Solid State Relays Industrial, 3-Phase SS Models: 3PSS60A75 S (Standard Din-rail) 3PSS60A75 R (Retro Fit)





- 3-phase Solid State Relay Zero switching
- Rated operational current: 3 x 75 AMPS
- Rated operational voltage: 600 VAC
- Control voltage 24-50 VDC/24-275 VAC
- Integral snubber network
- Built-in varistor
- IP 10 back-of-hand protection
- LED indication of control input
- Heat Sink and 24 VDC Fan Included





Product Description

A Solid State Relay family The built-in varistor for heavy designed to switch various loads such as heating ele- higher reliability and load ments, motors and transform- cycle capability three semiers. The relay is capable of conductor power units are switching high voltages up to bonded directly to the sub-600 VAC rms.

industrial applications. For strate

Tested and Approved

3 Pole 50 AMP @ 480 VAC @ -30°C to 50°C 3-Phase 2 Pole 75 AMP @ 480 VAC @ -30°C to 50°C 3-Phase * 51°C to 80°C derates @ 10 AMPS per decade *For 2 Pole usage, use L1 & L3

General Specifications

Operational voltage range	42-660 VAC
Blocking voltage	1600 V _p
Operational frequency range	45 to 65 Hz
Overvoltage category	III
Pollution degree	3
Heat Sink Fan requires	70 mA @ 24 VDC
Markings	c Salus (F

Output Specifications

Rated operational current AC51 @ Ta=25°C	75 AMPS rms
AC53a @ Ta=25°C	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 ² t for fusing t = 10 ms	6600 A2s
On-state voltage drop	≤ 1.6 V rms
Critical dV/dt off-state	≥ 500 V/µs

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

Input Specifications

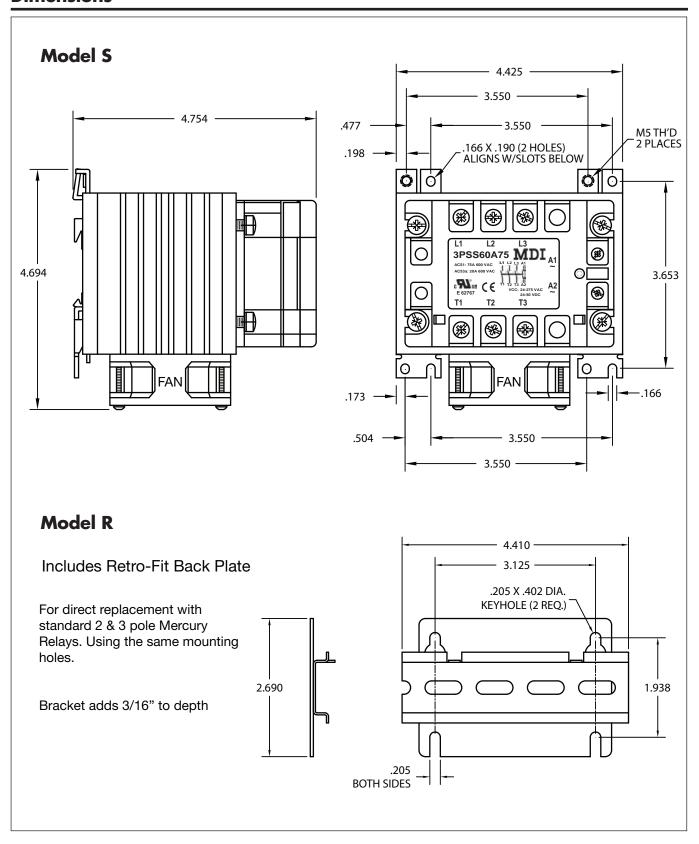
Control voltage range	24-275 VAC/24-50 VDC
Pick-up voltage	18 VAC/20 VDC
Drop-out voltage	9 VAC/DC
Input current	≤ 15 mA
Response time pick-up	
Power output = 50 Hz	20 ms
Response time drop-out	
Power output = 50 Hz	30 ms
All data specified at Ta=25°C	

Total Weight R 1.473 Grams 1.370 Ounces 48.3 52

Housing Specifications

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

Dimensions



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