



P25 with DC coil

P25 with AC coil

#### **Features**

- AC and DC coils.
- · For controlling motors, power supplies, heating elements and lighting
- · Dust cover available.
- · Auxiliary switch available.

## Contact Data @ 25°C

Arrangements: Up to 3 Form X (3PST-NO-DM).

**Ratings:** See contact rating table. **Material:** Silver-cadmium oxide.

Expected Life: 200,000 operations at full load.

AC coil: 2 million operations, mechanical.

DC coil: 5 million operations, mechanical.

Minimum Contact Load: 3A @ 120VAC.

# Main Contact Ratings @ +25°C, 60 Hz.

	Motor Rating in Amps, 3Ø3P or 1Ø2P				Resistive Rating
Type	Full Load Locked Rotor			(Electric Heat)	
	@ 600V	@ 240V	@ 480V	@ 600V	@ 600V
P25	25A	150A	125A	100A	30A

Motor Rating in Horsepower				
Туре	@ 120V	@ 240V	@ 440-600V	
1Ø2P 3Ø3P	1.5HP 3HP	3HP 7.5HP	— 10НР	

Notes: Models utilizing box lug terminals are restricted to the following ratings: 25 FLA, 150 LRA @ 250VAC; 30A @ 277VAC Resistive; Horsepower ratings shown in the table are

valid up to 240VAC.

Tungsten Lamp Rating: 30A, 277VAC. Electric Discharge Lamp Rating: 30A, 277VAC.

Heavy Duty Pilot Ratings @ 120V through 600V: 720VA max. (Box lug nut

units limited to 277VAC.)

**Auxiliary Snap-Action Switch** 

**Arrangements:** Up to 2 Form C (DPDT). **Rating:** 10 amps at 120VAC, 60 Hz. @ 25°C.

Material: Silver.

# **Initial Dielectric Strength**

**Initial Breakdown Voltage:** 2,200V rms. minimum between all elements and between all elements and ground.

#### Coil Data @ 25°C

**Voltage:** From 6 to 240VDC and 24 to 600VAC, 50/60 Hz. **Power:** DC, 4-8W; AC, 40VA inrush; 10VA, sealed.

Duty Cycle: Continuous.

Insulation Class: Class A, standard. Class B available. Initial Insulation Resistance: 100 megohms, minimum.

# P25 series

# Definite Purpose Magnetic Contactor 25 Ampere Full Load 30 Ampere Resistive AC & DC Coils

**File** E22575

**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**

Nominal VDC	Resistance (Ohms ± 10% @ 25°C)	Must Operate* Volts	Maximum Operating Volts	Nominal Coil Current (ma) @ Nominal Voltage
12	34	9	15	353
24	133	18	30	180

AC Voltage	Nominal		Must Operate	
Rating	60 Hz.	50 Hz.	60 Hz.	50 Hz.
24	24	24	20.4	20.4
120	120	110	102	94
240	208/240	208/220	177	177

Consult factory for other voltages

\*Must operate is 75% of nominal voltage for any mounting position, applicable for vertical or horizontal mounting, but not for upside-down mounting.

\*\*Units requiring less power can be provided for some applications.

Consult factory for details.

**Note:** Coil suppression is recommended for all DC coil units, particularly 120 and 240VDC coils.

## Operate Data @ 25°C

Must-Operate Voltage: See coil data tables

#### **Environmental Data**

Temperature Range: AC: −55°C to +65°C

**DC**:  $-55^{\circ}$ C to  $+55^{\circ}$ C

Contact sales representative for higher

temperature ratings.

# Mechanical Data

Mounting: No. 10 screws on 2.125" (53.98mm) centers or universal

mounting bracket.

Termination:

Contacts: 8-32 screw for No. 16 to No. 8 wire, dual .250" (6.35mm)

quick connect, box lug or captive pressure plate.

