Solid State Relays Industrial, 3-Phase SS Models: 3PSS60.75 \$ (Standard Din-rail) **3PSS60.75** R (Retro Fit)





Product Description

A Solid State Relay family designed to switch various loads such as heating elements, motors and transformers. The relay is capable of switching high voltages up to 600 VAC rms. The built-in varistor for heavy industrial applications. For higher reliability and load cycle capability three semiconductor power units are bonded directly to the substrate.

General Specifications

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1.4 WATTS & 58 mA 3.6 WATTS & 55 mA
3
III
45 to 65 Hz
1600 V _p
42-660 VAC

Output Specifications

Rated operational current AC51 @ Ta=25°C AC53a @ Ta=25°C	75 AMPS rms 20 AMPS rms
Minimum operational current	400 mA rms
Rep. overload current t=1 s	< 150 A rms
Non-rep. surge current t = 10 ms	1150 A _p
Off-state leakage current	< 3 mA rms
I^2t for fusing t = 10 ms	6600 A2s
On-state voltage drop	≤ 1.6 V rms
Critical dV/dt off-state	≥ 500 V/µs

Input Specifications

	3PSS60A75	3PSS60D75
Control voltage range	24-275 VAC 24-50 VDC	4-32 VDC
Pick-up voltage	18 VAC 20 VDC	3.8 VDC
Drop-out voltage	9 VAC/DC	1.2 VDC
Input current	≤ 15 mA	≤ 23 mA
Response time pick-up		
Power output = 50 Hz	20 ms	10 ms
Response time drop-out Power output = 50 Hz All data specified at Ta=25°C	30 ms	10 ms

- 3-phase Solid State Relay
- Zero switching
- Control voltage (A75) 24-50 VDC/24-275 VAC
- Control voltage (D75) 4-32 VDC
- Line & Load accepts: 8-18 AWG
- Integral snubber network
- Built-in varistor
- IP 10 back-of-hand protection
- LED indication of control input

• Heat Sink and 24 VDC Fan Included Optional: 120 VAC Fan (Add -120 to P/N) Example: (3PSS60A75 S-120)



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Thermal Specifications

Operating temperature	-30° to 80°C (-22° to 158°F)
Storage temperature	-40° to 100°C (-40° to 212°F)

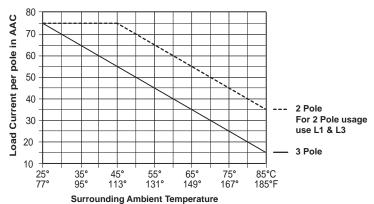
Isolation

Rated isolation voltage	
Input to output	≥ 4000 VAC rms
Output to case	> 4000 VAC rms

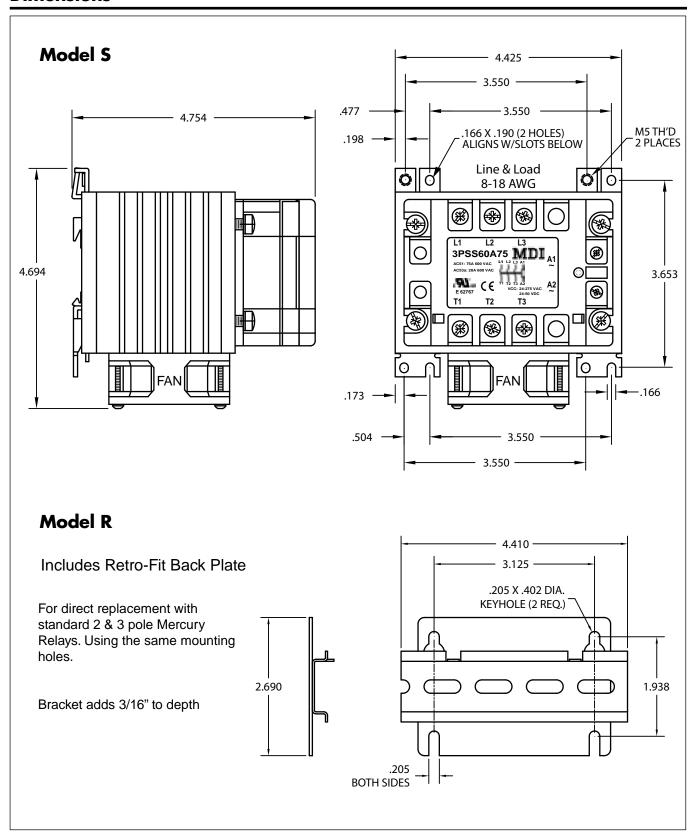
Total Weight	S	R
Grams	1,370	1,473
Ounces	48.3	52

Housing Specifications

Material		Noryl
Base plate		Copper, nickel-plated
Potting compound		Polyurethane
Power terminal Mounting screws		M5
Mounting torque		≤ 2.5 Nm (22 in lbs)
Wire size	Max.	2 x 6 mm ² (AWG 8)
	Min.	2 x 1 mm ²
Relay		
Mounting screws		M5
Mounting torque		≤ 1.5 Nm (13 in lbs)
Control terminal		
Mounting screws		M4
Mounting torque		≤ 0.5 Nm (5 in lbs)
Wire size	Max.	2 x 2.5 mm ² (AWG 14)
	Min.	2 x 1 mm ²



Dimensions



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