

Solid State Relay

KSQF Series Three Phase AC Output

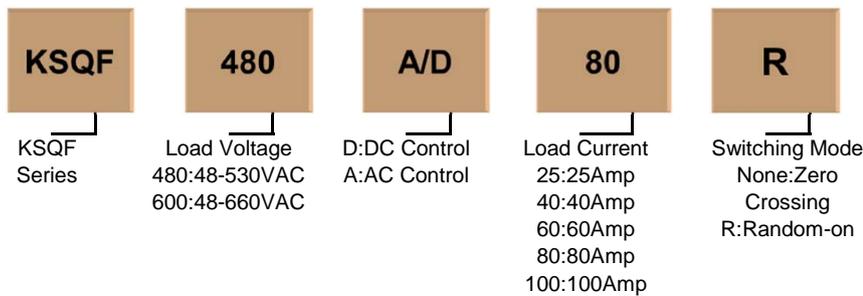


- Zero switching or random-on
- Load current:25-100A @48-660VAC
- SCR output
- Dielectric strength $\geq 4000\text{Vrms}$
- Opto-isolation
- Internal MOV/RC protection circuit
- RoHS compliant

Product Description

KSQF series three phase AC output solid state relay, control voltage is 90-280VAC or 4-32VDC, load current is 25A,40A,60A,80A,100A. Load voltage range 48-660VAC. SCR output, dielectric strength 4000Vrms.

Product Selection



Description	25A	40A	60 A	80 A	100 A
480VAC	KSQF480D25	KSQF480D40	KSQF480D60	KSQF480D80	KSQF480D100
	KSQF480D25R	KSQF480D40R	KSQF480D60R	KSQF480D80R	KSQF480D100R
	KSQF480A25	KSQF480A40	KSQF480A60	KSQF480A80	KSQF480A100
600VAC	KSQF600D25	KSQF600D40	KSQF600D60	KSQF600D80	KSQF600D100
	KSQF600D25R	KSQF600D40R	KSQF600D60R	KSQF600D80R	KSQF600D100R
	KSQF600A25	KSQF600A40	KSQF600A60	KSQF600A80	KSQF600A100

Technical Specification

Input Circuit

Control Voltage Range	AC Control	90-280VAC
	DC Control	4-32VDC
Minimum Turn-On Voltage	AC Control	90VAC
	DC Control	4VDC
Minimum Turn-Off Voltage	AC Control	15VAC
	DC Control	1VDC
Maximum Input Current	AC Control	<30mA
	DC Control	<35mA

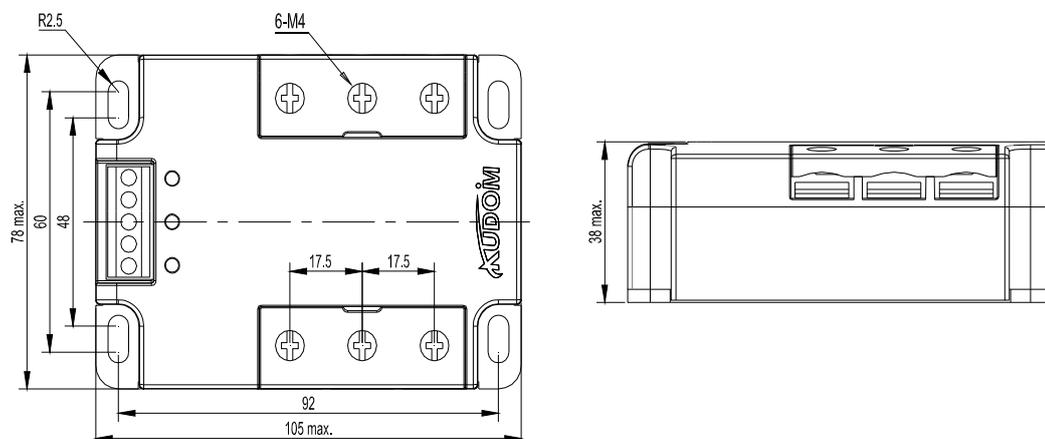
Output Circuit			
Load Voltage Range	480VAC	48-530VAC	
	600VAC	48-660VAC	
Transient Overvoltage	480VAC	1200Vpk	
	600VAC	1600Vpk	
Maximum Turn-On Time	AC	40ms	
	DC	Zero Crossing	1/2AC Cycle + 1ms
		Random-on	1ms
Maximum Turn-Off Time	AC Control	20ms	
	DC Control	1/2AC Cycle + 1ms	
Maximum Surge Current (@10ms)	25A	250A	
	40A	400A	
	60A	600A	
	80A	800A	
	100A	1000A	
Maximum Off-State Leakage Current [@ Rated Voltage]		5mA	
Maximum On-State Voltage Drop [@ Rated Current]		1.6Vrms	

