Solid State Relay

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Features

- Zero-crossing or Random-on Switching
- Load current: 25A-60A@48-660V AC
- TRIAC or SCR Output
- AC or DC Input Control
- Dielectric Strength: 4000Vrms
- LED Indicator
- Internal MOV/TVS Protection(Optional)
- Protective cover KPC-0A (Optional)

Applications

Suitable for temperature chamber, oiler, air conditioning, lighting, fountain controller and other occasions.

Technical Specification

Input Circuit

Control Voltage Range	: 4V DC to 32V DC[2] (DC Control)
	90V AC to 280V AC (AC Control)
Must Turn-on Voltage	: 4V DC (DC Control)
	90V AC (AC Control)
Must Turn-off Voltage	: 1V DC (DC Control)
	10V AC (AC Control)
Maximum Input Current	: 25mA(32V DC) (DC Control)
	25mA(@280V AC/50Hz) (AC Control)

Output Specifications (Ta=25°C)

Load Voltage Range(47 to 63Hz)	: 240V AC, (48V AC to 280V AC)
	480V AC, (48V AC to 530V AC)
Load Current Range	: 25A (0.1-25A)
	40A (0.1-40A)
	60A (0.1-60A)
Maximum Turn-on Time	: 1ms (Random-on)
	1/2cycle+1ms (Zero Crossing)
	40ms (AC Control)
Maximum Turn-off Time	: 1/2cycle+1ms (DC Control)
	40ms (AC Control)
Maximum Surge Current (@10ms)	: 25A (250A)
	40A (500A)
	60A (700A)
Maximum I²t for Fusing (@10ms)	: 25A (312A²s)
	40A (1250A²s)
	60A (2450A²s)

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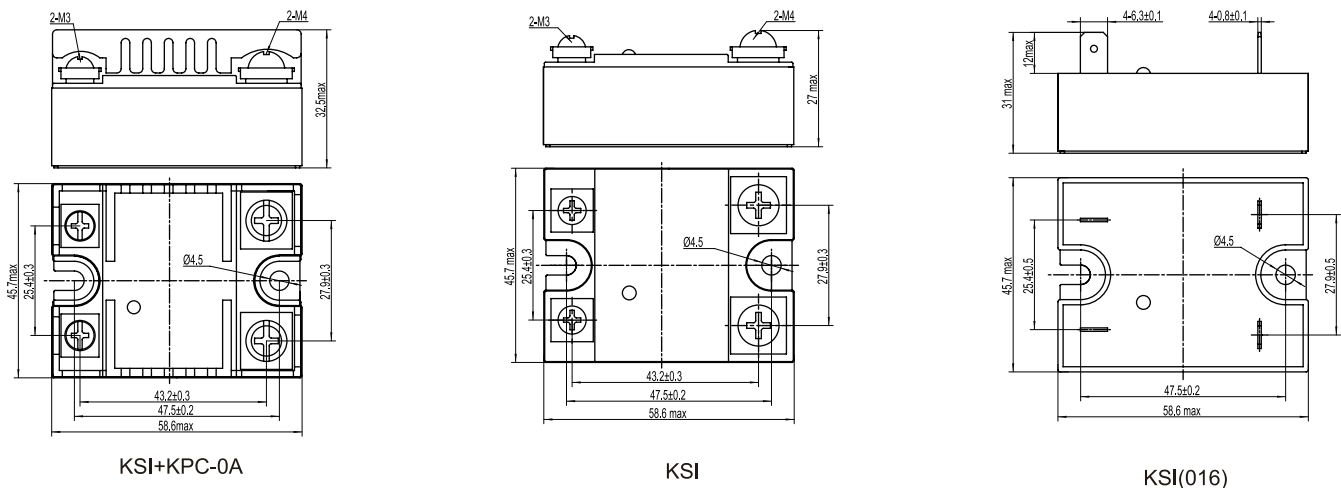
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Transient Overvoltage : MPKSI240D/AXXX-LXXX Series (600Vpk)
MPKSI480D/AXXX-LXXX Series (1200Vpk)

Maximum Operating Voltage Allowed By Varistors : MPKSI240D/AXXX-LMXXX Series (300V AC)
MPKSI480D/AXXX-LMXXX Series (550V AC)

MOV Varistor Voltage Range : MPKSI240D/AXXX-LTXXX Series (423~517V)
MPKSI480D/AXXX-LTXXX Series (819~1001V)

TVS Breakdown Voltage Range : MPKSI240D/AXXX-LTXXX Series (480V)
MPKSI480D/AXXX-LTXXX Series (960V)

Maximum Off-State Leakage Current@Rated Load Voltage : 10mA

Maximum On-State Voltage Drop@Rated Current : 1.7Vrms

Minimum Off-State dv/dt
@Maximum Rated Voltage : TRIAC Output (200V/µs)
SCR Output (500V/µs)

General Specifications (Ta=25°C)

Dielectric Strength (50/60Hz) : Input/Output (4000Vrms)
Input, output/Base (2500Vrms)

Minimum Insulation Resistance (@500V DC) : 1000MΩ

Ambient Temperature Range : -30°C to +80°C

Storage Temperature Range : -30°C to +100°C

Weight (Typical) : 96g (Standard Version)
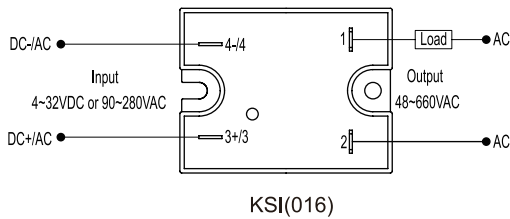100g (Suffix with (016))

Diagram

KSI+KPC-0A

KSI

KSI(016)

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Solid State Relay

Wiring

KSI(016)

Dimensions : Millimetres

Part Number Table

Description	Part Number
Solid State Relay, Panel Mount, 10A, Input 4V to 32V DC, Output 28V To 280V AC	MPKSI240D10-L(070)
Solid State Relay, Panel Mount, With Protection Cover, 10A, Input 4V to 32V DC, Output 28V To 280V AC	MPKSI240D10-L(070)+KPC-0A
Solid State Relay, Panel Mount, With Protection Cover, 25A, Input 4V to 32V DC, Output 28V To 280V AC	MPKSI240D25-L(070)+KPC-0A
Solid State Relay, Panel Mount, 60A, Input 4V to 32V DC, Output 28V To 280V AC	MPKSI480D60-L

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