M-RS45 / 225PC SINGLE PHASE 240-440V ac 50-60Hz. Static relay with double SCR antiparallel with speed fuse. Zero-Crossing, Phase angle and mixed functions. Control signals: SSR (12-24V), 0-10V and 4-20mA.

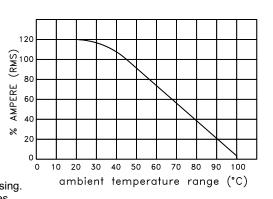




MOD.	45A	65A	85A	125A	150A	180A	225A	Phase angle
Voltage supply	240-440V AC							
Electrical isolation	3500V							Zero-crossing
12t max. (t=10mS)	0,75KA	1,5KA	2,8KA	5,7KA	11,4KA	37,5KA	55KA	times variables
Speed Fuse	63A	80A	100A	160A	200A	250A	280A	
Voltage SCR	1200V pk							Preheat to Phase Angle and Zero-crossing
Fan	NO	SI	SI	SI	SI	SI	SI	▏▏⁴ᢏᡗᢏ┻ᢦ╲ᡔ

MAIN FEATURES :

The State Relays Series M-RS PCs are built to operate within a electrical panel to 100% of the rated current at ambient temperature of 45 ° C. Have within them Extra fast fuses for protection Short Circuit and varistors and RC for overvoltage protection. Using two SCR power in antiparallel for switching the current loads. They can be programmed via DIP-SWITCH operate in Zerocrossing or Phase Angle for the control of loads resistive or inductive. They are equipped with power terminals and assembled in a total structure of Aluminum. They are able to make starts preheating Phase Angle and then automatically switch to zero-crossing. All versions have an Alarm with logic output that includes



any abnormality comprised the Heatsink Overtemperature. Where provided, the fan is activated by the integrated probe at 42°Cheatsink, thereby limiting improper use causing the accumulation of impurities in the heat exchange surfaces.

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Programming DIP-SWITCH

Control Signal and line frequency: Control 0-10V DC, 4-20mA - 📖 | on on FUNCTION 1A $\sim m$ Actuation to Zero-Crossing. N DIP3 = (OFF) 0-10Vdc (ON) 4-20mA 0-10V / 4-20mA ωI - Conversion Cycle Time (SSR) 500mS ω 📖 50 / 60Hz. -4 DIP4 = (OFF) 50Hz. (ON) 60Hz. Suitable for resistive loads steady. 4 Functions with control SSR ranging from 11 to 24Vdc on FUNCTION 2A -**FUNCTION 1** - Actuation to Phase Angle. – una ∣on - Actuation to ZERO CROSSING. - Soft-Start from 0 a 100% 1 Sec. ωm \sim \square - Minimum cycle time (SSR) 0.2 Sec. 4 Suitable for resistive and inductive loads. ωIII Suitable for resistive loads steady. **FUNCTION 3A** - Preriscaldo ad ANGOLO DI FASE . ∸⊡∎lon **FUNCTION 2** - Duration preheating phase angle 5 Sec. - Actuation to Phase Angle + Zero-Crossing. on - Soft-Start from 0 a 100% 1 Sec. - Cycle time (SSR) recommended minimum 1 Sec. ωm N - Later preheating conversion to Zero Crossing - Time Soft-start Phase Angle from 0 to 100% 400mS. ω 📖 cycle SSR 500mS. - Soft-start time duration 5 Sec active time for SSR 4 Suitable for resistive loads with high initial after the time of Soft actuation to Zero-Crossing. absorption. Restore time for Soft absence control SSR 2 Sec. Suitable for resistive loads with high initial absorption. **FUNCTION 3 TECHNICAL DATA:** - Actuation to Phase Angle. on - POWER SUPPLY 24VDC 200mA Internal conversion signal SSR to signal 0-10V. (50mA for 45A versions) - Cycle time (SSR) for conversion 1 Sec. +/- 2% - SIGNAL logic control SSR ωIIII - Update Time% actuation 1 Sec. Between 11 and 24V DC 2 mA. 4 - Soft-Start from 0 to 100% 1 Sec - SIGNAL control analog 0-10 Vdc and 4-20mA. Suitable for resistive and inductive loads. - ALARM OUT 22V DC MAX. 20 mA Tripping time 1.5 seconds. **FUNCTION 4** Internal diode for parallel connection. - Actuation to Phase Angle + Zero-Crossing FAST. Alarms include: Internal conversion signal SSR to signal 0-10V. 1) Rupture of the fuse. on Cycle time (SSR) for conversion 1 Sec. +/- 2% 2) Break the total load. 3) Breaking SCR. 4) Heat sink temperature over 85 ° C. - Update Time% actuation 1 Sec. ω 📖 - Soft-Start from 0 to 100% 1 Sec. 4 - DIP-SWITCH 4 positions include: - Duration preheating phase angle 5 Sec. Later preheating conversion to Zero Crossing cycle Dip 1 and 2 choice of the mode of operation of the load. SSR 500mS. Dip 3 choice of sgnale control of 0-10V and 4-20mA. Suitable for resistive loads with high initial absorption. (The control logic automatically excludes SSR analog controls) Dip 4 choice of the line frequency between 50 and 60Hz.