

## Compact Solid State Power Controller Delivers Big Performance

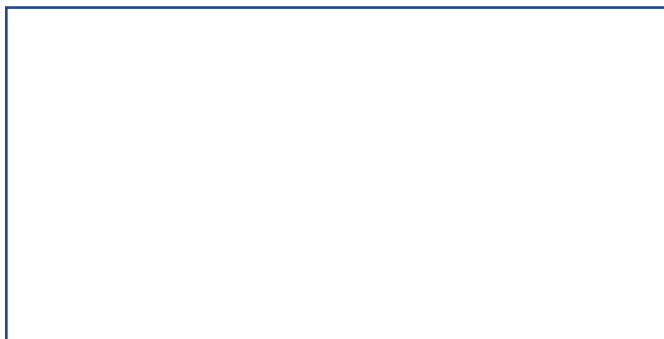
Watlow's DIN-A-MITE® Style A power controller provides a low-cost, highly compact and versatile solid state option for controlling electric heat. You also get all the quality you expect from a Watlow designed and manufactured product. DIN rail and back panel mounting is standard on every controller. There is no need to worry about mercury, the DIN-A-MITE controller is mercury free.

Capabilities include single-phase zero cross switching up to 25 amps at 600V~(ac) (see rating curve). A unique integrated design removes the guesswork associated with selecting a proper heat sink and adequate terminations for the application.

Variable time base, 4-20mA process control or  $V_{\approx}(ac/dc)$  input contactor versions are available. All configurations are model number dependent and factory selectable.

The DIN-A-MITE power controller is made in the USA.

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### Features and Benefits

#### DIN rail or standard panel mount

- Versatile, quick and low-cost installation

#### Compact Size

- Reduced panel space; less cost

#### Touch-safe terminals

- Increased safety for installer/user

#### No mercury

- Environmentally safe product

#### Faster switching with solid state

- Saves energy and extends heater life

#### UL® 508 listed and C-UL® and CE with filter

- Applications requiring agency approval

#### Back-to-back SCR design

- Rugged design



WIN-DMA-0502

**ISO 9001**



Registered Company  
Winona, Minnesota USA



## Specifications—2172

### Operator Interface

- Command signal input
- Input indicator light LED

### Amperage

- Single-phase, see the output rating curve.
- Maximum I<sup>2</sup>t for fusing: 720A<sup>2</sup>sec

### Line Voltage

- 20V~(ac) to 660V~(ac) model number dependent. See ordering information.
- Off-state leakage: 1mA at 25°C (77°F) maximum
- 50/60Hz independent

### Control Mode-Zero Cross

- Input Control Signal Type C: V=(dc) input contactor.
- Input Control Signal Type K: V~(ac) input contactor.
- To increase service life on contactor input models, the cycle time should be less than three seconds.
- Input Control Signal Type F: 4 to 20mA=(dc) proportional variable time base control.

### Input Command Signal

- AC contactor  
24V~(ac) ±10 percent, 120V~(ac) +10/-25 percent, 240V~(ac) +10/-25 percent @ 25mA maximum per controlled leg
- DC Contactor  
4.5V= to 32V=(dc): maximum current @ 4.5 V=(dc) is 6mA per leg. Add 3mA if alarm option is included.
- Loop powered linear current  
4mA= to 20mA=(dc): loop-powered. Input Type F0 and F1 options only. (Requires current source with 6.2V=(dc) available. No more than three DIN-A-MITE inputs can be connected in series)

### Agency Approvals

- UL® 508-listed and C-UL® File E73741
- CE with proper filter:  
89/336/EEC Electromagnetic Compatibility Directive  
73/23/EEC Low Voltage Directive  
EN 61326 Industrial Immunity Class A Emissions  
EN 50178 Safety requirements

### Input Terminals

- Compression: Will accept 0.2 mm<sup>2</sup> to 2.5 mm<sup>2</sup> (24 to 14 AWG) wire

### Line and Load Terminals

- Compression: Will accept 0.75 mm<sup>2</sup> to 10 mm<sup>2</sup> (18 to 8 AWG) wire

### Operating Environment

- Up to 80°C (176°F). See the output rating curve chart for your application.
- 0 to 90 percent RH (relative humidity), non-condensing
- Installation only tested to 3,000 meters
- Units are suitable for "Pollution degree 2"

### Mounting

- Options include DIN rail or standard back panel mounting.
- The DIN rail specification is: DIN EN 50022, 35 mm by 7.5 mm
- Mount the cooling fins vertically

### Dimensions

- Height: 95 mm (3.7 in.) high x 45 mm (1.8 in.) wide x 98 mm (3.9 in.) deep
- Weight: 0.32 kg (0.71 lb)

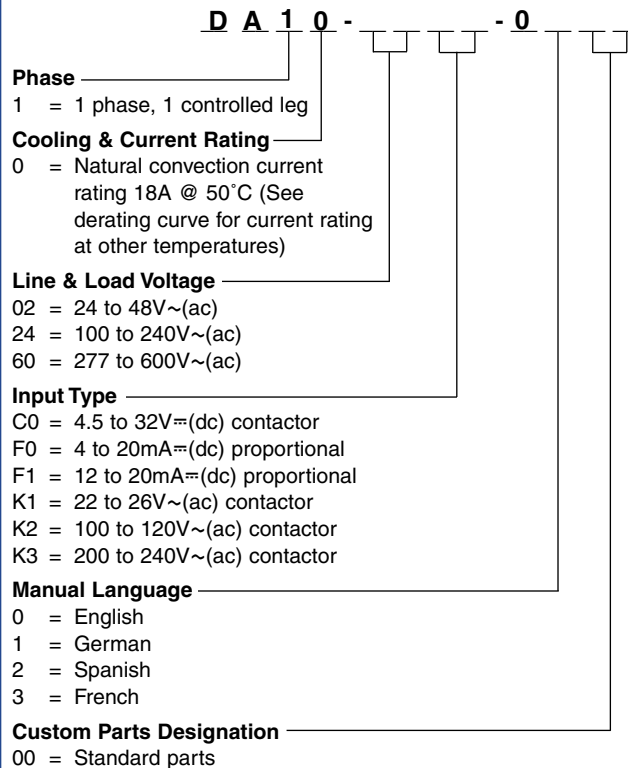
Specifications are subject to change without notice.

## Ordering Information—2173

To order, complete the code number on the right with the information below.

### DIN-A-MITE

**Style A = Solid State Power Controller**



### Recommended Semiconductor Fuse and Fuse Holder

	Watlow	Bussmann	Ferraz
<b>Fuse</b>	17-8025	FWC25A10F	PFZ-L330014
<b>Holder</b>	17-5110	B24202	PFZ-G81219

## Output Rating Curve

