





P31

P41

#### **Features**

- 3 phase and single phase switching.
- Integral dual QC terminals.
- Class "B" coil insulation.
- Variety of main terminals.
- Applications include HVAC industrial control.
- Direct activated DC coils.

#### Contact Data @ 25°C

**Main Contacts:** 

Arrangements: 3 Form X (3PST-NO-DM) and 4 Form X (4PST-NO-DM).

Ratings: See Main Contact Ratings Table.

Material: Silver-cadmium oxide.

Initial Breakdown Voltage: 2,200V rms minimum between all elements

and between all elements to ground.

**Expected Life:** 200,000 operations at motor load. 500,000 operations, mechanical.

Minimum Contact Data: 3A @ 120VAC

#### **Initial Dielectric Strength**

Initial Breakdown Voltage: 2,200V rms minimum between all elements

and between all elements and ground.

#### Main Contact Ratings @ 25°C, 60 Hz. AC (Per Pole)

	@ 240VAC		@ 480VAC		@ 600VAC			
	LRA	FLA	LRA	FLA	LRA	FLA	RES	
P31C	150	25	125	25	100	25	35	
P31E	240	40	200	40	160	40	50	
P41B	120	20	100	20	80	20	25	
P41C	150	25	125	25	100	25	35	

Contact Terminals (See Contact Terminal Options Diagram):

03 = Dual.250'' (6.35mm) quick connect turned up per Figure 03 (25 amps, Max.) 05 = #10-32 binder head screw with dual.250'' (6.35mm) quick connect per Figure 05

# P31/P41 series

# Definite Purpose Magnetic Contactor 16 to 40 Amp Full Load 20 to 50 Amp Resistive

**File** E25575

**File LR15734** 

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

#### Coil Data @ 25°C

Voltage: 12 and 24V DC. See Coil Data table.

Power: 8W.

**Duty Cycle:** Continuous. **Insulation:** Class B.

Initial Insulation Resistance: 100 megohms minimum.

#### Coil Data @ +25°C

Code	Nominal Voltage	DC Resistance in Ohms ± 10%	Must Operate Voltage	Nominal Coil Current (mA)		
DFO	12DC	21	9	571		
DHO	24DC	84	18	286		

<sup>\*</sup>Applicable for vertical or horizontal mounting, but not for upside-down mounting.

Note: Coil suppression is recommended for all units.

#### Operate Data @ 25°C

Must-Operate Voltage: See Coil Data Table.

#### **Environmental Data**

Temperature Range: -55°C to +65°C.

## **Mechanical Data**

Mounting: Universal mounting bracket. See Outline Drawings.

Termination:

Contacts: Dual .250" (6.35mm) quick connect with or without binder

head screw or box lug.

Coil: Dual .250" (6.35mm) quick connect.

Weight: 18 oz. (510g) approximately.

# Ordering Information

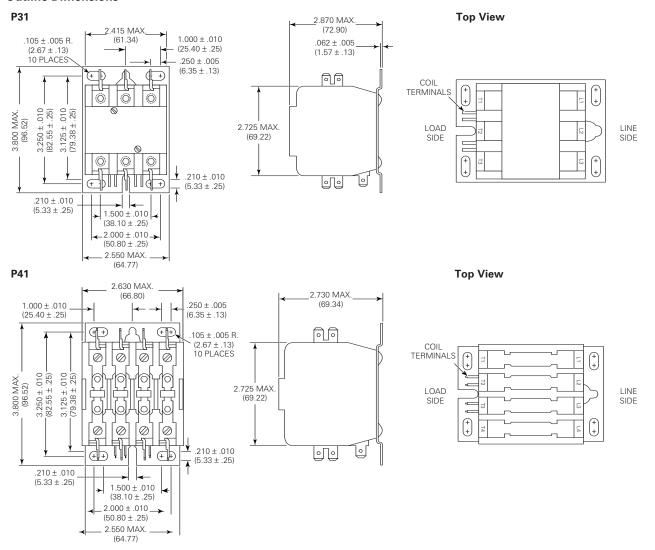
oracing information								
	Typical Part No. ▶	P41	С	47	D	НО	1	03
<b>1. Type:</b> P31 = 3 Pole P41 = 4 Pole		_						
2. Contact Rating C = 25 Amp E = 40 Amp (40A ratin	g only offered on P31)							
3. Contact Arrangement: 42 = 3 Form X (3PST-NO-DM) 47 =	4 Form X (4PST-NO-DM) P41 only							
4. Coil Input: D = Direct Current (Direct Operated)								
<b>5. Coil Voltage:</b> FO = 12VDC, with coil cover HO	= 24VDC, with coil cover							
6. Coil Terminal Location And Markin 1 = Dual 250" (6.35mm) quick conn		ng Diagram	):					

# Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

None at present.

08 = Aluminum box lug (for #4-#14 copper wire) with dual .250" (6.35mm) quick connect per Figure 08

### **Outline Dimensions**



# **Contact Terminal Options**

