

## P20 Series

# Air Conditioning/Pressure Cutout Control



P20DB-1

## Description

The P20 Series are field replacement high and low pressure controls for non-corrosive refrigerants. They include a dust-tight contact unit with quick connect connectors, and a 36 in. capillary with 1/4 in. sweat section. The set point is screwdriver adjustable.

## Features

- accurate repeatability
- compact size
- trip-free manual reset

## Accessories

- mounting bracket supplied on all models

| Code Number | Description                                                       |
|-------------|-------------------------------------------------------------------|
| 210-604     | Black phenolic resin spring clip snap-on insulated terminal cover |

## Applications

- air conditioning high/low pressure control
- refrigeration high/low pressure control
- head pressure control

## To Order

Specify the code number from the following selection chart.

## Electrical Ratings

| Motor Ratings VAC                                 | 120  | 208  | 240  | 277  |
|---------------------------------------------------|------|------|------|------|
| AC Full Load Amp                                  | 16.0 | 9.2  | 8.0  | 7.0  |
| AC Locked Rotor Amp                               | 96.0 | 55.2 | 48.0 | 42.0 |
| SPDT                                              | 16.0 | 16.0 | 16.0 | —    |
| Pilot Duty: 125 VA @ 24 VAC, 720 VA @ 120-277 VAC |      |      |      |      |

## Selection Chart

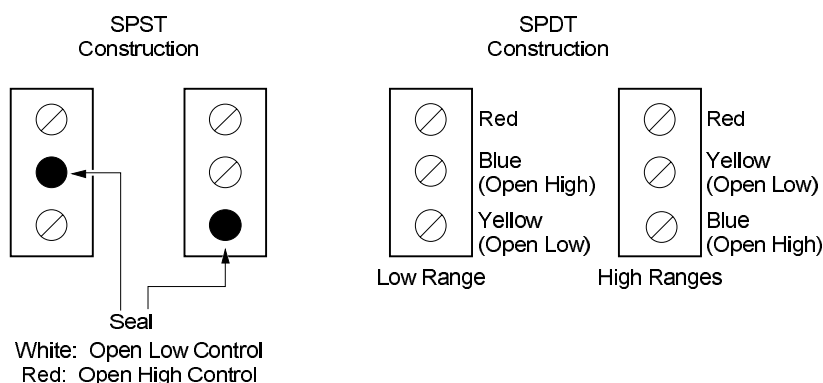
| Code Number               | Maximum Temperature | Switch Action | Range psig (kPa)            | Differential psi (kPa) | Factory Setting – psig (kPa) |               | Max Bellows Pressure psig (kPa) |
|---------------------------|---------------------|---------------|-----------------------------|------------------------|------------------------------|---------------|---------------------------------|
|                           |                     |               |                             |                        | Opens                        | Closes        |                                 |
| ▲ P20BB-1C <sup>(a)</sup> | 140°F               | Open On Fall  | 7 to 150<br>(48 to 1034)    | Manual Reset           | 40<br>(276)                  | Lockout       | 250<br>(1724)                   |
| ▲ P20DB-1C <sup>(b)</sup> |                     | Open On Rise  | 100 to 425<br>(690 to 2930) | Manual Reset           | 400<br>(2758)                | Lockout       | 450<br>(3103)                   |
| ▲ P20EB-1C <sup>(c)</sup> |                     | SPDT          | 7 to 150<br>(48 to 1034)    | 30 (172)<br>Fixed      | 40<br>(276)                  | 70<br>(448)   | 250<br>(1724)                   |
| ▲ P20EB-2C <sup>(d)</sup> |                     | SPDT          | 100 to 425<br>(690 to 2930) | 75 (483)<br>Fixed      | 400<br>(2758)                | 324<br>(2275) | 450<br>(3103)                   |

(a) Replaces Ranco G20-4412; Robertshaw 3126-216, 3160-212

(b) Replaces Ranco G23-5253; Robertshaw 3127-220, 3161-205; Honeywell P430X-1250, 1268, 1292, 1300

(c) Replaces Ranco G20-4050; Robertshaw 3126-116, 3160-012, 3160-014; Honeywell P431X-1092, 1100

(d) Replaces Ranco G23-5052; Robertshaw 3127-140, 3127-414, 3161-009; Honeywell P430X, 1235, 1243, 1276, 1284



Control action is identified by colored sealing compound or terminal markings on switch.

### ▲ Universal Replacement (R) For Refrigerants Not Listed, Contact Application Engineering

The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.

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