

Supplemental Motor Protection Devices Specifications

Bulletin Numbers 809S, 813S, 814S, 817S, 1409, 1410

Торіс	Page
Bulletin 809S/813S/814S/817S	2
<u>Product Line Overview</u>	2
Cat. No. Explanation	3
Specifications	4
Standards Compliance and Certifications	Z
Function and Wiring Diagrams	8
Approximate Dimensions	<u>14</u>
Bulletin 1409 Arcing Ground Fault Detection System	<u>15</u>
Specifications	<u>15</u>
Standards Compliance and Certifications	<u>15</u>
Typical Wiring Diagrams	<u>16</u>
Approximate Dimensions	<u>17</u>
Bulletin 1410 Motor Winding Heater	18
Specifications	<u>18</u>
Standards Compliance and Certifications	18
Approximate Dimensions	<u>18</u>

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description	
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.	
Product Certifications website, http://www.ab.com	Provides declarations of conformity, certificates, and other certification details.	

You can view or download publications at http://www.rockwellautomation.com/literature/. To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.







Bulletin 1410 Motor Winding Heater

Supplemental Motor Protection Devices Specifications



Motor Winding Heater

Bulletin 1410 Motor Winding Heater is intended for use with 3-phase AC motors to guard against damage caused by condensation build-up on motor windings, which can occur in high-humidity environments during motor off times. **This device is not intended to be used to dry out damp motors.**

Bulletin 1410 Motor Winding Heater is designed for used with 3-phase AC squirrel-cage motors controlled by automatic full-voltage starters. For applications involving reduced-voltage starters, multi-speed starters, synchronous motors, or the used of power factor correction capacitors, consult your local Rockwell Automation sales office or Allen-Bradley distributor.

Specifications

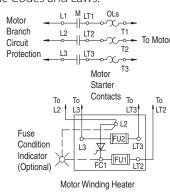
Output Voltage Regulation	Voltage applied to motor winding will vary ± 5 % maximum for line voltage variations of $+10$ %, -15 %.		
Ambient Temperature Range	Operating, 050 °C (32122 °F)		
	Storage, −25+85 °C (−13+184 °F)		
Additional SCR Protection	Metal oxide varistor protects against voltage surges. RC snubber circuit limits rate of change of circuit voltage.		
True RMS Output Current	Approximately 15% of full load current.		
Power Delivered to the Motor	Approximately 13 W/Hp.		

Standards Compliance and Certifications

Standards Compliance	Certifications	
CSA C22.2, No. 144	CSA Certified (LR1234)	
UL 508	UL Listed (File E56639, Guide NMTR)	

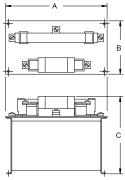
Connection Diagram

See Applicable Codes and Laws.



Approximate Dimensions

Dimensions are shown in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.



Cat. No.	A	В	C
1410-EOA47 1410-EOB50 1410-EOC50	146.1 (5-3/4)	88.9 (3-1/2)	114.3 (4-1/2)
1410-F0A50 1410-F0B54 1410-F0C54	204.8 (8-1/16)	108 (4-1/4)	177.8 (7)
1410-GOA54 1410-GOB59 1410-GOC59	238.1 (9-3/8)	146.1 (5-3/4)	206.4 (8-1/8)
1410-HOA57 1410-HOB62 1410-HOC62	279.4 (11)	244.5 (9-5/8)	207.2 (8-5/32)