

Role of Current Relays in Compressor Ignition

Category: Refrigeration
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CHARACTERISTIC TABLES OF
VARIOUS START AND PROTECTION DEVICES

CURRENT RELAYS		THERMAL OVERLOAD PROTECTORS	
			
Model	1/8, 1/6, 1/5, 1/4, 1/3, 1	Model	1/8, 1/6, 1/5, 1/4, 1/3, 1
Rated Power (W)	93, 125, 150, 180, 245, 3	Rated Power (W)	93, 125, 150, 180, 245, 3
Rated Current (A)	3.0, 3.6, 4.25, 4.75, 5.30, 6	Rated Current (A)	3.0, 3.6, 4.25, 4.75, 5.30, 6
Rated Voltage (V)	2.6, 3.0, 3.35, 3.75, 4.25, 5	Rated Voltage (V)	2.6, 3.0, 3.35, 3.75, 4.25, 5

Selecting the right electrical components is the heartbeat of refrigeration maintenance. When a compressor fails to start or constantly trips, the culprit is often a mismatched Current Relay or a fatigued Thermal Overload Protector. Ensuring these parts align perfectly with the compressor’s horsepower (HP) and amperage rating is vital for long-term system reliability.

Compressor database chart Relay Olp

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HP	1/8	1/6	1/5	1/4	1/3	1
P(W)	93	125	150	180	245	3
rated(A)	3.0	3.6	4.25	4.75	5.30	6
U(V)	2.6	3.0	3.35	3.75	4.25	5

A refrigerator compressor does not run alone; it depends on a start relay and an overload protector (OLP) to start safely and avoid burning out. The wiring diagram of compressor, relay, and OLP shows how power flows from the thermostat, through protection devices, to the motor windings, keeping domestic fridges reliable and safe.