

Product Description

- ◆ Control Voltage at 4-32VDC or 90-280VAC
- ◆ Load Current: 10A, 15A, 25A, 40A
- ◆ Dielectric Strength: 4000Vrms
- ◆ Internal RC Circuit
- ◆ RoHS Compliant



Ordering Information

KSQE	480	D	10	(XXX)
KSQE Series	Load Voltage 380: 380VAC 480: 480VAC	Control Mode D: DC Control A: AC Control	Load Current 10: 10Amp 15: 15Amp 25: 25Amp 40: 40Amp	Customized Code

General Specifications

Input Specifications (Ta=25°C)		
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	30mA@280VAC
	DC Control	35mA@32VDC

Output Specifications (Ta=25°C)			
Load Voltage Range(47Hz~63Hz)	380VAC	24-440VAC	
	480VAC	24-530VAC	
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)	10A	120A	
	15A	160A	
	25A	250A	
	40A	400A	
Minimum Load Current	100mA		
Transient Overvoltage	380VAC	800Vpk	
	480VAC	1200Vpk	
Maximum I ² t for Fusing (@10ms)	10A	72A ² s	
	15A	128A ² s	
	25A	312A ² s	
	40A	800A ² s	

General Specifications

Maximum Off-State Leakage Current@Rated Load Voltage	10mA
Maximum On-State Voltage Drop@Rated Current	1.6Vrms
Minimum Off-State dv/dt@Maximum Rated Voltage	200V/μs

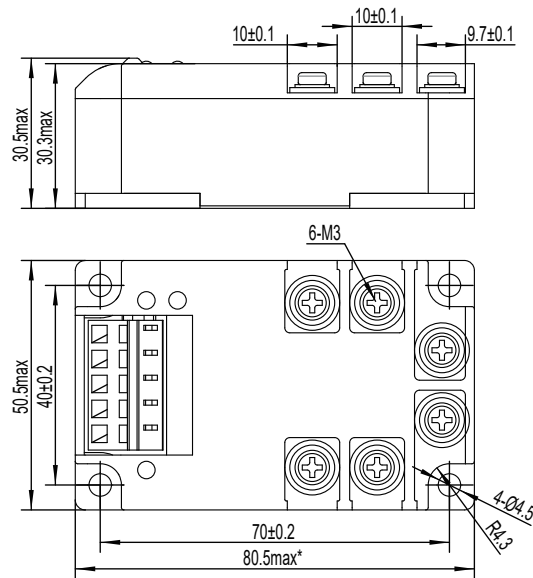
General Specifications (Ta=25°C)

Dielectric Strength (50/60Hz)	Input/Output	4000Vrms
	Input, output/Base	2500Vrms
Minimum Insulation Resistance (@500VDC)	1000MΩ	
Ambient Temperature Range	-30°C ~ +80°C	
Storage Temperature Range	-30°C ~ +100°C	
Weight (Typical)	180g	

