

# 450

## Single Phase Plug-in SCR Power Controller



This feature-rich family of reliable SCR units comes with unique plug-in mounting and selectable operating configuration that enables rapid system diagnostics or unit replacement in field conditions. Units are available from 120Vac–500Vac and 15A–150A ratings.

The 450 Series is a compact range of single phase solid state contactors. They are zero-crossing, ON/OFF fired for resistive loads only. They accept logic inputs and include optional partial load failure detection and alarm and current overload protection.

### Features

- 15–150 amps, 500Vac max.
- partial load failure detection

### Specifications

#### Dimensions:

451	247H x 76W x 236D mm, 3kg
452	247H x 114W x 236D mm, 4kg
453	247H x 152W x 236D mm, 5kg
454	280H x 152W x 236D mm, 5kg

#### Load type:

resistive

#### Inputs:

*DC Logic-voltage:* >3.5V ON: <2V OFF input impedance 2.5KΩ

*DC Logic-current:* >1.5mA ON: <1mA OFF, input impedance 2.5KΩ

#### Firing mode:

logic firing with zero cross firing

#### Operating temperature:

0 to 45°

### Ordering Codes

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1 Basic Product	2 Current	3 Voltage	4 Fan Voltage*	5 Language	6 Option
<b>Rating</b> 451 15A 451 25A 451 40A 452 55A 452 75A 453 100A* 454 125A* 454 150A*†	081 15 amps 082 25 amps 083 40 amps 062 55 amps 113 75 amps 114 100 amps 117 125 amps 100 150 amps†	10 120 volts 13 240 volts 32 277 volts 28 440 volts 29 500 volts	11 115 volts 36 230 volts 19 115 and 230V 43 380 and 230V 47 440 and 230V 44 500 and 230V *453 and 454 units only	ENG English FRA French GER German	10 TTL input 24 Multi-drive input 37 Partial Load Failure detection (open in alarm) 37/83 PLF (closed in alarm) 68 Overcurrent shutdown (with PLF option only) FILT Filter 76 No baseplate

\* Fan cooled (23VA)

† Requires external fuseholder and fuse -see page 3-47.

Fuses internal except for 150A unit, see pages 3-47 to 3-49.