

Product Description

- ◆ 10-32VDC Input Control
- ◆ Internal RC/MOV Protection Circuit
- ◆ Dielectric Strength: 4000Vrms
- ◆ Built-in Phase Correction & Phase Loss Protection Functions
- ◆ RoHS Compliant



Ordering Information

KMTY	480	D	25	R	P	-24	F	-N
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KMTY Series	Load Voltage 480: 480VAC 600: 600VAC	DC Control	Load Current 25: 25Amp 40: 40Amp 60: 60Amp 80: 80Amp	Switching Mode: Blank: Zero Crossing R: Random-on	Blank: Common Cathod P: Common Anode	Control Voltage 24: 10~32VDC	Blank: Two Phase Switch F: Three Phase Switch	Blank: with automatic phase correction function N: without automatic phase correction function
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		25A	40A	60A	80A		
Common Cathod	Two Phase Switch	KMTY480D25-24	KMTY480D40-24	KMTY480D60-24	KMTY480D80-24		
		KMTY600D25-24	KMTY600D40-24	KMTY600D60-24	KMTY600D80-24		
		KMTY480D25R-24	KMTY480D40R-24	KMTY480D60R-24	KMTY480D80R-24		
		KMTY600D25R-24	KMTY600D40R-24	KMTY600D60R-24	KMTY600D80R-24		
		KMTY480D25-24-N	KMTY480D40-24-N	KMTY480D60-24-N	KMTY480D80-24-N		
		KMTY600D25-24-N	KMTY600D40-24-N	KMTY600D60-24-N	KMTY600D80-24-N		
	Three Phase Switch	KMTY480D25R-24-N	KMTY480D40R-24-N	KMTY480D60R-24-N	KMTY480D80R-24-N		
		KMTY600D25R-24-N	KMTY600D40R-24-N	KMTY600D60R-24-N	KMTY600D80R-24-N		
		KMTY480D25-24F	KMTY480D40-24F	KMTY480D60-24F	KMTY480D80-24F		
		KMTY600D25-24F	KMTY600D40-24F	KMTY600D60-24F	KMTY600D80-24F		
		KMTY480D25R-24F	KMTY480D40R-24F	KMTY480D60R-24F	KMTY480D80R-24F		
		KMTY600D25R-24F	KMTY600D40R-24F	KMTY600D60R-24F	KMTY600D80R-24F		
		Common Anode	Two Phase Switch	KMTY480D25P-24	KMTY480D40P-24	KMTY480D60P-24	KMTY480D80P-24
				KMTY600D25P-24	KMTY600D40P-24	KMTY600D60P-24	KMTY600D80P-24
KMTY480D25RP-24	KMTY480D40RP-24			KMTY480D60RP-24	KMTY480D80RP-24		
KMTY600D25RP-24	KMTY600D40RP-24			KMTY600D60RP-24	KMTY600D80RP-24		
KMTY480D25P-24-N	KMTY480D40P-24-N			KMTY480D60P-24-N	KMTY480D80P-24-N		
KMTY600D25P-24-N	KMTY600D40P-24-N			KMTY600D60P-24-N	KMTY600D80P-24-N		
Three Phase Switch	KMTY480D25RP-24-N		KMTY480D40RP-24-N	KMTY480D60RP-24-N	KMTY480D80RP-24-N		
	KMTY600D25RP-24-N		KMTY600D40RP-24-N	KMTY600D60RP-24-N	KMTY600D80RP-24-N		
	KMTY480D25P-24F		KMTY480D40P-24F	KMTY480D60P-24F	KMTY480D80P-24F		
	KMTY600D25P-24F		KMTY600D40P-24F	KMTY600D60P-24F	KMTY600D80P-24F		
	KMTY480D25RP-24F		KMTY480D40RP-24F	KMTY480D60RP-24F	KMTY480D80RP-24F		
	KMTY600D25RP-24F		KMTY600D40RP-24F	KMTY600D60RP-24F	KMTY600D80RP-24F		
	KMTY480D25P-24F-N		KMTY480D40P-24F-N	KMTY480D60P-24F-N	KMTY480D80P-24F-N		
	KMTY600D25P-24F-N		KMTY600D40P-24F-N	KMTY600D60P-24F-N	KMTY600D80P-24F-N		
KMTY480D25RP-24F-N	KMTY480D40RP-24F-N	KMTY480D60RP-24F-N	KMTY480D80RP-24F-N				
KMTY600D25RP-24F-N	KMTY600D40RP-24F-N	KMTY600D60RP-24F-N	KMTY600D80RP-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	35 mA@32VDC	
Minimum Reversible Switching Time	80±10ms	

