



Amps	Power Controller	Firing Mode	Electric Heating Element Type	Features	Agency Approvals
18 to 100A	DIN-A-MITE®	Burst fire, variable time base phase angle-fire <sup>3</sup>	Nichrome™ wire, other	Four models meet power, budget and feature requirements. Same footprint as popular MDRs. Convenient DIN rail mounting.	UL®508 listed, C-UL® up to 100 amps and CE with proper filter
150 to 1000A	QPAC	Burst fire, variable time base Phase-angle firing	Nichrome™ wire, other <sup>2</sup>	Modular design incorporating plug-in cards for contactor, burst fire, variable time base, or phase angle. Quick delivery.	UL®508 listed and C-UL® up to 300A
10 to 75A	SSR	VAC or VDC, burst fire contactor input	Nichrome™ wire	Low cost, requires heatsink. Heatsink and over-temperature protection recommended. Stocked for same day shipment.	UL®873 Recognized, CSA Certified and VDE 0805
18 to 50A	CZR	Contactor input	Nichrome™ wire	Compact electrically. Touch safe package. Convenient DIN-rail mounting.	UL®508 listed CSA Certified, VDE, CE
65 to 250A	POWER SERIES	Burst fire, Variable time base Phase-angle firing <sup>3</sup>	Nichrome™ wire, other <sup>2</sup>	Microprocessor-based heater diagnostics. RS-232/485 communications. Heater bakeout feature.	UL®508 listed C-UL®

(1) Includes heater replacement and lost production.

(2) Heating elements that change resistance value over time and temperature, i.e; silicon carbide, tungsten.

(3) Phase angle firing up to 65 amps. Single pahse only. Not CE approved.

Initial Cost	3 Year Cost <sup>1</sup>	Control Life	Heater Life	EMI Generation	Control	Response Rate	Options	
<b>Electromechanical Relay And Contactor</b>								
Low for low current	Highest	Limited (elec. & mech.)	Shortest	Yes, coil and contacts	Poor	Slowest	None	
<b>E-SAFE RELAY®</b>								
Low	Medium	High	Good	Minimal	Good	Fast	None	
<b>Mercury Displacement Relay (MDR)</b>								
Low for low to medium current	Medium	High	Good	Yes, coil and contact	Fair to good	Medium to fast	None	
<b>Solid State Relay (SSR)</b>								
Medium	Medium	Extended	Extended	Minimal with burst fire	Good	Fast	None	
<b>SCR Solid State Contactor</b>								
Medium	Low	Extended	Extended	Minimal	Good	Fast	None	
<b>SCR Burst Firing</b>								
High	Low	Extended	Longest	Minimal	Excellent	Fastest	None	
<b>SCR Phase-Angle Firing</b>								
High	Lowest	Extended	Longest	High	Excellent	Fastest	Current limit	
<b>Saturable Core Reactor</b>								
Highest	Low	Extended	Longest	Minimal	Very Good	Fast	Current limit	



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