

Compact Solid State Power Controller Delivers Big Performance





The DIN-A-MITE[®] A power controller provides a low-cost, highly compact and versatile solid state option for controlling electric heat. This controller is designed and manufactured with the quality features expected from Watlow[®]. DIN-rail and panel mounting is standard on every controller. There is no need to worry about mercury, the DIN-A-MITE controller is mercury free.

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. With *SELECT*, you use a variety of tools to guide your decision, configure products for an exact fit and quickly receive your order. Visit www.watlow.com/select to learn more.

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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





CE

SOUTHWEST HEATER AND CONTROLS

10610 Control Place, Dallas Texas 75238

Main# 214-340-7500 Toll Free#: 800-687-2220

Powered by Possibility

Manufacturing Company.

2220 EMAIL: sales@swhc.com

WEB: www.swhc.com



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
- (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

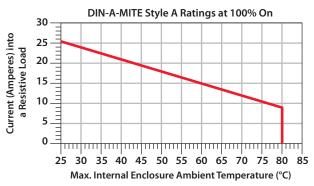
- DIN EN 50022, 35 mm by 7.5 mm
- Mount cooling fins vertically

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 Part Number																
1	2	3 Phase	4 Cooling & Current Rating		56 Line & Load Voltage	78 Control		9		10 User Manual	(1) (12) Custom Options					
D	Α	1	0	_			_	0								
③ Phase									10 User Manual							
1 = 1-phase, 1 controlled leg									0 = English							
④ Cooling and Current Rating (see rating curve)									1 = German							
0 = Natural convection current rating 18A @50°C									2 = Spanish							
5 6 Line and Load Voltage 3 = French																
02 = 24 to 48VAC								1	10 12 Custom Options							
24 = 120 to 240VAC									00 = Standard part							
60 = 2	60 = 277 to 600VAC									XX = Any letter or number, custom options						
© Control Recommended Fuses													s and Fuse Ho	lders		
									Semiconductor Fuses and DFJ Combination Fuses and Holders							
F0 = 4	F0 = 4 to 20mA DC input, variable time-base output									br. [Description		Part Nbr.	Description		
K1 = 2	input, cor	put					17-80		25A fuse		0808-0325-0020	20A fuse				
											0-25A holder	•	0808-0325-0030	30A fuse		
K3 = 2	00 to 240V	AC input, c	ontactor o	utp	ut								0808-0326-1530	15-30A holder		