

Product Description

- Load Current: 25A, 40A@24-530VAC
- * 12VDC or 24VDC Input Control
- ◆ Internal RC/MOV Protection Circuit
- ♦ High EMC design
- SCR output
- RoHS Compliant







Ordering Information

KMGS

KMGS Series

480

D

50

R

12: 12VDC

-24

F

(XXX)

Load Voltage 480: 480VAC DC Control

Load Current 50: 50Amp R: 12: 12VDC Random-on 24: 24VDC. Blank: Two-phase Switch

XXX: Customized Code

F: _

Three-phase Switch

	Information	-12	-24
!	50A	KMGS480D50R-12F	KMGS480D50R-24F

General Specifications

Input Specifications (Ta=25°C)					
Control Voltago Bango	-12	9.6-14.4VDC			
¦ Control Voltage Range	-24	21-28.8VDC			
Mark Tarres Valley	-12	9.6VDC			
Must Turn-on Voltage	-24	21VDC			
Maximum Input Current	-12	65mA@14.4VDC			
, waximum input durient	-24	45mA@28.8VDC			
Must Turn-off Voltage	 	4VDC			
Minimum Reversible Switching Time (Typical)		70-100ms			

Output Specifications (Ta=25°C)				
Load Voltage Range	24-530VAC			
Maximum Transient Overvoltage	1600Vpk			
Minimum Load Current	100mA			
Maximum Turn-off Time	20ms			
Maximum On-State Voltage Drop@Rated Current	1.5Vrms			
Minimum Off-State dv/dt@Maximum Rated Voltage	500V/µs			









General Specifications

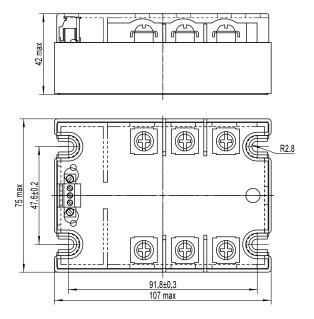
Output Specifications(Ta=25 °C)	
Maximum Off-State Leakage Current@Rated Load Voltage	5mA
Maximum Surge Current (@10ms)	400A
Maximum Motor Load Power	4kW
Maximum I²t for Fusing (@10ms)	800A²s

General Specifications (Ta=25°C)						
Dielectric Strength (50/60Hz)	Input/Output	3000Vrms				
3 (***** /	Input, output/Base	2500Vrms				
Ambient Temperature Range	-30°C ∼ +80°C					
Storage Temperature Range	-30℃ ~ +100℃					
Pulse Immunity Level	IEC61000-4-4	4kV/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				
Weight (Typical)	390g					
LED Light	Forward: green					
LED Light	Reversing: red					

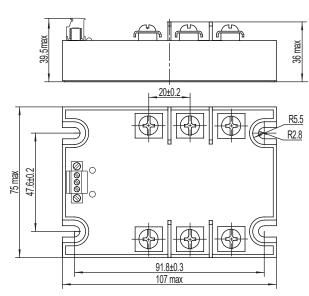
Applications

Motor control.

Outline Dimensions / Wiring Diagram



KMGS+KPC-1A Outline Dimensions



KMGS Outline Dimensions

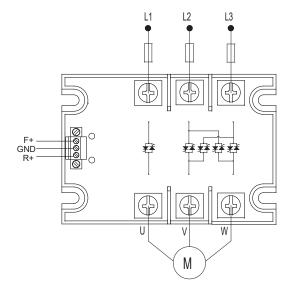








Wiring Diagram



Wiring instructions

Input

F+: Forward control please input Anode+.

GND: Control the negative terminal of the power supply.

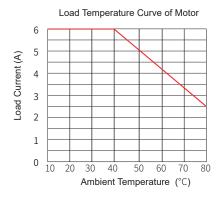
R+: Reversing control please input Anode+.

Output

L1/L2/L3: Three-phase power supply input.

U/V/W: Three-phase load output.

Thermal Derating Curve



Note: The product can be installed on the panel with thermal resistance ≤1.5 °C/W to assist heat dissipation.

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.
- 2. When connecting wiring to SSR please ensure screws are torqued down properly. Recommended torque for input screw is 4.43/(0.2-0.5) in-lb/N·m, output screw is (18-20)/(2.0-2.2) in-lb/N·m.
- 3. When the operation temperature is above 25 $^\circ$ C, please consider the derating as per the Thermal Derating Curve.
- 4. Please ensure reliable grounding when using the SSR.
- 5. Avoid using the product under the condition of strong magnetic field. The external strong magnetic field will affect the product's performance such as switching on and off.

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.





