

RoHS
Compliant



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 I ² t for Fusing (@10ms)	: 25A (312A ² s) 40A (1250A ² s) 60A (2450A ² s)

Solid State Relay

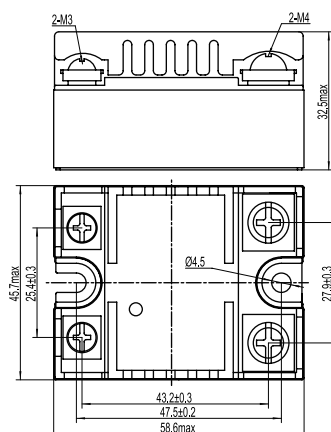
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Transient Overvoltage	: MPKSI240D/AXXX-LXXX Series (600Vpk) MPKSI480D/AXXX-LXXX Series (1200Vpk)
Maximum Operating Voltage Allowed By Varistors	: MPKSI240D/AXXX-LMXXX Series (300V AC) MPKSI480D/AXXX-LMXXX Series (550V AC)
MOV Varistor Voltage Range	: 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)

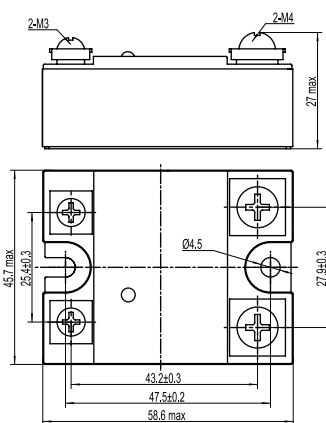
General Specifications (Ta=25°C)

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))

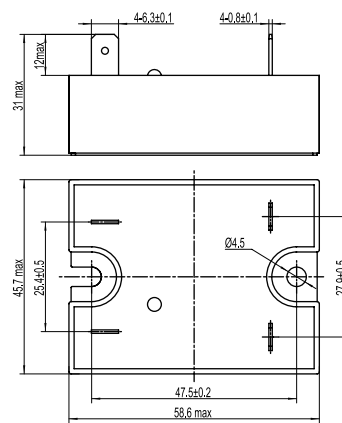
Diagram



KSI+KPC-0A



KSI

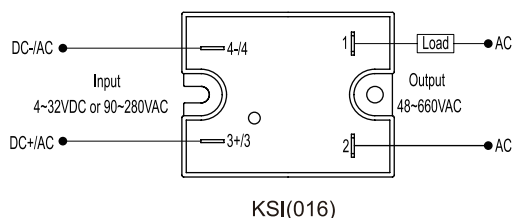


KSI(016)

Solid State Relay

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Wiring



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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