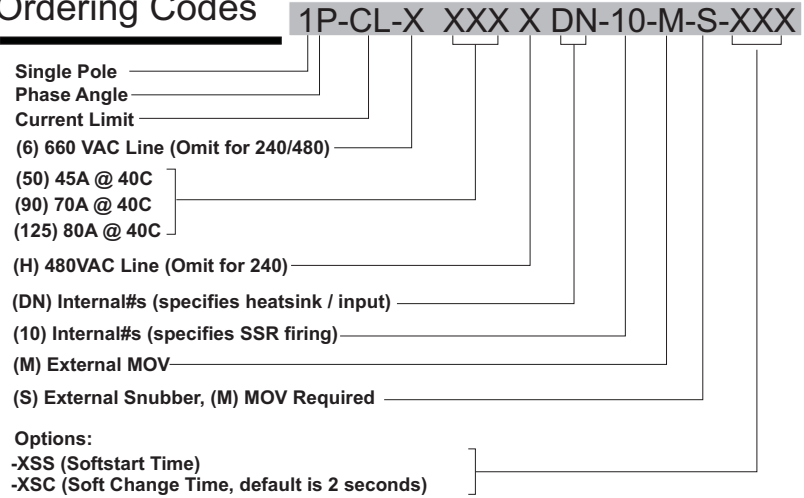


Product Description

The microprocessor based 1P-CL SCR Power Controller is a compact panel mount package that provides linear phase angle control of the load. The output power is based on the command input and the current transformer feedback. The input can be dip switch selected from seven different industry standard inputs. Specially designed external snubber networks allow reliable control of inductive loads.

Ordering Codes



Dip Switch Selections

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
10Hz-20KHz PWM	OFF	OFF	OFF

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

Input Specifications

Control Card Power Supply	24VAC +/-15%, 65mA max
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 Excitation Current	13mA
PWM Input Freq Range	10Hz - 100Khz
External Potentiometer Resistance	1-25KOhm
Current Transformer Input CT1/CT2	100mA AC = 100A (For use with 1000 Turn CT) 100mA AC max.

Thermal Specifications

Operating Temperature Range	0 to 50 degC, all Current Ratings are for 40C
Storage Temperature Range	-40 to 100 degC

Output Specifications

MODEL	1PCL-50DN	1PCL-50HDN	1PCL-90HDN	1PCL125HDN
Operating Voltage (47-63 Hz) [Vrms]	24-280	48-530	48-530	48-530
Load Current Range [Arms]	.04-45	.04-45	.04-70	.04-80
Transient Overvoltage [Vpk]	600	1200	1200	1200
Max. Surge Current, (16.6ms) [Apk]	625	625	1200	1750
Max. On-State Voltage Drop [Vpk]	1.6	1.7	1.7	1.7
Max. I ² t for fusing (8.3mS) [A ² sec]	1620	1620	6000	12,700
Max. Off-State Leakage Current [mArms]	10	10	10	10 (without snubber)
Power Factor (Min.) with Max. Load	0.5	0.5	0.5	0.5
Response Time	100mS or 10mS (for FR)			
Linearity	2%			
Default Softstart Period	20 seconds to reach 100%, Other SS times available			
Voltage Limit Adjustment Range	5-100% of max. Output voltage			
Line Voltage Compensation Range	+/-15% up to 100% output power			
Regulation	+/-3%			



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