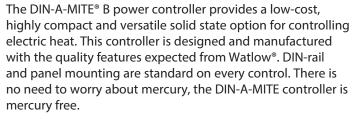


Single- and Three-Phase Power in a Compact and Safe Package





Features include single-phase and three-phase zero cross switching up to 40 and 22 amperes, respectively, 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. A shorted output alarm option is also available. All options are model number dependent and factory configurable. This power controller 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 B 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.

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

Single- and three-phase power

Permits use in a variety of applications

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

Shorted output alarm (optional)

Simplifies troubleshooting and reduces downtime





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Powered by Possibility

Main# 214-340-7500

SOUTHWEST HEATER AND CONTROLS

10610 Control Place, Dallas Texas 75238

Toll Free#: 800-687-2220 EMAIL: sales@swhc.com

WEB: www.swhc.com

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WIN-DMB-0720



Specifications

Operator Interface

- Control input and indication light
- Alarm output and indication light

Amperage Rating

- See the output rating curve
- Max. surge current for 16.6ms, 380A peak
- Max. I²t for fusing is 4,000A²s
- Latching current: 400mA max.
- Holding current: 200mA max. •
- Off-state leakage 1mA at 77°F (25°C) max.
- Power dissipation = 1.2 watts per ampere per leg 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

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

Control Input

- AC contactor: 24VAC ±10%, 120VAC +10/-25%, 240VAC +10/-25% @ 25mA max. per controlled leg
- DC contactor: 4.5 to 32VDC: max. current @ 4.5VDC is 6mA per leg. Add 2mA per LED used to the total current
- 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)

Alarm

Shorted SCR Alarm Option

• Alarm state when the input command signal off and a 10A or more load current is detected by the current transformer (two turns required for 5A and three turns for 2.5A)

Alarm Output

- ·Energizes on alarm, non-latching
- Triac 24 to 240VAC, external supply with a current rating of 300mA @ 77°F (25°C), 200mA @ 122°F (50°C), 100mA @ 176°F (80°C) and a holding current of 200 µA with a latching current of 5mA typical

Ordering Information

Part Number		
1	2 3 4 S © 7 ® Cooling & Line & Current Load Load Phase Rating Voltage Control	
D	B — –	
3	Phase	
1 =	1-phase, 1 controlled leg	
2 =	3-phase, 2 controlled legs	
3 =	3-phase, 3 controlled legs	
8 =	2 independent zones (control options C or K)	
9 =	3 independent zones (control options C or K)	
4	Cooling and Current Rating (see rating curve)	
0 =	Natural convection	
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	
K1 =	22 to 26VAC input, contactor output	
K2 =	100 to 120VAC input, contactor output	

00 to 120VAC input, contactor output

K3 = 200 to 240VAC input, contactor output

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 (1), 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**
- See the output rating curve
- 0 to 90% RH (relative humidity), non-condensing
- Storage temperature: -40 to 185°F (-40 to 85°C)
- Operating temperature: -4 to 176°F (-20 to 80°C)
- Insulation tested to 3,000 meters
- **DIN-rail Mount**
- DIN EN 50022, 35 mm by 7.5 mm
- **Back-Panel Mount**

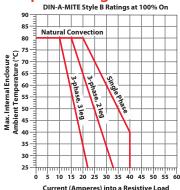
Four mounting holes No. 6 to No. 8 (M3 to M4) fastener

Dimensions

- 3.7 in. (94 mm) high x 3.3 in. (83 mm) wide x 4.9 in. (124 mm) deep
- Weight: 1.5 lb (0.68kg)

Specifications are subject to change without notice.

Output Rating Curve **Current Rating Table**



Phase	Cooling	Current at 122°F (50°C)
1	0	35A
2, 8	0	25A
3, 9	0	17A

9		(11) (12)	
larm	User Manual	Custom Options	

9 Alarm	
0 = No alarm	
S = Shorted SCR alarm	
10 User Manual	
0 = English	
1 = German	
2 = Spanish	
3 = French	
1) 12 Custom Options	
00 = Standard part	
XX = Any letter or number, custom options	

Recommended DIN-rail Mount Fuses and Fuse Holders rs DFJ Combination Fuses and Holders

Semiconductor Fuses and Holder				
	Part Nbr.	Description		
	17-8020	20A fuse		
	17-8025	25A fuse		
	17-8030	32A fuse		
	17-8040	40A fuse		
	17-8050	50A fuse		
	17-5110	10-25A holder		
	17-5114	32-50A holder		

ry combination rases and notacity		
Part Nbr.	Description	
0808-0325-0020	20A fuse	
0808-0325-0030	30A fuse	
0808-0325-0040	40A fuse	
0808-0325-0050	50A fuse	
0808-0326-1530	15-30A holder	
0808-0326-3560	35-60A holder	