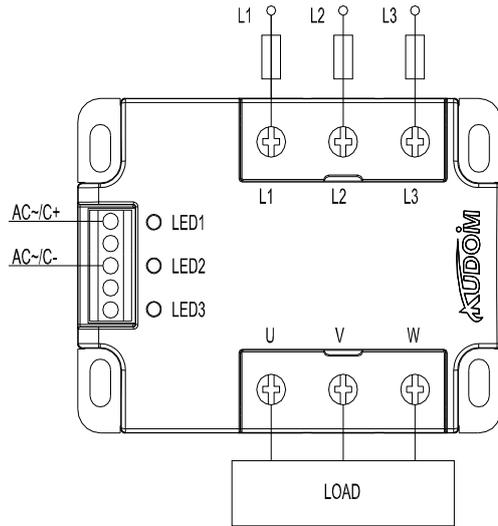
General Information		
Dielectric Strength	Input/Output	$\geq 4000V_{rms}$
	Output/Base	$\geq 2500V_{rms}$
Ambient Operating Temperature Range		$-30^{\circ}C \sim +80^{\circ}C$
Ambient Storage Temperature Range		$-30^{\circ}C \sim +100^{\circ}C$
Weight (typical)		350g

Application

Three-phase motor control, kiln temperature control system, large oven etc.

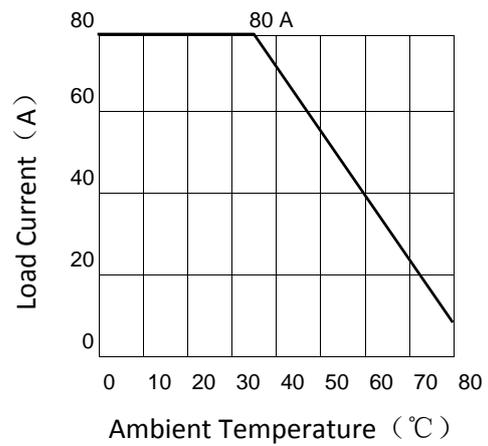
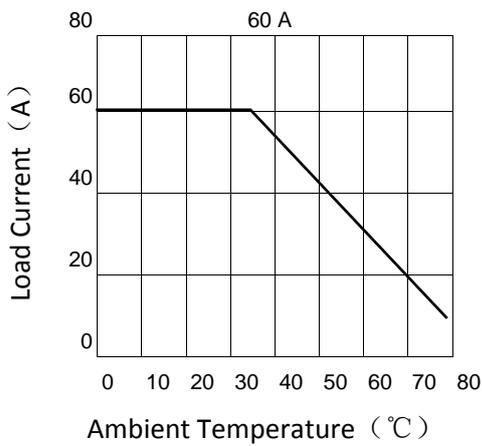
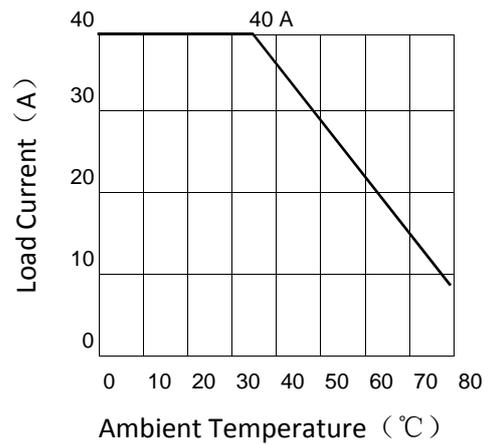
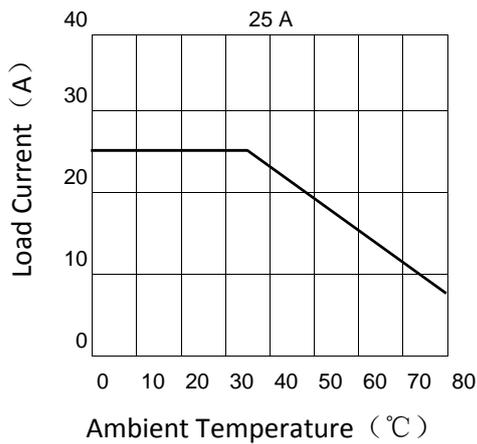
Installation

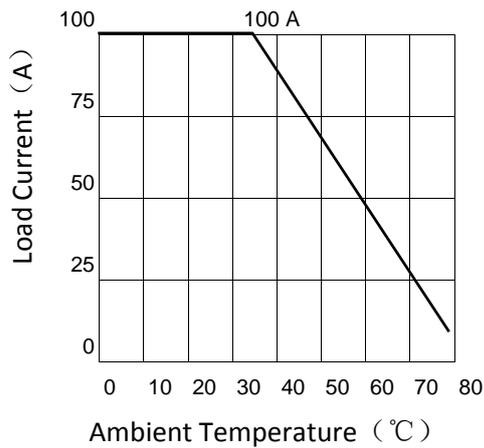




AC~/DC+: AC Control Input/DC Control Anode Input
 AC~/DC-: AC Control Input/DC Control Cathod Input

Thermal Curve





Important Notice

1. If the connection of the load will produce high surge current, please pay attention to the solid state relay is able to withstand surge current value.
2. If the connection of the load will produce high peak reverse voltage, please pay attention to the solid state relay is able to withstand the peak voltage.
3. When the ambient temperature is over 40°C, load current performance will decline.
4. Product side panels can be very hot, please make sure that after its cooling to touch it again.
5. Liquid and foreign body have been banned from entering the product.

Product Certification

