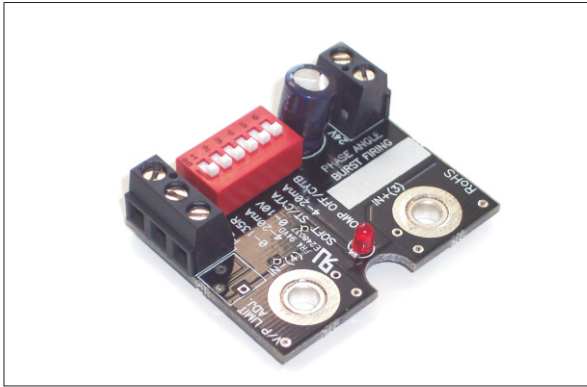


Phase Angle Control Module for SSRs SSRMAN-1P



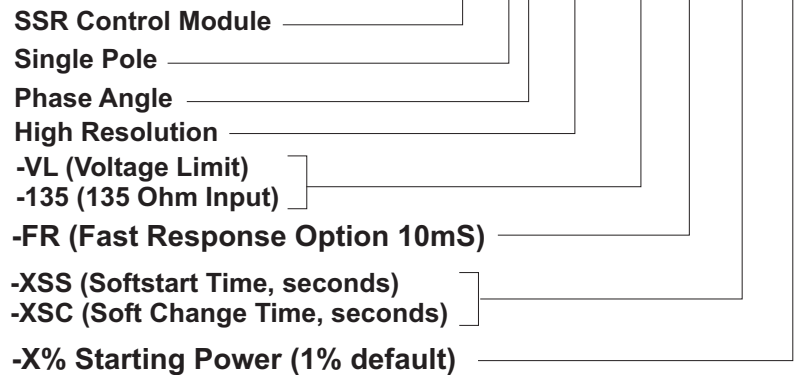
- **True linear output phase angle control**
- **Suitable for inductive loads**
- **Small module mounts on the input terminals of an SSR**
- **Inputs of 4-20mA, 0-10V, 0-5V, 0-135 Ohm, Pot, PWM**
- **Line voltage compensation increases process stability**
- **Configurable soft start for sensitive loads**
- **Automatic 50/60Hz operation**
- **Adjustable voltage limit (-VL) option**
- **Single phase and three phase control**
- **LED output indicator**

Product Description

The microprocessor based SSRMAN-1P mounts directly on the input terminals of an SSR and provides true linear phase angle control of the load. The output power is proportional to the command input which can be dip switch selected from seven different industry standard inputs.

Ordering Codes

SSRMAN-1P-HR- - - -



Standard SSRMAN-1P is SSRMAN-1P-HR-20SS-1%

Input Specifications

Power Supply	24VAC +/-15%
Frequency Range	47-63Hz
Command Inputs	4-20mA, 0-20mA, 0-5V, 1-5V, 0-10V, 2-10V, 0-135Ohm, Pot, PWM
Command Input Impedance	10K (0-10V), 250 Ohms (4-20mA), 100K (0-5V)
0-135Ohm External Resistor	402 Ohms (13mA excitation)
PWM Input Freq Range	10Hz - 100Khz
External Potentiometer Resistance	1-25KOhm

Output Specifications

Control Output	SSR Drive, DC Pulse, nominally 10V @ 15mA
Response Time	100mS or 10mS (for FR)
Linearity	+/-3%
0-135 Ohm Excitation Current	13mA

Output Specifications(cont.)

Default Softstart Period	20 seconds to reach 100% (other Soft Start Times available)
Voltage Limit Adjustment Range	25-100% of max. Output voltage
Line Voltage Compensation Range	+/-15% up to 100% output power
Regulation	+/-3%

Thermal Specifications

Operating Temperature Range	0 to 60 degC
Storage Temperature Range	-40 to 100 degC

Dip Switch Selections

Command Input	1	2	3	5
0-5V (Default)	OFF	OFF	OFF	OFF
Potentiometer	OFF	OFF	OFF	OFF
0-10V	OFF	OFF	ON	OFF
4-20mA	OFF	ON	OFF	ON
1-5V	OFF	OFF	OFF	ON
2-10V	OFF	OFF	ON	ON
0-1350hm*	ON	OFF	OFF	OFF
PWM**	OFF	OFF	OFF	OFF

Feature to Enable	4	6
Line Voltage Comp Enabled (default)	OFF	OFF
None	OFF	ON
Soft Start Only Enabled	ON	ON
Soft Start & Line Voltage Comp Enabled	ON	OFF

Dimensions

