

- ◆ Random-on Switching
- ◆ Three phase three control or three phase two control options
- ◆ Input Voltage: 10-32VDC
- ◆ Load Current: 25A, 40A, 60A
- ◆ Dielectric Strength: 4000Vrms
- ◆ Internal RC/MOV Protection Circuit
- ◆ RoHS Compliant



Ordering Information

KMS	380	D	25	P	-24	F
KMS Series (1)	Load Voltage 380: 24-440VAC 480: 24-530VAC	DC Control	Load Current 25: 25Amp 40: 40Amp 60: 60Amp	Blank: Common Cathode P: Common Anode	Control Voltage 24: 10-32VDC	Blank: Two-phase Switch F: Three-phase Switch

Note (1): The part number selection is subject to the following list.

Information	25A	40A	60 A
380VAC	KMS380D25 (P)-24	KMS380D40 (P)-24	KMS380D60 (P)-24
	KMS380D25 (P)-24F	KMS380D40 (P)-24F	KMS380D60 (P)-24F
480VAC	KMS480D25 (P)-24	KMS480D40 (P)-24	KMS480D60 (P)-24
	KMS480D25 (P)-24F	KMS480D40 (P)-24F	KMS480D60 (P)-24F

General Specifications

Input Specifications (Ta=25°C)			
Control Voltage Range	10-32VDC		
Must Turn-On Voltage	10VDC		
Must Turn-Off Voltage	3VDC		
Maximum Input Current	25mA		
Output Specifications (Ta=25°C)			
Load Voltage Range	380VAC	24-440VAC	
	480VAC	24-530VAC	
Maximum Transient Overvoltage	380VAC	1200Vpk	
	480VAC	1600Vpk	
Minimum Load Current	100mA		
Turn-on Time Delay	Typical	80ms	
Maximum Turn-Off Time	10ms		
Maximum Surge Current (@10ms)	25A	250A	
	40A	400A	
	60A	600A	
Maximum Off-State Leakage Current@Rated Load Voltage	5mA		
Maximum On-State Voltage Drop@Rated Current	1.5Vrms		
Minimum Off-State dv/dt@Maximum Rated Voltage	500V/μs		

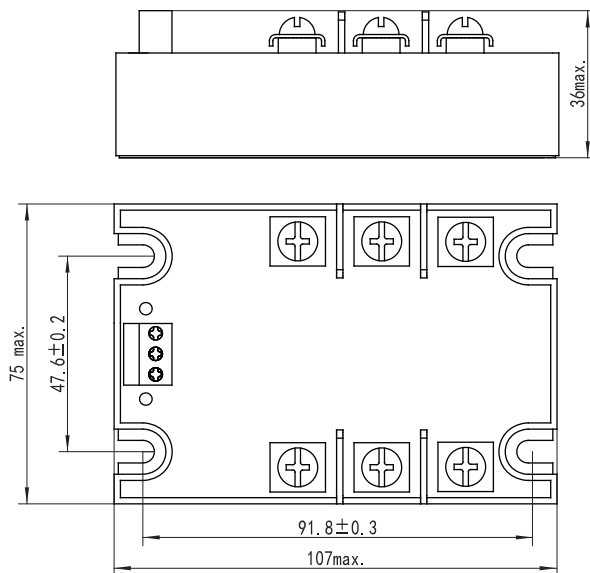
General Specifications

General Specifications (Ta=25°C)		
Dielectric Strength (50/60Hz)	Input/Output	4000Vrms
	Input, output/Base	2500Vrms
Minimum Insulation Resistance (@500VDC)		1000MΩ
Pulse immunity level	IEC61000-4-4	2kV/100kHz
Surge immunity level	IEC61000-4-5	2kV/common mould, 1kV/different mould
Electrostatic discharge immunity level	IEC61000-4-2	4kV/contact discharge, 8kV/air discharge
Ambient Temperature Range		-30°C ~ +80°C
Storage Temperature Range		-30°C ~ +100°C
Weight (Typical)		340g
LED Status Indication		Forward:Green
		Reversion:Red

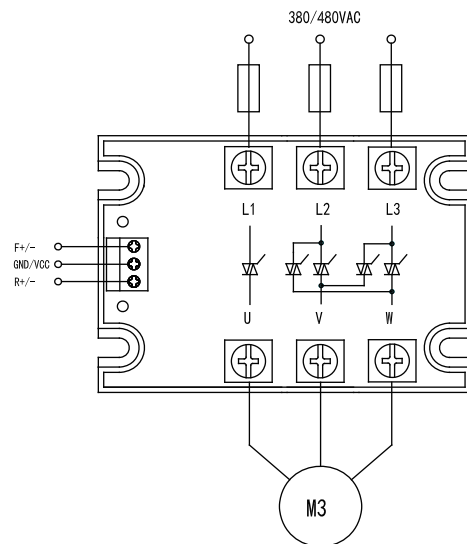
Applications

Three phase motor reversing control, such as the valve controls, and etc.

Outline Dimensions / Wiring Diagram

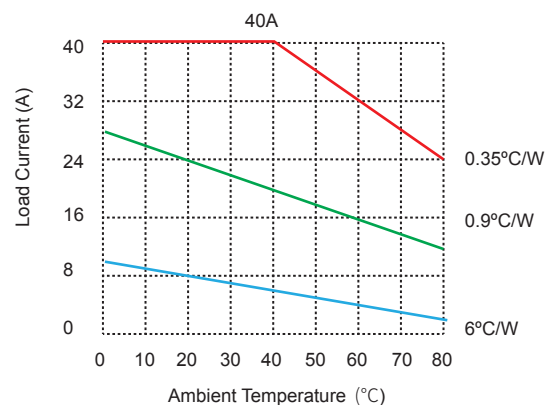
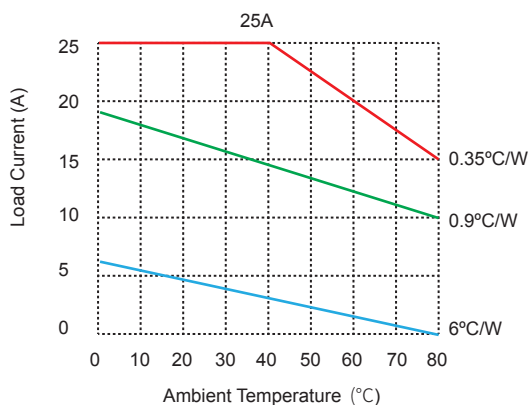


Outline Dimensions

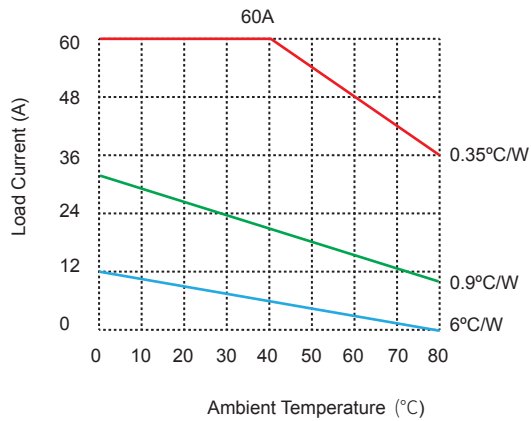


Wiring Diagram

Thermal Derating Curve



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 connecting wiring to SSR please ensure screws are torqued down properly (input 4.43/0.5 in-lb/N·m, output 5.13-8.67/0.58-0.98 in-lb/N·m)
3. When ambient temperature is above 25°C, the maximum load current decreases. See thermal derating curve.

Agency Approvals (Certification)

