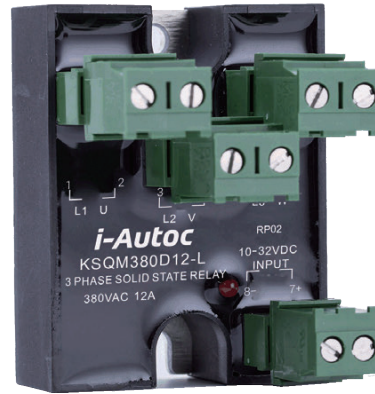


- ◆ Zero Crossing or Random-on Switching
- ◆ TRIAC Output
- ◆ DC Input
- ◆ Load Current: 12A, 25A
- ◆ Dielectric Strength: 4000Vrms
- ◆ RoHS Compliant



### Ordering Information

KSQM	380	D	12	R	-L	M	(XXX)
KSQM Series	Load Voltage 380: 380VAC	Control Mode D: DC Control	Load Current 12: 12Amp 25: 25Amp	Switching Mode Blank: Zero Crossing R: Random-on	L: LED	M: MOV Protection	Customized Code

### General Specifications

Input Specifications (Ta=25°C)	
Control Voltage Range	10-32VDC
Must Turn-On Voltage	10VDC
Must Turn-Off Voltage	4VDC
Maximum Input Current	25mA@32VDC

Output Specifications (Ta=25°C)		
Load Voltage Range		24-440VAC
Maximum Turn-On Time	Zero Crossing	10ms
	Random-on	1ms
Maximum Turn-Off Time		10ms
Maximum Surge Current (@10ms)	12A	120A
	25A	250A
Transient Overvoltage		800Vpk
Maximum Off-State Leakage Current@Rated Load Voltage		5mA
Maximum On-State Voltage Drop@Rated Current		1.6Vrms
Minimum Off-State dv/dt@Maximum Rated Voltage		200 V/μs

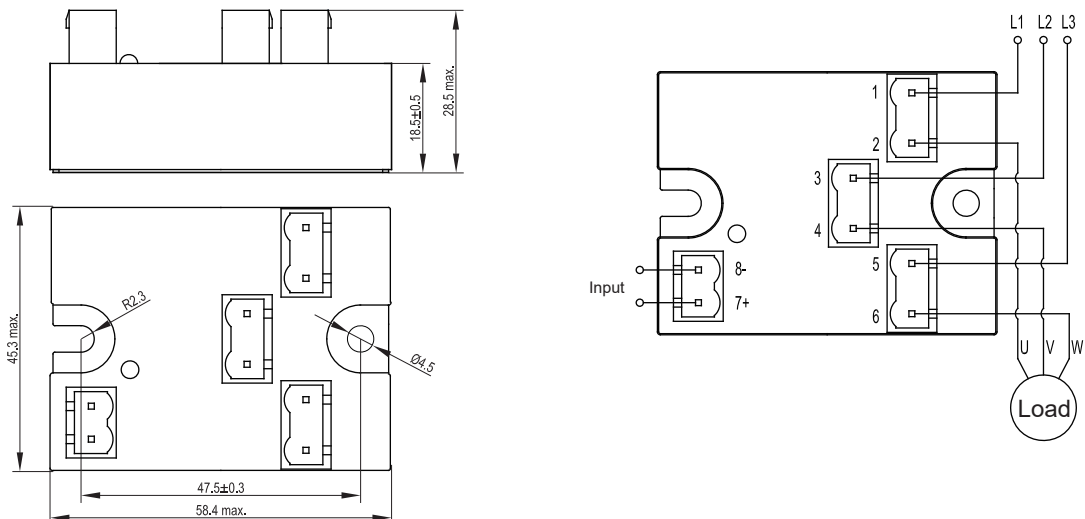
### General Specifications

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

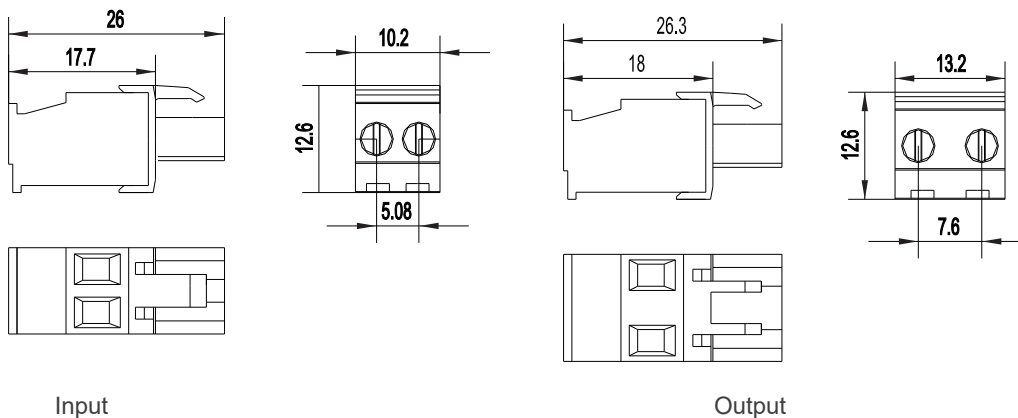
### Applications

Suitable for 3 phase motor control, temperature controlling weaving machinery, and etc.

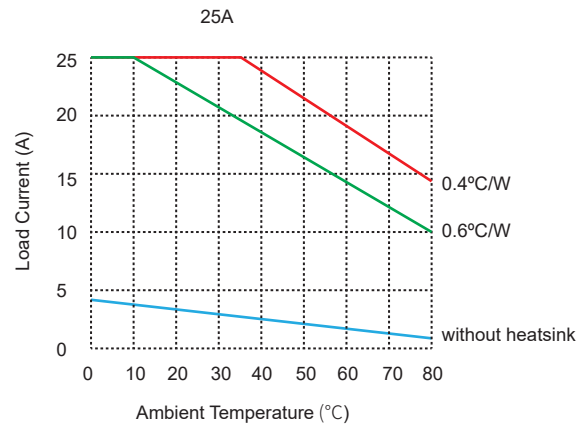
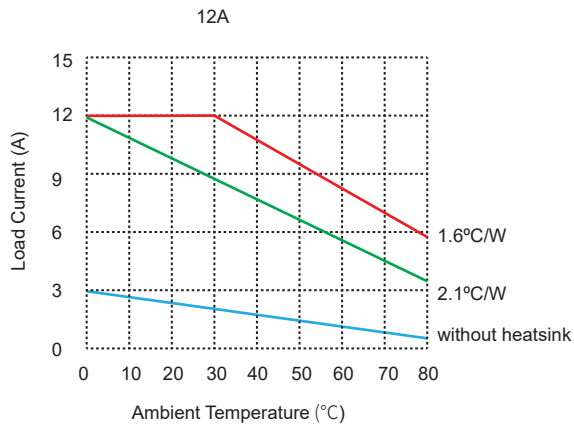
### Outline Dimensions / Wiring Diagram



### Outline Dimensions



## 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 18-20/2.0-2.2 in-lb/N·m.
2. When connection wiring to SSR please ensure screws are torqued down properly (input 4.43/0.5in lb/N·m, output 18-20/2.0-2.2 in-lb/N·m).
3. When Ambient temperature is above 25°C see thermal derating curve.

## Agency Approvals (Certification)