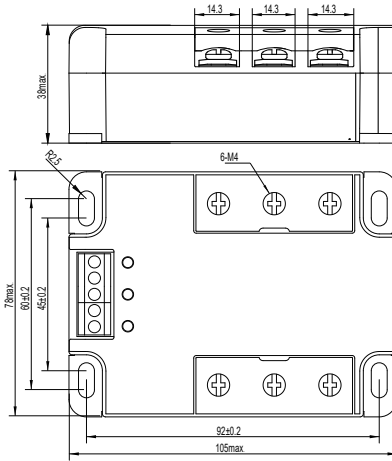
Output Specifications (Ta=25°C)		
Load Voltage Range	480VAC	24-530VAC
	600VAC	24-660VAC
Maximum Transient Overvoltage	480VAC	1200Vpk
	600VAC	1600Vpk
Minimum Load Current	100mA	
Maximum Turn-off Time	20ms	
Maximum Surge Current (@10ms)	25A	250A
	40A	400A
	60A	600A
	80A	800A
Maximum Off-State Leakage Current@Rated Load Voltage	5mA	
Maximum On-State Voltage Drop@Rated Current	1.7Vrms	
Maximum I <sup>2</sup> t for Fusing (@10ms)	25A	312A <sup>2</sup> s
	40A	800A <sup>2</sup> s
	60A	1800A <sup>2</sup> s
	80A	3200A <sup>2</sup> s
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
Weight (Typical)	400g	
Working Status Indication	LED1	Forward Indication
	LED2	Reverse Indication
	LED3	Fault Indication

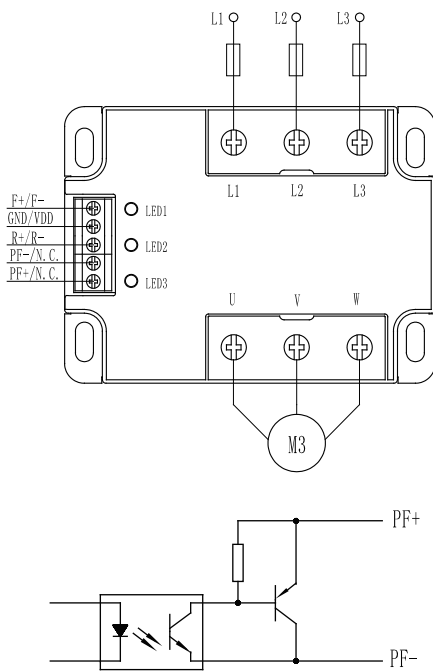
**Applications**

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

Outline Dimensions



Wiring Diagram



Wiring Diagram

Input control on Common Cathode:  
 F+: Forward control please input Anode+,  
 GND: Common Port please input Cathode;  
 R+: Reversing control please input Anode+,

Input control on Common Anode:  
 F-: Forward control please input Cathode-;  
 VDD: Control power please input Anode+;  
 R-: Reversing control please input Cathode-;

PF-: Lack of phase fault please connect Cathode in output (N.C.:No Connection)

PF+: Lack of phase Fault please connect Anode in output (N.C.:No Connection)

LED1: Forward Indication

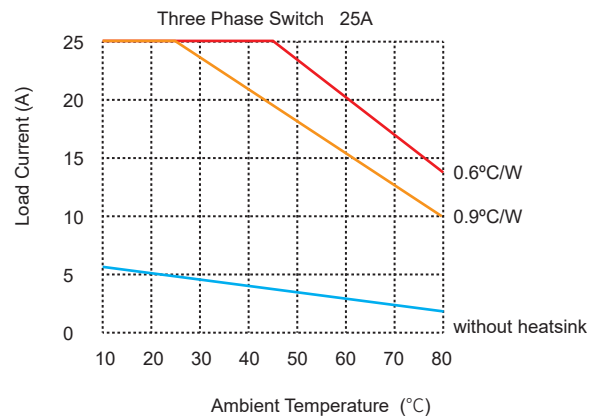
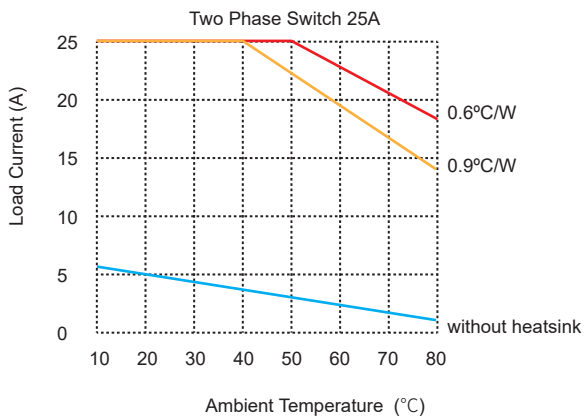
LED2: Reversing Indication

LED3: Fault Indication: When there is lack of phase, LED is bright; When Three-phase are normal LED is off (Without automatic phase correction function LED3 is always OFF)

