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Data Sheet

August 15, 2026

JOHNSON CONTROLS

Johnson Controls P70AB-2 Single Pole Low Pressure Control

Johnson Controls PENN P70AB-2 Low Pressure Control Queue model P70AB-2 is the Johnson Controls / PENN P70 series electromechanical low-pressure control. PENN P70/P72/P170 installation and catalog tables list P70AB-2 as SPST open-low, range 20 in. Hg to 100 psig (minus 68 to 690 kPa), adjustable differential 7 psi (48 kPa) minimum to 50 psi (345 kPa) maximum, 36 inch capillary with 1/4 inch flare nut, maximum overpressure 325 psig (2241 kPa). SPST electrical ratings at 60 Hz: 24.0 FLA / 144 LRA / 24.0 resistive at 120, 208 and 240 VAC; 5.0 FLA / 30 LRA at 480 VAC; 4.8 FLA / 28.8 LRA at 600 VAC; pilot duty 125 VA at 120-600 VAC and 20 VA at 120-300 VDC. All-range models are for non-corrosive refrigerants. Queue model P70AB-2 is the Johnson Controls / PENN P70 series electromechanical low-pressure control. PENN P70/P72/P170 installation and catalog tables list P70AB-2 as SPST open-low, range 20 in. Hg to 100 psig (minus 68 to 690 kPa), adjustable differential 7 psi (48 kPa) minimum to 50 psi (345 kPa) maximum, 36 inch capillary with 1/4 inch flare nut, maximum overpressure 325 psig (2241 kPa). SPST electrical ratings at 60 Hz: 24.0 FLA / 144 LRA / 24.0 resistive at 120, 208 and 240 VAC; 5.0 FLA / 30 LRA at 480 VAC; 4.8 FLA / 28.8 LRA at 600 VAC; pilot duty 125 VA at 120-600 VAC and 20 VA at 120-300 VDC. All-range models are for non-corrosive refrigerants. Refrigeration compressor



MODEL

**Johnson Controls
P70AB-2**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

P70AB-2

LISTING

<https://aumictechlabs.com/products/p70ab-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Johnson Controls P70AB-2 is a single-pole, single-throw (SPST) low-pressure control for commercial refrigeration and air conditioning systems. This open-low switch functions as a low-pressure cut-out, pump-down control, and capacity control - automatically shutting down the system when suction pressure falls below setpoint and restarting when pressure rises above the cut-in point. The all-steel case delivers rugged protection in demanding environments while accommodating a broad pressure range of 20 in. Hg to 100 psig with differential adjustment from 6 psi to 50 psi (minimum 7 psi, maximum 50 psi). A 36-inch capillary tube with 1/4-inch flare nut connects to the pressure source, and sight-set calibrated adjustment provides field configuration. Maximum overpressure rating is 325 psig. Technical Specifications Pressure Range: 20 in. Hg to 100 psig Differential Range: 6 psi to 50 psi (minimum 7 psi, maximum 50 psi) Maximum Overpressure: 325 psig Switch Type: Single Pole, Single Throw (SPST), Open Low Pressure Connector: 36-inch capillary with 1/4-inch flare nut Adjustment Method: Sight-set calibrated pressure adjustment; limited knob adjustment on select models Construction: All-steel case and cover Electrical Specifications 120 VAC: 18.7 A FLA, 120 A LRA; Pilot Duty 125 VA 208 VAC: 16.0 A FLA, 96.0 A LRA, 16.0 A non-inductive; Pilot Duty 125 VA 240 VAC: 9.2 A FLA, 55.2 A LRA, 9.2 A non-inductive; Pilot Duty 125 VA 208/240 VAC: 8.0 A FLA, 48.0 A LRA, 8.0 A non-inductive Pilot Duty: 125 VA at 120–600 VAC; 57.5 VA at 120–300 VDC Key Features Compressor protection via automatic shutdown below setpoint Sight-set calibration for precise field adjustment Horizontal or vertical mounting on flat surfaces 36-inch capillary tube minimizes installation constraints Typical Applications Commercial refrigeration systems Air conditioning systems Pressure control for air, water, and oil applications Compatibility & Integration Compatible with R-12, R-22, R-134A, R-500, R-502, and other common non-corrosive refrigerants Ammonia-compatible models available Suitable for non-corrosive fluid applications

