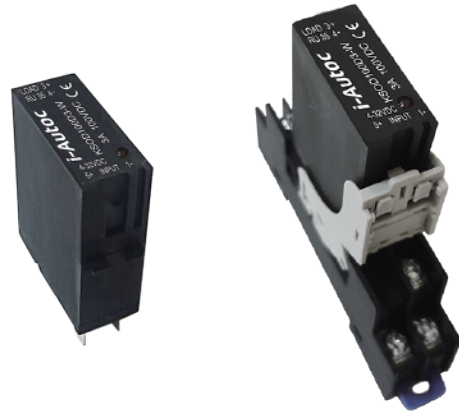


Product Description

- ◆ MOSFET Output or Transistor Output
- ◆ Control Voltage: 4-32VDC
- ◆ Load Voltage: 100VDC、200VDC、400VDC
- ◆ Load Current: 3A、5A、10A、16A
- ◆ Dielectric Strength: 2500Vrms
- ◆ RoHS Compliant
- ◆ Plug in installation
- ◆ Optional base mounting
- ◆ Photoelectric isolation



Ordering Information

| | | | | | | |
|----------------------------|--|------------|--|-------------------------------|---|-----------------|
| KSOD | 100 | D | 2 | -W | D | (XXX) |
| KSOD Series ⁽¹⁾ | Load Voltage 100:100VDC 200:200VDC 400:400VDC | DC Control | Load Current 3:3Amp 5:5Amp 10:10Amp 16:16Amp | Control Voltage W: 4-32VDC | Accessories D: With the base Blank: Without the base | Customized Code |

(1) Part numbers available are listed in the table below.

| Model | 3A | 5A | 10A | 16A |
|--------|----------------|----------------|-----------------|-----------------|
| 100VDC | KSOD100D3-W(D) | KSOD100D5-W(D) | KSOD100D10-W(D) | KSOD100D16-W(D) |
| 200VDC | | KSOD200D5-W(D) | | |
| 400VDC | KSOD400D3-W(D) | | | |

General Specifications

| Input Specifications (Ta=25°C) | |
|--------------------------------|---------------|
| Control Voltage Range | 4-32VDC |
| Must Turn-on Voltage | 4VDC |
| Must Turn-off Voltage | 1VDC |
| Maximum Input Current | 18mA (@32VDC) |

| Output Specifications (Ta=25°C) | | |
|----------------------------------|---------------|--------------|
| Maximum Transient Overvoltage | 100D3 | 150Vpk |
| | 100D5 | 150Vpk |
| | 100D10/100D16 | 100Vpk |
| | 200D5 | 250Vpk |
| | 400D3 | 600Vpk |
| TVS Protection Voltage | 100D5 | 105-116VDC |
| | 100D10/100D16 | 64.6-71.6VDC |
| | 200D5 | 190-210VDC |
| | 400D3 | 418-462VDC |