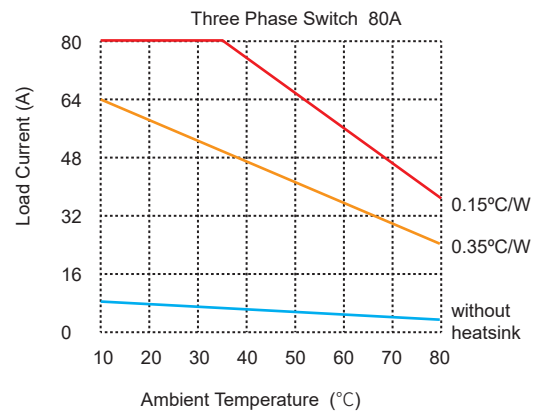
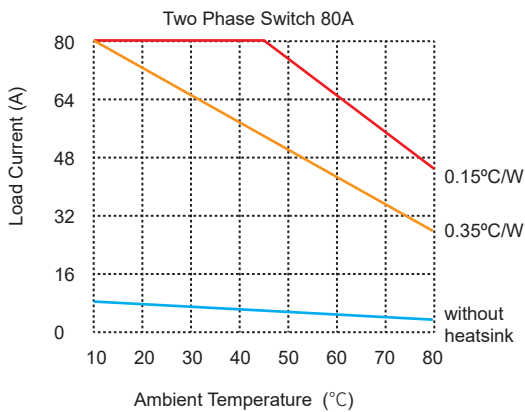
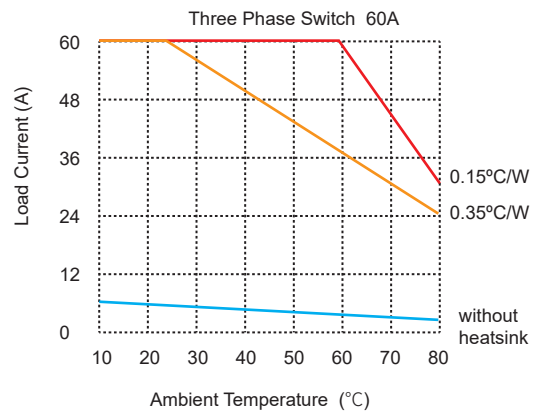
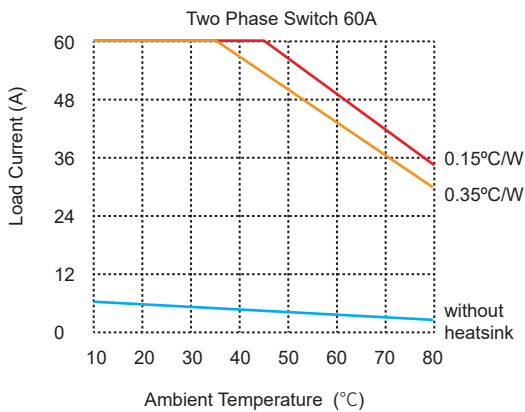
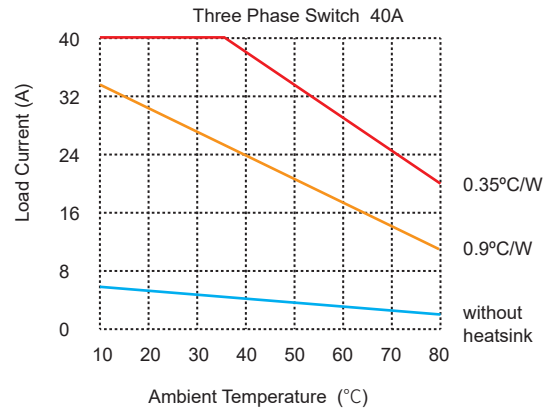
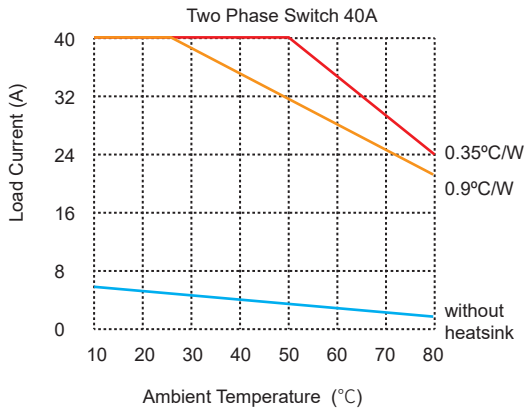
L1/L2/L3: three-phase power supply input

U/V/W: three-phase load output

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 therma pad must be used between relay .
2. When connecting wiring to SSR please ensure screws are torqued down properly: input 4.43/0.5 in-lb/N·m, output(0.98-1.37)N·m,8.67-12.12(lb-in)
3. When the operation temperature is high, please consider the derating as per the thermal curve.