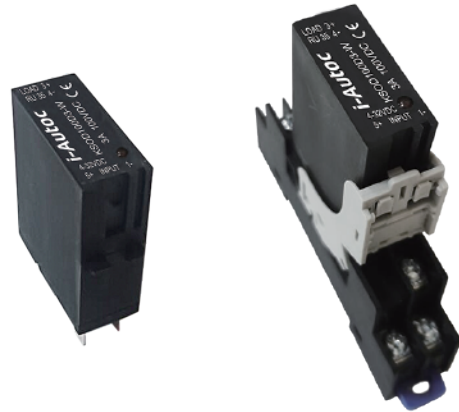


Product Description

- ◆ MOSFET Output or Transistor Output
- ◆ Control Voltage: 4-32VDC
- ◆ Load Voltage: 50VDC、100VDC、200VDC、400VDC
- ◆ Load Current: 2A、3A、5A
- ◆ 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 50:50VDC 100:100VDC 200:200VDC 400:400VDC	DC Control	Load Current 2:2Amp 3:3Amp 5:5Amp	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	2A	3A	5A
50VDC	KSOD50D2-W(D)		
100VDC		KSOD100D3-W(D)	KSOD100D5-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	25mA (@32VDC)

Output Specifications (Ta=25°C)		
Maximum Transient Overvoltage	50D2	100Vpk
	100D3	150Vpk
	100D5	150Vpk
	200D5	250Vpk
	400D3	600Vpk
Load Voltage Range	50D2	3-50VDC
	100D3	3-100VDC
	100D5	0-75VDC
	200D5	0-125VDC
	400D3	0-220VDC

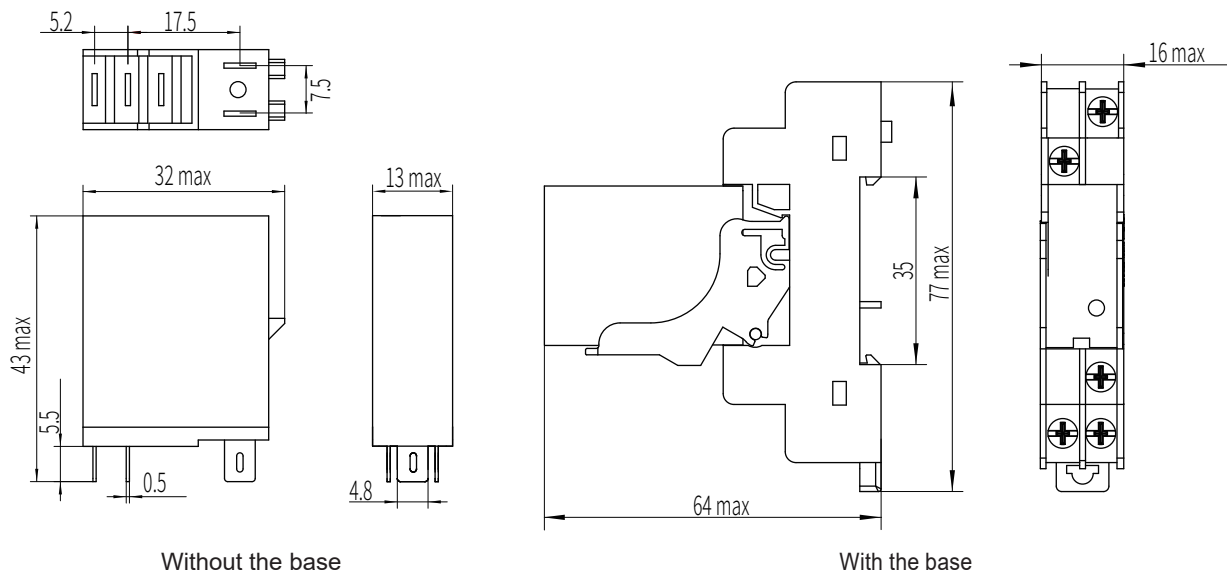
Output Specifications (Ta=25°C)		
TVS Protection Voltage	100D5	105-116VDC
	200D5	190-210VDC
	400D3	332-368VDC
Load Current Range	50D2	0.1-2A
	100D3	0.1-3A
	100D5	0.02-5A
	200D5	0.02-5A
	400D3	0.02-3A
Maximum Surge Current (@10 ms)	2A	6A
	3A	15A
	5A	25A
Maximum Turn-on Time	50D2/100D3	1ms
	100D5/200D5/400D3	0.3ms
Maximum Turn-off Time	50D2/100D3	1ms
	100D5/200D5/400D3	0.3ms
Maximum Off-State Leakage Current@Rated Load Voltage		0.1mA
Maximum On-State Voltage Drop@Rated Current	50D2	1.5VDC
	100D3	1.3VDC
Maximum On-State Resistance Drop@Rated Current	100D5	38mΩ
	200D5	60mΩ
	400D3	375mΩ

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

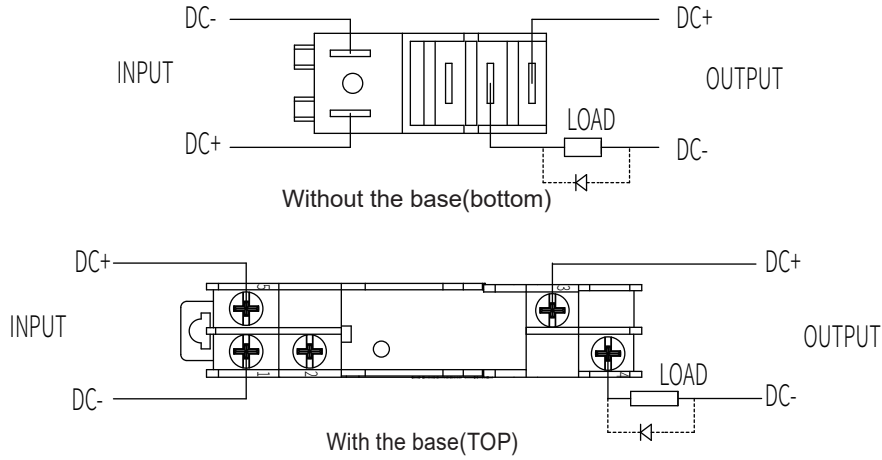
Applications

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.

