

Product Description

- ◆ TRIAC Output
- ◆ Control Voltage: 4-32VDC
- ◆ Load Voltage: 240VAC, 600VAC
- ◆ Load Current: 5A
- ◆ Dielectric Strength: 4000Vrms
- ◆ RoHS Compliant
- ◆ Internal RC Protection Circuit
- ◆ Plug in installation
- ◆ Optional base mounting
- ◆ Photoelectric isolation



Ordering Information

KSO	240	D	5	R	-W	T	D	(XXX)
KSO Series ⁽¹⁾	Load Voltage 240: 240VAC 600: 600VAC	DC Control	Load Current 5: 5Amp	Switching Mode Blank: Zero Crossing R: Random-on	Control Voltage W: 4-32VDC	Protection T: TVS Blank: Without TVS	Accessories D: With the rail base(KPD-5A) P: With the PCB base(KPD-6A) Blank: Without the base	Customized Code

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

Model		
W: 4-32VDC	KSO240D5-W(D/P)	KSO240D5R-W(D/P)
	KSO600D5-W(D/P)	KSO600D5R-W(D/P)
	KSO240D5-WT(D/P)	KSO240D5R-WT(D/P)
	KSO600D5-WT(D/P)	KSO600D5R-WT(D/P)

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)		
Load Voltage Range	240VAC	24-280VAC
	600VAC	24-660VAC
Maximum Transient Overvoltage	240VAC	600Vpk
	600VAC	1200Vpk
TVS Protection Voltage	240VAC	480V
	600VAC	1100V
Load Current Range	0.1 - 5A	
Maximum Surge Current (@10 ms)	250A	
Maximum Turn-on Time	Random-on	1ms
	Zero Crossing	1/2cycle+1ms

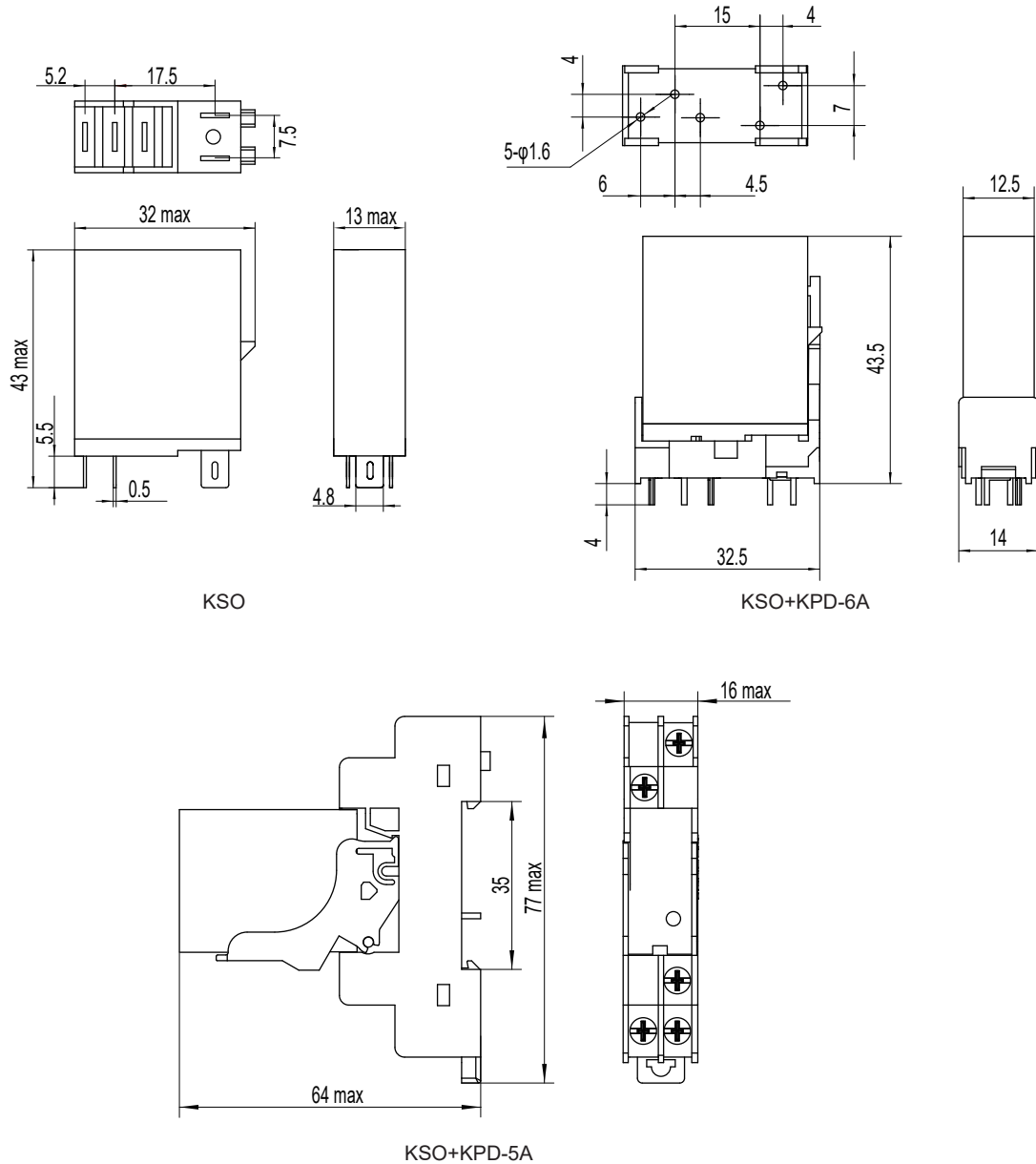
Output Specifications (Ta=25°C)	
Maximum Turn-off Time	1/2cycle+1ms
Maximum Off-State Leakage Current@Rated Load Voltage	5mA
Maximum On-State Voltage Drop@Rated Current	1.5Vrms
Minimum Off-State dv/dt@Maximum Rated Voltage	500V/μs

