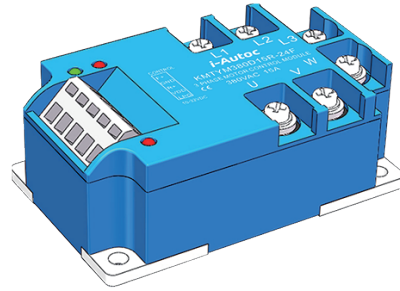


**Product Description**

- ◆ 10-32VDC Input
- ◆ Internal RC/MOV Protection Circuit
- ◆ Automatic Phase Correction, Phase Sequence Detection or Phase Loss Protection Function (Option)
- ◆ RoHS Compliant



**Ordering Information**

<b>KMTYM</b>	<b>380</b>	<b>D</b>	<b>25</b>	<b>R</b>	<b>P</b>	<b>-24</b>	<b>F</b>	<b>-N</b>
KMTYM Series	Load Voltage 380: 380VAC	DC Control	Load Current 15: 15Amp 25: 25Amp	Blank: Zero Crossing R: Random-on	Blank: Common Cathod P: Common Anode	Control Voltage 24: 10~32VDC	F: Three Phase Switch Blank: Two Phase Switch	Blank: with automatic phase correction function N: without automatic phase correction function

		15A	25A
Common Cathod	Two Phase Switch	KMTYM380D15-24	KMTYM380D25-24
		KMTYM380D15R-24	KMTYM380D25R-24
		KMTYM380D15-24-N	KMTYM380D25-24-N
	Three Phase Switch	KMTYM380D15R-24-N	KMTYM380D25R-24-N
		KMTYM380D15-24F	KMTYM380D25-24F
		KMTYM380D15R-24F	KMTYM380D25R-24F
Common Anode	Two Phase Switch	KMTYM380D15P-24	KMTYM380D25P-24
		KMTYM380D15RP-24	KMTYM380D25RP-24
		KMTYM380D15P-24-N	KMTYM380D25P-24-N
	Three Phase Switch	KMTYM380D15RP-24-N	KMTYM380D25RP-24-N
		KMTYM380D15P-24F	KMTYM380D25P-24F
		KMTYM380D15RP-24F	KMTYM380D25RP-24F
		KMTYM380D15P-24F-N	KMTYM380D25P-24F-N
		KMTYM380D15RP-24F-N	KMTYM380D25RP-24F-N

**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	Common Cathod	35mA@32VDC
	Common Anode	18mA@32VDC
Minimum Reversible Switching Time	80±10ms	

General Specifications

Output Specifications (Ta=25°C)		
Load Voltage Range	24-440VAC	
Maximum Transient Overvoltage	800Vpk	
Minimum Load Current	100mA	
Maximum Turn-off Time	20ms	
Maximum Surge Current (@10ms)	15A	150A
	25A	250A
Maximum Off-State Leakage Current@Rated Load Voltage	5mA	
Maximum On-State Voltage Drop@Rated Current	1.7Vrms	
Minimum Off-State dv/dt@Maximum Rated Voltage	200V/μs	

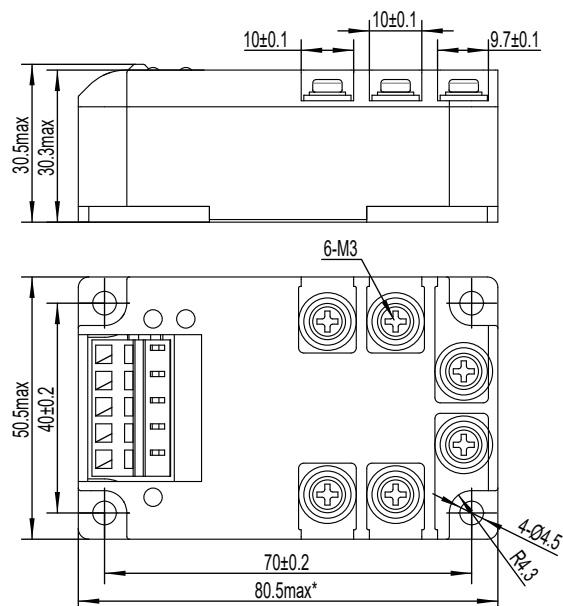
General Specifications (Ta=25°C)		
Dielectric Strength (50/60Hz)	Input/Output	4000Vrms
	Input, output/Base	2500Vrms
Minimum Insulation Resistance (@500VDC)	1000MΩ	
Ambient Temperature Range	-30°C ~ +80°C	
Storage Temperature Range	-30°C ~ +100°C	
Pulse Immunity Level	IEC61000-4-4	4kV/100kHz
Surge Immunity Level	IEC61000-4-5	2kV/common mould, 1kV/different mould
Electrostatic Discharge Immunity Level	IEC61000-4-2	4kV/contact discharge, 8kV/air discharge

General Specifications (Ta=25°C)		
Weight (Typical)	180g	
Working Status Indication	LED1	Forward Indication
	LED2	Reverse Indication
	LED3	Three-phase Power Status Indication

