

Panel Mount Solid State Relay

Three Phase AC Output

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**RoHS
Compliant**



Description

Three-phase AC output solid state relay, control voltage is 90-280V AC or 4-32V DC, load current is 60A. Load voltage range 24-530V AC. SCR output, dielectric strength $\geq 4000\text{Vrms}$ (Input/Output), $\geq 2500\text{Vrms}$ (Input,Output/Base).

Features

- Zero Crossing
- Rated Load Current: 60A
- SCR Output
- Dielectric Strength $\geq 4000\text{Vrms}$
- Internal RC/MOV Protection Circuit

Application

Three-phase Motor Control, Kiln Temperature Control System, Large Oven etc.

Technical Specification

Input Circuit		
Control Voltage Range	AC Control	90-280V AC
	DC Control	4-32V DC
Minimum Turn-on Voltage	AC Control	90V AC
	DC Control	4V DC
Minimum Turn-off Voltage	AC Control	15V AC
	DC Control	1V DC
Maximum Reverse Voltage	DC Control	32V DC
Maximum Input Current	AC Control	30mA @ 280V AC
	DC Control	35mA @ 32V DC
Load Voltage Range	480V	24 -530V AC
Maximum Turn-on Time	AC Control	40ms
	DC Input Random-on	1ms
	DC Input Zero-on	10ms
Maximum Turn-off Time	AC Control	20ms
	DC Control	10ms
Maximum Surge Current [@10ms]	60A	860A
Transient Over Voltage	480V	1200Vpk
Maximum I^2t For Fusing [@10ms]	60A	3698A ² S
Maximum Off-State Leakage Current [@ Rated Voltage]		5mA
Maximum On-State Voltage Drop [@ Rated Current]		1.6Vrms
Minimum Off-State dv/dt [@ Maximum Rated Voltage]		$\geq 500\text{ V}/\mu\text{s}$

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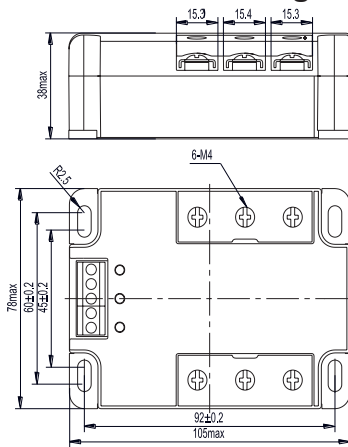
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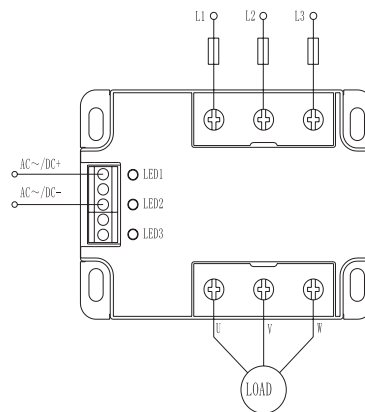
General Information		
Dielectric Strength [50/60Hz]	Input/Output	≥4000Vrms
	Input, Output/Base	≥2500Vrms
Ambient Operating Temperature Range		-30°C ~ +80°C
Ambient Storage Temperature Range		-30°C ~ +100°C
Weight [Typical]		530g

Installation Drawing



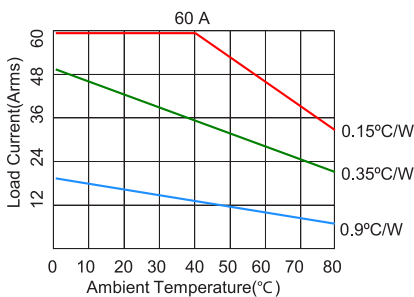
Dimensions : Millimetres

Wiring Diagram



AC ~ (DC+) : AC Control Input (DC Control Anode Input)
 AC ~ (DC-) : AC Control Input (DC Control Cathode Input)
 LED2: Input Indicator

Thermal Curve



Part Number Table

Description	Part Number
SSR, 3 Phase, Panel Mount, 60A, 480V AC, 90-280V AC, Zero Crossing	MC002370
SSR, 3 Phase, Panel Mount, 60A, 480V AC, 4-32V DC, Zero Crossing	MC002371

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