

Contactors

SUPCO Brand Definite Purpose Contactors

SUPCO contactors are designed for use in HVAC&R systems. These contactors are available in 1.5, 2 and 3 pole configurations from 20 through 90 full amps. Compact universal design allows replacement of the most common brands.



Features

- Silver Cadmium Oxide Contacts
- Ranges: 20 – 90 FLA
- Poles: 1.5, 2 & 3
- Coil Voltages: 24, 120 & 240 VAC
- Terminations: #10-32 screw – 20, 25 & 30 FLA Models, Box Lug – 40, 50, 60, 75 & 90 FLA Models
- Temperature Range: - 40°F to + 150°F / (- 40°C to + 65°C)
- UL & CSA Approved

Benefits

- Economically priced
- Space saving dimensions allow for smaller panels and more wiring room.
- Interchangeable mounting with many competitive contactors.
- Complete competitive cross-reference available.

Applications

- Low drop out voltage making them ideal for any air conditioning, heating and refrigeration application.

| 1.5 POLE PART NO. | FULL LOAD AMPS | COIL VOLTAGE |
|----------------------|-------------------|-----------------|
| DP25241 | 25 | 24 |
| DP251201 | 25 | 120 |
| DP252401 | 25 | 240 |
| DP30241 | 30 | 24 |
| DP301201 | 30 | 120 |
| DP302401 | 30 | 240 |

| 2 POLE PART NO. | FULL LOAD AMPS | COIL VOLTAGE |
|--------------------|-------------------|-----------------|
| DP20242 | 20 | 24 |
| DP201202 | 20 | 120 |
| DP202402 | 20 | 240 |
| DP25242 | 25 | 24 |
| DP251202 | 25 | 120 |
| DP252402 | 25 | 240 |
| DP30242 | 30 | 24 |
| DP301202 | 30 | 120 |
| DP302402 | 30 | 240 |
| DP40242 | 40 | 24 |
| DP401202 | 40 | 120 |
| DP402402 | 40 | 240 |

| 3 POLE PART NO. | FULL LOAD AMPS | COIL VOLTAGE |
|--------------------|-------------------|-----------------|
| DP25243 | 25 | 24 |
| DP251203 | 25 | 120 |
| DP252403 | 25 | 240 |
| DP30243 | 30 | 24 |
| DP301203 | 30 | 120 |
| DP302403 | 30 | 240 |
| DP40243 | 40 | 24 |
| DP401203 | 40 | 120 |
| DP402403 | 40 | 240 |
| DP50243 | 50 | 24 |
| DP501203 | 50 | 120 |
| DP502403 | 50 | 240 |
| DP60243 | 60 | 24 |
| DP601203 | 60 | 120 |
| DP602403 | 60 | 240 |
| DP75243 | 75 | 24 |
| DP751203 | 75 | 120 |
| DP752403 | 75 | 240 |
| DP90243 | 90 | 24 |
| DP901203 | 90 | 120 |
| DP902403 | 90 | 240 |

Contactors Nomenclature

Example: DP30242
 DP = Definite Purpose
 30 = Full Load Amps
 24 = Coil Voltage
 2 = # Of Poles

Application Note

The contactor is the primary controller in a cooling controls circuit. It is the switching device which activates the compressor motor to pump refrigerant through the system to provide cooling.

Contactors are used to break the power supply to the compressor. Either 1 or 2 poles are needed for single phase; 2 or 3 poles for 3 phase motors. Auxiliary contacts may be used for interlock switching, fan loads or crankcase heaters. If the contactor is selected with an adequate current rating, the condenser fan may also be wired in parallel with the compressor. Then the condenser fan is energized whenever the compressor is powered.

Checking Contactor Operation:

- Check contactor operation by switching the contactor from the system controls.
- Make sure that the pressure and overload controls can break the system circuit to prevent contactor operation, if necessary.

