SPECIFICATION DATA

FEATURES

- Reverse acting
- In-line mounting; or can be surface or panel mounted with standard 1-1/2 in. diameter cable clamp
- Neoprene diaphragm
- Stainless steel valve seats

GENERAL

The RP972A Pneumatic Reversing Relay is a modulating relay suitable for all types of heating and air conditioning control systems. It is used as a reversing relay to reverse and increase the capacity of the branchline pressure to the final control element.
DESCRIPTION

The RP972A Pneumatic Reversing Relay is a modulating relay suitable for all types of heating and air conditioning control systems. It is used as a reversing relay to reverse and increase the capacity of the branchline pressure to the final control element.

SPECIFICATIONS

Model:
- RP972A Reverse Relay

Action:
- Reverse acting

Output:
- Proportional (branchline pressure decreases with increase in input signal at ratio of 1:1)

Settings:
- B: Output (Port 2) = 16 psi (110 kPa) - Input (Port 3) Factory set
- C: Output = 18 psi (124 kPa) - Input
- A: Output = 13 psi (90 kPa) - Input

Operating Range:
- 0 to 18 psi (0 to 124 kPa)

Maximum Safe Air Pressure:
- 30 psi (207 kPa)

Air Connections:
- Port 1 (Main, Supply): Sharp barb for 1/4-in. (6-mm) O.D. tubing
- Ports 2, 3, and 4 (Branch, Output; Pilot, Input; and Exhaust, respectively): Sharp barb for 5/32-in. (4-mm) O.D. tubing

Dimensions In Inches (Millimeters):

Materials of Construction:
- Neoprene diaphragm
- Stainless steel valve seats

Ambient Temperature Limits:
- 0 to 140°F (-18 to 60°C)

Air Connections:
- Port 1 (Main, Supply): Sharp barb for 1/4-in. (6-mm) O.D. tubing
- Ports 2, 3, and 4 (Branch, Output; Pilot, Input; and Exhaust, respectively): Sharp barb for 5/32-in. (4-mm) O.D. tubing

Air Handling Capacity (Feed and Bleed):
- 0.039 scfm at ±1.02 psi droop (18.3 ml/sec at 7 kPa droop)
- Nominal mainline: 18 psi (124 kPa)
- Input: 9 psi (62 kPa)

Air Consumption:
- 0.002 scfm (1.0 ml/sec) maximum

Filters:
- 100 mesh stainless steel, main and branch ports

Accessories:
- For surface or panel mounting order either:
  - Mounting Clamp—810629S
  - Mounting Clip—14003030-001

Mounting:
- In-line
- Surface or panel using standard 1-1/2 in. dia. mounting clamp or clip

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