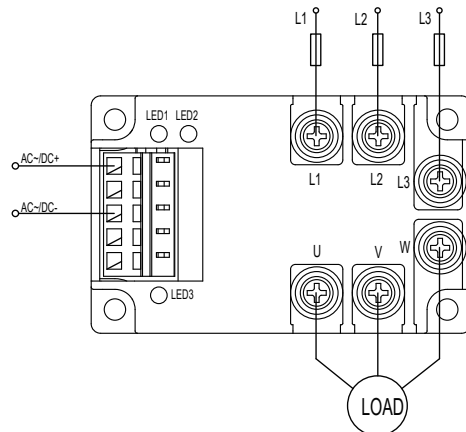
Applications

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

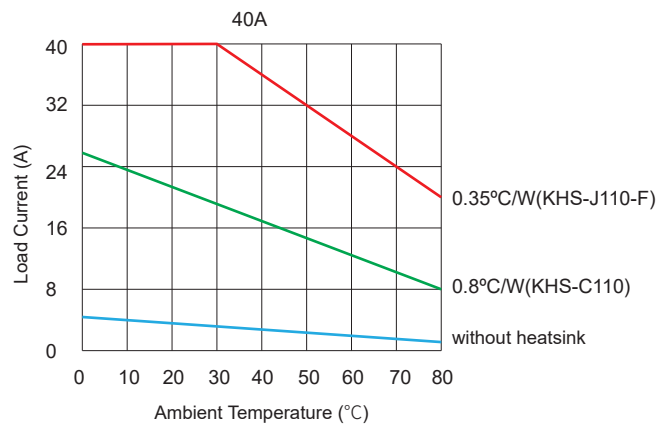
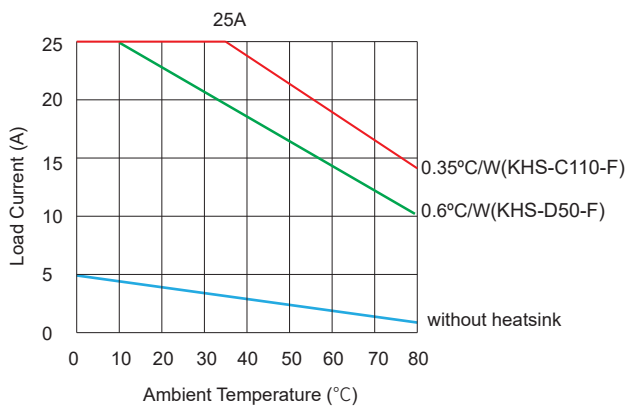
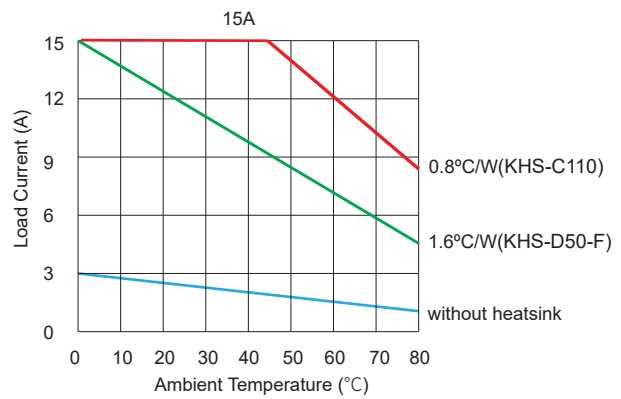
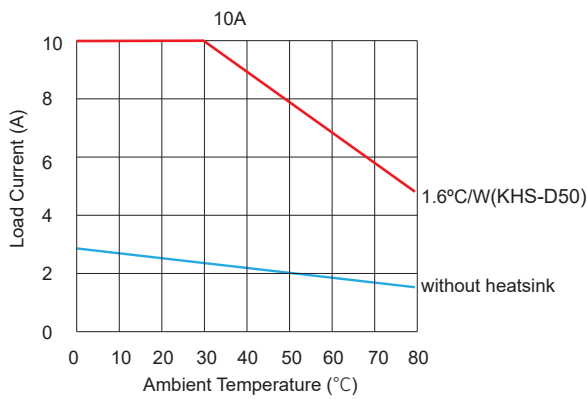
Outline Dimensions



Wiring Diagram



Thermal Derating Curve



General Notes

1. Relay must be mounted to proper sized heat sink based on thermal curves. Thermal grease or a thermal pad must be used between relay and heat sink and be torqued down to 18-20/2.0-2.2in-lb/Nm.
2. When connection wiring to SSR, please ensure screws are torqued down properly (output13-15/1.5-1.7 in-lb/Nm).
3. SSR's carrying load capacity is related to the operation ambient temperature and heat dissipation condition, please refer to the Thermal Derating Curve for derating.

Warnings

1. The product's side panels may be hot, allow the product to cool before touching.
2. Disconnect all power before installing or working with this equipment.
3. Verify all connections and replace all covers before turning on power.