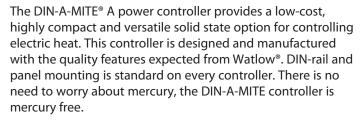


Compact Solid State Power Controller Delivers Big Performance



Features include single-phase zero cross switching up to 25 amperes at 600VAC (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 and VAC/VDC input contactor versions are available. All options are model number dependent and factory configurable. This power controller also includes 200KA short circuit current rating (SCCR) tested up to 480VAC to minimize damage in the event of a short circuit when used with required fusing.

Watlow's DIN-A-MITE A is available through Watlow **SELECT***, a program that enables you to quickly identify, configure and receive your thermal products faster and easier than ever before





Features and Benefits

200KA SCCR with proper fusing

Minimizes damage in the event of a short circuit

DIN-rail and panel mounting

Provides versatility and quick, low-cost installation

Compact size

Reduces panel space and cost

Touch-safe terminals

Increases safety for installer and user

Mercury free

Assures environmental safety

Faster switching with solid state

· Saves energy and extends heater life

UL® 508 listed, C-UL®, RoHS 2 and CE with filter

- · Meets applications requiring agency approval
- · Reduces end product documentation cost

Back-to-back SCR design

Ensures a rugged design

Watlow®, Watlow **SELECT®** and DIN-A-MITE® are registered trademarks of Watlow Electric Manufacturing Company.

 $\ensuremath{\mathsf{UL}}^{\ensuremath{\mathsf{e}}}$ and C-UL® are registered trademarks of the Underwriter's Laboratories, Inc.

Powered by Possibility









Specifications

Operator Interface

- Control input
- Input indication LED

Amperage

- · Single-phase, see the output rating curve
- Max. I2t for fusing: 4000A2sec
- Latching current: 400mA max.
- Holding current: 200mA max.
- · Power dissipation is 1.2 watts per ampere switched
- 200KA SCCR, Type 1 and 2 approved with the recommended fusing; see user manual.

Line Voltage

- 24 to 660VAC model number dependent; see ordering information
- Off-state leakage: 1mA at 77°F (25°C) max.
- 50/60Hz independent

Control Mode, Zero Cross

- · Control option C: VDC input, contactor output
- Control option K: VAC input, contactor output
- · To increase service life on contactor models, the cycle time should be less than three seconds
- Control option F: 4 to 20mA DC input, variable time-base control output (3 cycles on, 3 cycles off at 50% power)

Control Input

- AC contactor: 24VAC ±10%, 120VAC +10/-25%, 240VAC +10/-25% @ 25mA max.
- DC contactor: 4.5 to 32VDC: max. current @ 4.5VDC is 8mA
- Loop powered linear current 4 to 20mA DC: loop-powered, control option F0 only (requires current source with 8.0VDC available, no more than two DIN-A-MITE inputs can be connected in series)

Agency Approvals

• CE with proper filter:

204/108/EC Electromagnetic Compatibility Directive EN 61326-1: Industrial Immunity Class A Emissions 2006/95/EC Low Voltage Directive **EN 50178 Safety Requirements** Installation category III, pollution degree 2

- الله UL® 508 listed and C-UL® File E73741
- 2011/65/EU RoHS 2

Control Input Terminals

- Compression: will accept 24 to 16 AWG (0.2 to 1.5 mm²) wire **Line and Load Terminals**
- Compression: will accept 18 to 8 AWG (0.8 to 8.4 mm²) wire **Operating Environment**
- -4 to 176°F (-20 to 80°C); see the output rating curve chart for your application
- 0 to 90% RH (relative humidity), non-condensing
- Insulation tested to 3,000 meters
- Units are suitable for "Pollution degree 2"

Mounting

Options include DIN-rail or standard back panel mounting

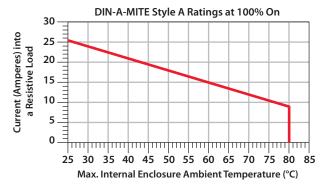
- DIN EN 50022, 35 mm by 7.5 mm
- · Mount cooling fins vertically

Dimensions

- 3.7 in. (94 mm) high x 2.0 in. (50 mm) wide x 3.9 in. (98 mm) deep
- Weight: 0.71 lb (0.32kg)

Specifications are subject to change without notice.

Output Rating Curve



Ordering Information





4	Cooling and Current Rating (see rating curve)		
0 =	Natural convection current rating 18A @50°C		
56	Line and Load Voltage		
02 =	24 to 48VAC		
24 =	120 to 240VAC		
60 =	277 to 600VAC		
78	Control		
C0 =	4.5 to 32VDC input, contactor output		
F0 =	4 to 20mA DC input variable time-base output		

ZT —	120 to 2407AC
60 =	277 to 600VAC
78	Control
C0 =	4.5 to 32VDC input, contactor output
F0 =	4 to 20mA DC input, variable time-base output
K1 =	22 to 26VAC input, contactor output
K2 =	100 to 120VAC input, contactor output

	VVAI LUV VSELECT
11 12	
Custom	

10	User Manual
0 =	English
1 =	German
	Spanish
3 =	French
(a) (b)	Custom Outlans

11 (12)	Custom Options
00 =	Standard part
XX =	Any letter or number, custom options

Recommended Fuses and Fuse Holders

Semiconductor Fuses and Holders

User

Manual

DFJ Combination Fur Holders	ses and
Part Nbr.	Desc

Part Nbr. Description 0808-0325-0020 17-8025 25A fuse 0808-0325-0030 17-5110 10-25A holder

Options

ription

20A fuse