

DIN Rail Mount Solid State Relay

Single Phase AC Output

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**RoHS
Compliant**

Description

This is an industrial solid state relay with an integrated heat sink, width at 30mm or 50mm, with rail clips, can be mounted on 35mm din rail or be screwed on the panel. The product offers four control voltage specifications: 4 ~ 32V DC or 90~280V AC, the load voltage is 24 ~ 280V AC, 24 ~ 530V AC and 24 ~ 660VAC, load current 10A, 20A, 30A and 40A. Product dimension is at 100mm×30mm×112mm (10A, 20A and 30A products) or 122mm×50mm×110mm (40A product).

Features

- Zero Crossing
- Ratings from 10A to 40A @ 24-660V AC
- SCR Output
- DC or AC Input
- With Integrated Heatsink, Width 30mm (for 10A-30A) or 50mm (for 40A)
- Dielectric Strength 4000V ACrms
- LED Indication
- Built-in RC Snubber Circuit
- 35mm Rail (DIN EN50022)
- The relay and the radiator are detachable

Application

Plastic machinery, electric injection molding machine, packaging machine. Used in a variety of industrial heating occasions.

Technical Specification

Input Circuit		
Control Voltage Range	DC Input	4-32V DC
	AC Input	90-280V AC
Minimum Turn-on Voltage	DC Input	4V DC
	AC Input	90V AC
Minimum Turn-off Voltage	DC Input	1V DC
	AC Input	15V AC
Maximum Input Current	DC Input Zero-crossing	15mA @ 32V DC
	AC Input	25mA @ 280V AC
Output Circuit		
Load Voltage	240V	24-280V AC
	480V	24-530V AC
	600V	24-600V AC
Maximum Turn-on Time	DC Input Zero-crossing	10ms
	AC Input	40ms
Maximum Turn-off Time	DC Input	10ms
	AC Input	40ms

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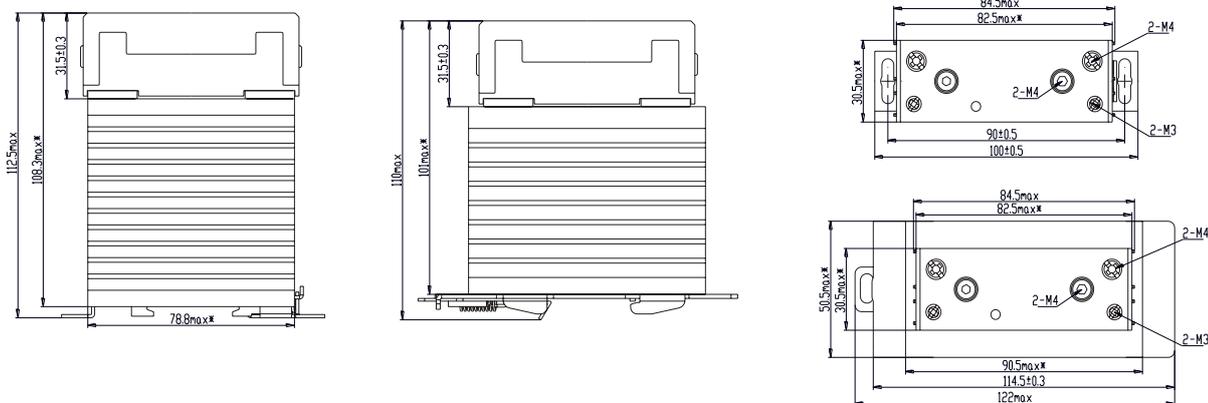
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Maximum Surge Current [@10ms]	10A	200A
	20A	300A
	30A	500A
	40A	600A
Maximum I ² t For Fusing[@10ms]	10A	200A ² S
	20A	450A ² S
	30A	1250A ² S
	40A	1800A ² S
Transient Over voltage	240V	600Vpk
	480V	1200Vpk
	600V	1600Vpk
Maximum Off-state Leakage Current [@ Rated Voltage]		5mA
Maximum On-state Voltage Drop [@ Rated Current]	Typical	1.25Vrms
	Max.	1.6Vrms
Minimum Off-state dv/dt [@ Maximum Rated Voltage]		500V/μs
General Information		
Dielectric Strength [50/60Hz]	Input/Output	≥4000Vrms
	Input, Output/Base	≥2500Vrms
Min. power factor		0.5
Ambient Operating Temperature Range		-30°C ~ +80°C
Ambient Storage Temperature Range		-30°C ~ +100°C
Weight [Typical]	10A/20A/30A	355g
	40A	540g

Installation Drawing



Dimensions : Millimetres

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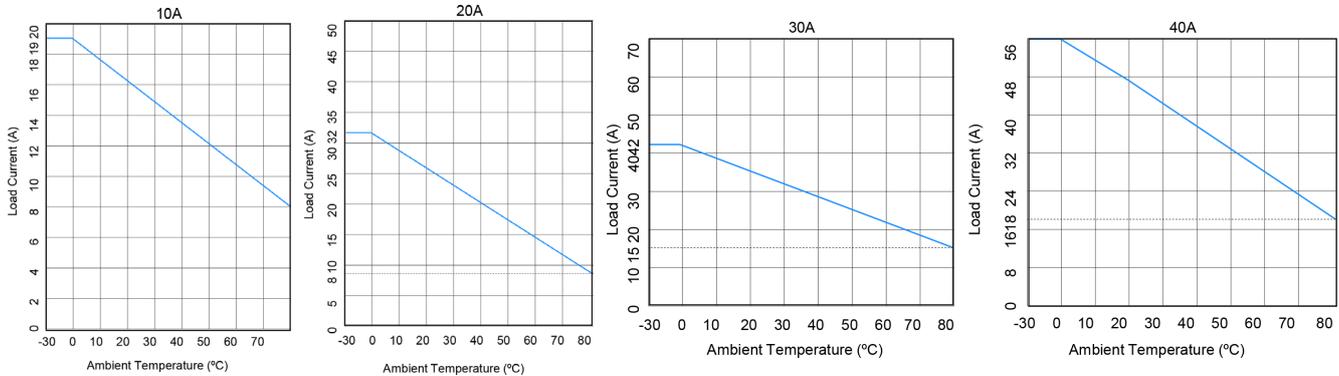
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Thermal Curve



Part Number Table

Description	Part Number
SSR, DIN Rail Mount, 10A, 240V AC, 4-32V DC, Zero Crossing	MC002280
SSR, DIN Rail Mount, 10A, 240V AC, 4-32V DC, Zero Crossing, W/ MOV	MC002281
SSR, DIN Rail Mount, 20A, 240V AC, 4-32V DC, Zero Crossing	MC002282
SSR, DIN Rail Mount, 20A, 240V AC, 4-32V DC, Zero Crossing, W/ MOV	MC002283
SSR, DIN Rail Mount, 30A, 240V AC, 4-32V DC, Zero Crossing	MC002284
SSR, DIN Rail Mount, 30A, 240V AC, 4-32V DC, Zero Crossing, W/ MOV	MC002285
SSR, DIN Rail Mount, 30A, 480V AC, 90-280V AC, Zero Crossing	MC002286
SSR, DIN Rail Mount, 20A, 480V AC, 4-32V DC, Zero Crossing	MC002287
SSR, DIN Rail Mount, 30A, 480V AC, 4-32V DC, Zero Crossing	MC002288
SSR, DIN Rail Mount, 40A, 480V AC, 4-32V DC, Zero Crossing	MC002289
SSR, DIN Rail Mount, 20A, 600V AC, 4-32V DC, Zero Crossing, W/ MOV	MC002290
SSR, DIN Rail Mount, 30A, 600V AC, 4-32V DC, Zero Crossing	MC002291
SSR, DIN Rail Mount, 30A, 600V AC, 4-32V DC, Zero Crossing, W/ MOV	MC002292

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