General Specifications (Ta=25°C)		
Dielectric Strength (50/60Hz)	4000Vrms	
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

Suitable for lighting control, motor control, vending machine control, medical device control, valve control etc, and etc.

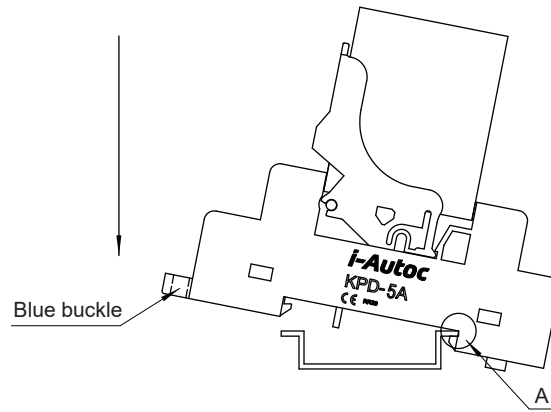
Outline Dimensions



Installation Diagram

Socket installation:

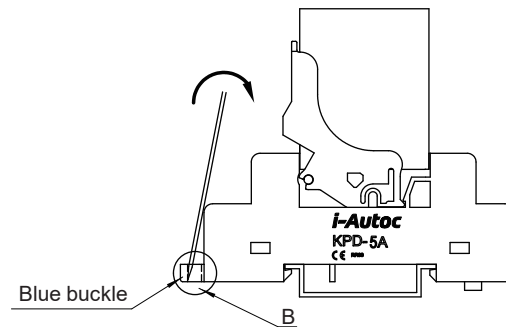
Insert the socket into the din rail from position A and press it in the direction of the arrow for installation, as shown in the installation diagram.



Install

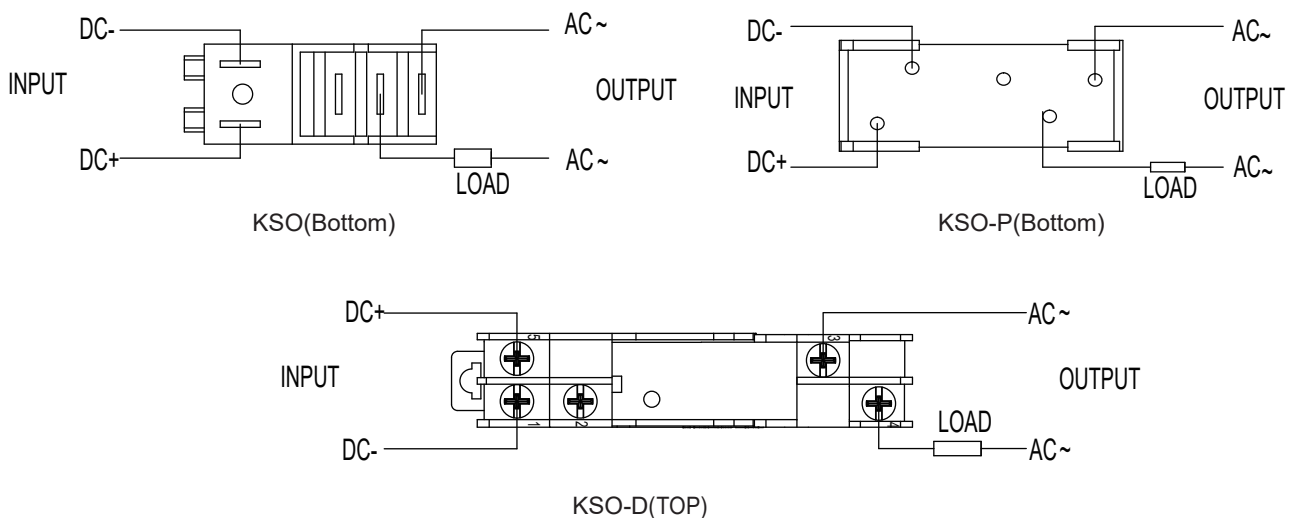
Socket disassembly:

Insert a small flat-head or Phillips screwdriver into socket position B, turn it in the direction of the arrow, lift the socket up, and remove it, as shown in the disassembly diagram.

