Product Description

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

Product Selection

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	DC Control	4~32VDC
	AC Contro	90~280VAC
Must Turn-on Voltage	DC Control	4VDC
	AC Contro	90VAC
Must Turn-off Voltage	DC Control	1VDC
	AC Contro	15VAC
Maximum Input Current	DC Control	35mA (@32VDC)
	AC Contro	30mA (@280VAC)
Maximum Reverse Voltage	DC Control	32VDC

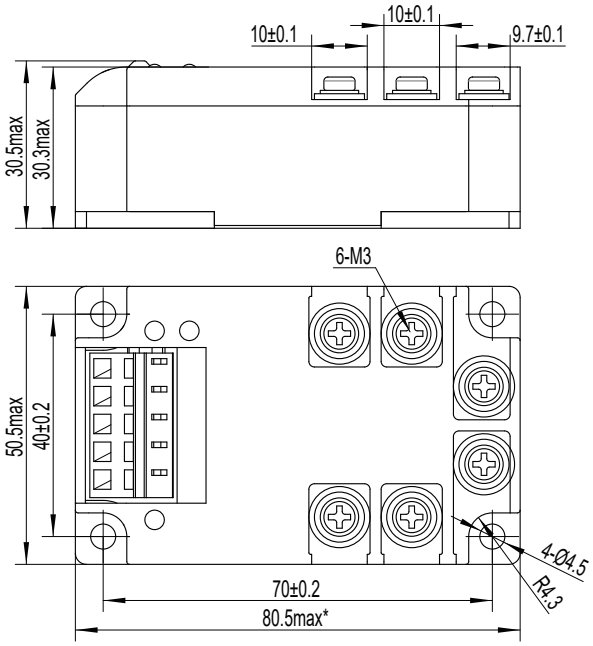
Output Specifications (Ta=25°C)		
Load Voltage Range (47~63Hz)	380VAC	24~440VAC
	480VAC	24~530VAC
Minimum Load Current		100mA
Maximum Turn-on Time	DC Control Random-on	1ms
	DC Control Zero Crossing	10ms
	AC Contro	40ms
Maximum Turn-off Time	DC Control	10ms
	AC Contro	20ms
Maximum Surge Current (@10ms)	10A	120A
	15A	160A
	25A	250A
	40A	400A
Maximum I^2t for Fusing (@10ms)	10A	$72A^2s$
	15A	$128A^2s$
	25A	$312A^2s$
	40A	$800A^2s$
Maximum Transient Overvoltage	380VAC	800Vpk
	480VAC	1200Vpk
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		200 V/μs

General Specifications (Ta=25°C)		
Dielectric Strength (50/60Hz)	Input/Output	4000Vrms
	Input, output/Base	2500Vrms
Insulation Resistance (@500VDC)		1000MΩ
Operating Temperature Range		-30℃～+80℃
Storage Temperature Range		-30℃～+100℃
Weight (Typical)		180g

