

20.3×15.3×22.5

Features

- Switching capacity up to 25A.
- PC board mounting and insert mounting available.
- Suitable for automation system and automobile auxiliary etc.

Contact Data

| | | | |
|------------------------------------|------------|--|---------------------------|
| Contact Arrangement | | 1A (SPSTNO) , 1B (SPSTNC) | |
| Contact Material | | AgSnO ₂ , AgNi | |
| Contact Rating (resistive) | | 1A: 25A/14VDC,20A/14VDC; 1B: 20A/14VDC,15A/14VDC | |
| Max. Switching Power | | 420W | |
| Max. Switching Voltage | | 75VDC | Max.Switching Current:30A |
| Contact Resistance or Voltage drop | | ≤20mV(at 10A)(B:40mV) | Item 4.12 of IEC61810-7 |
| Operation life | Electrical | 5×10 ⁵ , 2×10 ⁵ (B) | Item 4.30 of IEC 61810-7 |
| | Mechanical | 10 ⁷ | Item 4.31 of IEC 61810-7 |

Coil Parameter

| Dash numbers | Coil voltage VDC | | Coil resistance Ω ±10% | Pickup voltage VDC(max) (60%of rated voltage) | Release voltage VDC(min) (11% of rated voltage) | Coil power consumption W | Operate Time ms | Release Time ms |
|--------------|------------------|------|------------------------|--|---|--------------------------|-----------------|-----------------|
| | Rated | Max. | | | | | | |
| 012-1160 | 12 | 18 | 124 | 7.2 | 1.3 | 1.16 | ≤10 | ≤7 |
| 024-1160 | 24 | 35 | 489 | 14.4 | 2.8 | | | |

- 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.

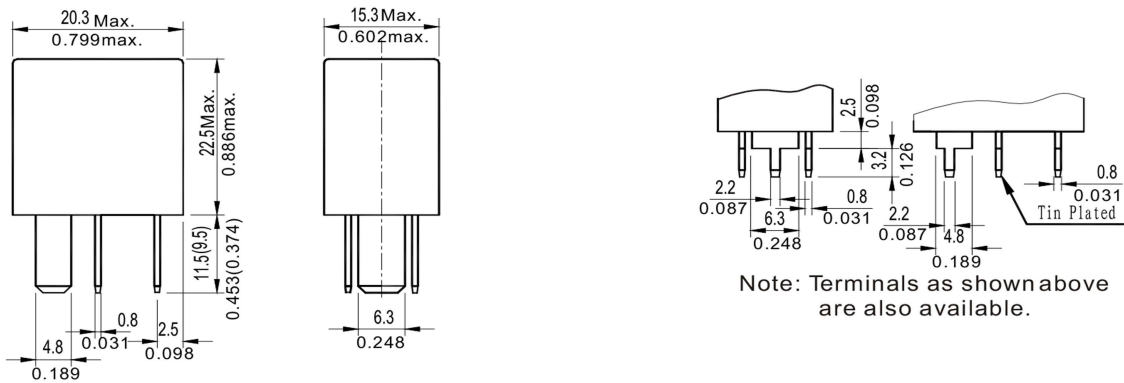
Operation condition

| | | |
|---|-----------------------------------|--|
| Insulation Resistance ¹⁾ | 100M Ω min (at 500VDC) | Item 7 of IEC 60255-5 |
| Dielectric Strength ¹⁾ Between contacts Between contact and coil | 50Hz 500V 50Hz 1000V | Item 6 of IEC 60255-5 Item 6 of IEC 60255-5 |
| Shock resistance | 100m/s ² 11ms | IEC 68-2-27 Test Ea |
| Vibration resistance | 10Hz~40Hz double amplitude 1.27mm | IEC 68-2-6 Test Fc |
| Terminals strength | 100N | IEC 68-2-21 Test Ua2 |
| Solderability | 235°C \pm 2°C 3s \pm 0.5s | IEC 68-2-20 Test Tamethod 1 |
| Ambient Temperature | -40°C~125°C | |
| Relative Humidity | 85% (at 40°C) | IEC 68-2-3 Test Ca |
| Mass | 14g | |

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

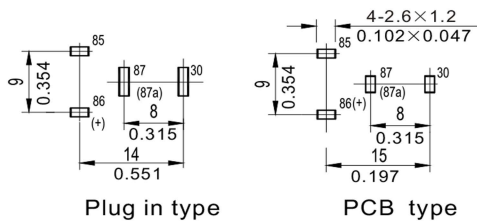
Dimensions

mm /inch



Note: Terminals as shown above are also available.

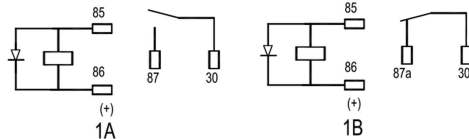
Dimensions



Plug in type

PCB type

Mounting (Bottom view)



Wiring diagram (Bottom view)

NOTES 1). Dimensions are in millimeters.

2). Inch equivalents are given for general information only.

Reference Data

