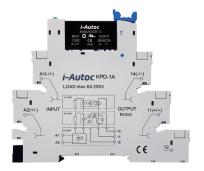


Product Description

- ◆ TRIAC Output
- Optocoupler Isolation
- PCB or Socket Mounted
- ◆ Load Current: 1A, 2A
- ◆ Load Voltage: 240VAC
- Dielectric Strength: 2500VACrms
- RoHS Compliant





Product Selection





A: AC Load





D: DC Control



2: 2Amp

R Switching Mode Blank: Zero Crossing R: Random-on



Control Voltage Socket 5: 5VDC 12: 12VDC 24: 24VDC



Blank: Without Socket D: With Socket

Available Part Numbers

Control Mode	1.	A	2	A
5VDC	KSMA240D1-5	KSMA240D1R-5	KSMA240D2-5	KSMA240D2R-5
	KSMA240D1-5D	KSMA240D1R-5D	KSMA240D2-5D	KSMA240D2R-5D
12VDC	KSMA240D1-12	KSMA240D1R-12	KSMA240D2-12	KSMA240D2R-12
	KSMA240D1-12D	KSMA240D1R-12D	KSMA240D2-12D	KSMA240D2R-12D
24VDC	KSMA240D1-24	KSMA240D1R-24	KSMA240D2-24	KSMA240D2R-24
	KSMA240D1-24D	KSMA240D1R-24D	KSMA240D2-24D	KSMA240D2R-24D

Technical Specifications

,		
Input Specifications (Ta=25°C)		
	5	4~6VDC
Control Voltage Range	12	9.6~14.4VDC
[24	19.2~28.8VDC
	5	4VDC
Must Turn-on Voltage(1)	12	9.6VDC
	24	19.2VDC
Must Turn-off Voltage		1VDC
Maximum Input Current		25mA

Note: (1) For KSMA with control voltage at 12V, 24V that operating with the socket, the must control voltage should increase 1.4V, for example, for KSMA240D2-12D, please ensure that the control voltage is 9.6V+1.4V=11V Min.









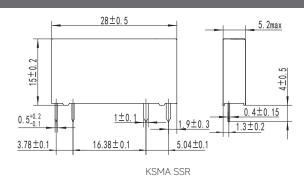
Output Specifications (Ta=25°C)		
Load Voltage Range		24~280VAC
Transient Overvoltage		600Vpk
Load Current Dange	1A	0.1~1A
Load Current Range	2A	0.1~2A
Maximum Turn-on Time	Random-on	1ms
Maximum rum on rime	Zero Crossing	1/2cycle+1ms
Maximum Turn-off Time		1/2cycle+1ms
Maximum Surge Current (@10ms)	1A	30A
Maximum Surge Current (@10ms)	2A	40A
Maximum Off-State Leakage Current (@Rated Voltage)		1.5mA
Maximum On-State Voltage Drop (@Rated Current)		1.5Vrms
Maximum On-state Resistance		200V/µs

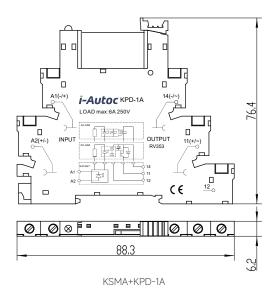
General Specifications (Ta=25°C)		
Dielectric Strength (50/60Hz)	Input/Output	2500Vrms
Minimum Insulation Resistance (@500VDC)		1000ΜΩ
Ambient Temperature Range		-30°C∼+80°C
Storage Temperature Range		-30°C∼+100°C
	Without Socket	4g
Weight (Typical)	With Socket	30g

Applications

Suitable for high density PCB mounting, PLC control applications, and etc.

