minute
 - Between Contacts 1,000VAC at 50/60 Hz for one minute
- Surge Strength 10,000V (between coil & contact 1.2x50μSec.)
- Insulation Resistance 100 MegaΩ Min. at 500VDC
- Max. On/Off Switching:
 - Electrical 6 Cycles per Minute
 - Mechanical 300 Cycles per Minute

- Temperature Range -40 ~ +85°C
- Humidity Range 45 ~ 85% RH.
- Coil Temperature Rise 40°C Max.
- Vibration:
 - Destruction 10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5mm double amplitude)
 - Malfunction 10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5mm double amplitude)
- Shock:
 - Destruction 1,000 m/S²
 - Malfunction 100 m/S²
- Life Expectancy:
 - Mechanical 10⁷ Operations at No load condition
 - Electrical 10⁵ Operations at Rated Resistive Load
- Weight about 6.0 g

SAFETY STANDARD & FILE NUMBER

- UL & C-UL E141060
- VDE 40013405

COIL SPECIFICATION (AT 20°C)

| Coil Sensitivity | Nominal Voltage (VDC) | Nominal Current (mA) | Coil Resistance ($\Omega \pm 10\%$) | Power Consumption (W) | Pull-In Voltage (VDC) | Drop-Out Voltage (VDC) | Maximum Allowable Voltage (VDC) |
|------------------|-----------------------|----------------------|---------------------------------------|-----------------------|-----------------------|------------------------|---------------------------------|
| JE | 3 | 66.7 | 45 | Abt. 0.2 | 75% Maximum | 5% Minimum | 150% |
| | 5 | 40.0 | 125 | | | | |
| | 6 | 33.3 | 180 | | | | |
| | 9 | 22.2 | 405 | | | | |
| | 12 | 16.7 | 720 | | | | |
| | 24 | 8.3 | 2,880 | | | | |
| | 48 | 4.2 | 11,520 | | | | |

ORDERING INFORMATION

JE - 1 12 D M G F

Insulation System: Nil: Standard Class
F: Class F

Contact Material: Nil: AgNi
G: AgNi Gilded
O: AgNi Plated
N: AgSnO₂
S: AgSnO₂ Gilded

Contact Form: Nil: One Form C
M: One Form A

Coil Sensitivity: D: Standard DC

Coil Voltage: 03: 3V, 05: 5V, 06: 6V, 09: 9V, 12: 12V, 24: 24V, 48: 48V

Number of Pole: 1: One Pole

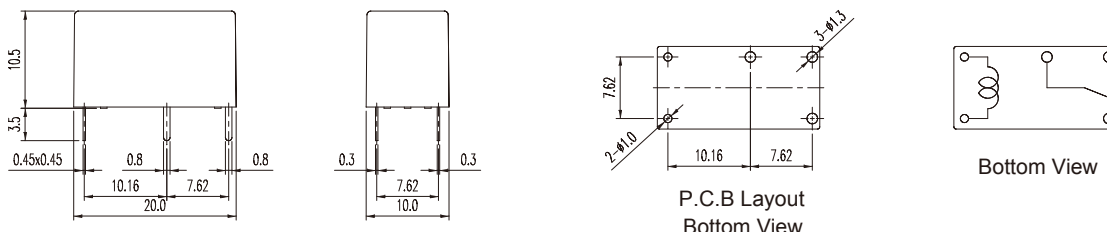
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CLASSIFICATION

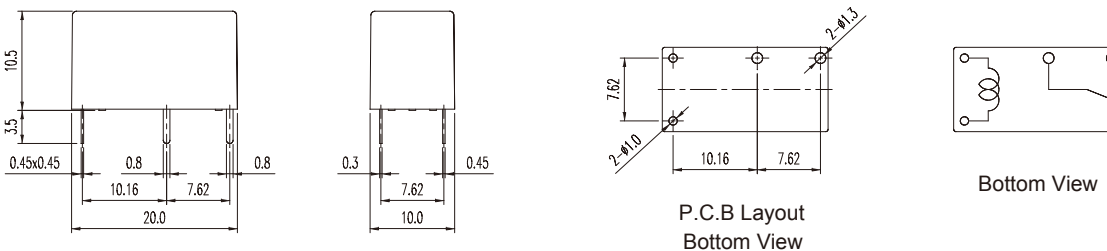
| Model | JE | |
|------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Coil Sensitivity | Standard DC | |
| Contact Form | 1C | 1A |
| Wash Tight | JE - 1 <input type="checkbox"/> <input type="checkbox"/> D <input type="checkbox"/> | JE - 1 <input type="checkbox"/> <input type="checkbox"/> DM <input type="checkbox"/> |

DIMENSION ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

JE-D



JE-DM



REFERENCE DATA

