50A 3-Phase AC Magnetic Contactor for HVAC Systems

This 3-phase contactor is rated for 50A and is suitable for HVAC applications. It utilizes a magnetic mechanism for reliable AC operation in refrigeration, air conditioning, and heating systems.

ADDITIONAL IMAGES

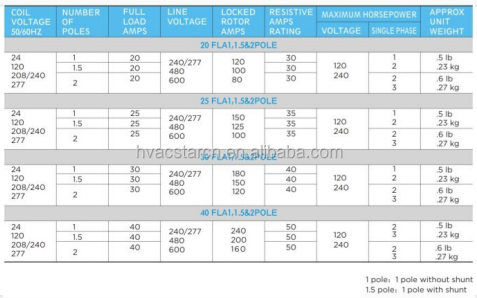
Product Overview

High-Performance HVAC Contactor

This 3-phase magnetic contactor is engineered for demanding HVAC and refrigeration applications, offering reliable switching for compressors, resistive heating, and lighting systems. Designed to meet rigorous industry standards, it provides a cost-effective yet durable solution for professional installations. Its compact footprint and flexible connection options, including screw and box lug terminals, ensure easy integration into existing control panels.

Suitable Applications	Air Conditioning, Refrigeration, Resistive Heating, Lighting Systems

Electrical Ratings



COIL VOLTAGE 50/60HZ	NUMBER OF POLES	FULL LOAD AMPS	LINE VOLTAGE	LOCKED ROTOR AMPS	RESISTIVE AMPS RATING	MAXIMUM HORSEPOWER VOLTAGE	MAXIMUM HORSEPOWER SINGLE PHASE	APPROX UNIT WEIGHT
20 FLA1,1.5&2POLE								
24 120 208/240 277	1 1.5 2	20 20 20	240/277 480 600	120 100 80	30 30 30	120 240	1 2 2 3	.5 lb .23 kg .6 lb .27 kg
25 FLA1,1.5&2POLE								
24 120 208/240 277	1 1.5 2	25 25 25	240/277 480 600	150 125 100	35 35 35	120 240	1 2 2 3	.5 lb .23 kg .6 lb .27 kg
30 FLA1,1.5&2POLE								
24 120 208/240 277	1 1.5 2	30 30 30	240/277 480 600	180 150 120	40 40 40	120 240	1 2 2 3	.5 lb .23 kg .6 lb .27 kg
40 FLA1,1.5&2POLE								
24 120 208/240 277	1 1.5 2	40 40 40	240/277 480 600	240 200 160	50 50 50	120 240	2 3 2 3	.5 lb .23 kg .6 lb .27 kg

1 pole: 1 pole without shunt
1.5 pole: 1 pole with shunt

Technical reference table for definite purpose contactor ratings.

Configuration 3-Pole	
Maximum Voltage	600 V
Full Load Amps (FLA)	50 A
Coil Voltage	24VAC 50/60Hz

Technical Specifications

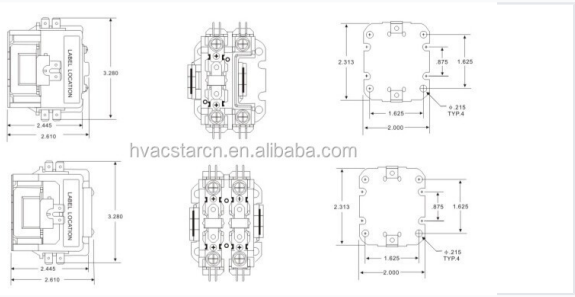
OTHER SPECIFICATIONS:	20-30 FLA	40 FLA
Line and Load Terminals	#10-32 Screw	Box Lug
Wire Size AWG Min-Max	16-8*	14-4 Cu/Al
Tightening Torque(recommended)	25 in. lbs	40 in. lbs
Coil Termination	Dual .250" QC(2)	Dual .250" QC(2)
Quick Connects .250" std. -1 or 1.5 Pole	Quad	Quad
Quick Connects .250" std. -2 pole	Dual or Quad	Dual or Quad
ARC Cover	Optional	Standard
Insulation System	130°C Class B	130°C Class B

*Stranding must be split for #8 wire.

Permissible Ambient Temperature: -40°C /65°C -40°F /150°F

COIL TECHNICAL DATA 50/60HZ	1 & 1.5 POLE CONTACTORS				2 POLE CONTACTORS			
Nominal Coil Voltage	24	120	208/240	277	24	120	208/240	277
Maximum Pickup Volts	18	88	177	221	18	88	177	221
Drop-Out Volts Range	6-15	20-70	40-140	50-165	6-15	20-70	40-140	50-165
Nominal Inrush VA @ 50Hz	31	31	35	31	22	22	22	22
Nominal Inrush VA @ 60Hz	28	28	32	28	20	20	20	20
Nominal Sealed VA @ 50Hz	6	6	7	6	5.5	5.5	5.5	5.5
Nominal Sealed VA @ 60Hz	5	5	6	5	4.5	4.5	4.5	4.5
Nominal DC Resistance-Ohms	18	420	1800	2500	11	237	1000	1600
Maximum Coil Voltage	30	132	264	300	30	132	264	300

Detailed coil technical data and terminal connection specifications.



Dimensional drawing for installation and mounting reference.

Operating Temperature

-40 °C	65 °C
Min Temp	Max Temp

Connection Methods

- Quick connect terminals
- Screw terminals
- Box lugs

Tightening Torque

Connection Type	Torque
CU 75°C Screws	22 in-lbs
Box Lugs	50 in-lbs

Compliance & Standards	UL Listed, CSA, S MARK, CCC