Outline Dimensions





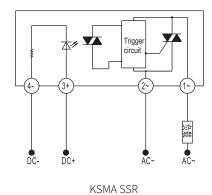


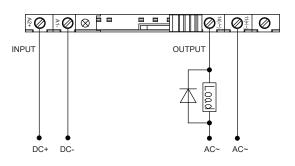




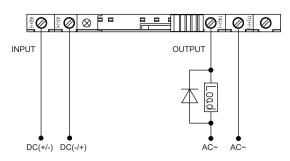


Wiring Diagram



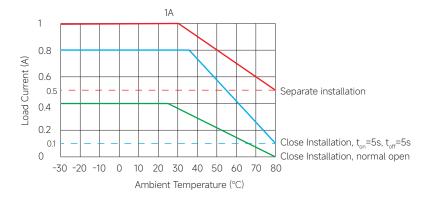


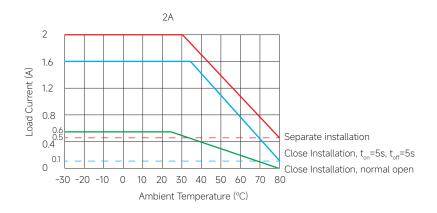
KSMA...-5D



KSMA...-12/24D

Thermal Derating Curve









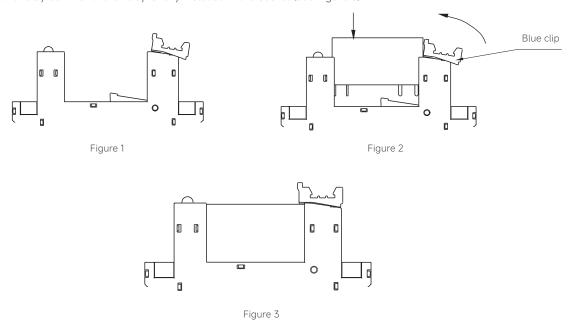




Installation Instructions

1. Install the relay

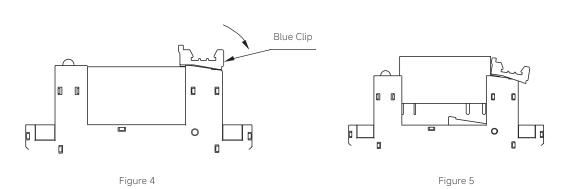
Set the blue clip of socket in the open state (see Figure 1), and insert the relay into the socket cavity (see Figure 2). Then press the relay down until the relay is fully installed in the socket (see Figure 3).



2. Remove the relay

Pull the blue clip of socket to remove the relay (see Figure 4-6).

Note: When disassembling the relay, in order to prevent the relay from being ejected and causing it to fall, please be sure to hold the relay and then pull the blue clip to remove the relay.



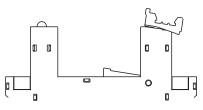


Figure 6









3. Install the socket

Insert part A of the socket into the din-rail first, and then press the socket down in the direction of the arrow(see Figure 7).

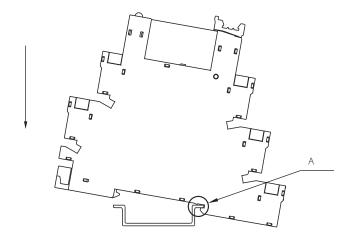
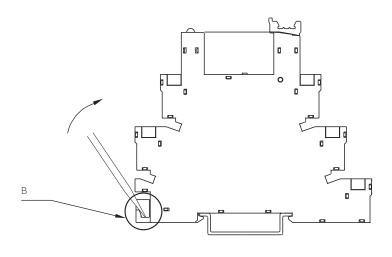


Figure 7

4. Remove the socket

Insert a proper size screwdriver into part B of the socket, turn the screwdriver in the direction of the arrow, and then remove the socket (see Figure 8).











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 the ambient temperature of the product is high, derate the product according to the temperature curve.

! Warnings

- 1. The product's may become hot during operation, allow it 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.

Certification Standards

Certification	Test Standard	
UI	UL508	
UL	C22.2 No. 14-13	
CF	EN 60947-1:2007/A2:2014	
CE	EN 60947-5-1:2017	
TUV	EN 60947-1:2007/A2:2014	
100	EN 60947-5-1:2017	





