

Product Description

- ◆ Load Current: 40A, 60A, 80A@24-530VAC
- ◆ Control Voltage: 12VDC or 24VDC
- ◆ Internal RC Protection Circuit
- ◆ High EMC Design
- ◆ SCR Output



Ordering Information

KMG	480	D	60	R	P	-24	F	(XXX)
KMG Series	Load Voltage 480: 24-530VAC	DC Control	Load Current 40:40Amp 60:60Amp 80:80Amp	Switching Mode R: Random-on	Control Voltage Blank: Common Cathod P: Common Anode	Control Voltage 12: 12VDC 24: 24VDC.	F:Three Phase Switch Blank:Two Phase Switch	Customized Code

		-12		-24	
Common Anode	40A	KMG480D40RP-12F	KMG480D40RP-12	KMG480D40RP-24F	KMG480D40RP-24
	50A	KMG480D60RP-12F	KMG480D60RP-12	KMG480D60RP-24F	KMG480D60RP-24
	75A	KMG480D80RP-12F	KMG480D80RP-12	KMG480D80RP-24F	KMG480D80RP-24
Common Cathod	40A	KMG480D40R-12F	KMG480D40R-12	KMG480D40R-24F	KMG480D40R-24
	50A	KMG480D60R-12F	KMG480D60R-12	KMG480D60R-24F	KMG480D60R-24
	75A	KMG480D80R-12F	KMG480D80R-12	KMG480D80R-24F	KMG480D80R-24

General Specifications

Input Specifications (Ta=25°C)		
Control Voltage Range	-12	9.6-14.4VDC
	-24	15-28.8VDC
Must Turn-on Voltage	-12	9.6VDC
	-24	15VDC
Maximum Input Current	-12	65mA@14.4VDC
	-24	45mA@28.8VDC
Must Turn-off Voltage		4VDC
Turn-on Delay Time (Typical)		80ms (Typical)

Output Specifications (Ta=25°C)	
Load Voltage Range	24-530VAC
Maximum Transient Overvoltage	1200Vpk
Minimum Load Current	100mA
Maximum Turn-off Time	20ms
Maximum On-State Voltage Drop@Rated Current	1.6Vrms
Minimum Off-State dv/dt	500V/μs

General Specifications

Output Specifications (Ta=25°C)

Maximum Off-State Leakage Current@Rated Load Voltage		5mA
Maximum Surge Current (@10ms)	40A	400A
	60A	600A
	80A	800A
Maximum Motor Power	40A	2.5kW
	60A	4kW
	80A	6kW
Maximum I ² t (@10ms)	40A	800A ² s
	60A	1800A ² s
	80A	3200A ² s

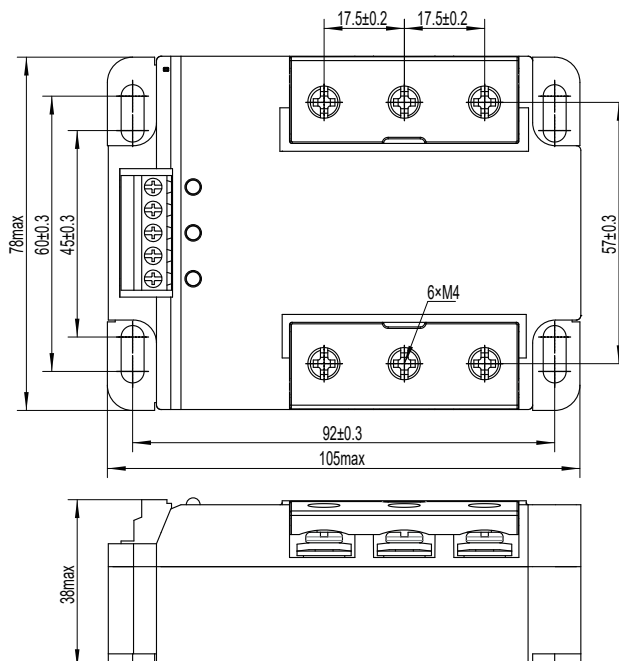
General Specifications (Ta=25°C)

Dielectric Strength (50/60Hz)	Input/Output	2500Vrms
	Input, output/Base	2500Vrms
Ambient Temperature Range		-30°C ~ +80°C
Storage Temperature Range		-30°C ~ +100°C
Pulse Immunity Level	IEC61000-4-4	4kV/100kHz(Level 4)
Surge Immunity Level	IEC61000-4-5	2kV/common mould, 1kV/different mould(Level 3)
Electrostatic Discharge Immunity Level	IEC61000-4-2	6kV/contact discharge, 8kV/air discharge(Level 4)
Weight (Typical)		400g
Working Status Indication	Green	Forward Indication
	Red	Reverse Indication

