



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 ³	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 ²	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 ³	Nichrome™ wire, other ²	Microprocessor-based heater diagnostics. RS-232/485 communications. Heater bakeout feature.	UL®508 listed C-UL®

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