

PDI-PC6 SERIES

THREE-PHASE (6SCR) 60-1200 AMPS



PDI's line of three-phase (6scr) power controls offer maximum power and control features found in much larger units. The PDI-PC6 accepts standard operating voltages: 208/480/600. The 4-20 milliamp, 0-10V, 0-5V command signal is galvanically isolated to 1000V.

Adjustable current limiting is available, allowing the user to preset current values to prevent load from exceeding set values.

COMPUTERIZED SETUP & CALIBRATION Digital processor control via customer-provided computer or front panel control allows for in-plant adjustments. Digital setting of parameters makes for precise and rapid setup and calibration.

ON-BOARD DIAGNOSTICS Fault memory allows the user to record problems and observe trends that could indicate a need for process modification, troubleshooting or preventative maintenance.

ADVANCED PROCESS & FAULT MONITORING Allows for realtime readings of voltage, current, power and fault conditions, and for realtime changes to the set point that adjusts power-to-process requirements. Changes can be made in four ways:

- Locally, using an analog control signal
- Locally, using a customer-supplied computer
- Locally, with Local Digital Control feature
- Remotely, with optional Network Communication feature

CONFIGURABLE ANALOG INPUT FOR CONTROL REFERENCE Digital controller can be used with a local temperature controller, the output of which can be any industry standard matched to the power controller's user-configurable analog input.

PDI POWER CONTROL: PDI-PC6 SERIES

SPECIFICATIONS

CONTROL METHOD

- Phase-firing of six (6) back-to-back SCRs (3-leg control)

TRANSIENT VOLTAGE PROTECTION

- RC and MOV

1400 PIV SCRS

SEMICONDUCTOR (L²T) FUSE

OPTICALLY ISOLATED INPUT COMMAND (1000V)

- Signal 4-20mA, 0-5 or 10VDC
- Command signal impedance - 500 ohms

EASY-TO-READ DIAGNOSTIC LCD DISPLAY & USB INTERFACE

ALARMS FOR:

- Open fuse/SCR, shorted SCR, voltage, current, kW, and over temperature-protected with digital adjustment

SOFT START RESETS THE OUTPUT TO ZERO AT START UP AFTER A POWER INTERRUPTION

- Adjustable ramp rates

FEATURES

STANDARD FEATURES

AC

Voltage: 208/480/600V

Current: 60-1200A

Frequency: 50-60Hz

INPUT SIGNALS

- 0-10 VDC or 0-5 VDC
- 4-20ma or 0-20ma
- LCD display and keypad

4 CUSTOMER-ISOLATED INPUTS

- Shutdown
- Enable
- Reset
- Spare

4 RELAY OUTPUTS (RATED 240V 8A)

- Shorted SCR
- On/enable
- Overcurrent
- Overtemp fault

COMMUNICATIONS

- Modbus
- SNMP/Ethernet

SIGNAL ISOLATION

- Digital 1000V
- 0-10V/4-20ma 1000V
- Relay 5000V
- Modbus 2500V
- SNMP/Ethernet

SOFTSTART WITH TIME ADJUSTMENTS

MISSING CYCLE DETECTION

SHORTED SCR DETECT

OPEN SCR/FUSE DETECTION

OPTIONAL PASSWORD PROTECT

FEEDBACK OPTIONS (MANUAL OR EXTERNAL INPUT SIGNAL)

- Voltage (Delta or Wye)
- Current
- Power

STANDARD COMPLIANCE

- UL508C
- IEC 60146-1-1 (CE)