

RoHS
Compliant



Features

- Zero Crossing or Random-on Switching
- SCR Output
- DC or AC Input
- Load Current: 10A, 20A, 30A, 40A, 50A, 75A
- Dielectric Strength: 4000Vrms
- Built-in RC Snubber Circuit
- With Integrated Heatsink, Width 30mm (for 10A-30A), 50mm (for 40A) or 105mm (50A, 75A)
- 35mm Rail DIN(EN50022)
- LED Indicator

Applications

Suitable for Temperature Chamber, Injection Molding Machine, Packaging Machine, and etc.

General Specifications

Input Specifications (Ta=25°C)

Control Voltage Range	: 4V DC to 32V DC (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) 15V AC (AC Control)
Maximum Input Current	: 25mA(32V DC) (DC Control) 25mA(@280V AC/50Hz) (AC Control)
Maximum Input Current	: 25mA

Output Specifications (Ta=25°C)

Load Voltage Range	: 240V AC, (24V AC to 280V AC) 480V AC, (24V AC to 530V AC) 600V AC, (24V AC to 660V AC)
Maximum Turn-on Time	: 1ms (DC Control Random-on) 10ms (DC Control Zero Crossing) 40ms (AC Control)
Maximum Turn-off Time	: 10ms (DC Control) 40ms (AC Control)
Maximum Surge Current (@10ms)	: 10A (200A) 20A (300A) 30A (500A) 40A (600A)
Maximum I ² t for Fusing (@10ms)	: 10A (200A ² s) 20A (450A ² s) 30A (1250A ² s) 40A (1800A ² s)
Maximum Transient Overvoltage	: 240V AC(600Vpk)
Maximum Off-State Leakage Current@Rated Load Voltage	: KSV... Series (10mA)
Maximum On-State Voltage Drop@Rated Current	: 1.6Vrms
Minimum Off-State dv/dt@Maximum Rated Voltage	: 500V/μs

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General Specifications (Ta=25°C)

Dielectric Strength (50/60Hz)

: Input/Output (4000Vrms)

Minimum Insulation Resistance
(@500V DC)

Input, output/Base (2500Vrms)

: 1000MΩ

Minimum Power Factor (at Maximum load)

: 0.5

Ambient Temperature Range

: -30°C to +80°C

Storage Temperature Range

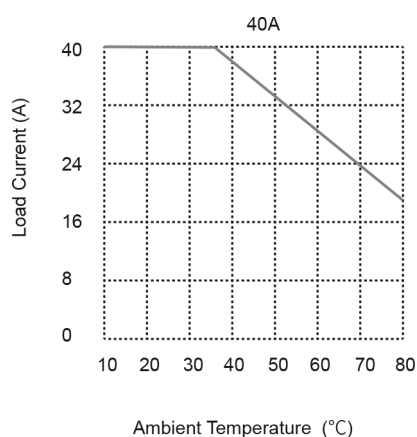
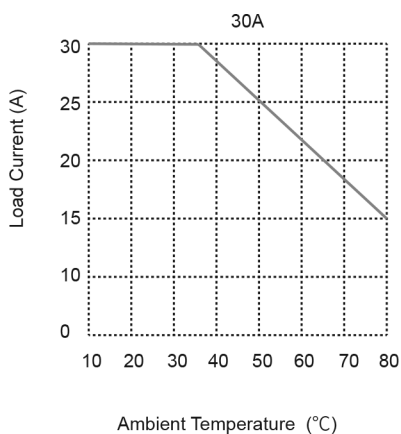
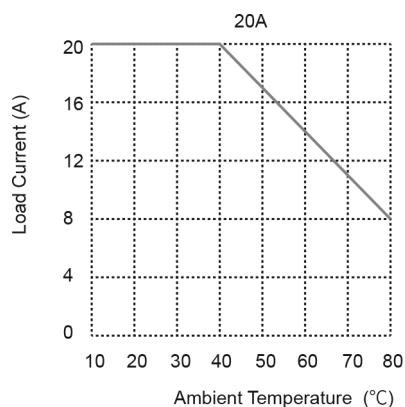
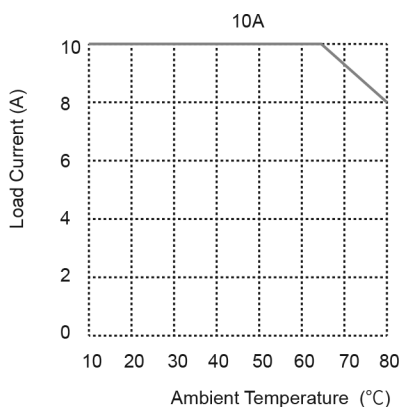
: -30°C to +100°C

Weight (Typical)

: 355g (10A/20A/30A)

540g (40A))

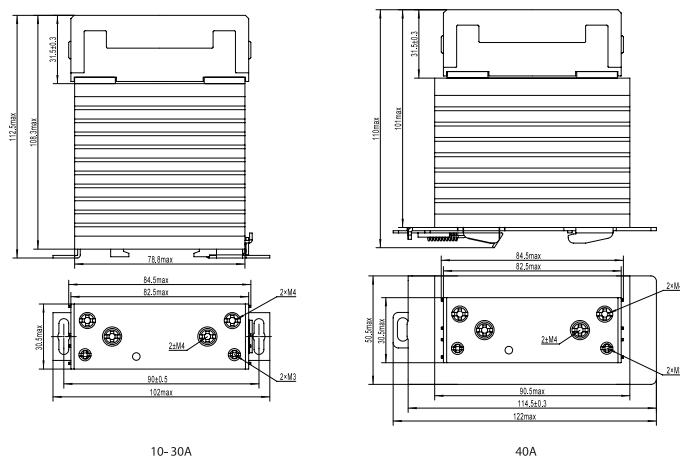
Thermal Derating Curve



Solid State Relay

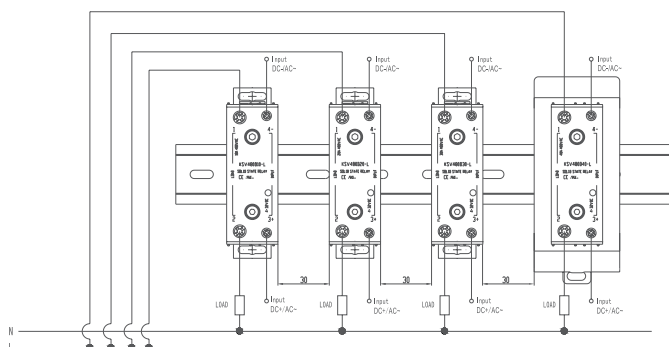
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Diagram



Connection Example

When mounting relays side by side please see recommended minimum spacing below.



Dimensions : Millimetres

Part Number Table

Description	Part Number
Solid State Relay, DIN Rail Mount, 10A, Input 4V to 32V DC, Output 28V To 280V AC	MPKSV240D10-L
Solid State Relay, DIN Rail Mount, 20A, Input 4V to 32V DC, Output 28V To 280V AC	MPKSV240D20-L
Solid State Relay, DIN Rail Mount, 30A, Input 4V to 32V DC, Output 28V To 280V AC	MPKSV240D30-L
Solid State Relay, DIN Rail Mount, 40A, Input 4V to 32V DC, Output 28V To 280V AC	MPKSV240D40-L

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