Solid State Relays

multicomp PRO

Description

This is a three phase AC output solid state relay, control voltage is 4-32VDC, load current is 25A and 60A. Load voltage range 24-660V AC. SCR output, dielectric strength ≥4000Vrms (Input/Output), ≥2500Vrms (Input,Output/Base). The load voltage is 480 Volts.

Features

- Zero-crossing switching
- Rated load current: 25A and 60A
- SCR output
- Dielectric strength ≥4000Vrms
- Opto-isolation
- MOV protection circuit

Applications

Suitable for three-phase motor control, kiln temperature control system, large oven etc.

Technical Specification

Input Circuit

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Control Voltage Range	: 4V DC to 32V DC
Min. Turn-On Voltage	: 4V DC
Min. Turn-Off Voltage	: 1V DC
Max. Reverse Voltage	: 32V DC
Max. Input Current	: 35mA @ 32V DC

Output Circuit

|	
Load Voltage Range	: 24 ~ 530V AC
Max. Turn-on Time	: 10ms
Max. Turn-off Time	: 10ms
Max. Surge Current [@10ms]	
25A	: 300A
60A	: 1000A
Transient Over Voltage	: 1200Vpk
Max. I^2t For Fusing [@10ms]	
25A	: 450A^{2}S
60A	: 5000A^{2}S
Max. Off-State Leakage Current [@ Rated Voltage]	: 5mA
Max. On-State Voltage Drop [@ Rated Current]	: 1.6Vrms
Min. Off-State dv/dt [@ Max. Rated Voltage]	: ≥500 V/µs

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General Information

Dielectric Strength (50/60Hz)

    Input/Output   : ≧4000Vrms

    Input, Output/Base   : ≧2500Vrms

Ambient Operating Temperature Range   : -30°C to +80°C

Ambient Storage Temperature Range   : -30°C to +100°C

Weight [Typical]   : For 25A it is 385g and for 60A it is 520g

Diagram
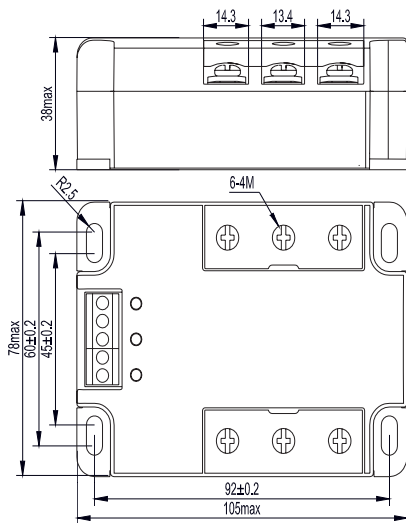
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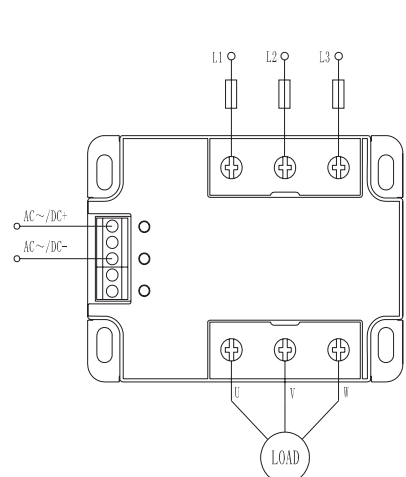
Thermal Curve
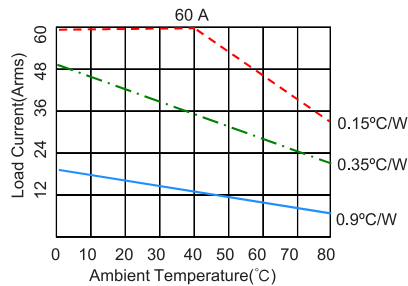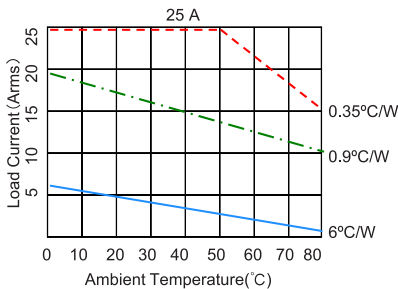
Part Number Table

Description	Part Number
SSR, 25A, 4-32V DC, 3 Phase	MCKSQF480D25
SSR, 60A, 4-32V DC, 3 Phase	MCKSQF480D60

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