

# Panel Mount Solid State Relay Three-phase Motor Reversing Module



**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  $\geq 4000\text{Vrms}$
- 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 <sup>2</sup> t For Fusing [@10ms]	25A	312A <sup>2</sup> S
	60A	1800A <sup>2</sup> 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/ $\mu$ s	
General Information		
Dielectric Strength[50/60Hz]	Input-Output	$\geq 4000\text{Vrms}$
	Input/Output/Base	$\geq 2500\text{Vrms}$

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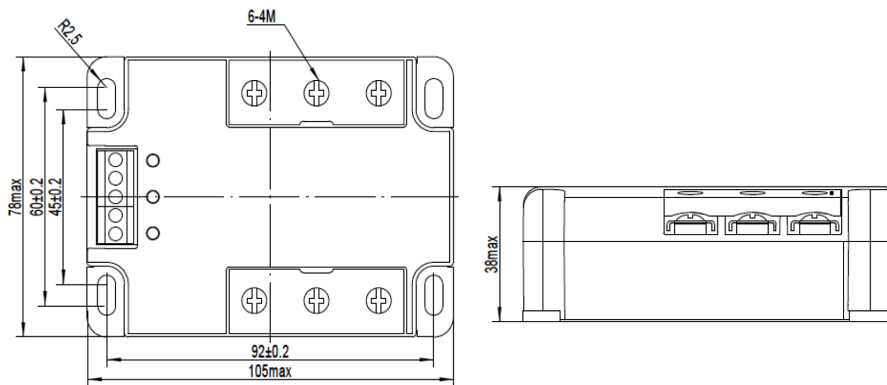


Ambient Operating Temperature Range		-30°C ~ +80°C	
Ambient Storage Temperature Range		-30°C ~ +100°C	
Weight [typical]		338g	
Working Status Indication	LED1		Forward Indication
	LED2		Reverse Indication
	LED3	With function	Fault Indication
		Without function	None Indication

## Application

Motor control

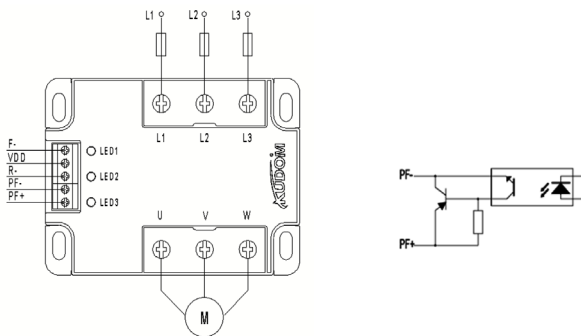
## Installation Diagram



Dimensions : Millimetres

## Connection Diagram

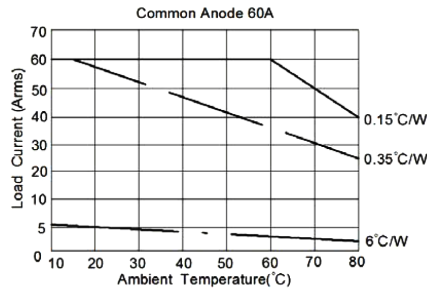
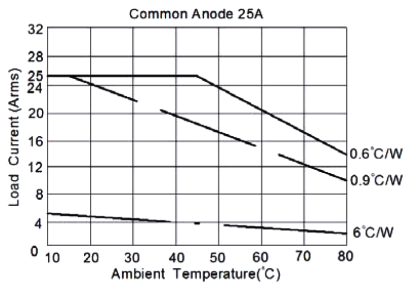
### Common Anode



# Panel Mount Solid State Relay Three-phase Motor Reversing Module



## 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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