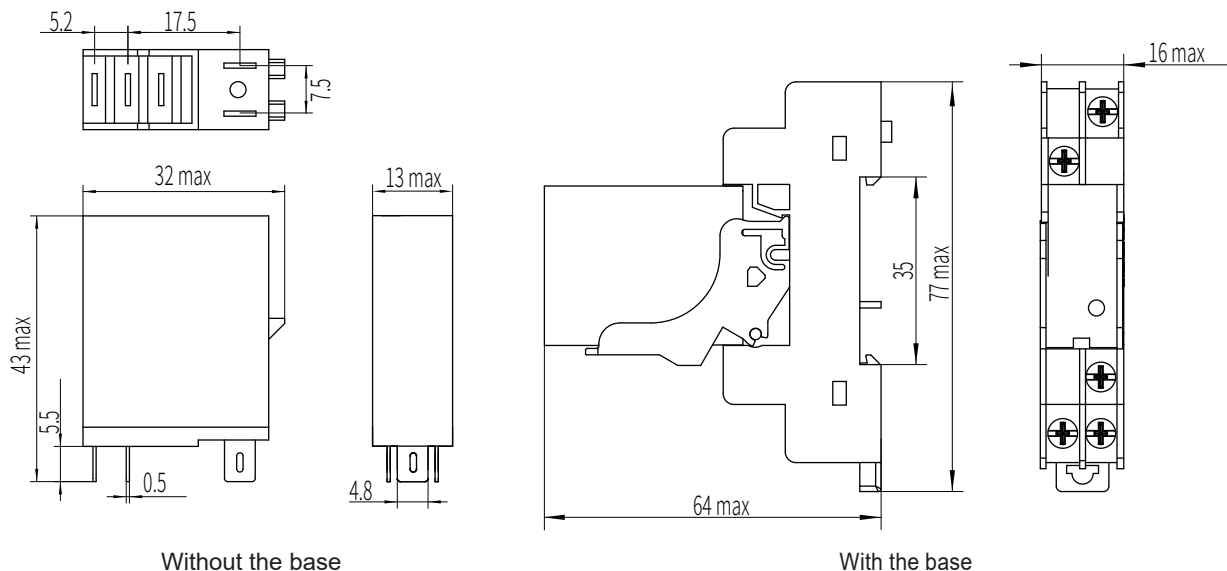
| Output Specifications (Ta=25°C) | | |
|--|--------|-----------|
| Load Voltage Range | 100D3 | 0.001-3A |
| | 100D5 | 0.002-5A |
| | 100D10 | 0.002-10A |
| | 100D16 | 0.002-16A |
| | 200D5 | 0.002-5A |
| | 400D3 | 0.002-3A |
| Maximum Surge Current (@10 ms) | 3A | 15A |
| | 5A | 25A |
| | 10A | 50A |
| | 16A | 80A |
| Maximum Turn-on Time | | 300μs |
| Maximum Turn-off Time | | 300μs |
| Maximum Off-State Leakage Current@Rated Load Voltage | | 0.1mA |
| Maximum On-State Voltage Drop@Rated Current | 100D3 | 1.3VDC |
| | 100D5 | 60mΩ |
| | 100D10 | 10mΩ |
| | 100D16 | 3mΩ |
| | 200D5 | 60mΩ |
| Maximum On-State Resistance Drop@Rated Current | 400D3 | 165mΩ |

| General Specifications (Ta=25°C) | | |
|---|------------------|----------------|
| Dielectric Strength (50/60Hz) | | 2500Vrms |
| Minimum Insulation Resistance (@500VDC) | | 1000MΩ |
| Ambient Temperature Range | | -30°C ~ +80°C |
| Storage Temperature Range | | -30°C ~ +100°C |
| Weight (Typical) | Without the base | 20g |
| | With the base | 50g |

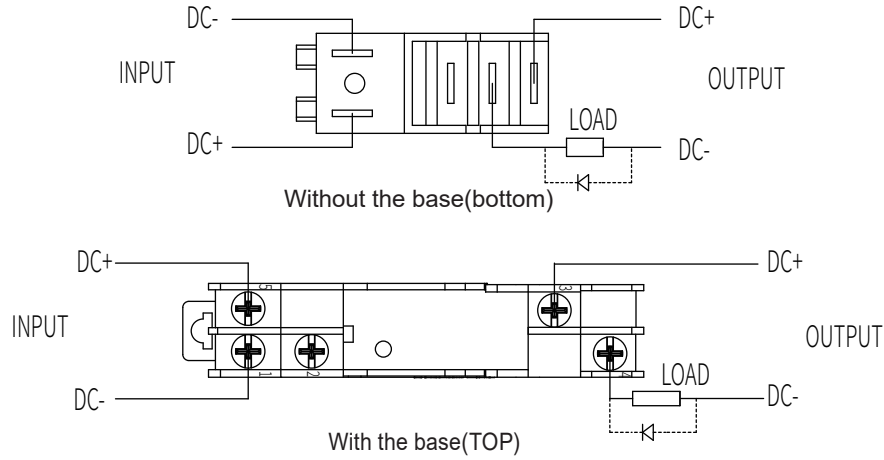
Applications

It is suitable for the isolation and control of weak current to strong current, convenient for all kinds of computers and digital interfaces, widely used in various DC motors, DC power sources and various electromagnetic devices in the field of industrial automation.

