

MODEL DCPF1 SERIES

Power Controls

Single-Phase Phase-Fired Models
Rated 15, 25 Amperes with DC Output

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

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

Multi-turn zero and span adjustments are provided for matching the SCR power control to the command signal. Control power and command signal indicators are provided as a means for troubleshooting. The control power indicator (red) indicates power has been applied to the unit. The command signal indicator's (green) brilliance is proportional to the output voltage.



MODEL DCPF1

- Electrically Isolated Heat Sinks
- Conservative Thermal Design
- Compact Size
- Voltage Squared Linearity
- Line Voltage Compensation
- Transient Voltage Protection (RC & MOV)
- 1400 PIV SCRs
- Semiconductor (I^2t) Fuse
- Diagnostic Indicators
- Optically Isolated Input Command Signal (4-20 mA)
- Multi-Turn Zero & Span Adjustments
- Silkscreen Printed Circuit Boards
- UL,cUL Listed, CE Compliant
- 5 year "No Hassle" warranty

Applications:

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

- Vibratory Feeders
- DC Resistive Loads

AMETEK[®]

HDR POWER SYSTEMS
Toll Free: 1-888-PWR-CNTL

1-888-797-2685

Fax: 1-614-308-5506

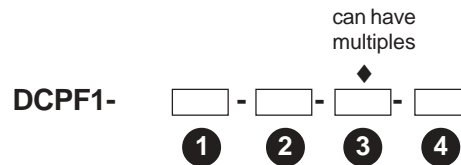
Web: www.hdrpower.com

SPECIFICATIONS:

Control Method:	Phase-firing of back-to-back SCRs	Isolation:	2500 volts rms from power circuit to command signal and to ground
Voltage Rating:	120, 240, 400, 480 Vac, 50/60 Hz,	Adjustments:	Zero and span, multi-turn
Current Ratings:	15, 25 Amperes	Ambient Temperature:	Operating: 0° to 50° C Storage: -10° to 70° C
Command Signal:	Most standard process signals	Relative Humidity:	0 to 95% (non-condensing)
		Weights:	15 & 25 6 lbs.

HOW TO ORDER:

Make one selection from each of the tables shown. Place the selections in the corresponding boxes to build your model number.



1 VOLTAGE TABLE*

120 Vac	<input type="text" value="120"/>
240 Vac	<input type="text" value="240"/>
400 Vac	<input type="text" value="400"/>
480 Vac	<input type="text" value="480"/>

*Other voltages available

2 CURRENT TABLE

15 Amps	<input type="text" value="15"/>
25 Amps.	<input type="text" value="25"/>

3 OPTION TABLE ^Δ

N.O. Thermostat	<input type="text" value="NO"/>
N.C. Thermostat	<input type="text" value="NC"/>
^Δ RMS Current Limit/OC	<input type="text" value="CL"/>
^Δ RMS Current Reg/OC	<input type="text" value="CR"/>
^Δ Over Current Trip	<input type="text" value="OC"/>

^Δ Monitors primary AC current

4 COMMAND SIGNAL TABLE

4-20 mA (Self Powered)	<input type="text" value="01"/>
0-10 VDC	<input type="text" value="02"/>
0-5 VDC	<input type="text" value="03"/>
Auto/Man	<input type="text" value="04"/>
*Manual Pot Input	<input type="text" value="05"/>
Others	<input type="text" value="06-99"/>

*Requires external potentiometer (5k)

Specifications subject to change without notice

DIMENSIONS:

