

Slim Strong Relay

SY Type



Solid State Relay

1 Φ 50V~480V 25A、40A

■ Features

- * 2 Thyristor design, high pressure and high current resistant.
- * Super slim figure, compact space
- * Photo couple insulation --IN/OUT isolation voltage up to 4000VAC.
- * dv/dt protection built-in
- * 2-level of signal inputs, low input current
- * heat Sink built-in

■ Application

- * Suitable for the applications on injection molding machines, baking & drying ovens, laboratory furnaces

3
years
warranty

CE EN60947-1



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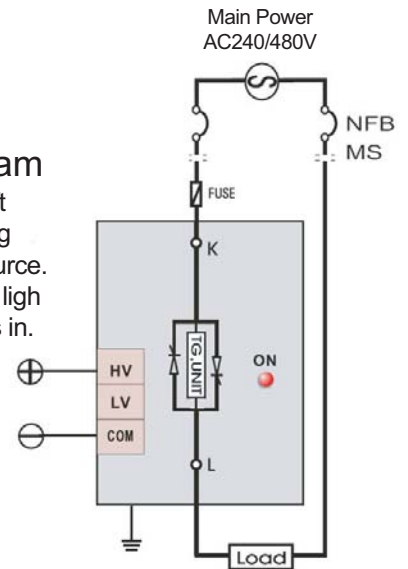
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■ Wiring Diagram

Choose a suitable shift (HV or LV) in according to voltage in signal source. ON LED continues to light on when signal comes in.



■ Model Identification

SY	SLIM TYPE SY TYPE Solid State Relay ZERO CROSS TURN-ON					
Rated Voltage	2	AC 50V-280V				
	4	AC 100V-500V				
Rated Current (N1)	025	MAX.25A	Continued 16A	$I_{TSM}=300A$	$I^2t=450A^2S$	Options FUSE(N2) FWC-25A10F (25A)Less FWC-32A10F (25A)Less
	040	MAX.40A	Continued 25A	$I_{TSM}=500A$	$I^2t=1250A^2S$	
Input Code	D	4-30VDC INPUT				
	A	70-280VAC INPUT				

*(N2) Fuse are Bussmann/USA products, alternative fuse workable too, but subject to the same as I^2t value

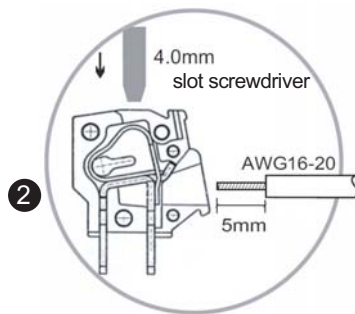
■ Signal Input Norms

Model	Level	Voltage Range	Must Release Voltage	Input Current
D	LV	DC4~8V		4.5~35mA
	HV	DC8~30V	< 2V	4.5~28mA
A	LV	AC70~140V	< 20V	4.8~12mA
	HV	AC140~280V	< 40V	4.8~12mA

*2-level signal inputs design can reduce current of input signal.

■ Common Norms

- Installing in direction of 'UP', otherwise, the continuous current will be reduced 20%.



- Wiring in control terminal (AWG16-20 Wire Strip 5mm), pushing down by a slot screwdriver to insert the wire. (ref. fig. 2)

■ Dimensions & Install Ways

Current	Length/mm	Width/mm	Height/mm	Weight/kg	Wire dia. & Locking Torque in power terminal	
25A	136	25	120	0.27	2.0~3.5mm ²	26~32kgfcm
40A	136	25	140	0.33	5.5~8.0mm ²	38~45kgfcm (With Fuse screw)

** Install options can be of double screws or by rail style.

■ Environment

- *Ambient Temperature & humidity: -10/+50deg.C; below 90% RH (no dew allowed)
- *Insulation-resistance: >20 Mohm (500VDC) control terminal & power terminal & case
- *Electronic Strength: 1000VAC/1 minute (control terminal & power terminal)
2000VAC/ 1 minute (power terminal & case)

- (N1) Above values available when the cooling fin is free from erosion, oil smudge and clad and has been installed in the direction of heat convection.