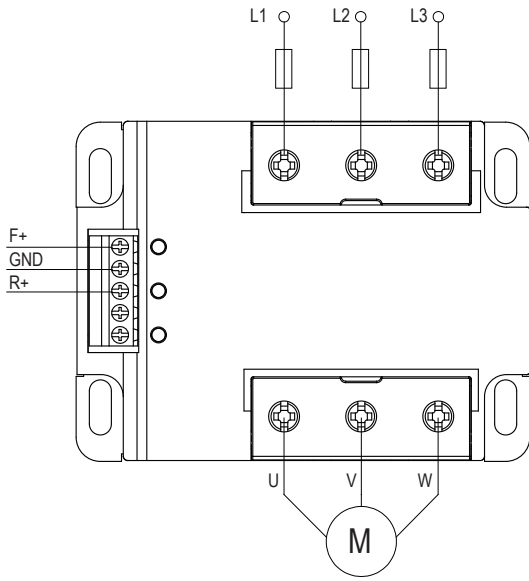
Applications

Suitable for motor control.

Outline Dimensions



Wiring Diagram



Common Cathod

Wiring Instructions of Common Cathode Control

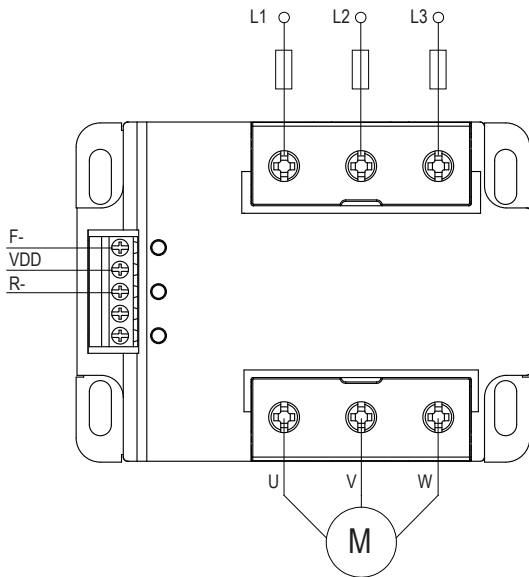
F+: Connect F+ for motor forward control

GND: Common terminal negative -

R+: Connect R+ for motor reverse control

L1/L2/L3: Three-phase input terminals

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



Common Anode

Wiring Instructions of Common Anode Control:

F-: Connect F- for motor forward control

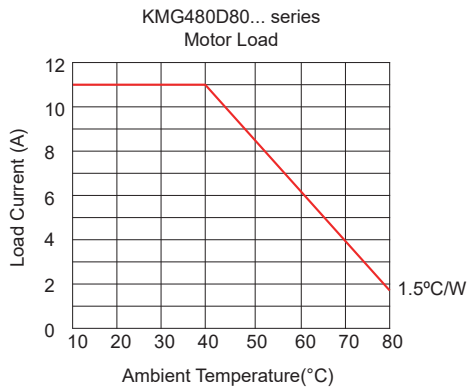
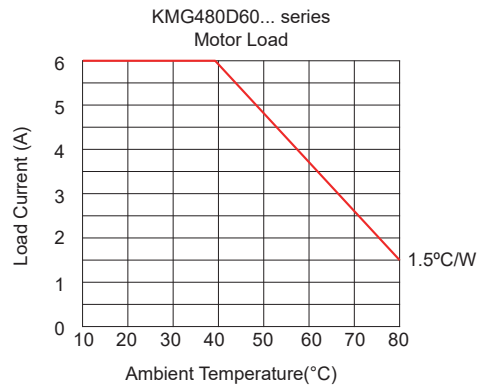
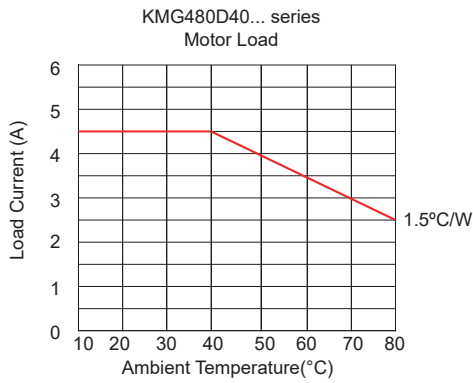
VDD: Common terminal positive +

R-: Connect R- for motor reverse control

L1/L2/L3: Three-phase input terminals

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

Thermal Derating Curve



Note: This product can be installed on a panel with a thermal resistance of $\leq 1.5\text{ }^{\circ}\text{C/W}$ to assist in 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. If the connected load will generate high surge current, please pay attention to whether the product can withstand the value of surge current.
3. 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.
4. Please ensure reliable grounding when using the SSR.

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.