

## DESCRIPTION

KM41 is a set of 8-channel AC output DIN-rail mount type SSR with LED status indicator, and its input adopts the 4~32VDC constant current source circuit. The output is integrated with the quick-fuse protector having the isolation voltage 2500VACrms, which improves the surge current resistance. KM41 can be used in testing equipment, industrial control systems, automated machines, fireproofing facility, etc.

## FEATURES

- ◆ Load current 0.1~5A
- ◆ Quick-fuse protection integrated
- ◆ DIN-rail mount
- ◆ LED status indicator
- ◆ Control voltage 4~32VDC
- ◆ High surge current resistance

## PRECAUTIONS

1. The SSR is a kind of power device, and the heat dissipation should be taken into full consideration. If poor ventilation is unavoidable, the load current must be derated.
2. Please do not use the SSR exceeding the limitation which is specified on this datasheet.

## SELECTION GUIDE

KM41/	D-	38	Z	5-	Y	L	3F	8	(XXX)
Type	Control voltage	Load voltage	Switching mode	Load current	Overvoltage protection	LED indicator	Quick-fuse current	Output channel number	Customer special code
	D: 4~32VDC	24: 240VAC 38: 380VAC	Z: Zero cross P: Random	3: 3A 4: 4A 5: 5A	Y: Included Nil: Not included	L: Included	1F: 1A 2F: 2A 3F: 3.15A 4F: 4A 5F: 5A	Eight	

**INPUT SPECIFICATIONS (Ta = 25°C)**

Control voltage range		4 ~ 32VDC
Must turn-on voltage		4VDC
Must turn-off voltage		1VDC
Max. input current		20mA
Max. reverse protection voltage		-32VDC

**OUTPUT SPECIFICATIONS (Ta = 25°C)**

Load voltage range	D-28 Type	48~280VAC
	D-38 Type	48~440VAC
Max. transient voltage	D-28 Type	600Vpk
	D-38 Type	800Vpk
Load current range		0.1~5A
Max. turn-on time	Zero-cross	1/2 Cycle + 1ms
	Random	1ms
Max. turn-off time		1/2 Cycle + 1ms
Max. surge current@10ms		120A
Max. off-state leakage current		1.5mA
Max. on-state voltage drop		1.5Vr.m.s
Min. off-state dv/dt		200V/μs

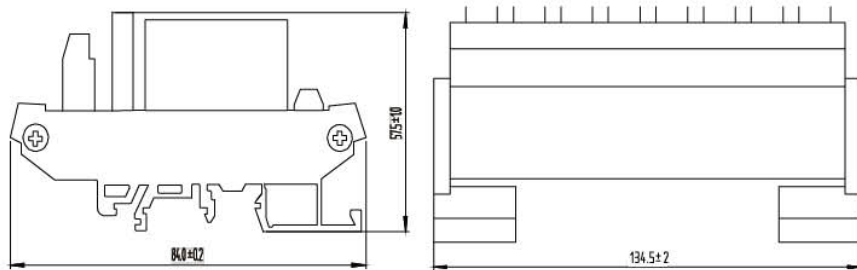
**GENERAL SPECIFICATIONS (Ta = 25°C)**

Quick-fuse parameter	Rated current	1A, 2A, 3.15A, 4A, 5A
	Operating time	20ms (@1000%) Rated current
SSR integrated number		8
Dielectric strength		Min. 2500Vr.m.s
Operating temperature		-30 ~ 80°C
Storage temperature		-30 ~ 100°C

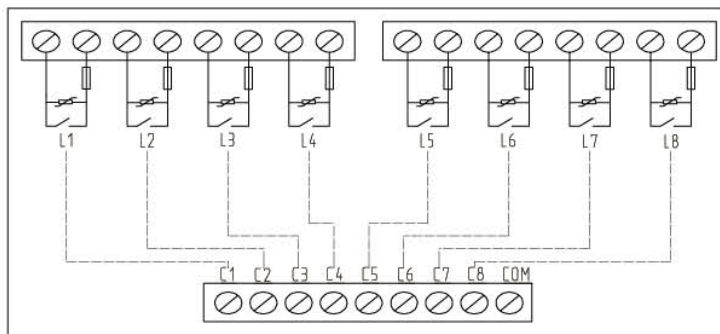
## OUTLINE DIMENSIONS & WIRING DIAGRAM

Unit: mm

Outline Dimensions



Wiring Diagram



## PERFORMANCE CURVES

