

Product Description

- ◆ Random-on Switching
- ◆ SCR Output for Heavy Industrial Loads
- ◆ Input Voltage: 10-32VDC
- ◆ Load Current: 25A,50A
- ◆ Dielectric Strength: 4000Vrms
- ◆ Internal RC/MOV Protection Circuit
- ◆ RoHS Compliant



Ordering Information

KMT	380	D	50	R	P	-24
KMT Series (1)	Load Voltage 380: 380VAC 480: 480VAC	DC Control	Load Current 25: 25Amp 50: 50Amp	R: Random-on	Blank: Common Cathod P: Common Anode	Control Voltage 24: 10-32VDC

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

Information	25A	50 A
380VAC	KMT380D25R (P)-24	KMT380D50R (P)-24
480VAC	KMT480D25R (P)-24	KMT480D50R (P)-24

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

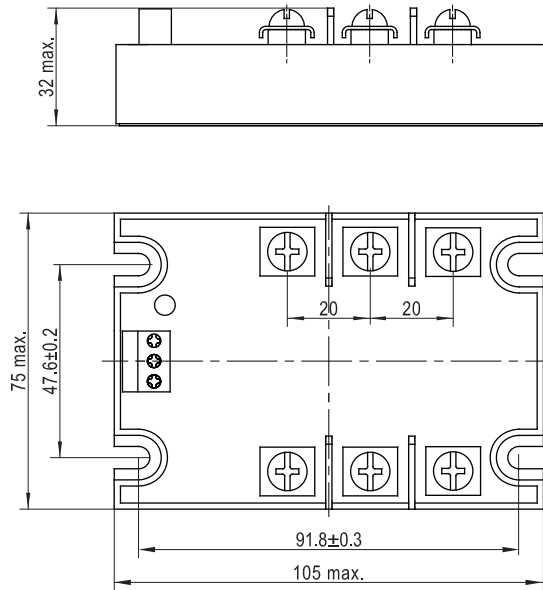
Output Specifications (Ta=25°C)		
Load Voltage Range	380VAC	24-440VAC
	480VAC	24-530VAC
Transient Overvoltage	380VAC	1200Vpk
	480VAC	1600Vpk
Turn-on Time Delay (Typical)	80ms	
Maximum Turn-Off Time	10ms	
Maximum Surge Current (@10ms)	25A	300A
	50A	600A
Maximum Off-state Leakage Current (@ Rated Voltage)	5mA	
Maximum On-state Voltage Drop (@ Rated Current)	1.5Vrms	
Minimum Off-State dv/dt@Maximum Rated Voltage	500V/μs	

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)	338g	
LED Status Indication	Forward:Green	
	Reverse:Red	

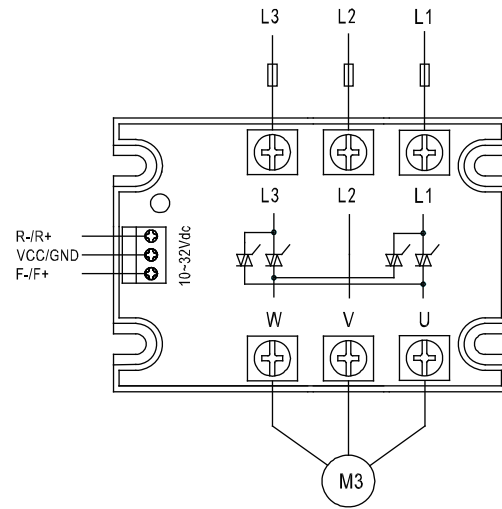
Applications

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

Outline Dimensions / Wiring Diagram

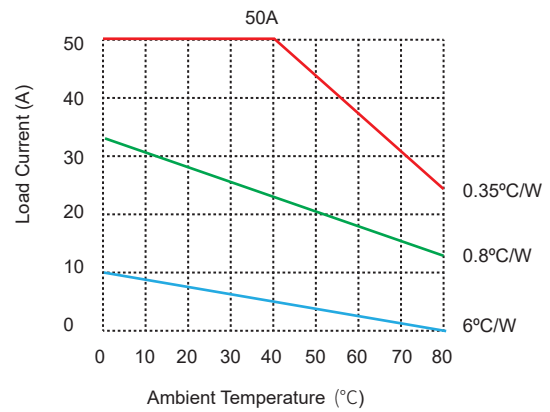
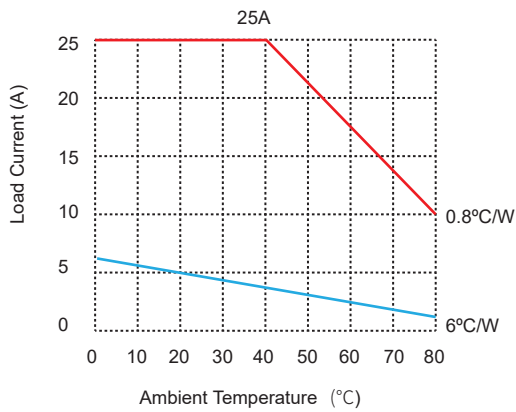


Outline dimensions



Wiring Diagram

Thermal Derating Curve



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)

