DCPF1 SCR SERIES

POWER CONTROLS

The DCPF1 SCR Series are single-phase, phase-fired SCR Power Controls designed to deliver DC Current with all of the features normally found in much larger units. Utilizing HDR field proven circuits, these units are conservatively engineered for years of trouble free service while providing the benefits of precise, reliable control of for your electronic process.

The DCPF1 SCR Series accepts all standard voltage and current command signals or remote potentiometer input. The 4-20 mA command signal is optically isolated. Standard operating voltages are 120, 240, 400, 480 & 575 Vac, 1 Phase, 50/60Hz. The DC output voltage is approximately 90% of the AC input voltage.

Multi-turn Zero and span adjustments are provided for matching the SCR power control to the command signal. Control power, command signal and blown fuse indicators are provided as means for trouble shooting. The control power indicator (red) indicates power has been applied to the unit. The command signal indicators' (green) brilliance is proportional to the output voltage. The blown fuse indicators (3-yellow) light if a fuse is cleared.

Applications:

Primarily used to control saturable core reactors. Other uses include.

- Vibratory feeders
- DC Resistive Loads







15-180 Amperes Single-phase Phase-fired



- 5 year "No Hassle" warranty
- Electrically Isolated Heatsink
- Compact Size
- Conservative Thermal Design
- Voltage Squared Linearity
- Line voltage compensation
- Transient voltage Protection (RC & MOV)
- 1400 PIV SCRs
- Semiconductor (I²T) Fuse
- Diagnostic Indicators
- Optically Isolated input Command Signal (4-20 mA)
- Multi-Turn Zero & Span Adjustments
- UL, cUL Listed, CE Compliant
- Fan Cooled (70 A and higher)



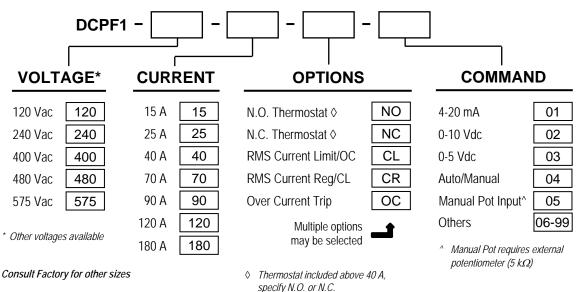
SPECIFICATIONS:

Control Method: Phase-firing of back-to-back SCRsLinearity: Output is linear within 2% of span over entire
range of controlVoltage Rating: 120, 240, 400, 480, 575 VacIsolation: 2500 volts rms from power circuit to command
signal and to groundLine Frequency: 50 / 60 HzIsolation: 2500 volts rms from power circuit to command
signal and to groundCurrent Ratings: 15, 25, 40, 70, 90, 120, 180 AmperesOvertemp Protection: Heatsink thermostat provided on 90
A and higher modelsAdjustments: Zero and Span, multi-turnAmbient Temperature: Operating: 0 °C to 50 °C

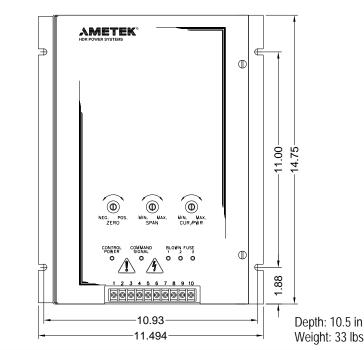
Relative humidity: 0 to 95% (non-condensing)

HOW TO ORDER:

Make a selection from each of the tables below. Place the selection in the corresponding boxes to build your model.

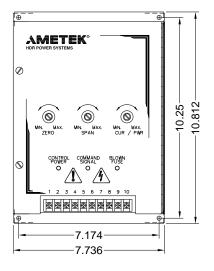


70 thru 180 A



OUTLINES:

15 thru 50 A



Depth: 6.28 in Weight: 6 lbs