Coil: Combination 8-32 screw and .250" (6.35mm) or .187" (4.75mm) quick connect, combination captive pressure plate and .250" (6.35mm) quick connect, or .250" (6.35mm) quick connect.

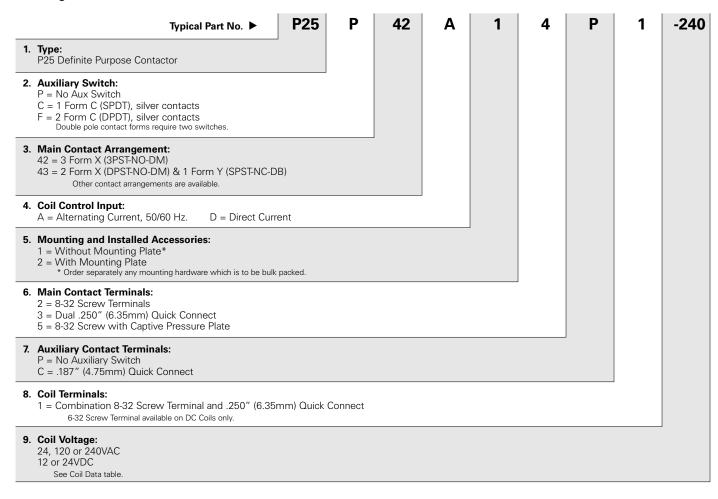
Aux. Switch: .187" (4.75mm) quick connect.

Weight: 14 oz. (397g).

Catalog 1308242 Issued 3-03 (PDF Rev. 5-05)

P&B

**Ordering Information** 



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

P25P42A12P1-120 P25P42A12P1-240 P25P42A22P1-120 P25P42A22P1-240 P25P42D22P1-12

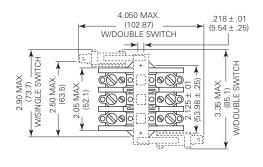
P25P42D22P1-24

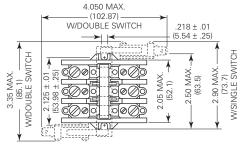
#### **Outline Dimensions**

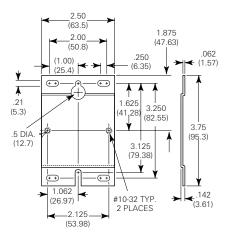
#### P25 With AC Coil

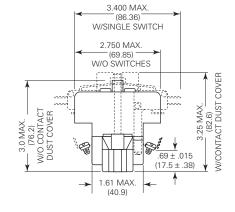
#### P25 With DC Coil

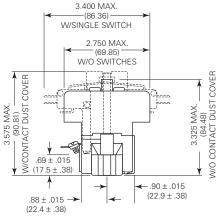
# **Mounting Plate Footprint**



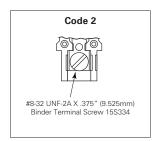


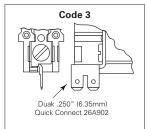


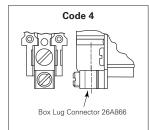


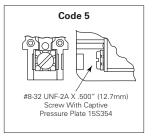


# **Contact Terminal Options**









# **Replacement Parts and Accessories**

#### Contact Replacement Kit - 9P25X1

Contact replacement kit includes 3 contact pressure springs, 3 movable contact assemblies and 6 stationary contact assemblies. Contact replacement kits are for use only on those models with form X contact arrangements.

# Mounting Plate Kit - 9P25X2

Mounting plate kit includes one mounting plate (37B918) and two mounting screws (15J011).

#### Auxiliary Switch Kit for P25 AC Coil Units - 9P25X3

This auxiliary switch kit includes one plastic actuator and one auxiliary switch assembly. It contains no screw. One assembly screw must be removed from the P25 contactor and used to mount the auxiliary switch.

#### Auxiliary Switch Kit for P25 DC Coil Units - 9P25X4

This auxiliary switch kit includes one plastic actuator, one auxiliary switch assembly and one thread cutting screw.