

Panel Mount Solid State Relay

Three-phase Motor Reversing Module

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**RoHS
Compliant**



Description

These are motor reversing module, specially developed for three-phase motor control. Control loop contains logic interlock delay circuit and the switching time exceeds 50ms. Internal automatic phase correction function and phase-loss protection function, widely used for motor control applications.

Features

- SCR output for heavy industrial loads
- 10 ~ 32V DC input
- Dielectric strength $\geq 4000V_{rms}$
- Internal RC protection circuit
- High EMC design
- Automatic phase correction function and phase loss protection function (Option)

Technical Specification

Input Circuit		
Control Voltage Range		10 ~ 32VDC
Minimum Turn-On Voltage		10V DC
Minimum Turn-Off Voltage		4V DC
Maximum Input Current		25mA
Minimum Reversible Switching Time		50ms
Output Circuit		
Load Voltage Range		24 ~ 530V AC
Maximum Transient Over voltage		1200Vpk
Minimum Load Current		100mA
Maximum Turn-Off Time		20ms
Maximum Surge Current [@10ms]	25A	250A
	60A	600A
Maximum I ² t For Fusing [@10ms]	25A	312A ² S
	60A	1800A ² S
Maximum Off-State Leakage Current [@ Rated Voltage]		5mA
Maximum On-State Voltage Drop [@ Rated Current]		1.7Vrms
Minimum Off-State dv/dt [@ Maximum Rated Voltage]		1000V/ μ s
General Information		
Dielectric Strength[50/60Hz]	Input-Output	$\geq 4000V_{rms}$
	Input/Output/Base	$\geq 2500V_{rms}$

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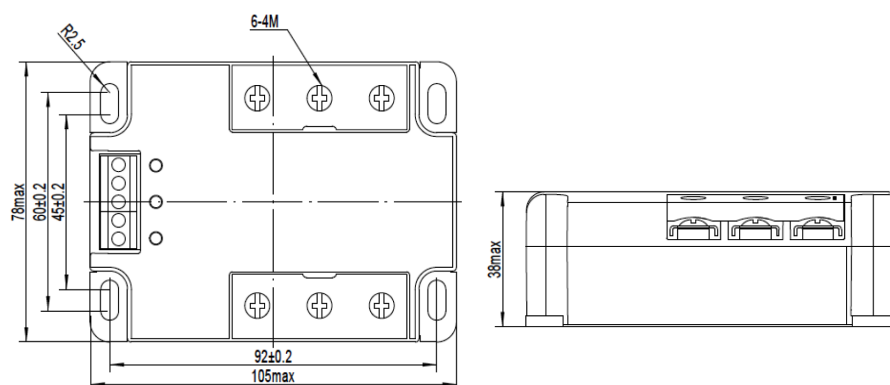
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Ambient Operating Temperature Range		-30°C ~ +80°C	
Ambient Storage Temperature Range		-30°C ~ +100°C	
Weight [typical]		338g	
Working Status Indication	LED1		Forward Indication
	LED2		Reverse Indication
	LED3	With function	Fault Indication
		Without function	None Indication

Application

Motor control

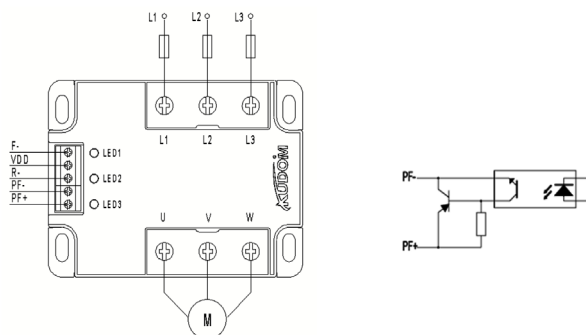
Installation Diagram



Dimensions : Millimetres

Connection Diagram

Common Anode



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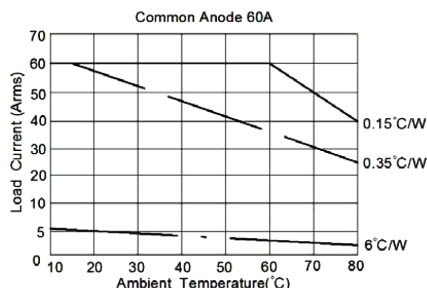
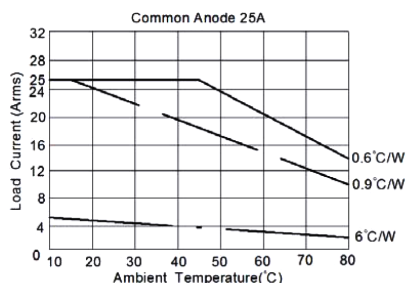
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Thermal Curve



Part Number Table

Description	Part Number
SSR, 25A, 480V AC, 10-32V DC, Common Anode, Zero Crossing, IP00, Thermal Pad	MC002294
SSR, 25A, 480V AC, 10-32V DC, Common Anode, Zero Crossing, IP00	MC002295
SSR, 60A, 480VAC, 10-32VDC, Common Anode, Zero Crossing, IP00, Thermal Pad	MC002296
SSR, 60A, 480VAC, 10-32VDC, Common Anode, Zero Crossing, IP00	MC002297

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