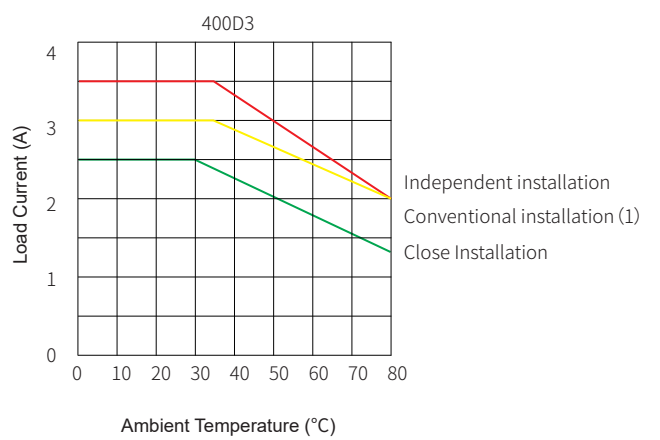
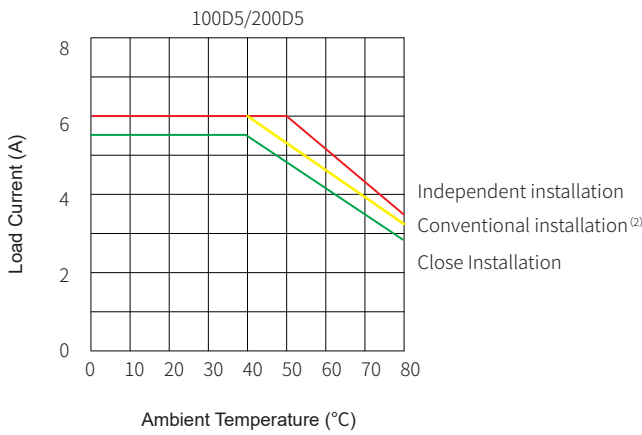
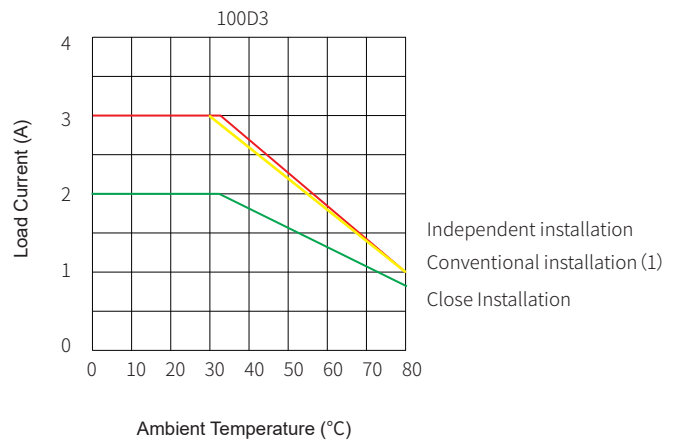
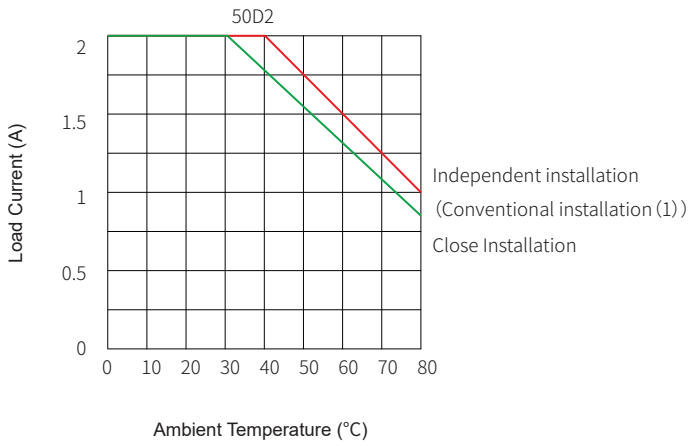
Outline Dimensions



Wiring Diagram

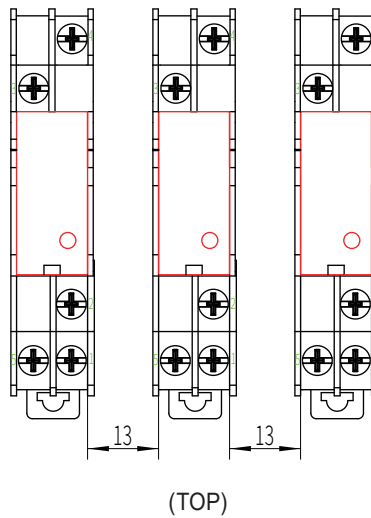


Thermal Derating Curve



note: the red curve: Independent installation;
the yellow curve: Conventional installation;
the green curve: 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.