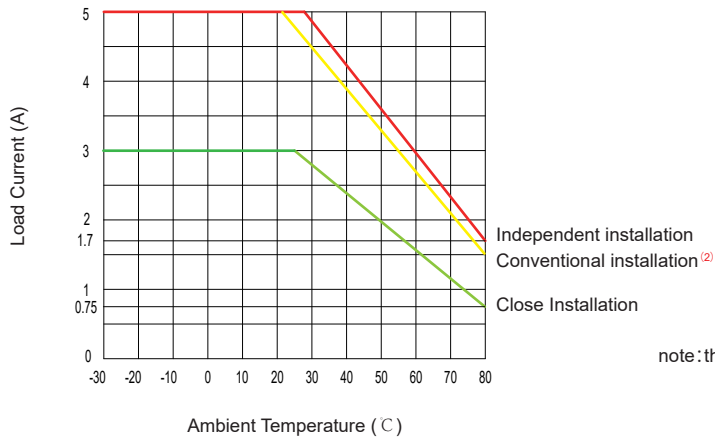


Disassemble

Wiring Diagram

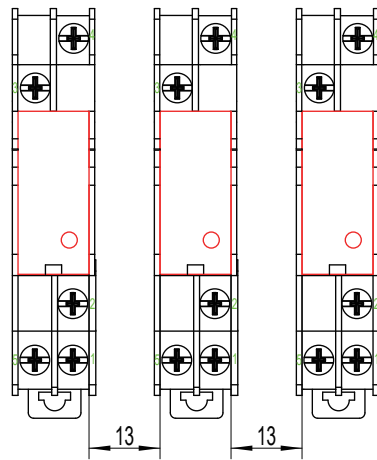


Thermal Derating Curve



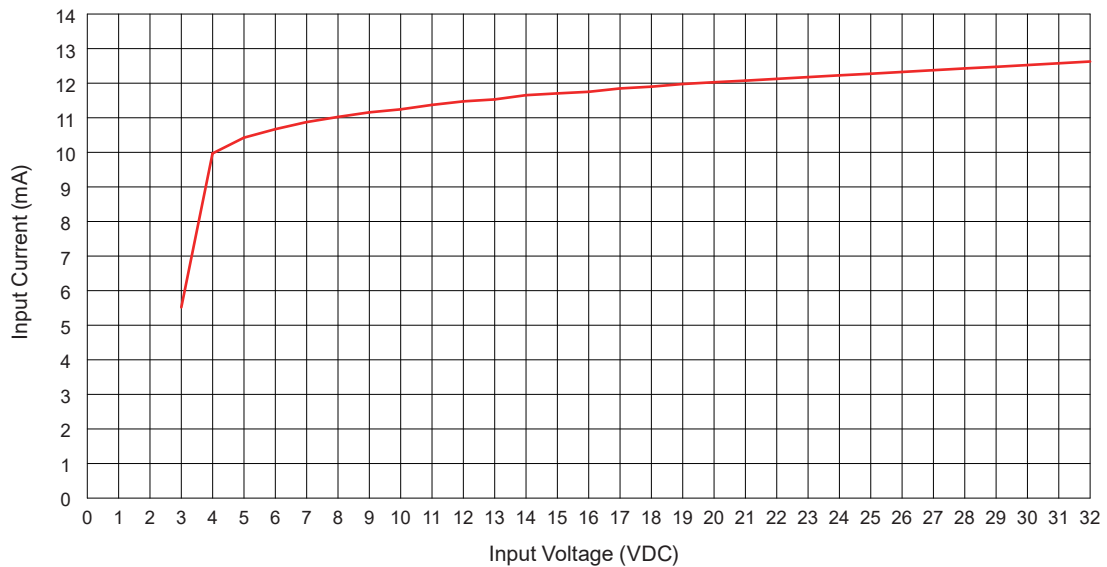
note: the red curve: Independent installation;
the yellow curve: Conventional installation;
the green curve: Close Installation.

Note: (2) Conventional installation distance:



(TOP)

Input Characteristic Curve (@25°C)



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. For products with a base, the recommended installation torque for base wiring is $(0.8\sim 1.2)\text{N} \cdot \text{m}$.

! 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.