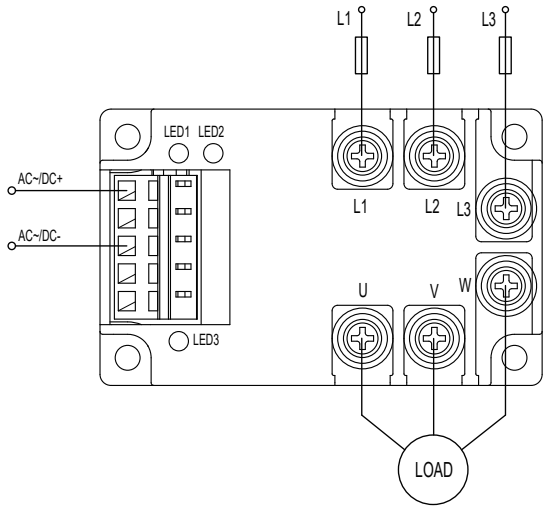
Applications

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

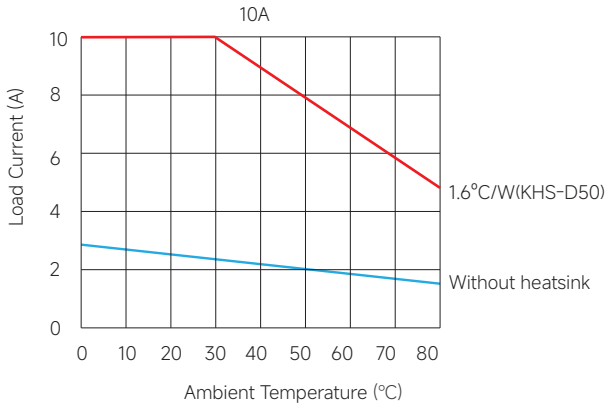
Outline Dimensions

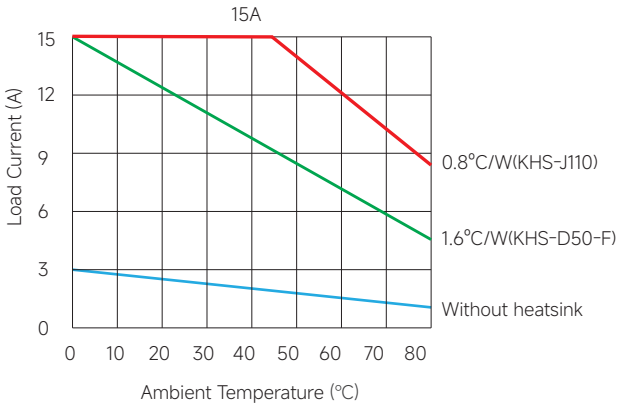


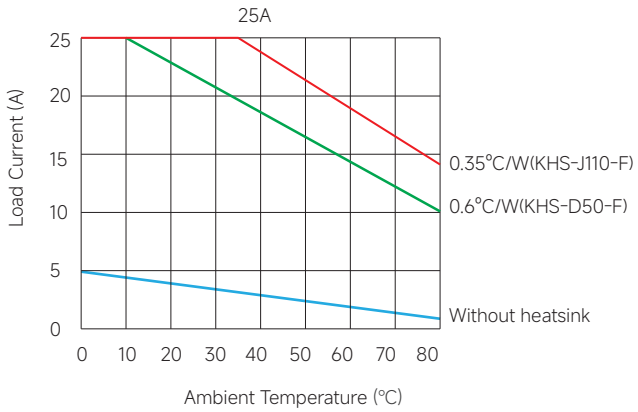
Wiring Diagram

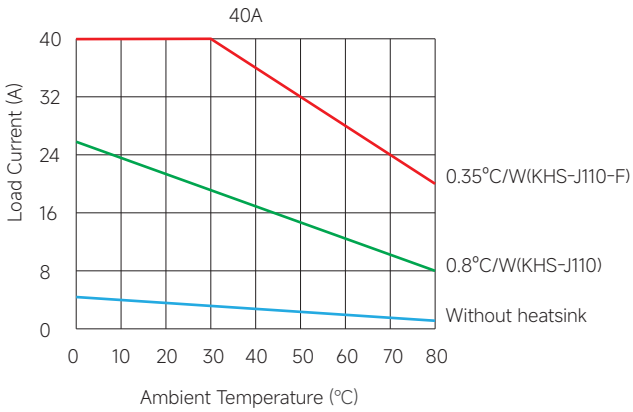


Thermal Derating Curve









Note: The curve above shows the heatsink capability under the worst case (100% continuous operation) for a solid state relay. If your application involves intermitent operation, please contact us with your actual operating conditions (load current, on/off time, ambient temperature, etc.), and we will recommend the most suitable solution for you.

General Notes

1. Relay must be mounted to proper sized beat 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 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.

