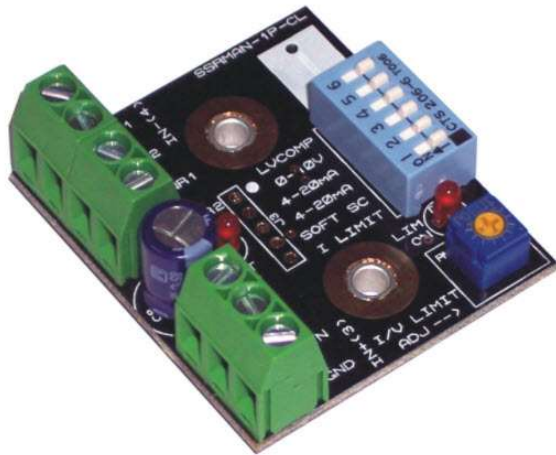


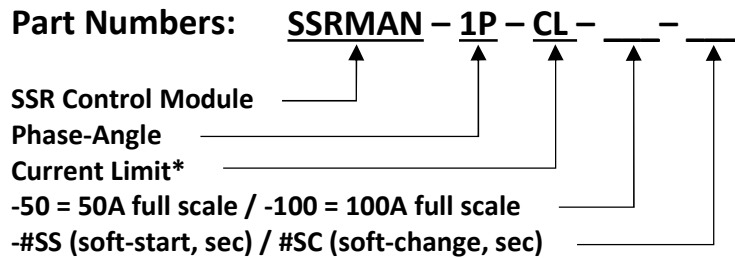
# SSRMAN-1P-CL Phase-Angle Control Board with Current Limit



- True linear power output phase angle control
- Suitable for inductive loads
- Small module mounts on the input terminals of an SSR
- Selectable analog input: 4-20mA, 0-20mA, 0-10V, 2-10V, 0-5V, 1-5V, Pot, and PWM
- Adjustable Current or Voltage limit
- Line voltage compensation increases process stability
- Configurable Soft Change for sensitive loads
- Automatic 50/60Hz operation
- Single phase and three-phase control
- LED output and current limit indicators

## Product Description:

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



## Standard Soft Start / Soft Change Time Options:

Blank = no soft start / soft change\*

2SS = 2 second soft start

5SS = 5 second soft start

2SC = 2 second soft change

5SC = 5 second soft change

\*If blank: a 2 second soft change function is default and can be dipswitch enabled/disabled

\*Optional [CR8450-1000](#) current transducer required for current limit feedback.

## Input Specifications

Specification	Rating
Power Supply	24Vac +/-15%, 65mA max
Operating Frequency Range	47Hz – 63Hz
Command Inputs	4-20mA, 0-20mA, 0-5V, 1-5V, 0-10V, 2-10V, Pot, PWM
Command Input Impedance	10KΩ (0-10V), 250Ω (4-20mA), 100KΩ (0-5V)
PWM Input Frequency Range	10Hz – 100kHz (below 5kHz requires Soft Change enabled)
External Potentiometer Resistance	1-25KΩ
Current Transformer Input (CT1 / CT2)	100mA AC = 100A (For use with 1000 Turn CT) 100mA AC max.

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## Output Specifications

Specification	Rating
Control Output	SSR Drive, DC Pulse, 10Vdc nominal @ 15mA
Response Time	20msec (with Soft Change disabled)
Linearity	+/-3%
Default Soft Change Period	2 seconds to reach 100% (if enabled)
Current Limit Adjustment Range	10-100% of max. output current
Line Voltage Compensation Range	+/-15% up-to 100% output power
Line Voltage Compensation Regulation	+/-3%
Current Limit Accuracy	+/-5% of full scale (50A or 100A)

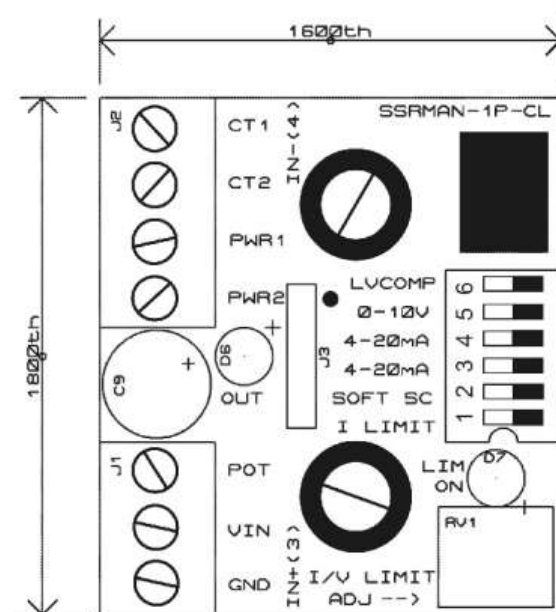
## Thermal Specifications

Specification	Rating
Operating Temperature Range	0-60°C
Storage Temperature Range	-40-100°C

## Dip Switch Settings

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

Feature to Enable	1	2	6
None	OFF	OFF	ON
Line Voltage Comp Enabled (default)			OFF
Soft Change or Soft Start		ON	
Current Limit	ON		
Voltage Limit	OFF		



1.6 x 1.8" Max height is 0.6"