Outline Dimensions

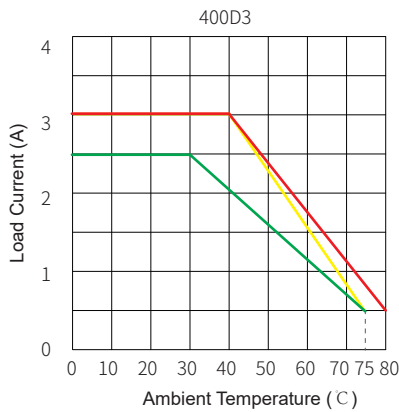
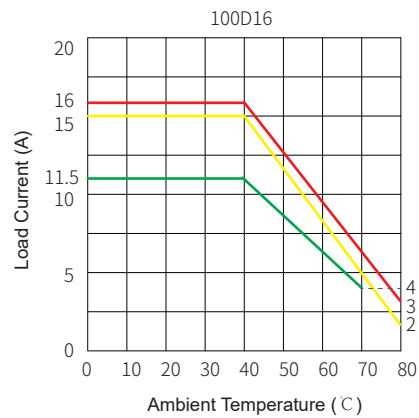
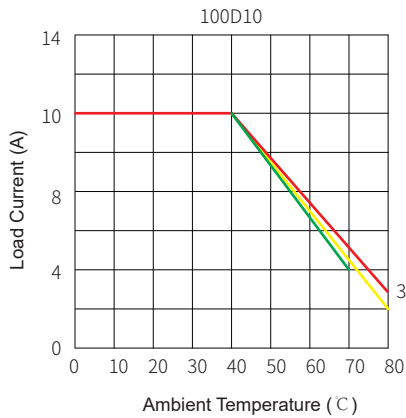
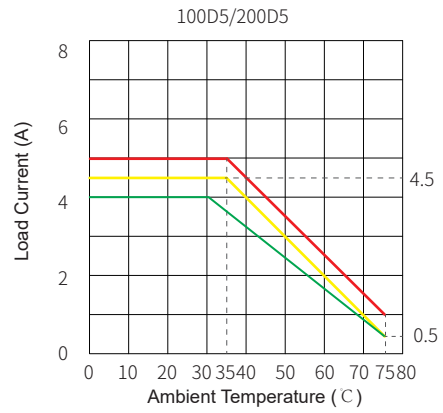
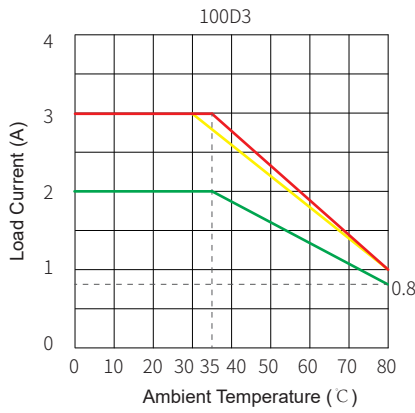


Wiring Diagram

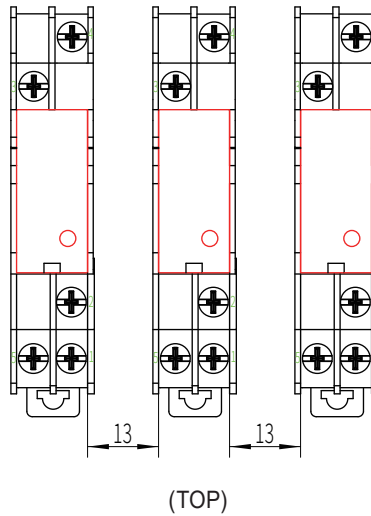


Thermal Derating Curve

Red line: Independent installation, Yellow line:Conventional installation (2), Green line:Close Installation.



Note: (2) Conventional installation distance:



General Notes

1. Soldering must be finished within 10 seconds at 260°C, or finished within 5 seconds at 350°C. Otherwise it may cause damage to the relay.
2. Terminal polarity must be observed. Otherwise it may cause damage to the relay.
3. When ambient temperature is above 25°C, the maximum load current decreases. See thermal derating curve.
4. Capacitive load will produce very high surge current at the moment of conduction, which may lead to the damage of solid state relay due to the excessive surge current. Therefore, if the actual load is capacitive, or the load has paralleled large capacitance, it is strongly recommended that NTC should be connected in series in the load loop to suppress surge current in order to avoid damage to the product.
5. When connection wiring to SSR, please ensure screws are torqued down properly. Recommended torque for screw is 8.8/1.0 in-lb/Nm.

! Warnings

1. The product's side panels may be hot, allow the product to cool before touching.
2. Disconnect all power before installing or working with this equipment.
3. Verify all connections and replace all covers before turning on power.