Applications

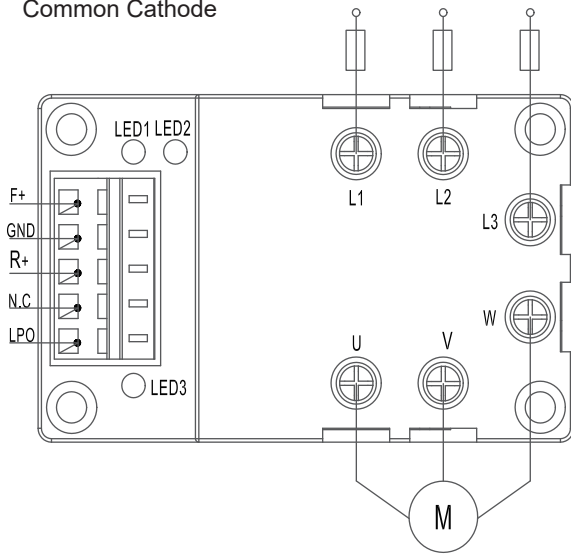
Three phase motor reversing control, such as the valve controls, and etc.

Outline Dimensions



Wiring Diagram

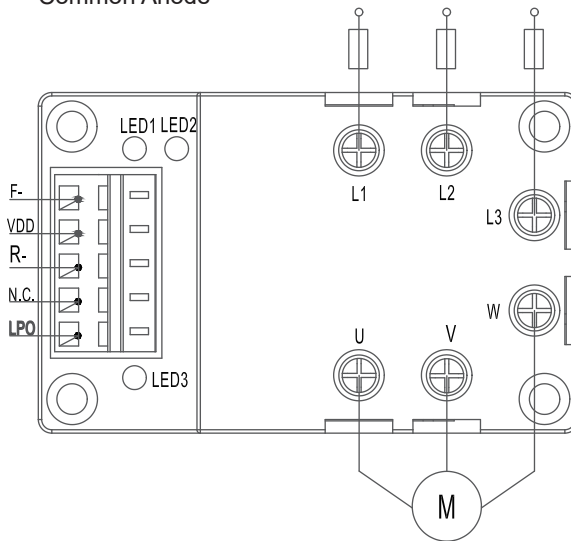
Common Cathode



Wiring Instructions:

- F+: Forwarding control should input anode;
- GND: Control power supply should connect with cathode;
- R+: Reversing control should input anode;
- N.C.: No Connection
- LPO: Phase loss output, high impedance status when there is phase loss in three-phase electricity.
- Max. output current is 50mA;
- Note: there is no connection wire in LPO terminal when the product does not have phase loss protection or automatic phase correction function.

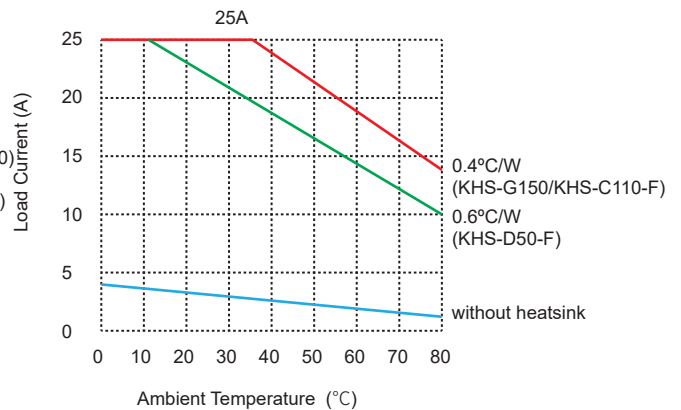
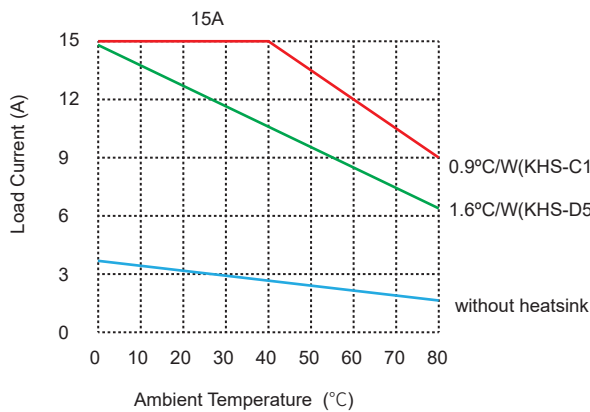
Common Anode



Wiring Instructions:

- F-: Forwarding control should input cathode;
- VDD: Control power supply should connect with anode, 10-32VDC;
- R-: Reversing control should input cathode;
- N.C.: No Connection
- LPO: Phase loss output, high impedance status when there is phase loss in three-phase electricity.
- Max. output current is 50mA;
- Note: there is no connection wire in LPO terminal when the product does not have phase loss protection or automatic phase correction function.

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 .
2. When connecting wiring to SSR please ensure screws are torqued down properly output (0.58-0.98)N·m,5.13-8.67(lb-in)
3. When the operation temperature is high, please consider the derating as per the thermal curve.
4. Ensure the electrical grounding reliably during the use of the SSR.