P70AB Characteristics / Specifications

PARAMETER	VALUE
Model	P70AB-2
Instrument Type	Electromechanical low pressure control
Family	PENN P70 / P72 / P170
Switch Action	SPST open-low
Pressure Range	20 in. Hg to 100 psig (minus 68 to 690 kPa)
Differential Min	7 psi (48 kPa)
Differential Max	50 psi (345 kPa)
Pressure Connection	36 in capillary with 1/4 in flare nut
Maximum Overpressure	325 psig (2241 kPa)
Refrigerant Class	non-corrosive refrigerants (all-range table)
Fla 1	24.0 A at 120 VAC 60 Hz
Fla 2	24.0 A at 208 VAC 60 Hz
Fla 4	5.0 A at 480 VAC 60 Hz
Fla 6	4.8 A at 600 VAC 60 Hz
Lra 1	144 A at 120 VAC
Lra 2	144 A at 240 VAC
Lra 4	30 A at 480 VAC
Lra 6	28.8 A at 600 VAC
Resistive 2	24.0 A at 120/208/240 VAC
Pilot Duty Ac	125 VA at 120 to 600 VAC
Pilot Duty Dc	20 VA at 120 to 300 VDC
Cut Out	opens line to M1 on low event (P70A/B class)
Cut In	closes line to M1 on high event (P70A/B class)
Manufacturer	Johnson Controls / PENN

PARAMETER

VALUE

Literature

PENN P70, P72 and P170 low pressure controls installation guide and catalog page

P70AB Specifications

PARAMETER	VALUE
Applications	Refrigeration compressor low-pressure cut-out, pump-down, and commercial HVAC pressure interlocking.
Key Features	SPST open-low PENN P70 pressure control
Adjustable 7 to 50 psi differential	36 inch capillary with 1/4 inch flare
Technical Specifications	Model: P70AB-2

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
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Model	P70AB-2
Instrument Type	Electromechanical low pressure control
Family	PENN P70 / P72 / P170
Switch Action	SPST open-low
Pressure Range	20 in. Hg to 100 psig (minus 68 to 690 kPa)
Differential Min	7 psi (48 kPa)
Differential Max	50 psi (345 kPa)
Pressure Connection	36 in capillary with 1/4 in flare nut
Maximum Overpressure	325 psig (2241 kPa)
Refrigerant Class	non-corrosive refrigerants (all-range table)
Fla 120	24.0 A at 120 VAC 60 Hz
Fla 208	24.0 A at 208 VAC 60 Hz
Fla 240	24.0 A at 240 VAC 60 Hz
Fla 480	5.0 A at 480 VAC 60 Hz
Fla 600	4.8 A at 600 VAC 60 Hz
Lra 120	144 A at 120 VAC
Lra 240	144 A at 240 VAC
Lra 480	30 A at 480 VAC
Lra 600	28.8 A at 600 VAC
Resistive 240	24.0 A at 120/208/240 VAC
Pilot Duty Ac	125 VA at 120 to 600 VAC
Pilot Duty Dc	20 VA at 120 to 300 VDC
Cut Out	opens line to M1 on low event (P70A/B class)
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Manufacturer	Johnson Controls / PENN

PARAMETER	VALUE
Literature	PENN P70, P72 and P170 low pressure controls installation guide and catalog page

Notes

From Johnson Controls / PENN P70AB-2 rows in the P70/P72/P170 low-pressure installation guide and SPST electrical rating table. MICRO-SET 12 in. Hg to 80 psig figures belong on P70AB-12, not P70AB-2.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.