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

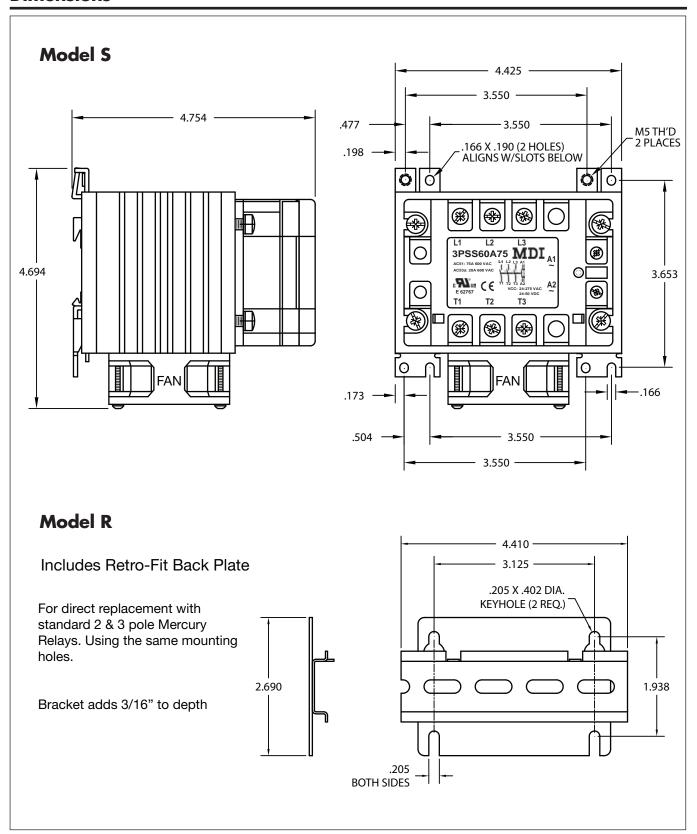
| Control voltage range | 24-275 VAC/24-50 VDC |
|-------------------------------|----------------------|
| Pick-up voltage | 18 VAC/20 VDC |
| Drop-out voltage | 9 VAC/DC |
| Input current | ≤ 15 mA |
| Response time pick-up | |
| Power output = 50 Hz | 20 ms |
| Response time drop-out | |
| Power output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

Total Weight S R 1.473 Grams 1.370 Ounces 48.3 52

Housing Specifications

| Material | | Noryl |
|---|--------------|--|
| Base plate | | Copper, nickel-plated |
| Potting compound | | Polyurethane |
| 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 | | M5 |
| Mounting torque | | ≤ 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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