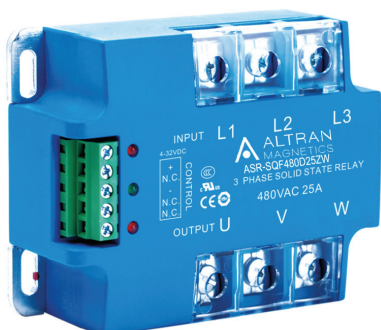


Solid State Relay

SQF Series Three-phase AC Output



- Zero-crossing or Random-on Switching
- Rated Load Current: 25A, 40A, 60A, 80A
- SCR Output
- Dielectric Strength $\geq 4000\text{Vrms}$
- Opto-isolation
- Internal RC/MOV Protection Circuit
- RoHS Compliant

Product Description

SQF series is three phase AC output solid state relay, control voltage is 90-280VAC or 4-32VDC, load current range are 25A, 40A, 60A and 80A. Load voltage range 24-660VAC. SCR output. Dielectric strength $\geq 4000\text{Vrms}$ (Input/Output), $\geq 2500\text{Vrms}$ (Input/Output/Base).

Product Selection

ASR	—	SQF	480	D	25	R	W	-P
	Packing - : Bulk Packing A-Z	SQF Series	Load Voltage 480: 480VAC 600: 600VAC	Control Voltage Type D: DC Control A: AC Control	Load Current 25: 25Amp 40: 40Amp 60: 60Amp 80: 80Amp	Switching Mode Z: Zero Crossing R: Random-on	Control Voltage Y: 90-280VAC W: 4-32VDC	Thermal Pad Blank: Without -P: With

Technical Specification

INPUT CIRCUIT		
Control Voltage Range	AC Control	90-280VAC
	DC Control	4-32VDC
Must Turn-on Voltage	AC Control	90VAC
	DC Control	4VDC
Must Turn-off Voltage	AC Control	15VAC
	DC Control	1VDC
Maximum Reverse Voltage	DC Control	32VDC
Maximum Input Current	AC Control	30 mA@280VAC
	DC Control	35 mA@32VDC

Solid State Relay

SQF Series Three-phase AC Output

OUTPUT CIRCUIT		
Load Voltage Range	480V	24 -530VAC
	600V	24 -660VAC
Maximum Turn-on Time	AC Control	40ms
	DC Control	Zero Crossing 10ms
		Random-on 1ms
Maximum Turn-off Time	AC Control	20ms
	DC Control	10ms
Maximum Surge Current (@10ms)	25A	300A
	40A	500A
	60A	860A
	80A	1280A
Transient Overvoltage	480V	1200Vpk
	600V	1600Vpk
Maximum I ² t For Fusing [@10ms]	40A	1250A ² S
	60A	3698A ² S
	80A	8192A ² S
Maximum Off-State Leakage Current [@ Rated Voltage]		200V/μs
Maximum On-State Voltage Drop [@ Rated Current]		1.6Vrms
Minimum Off-State dv/dt [@ Maximum Rated Voltage]		≥500 V/μs

Solid State Relay

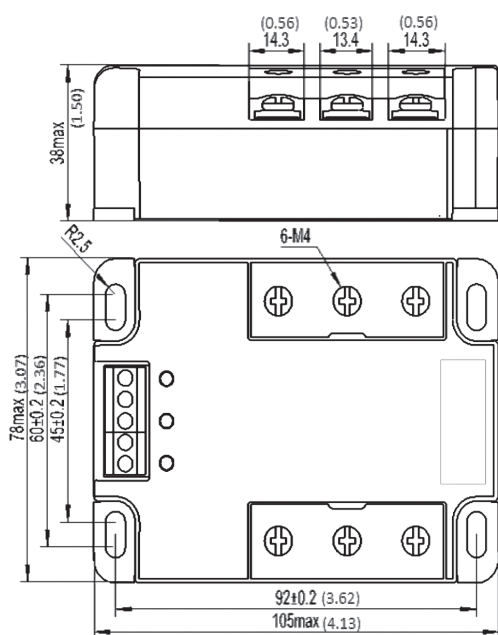
SQF Series Three-phase AC Output

GENERAL INFORMATION		
Dielectric Strength [50/60Hz]	Input/Output	$\geq 4000\text{Vrms}$
	Input,Output/Base	$\geq 2500\text{Vrms}$
Ambient Operating Temperature Range		$-30^{\circ}\text{C} - +80^{\circ}\text{C}$
Ambient Storage Temperature Range		$-30^{\circ}\text{C} - +100^{\circ}\text{C}$
Weight [Typical]	25A, 40A	385g
	60A,80A	520g

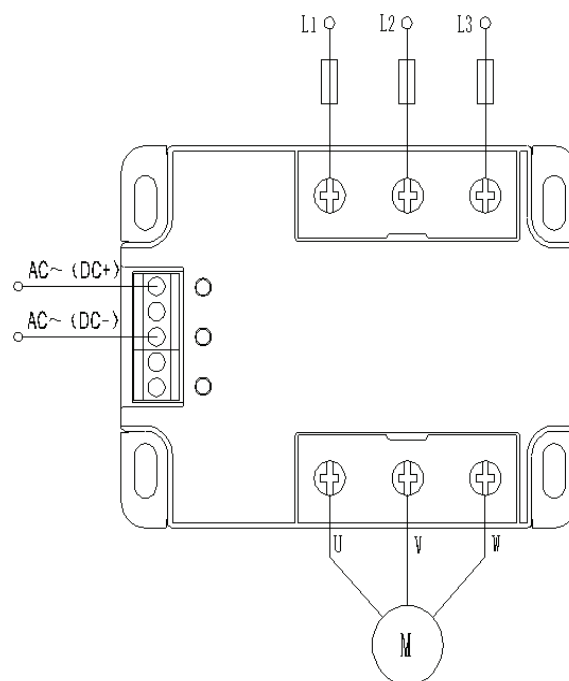
Application Note:

Suitable for three phase motor control, temperature control, large oven, and etc.

Installation



Wiring Diagram



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