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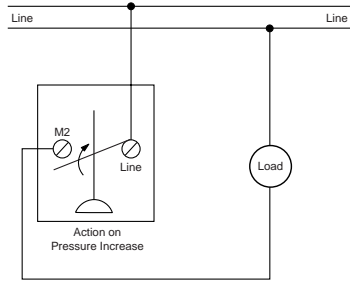
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P70 Series

# Single Pole Low Pressure Control



**P70AB-2**



**P70A Wiring Diagram**

## Description

This P70 Series of controls employs a set of switch contacts that are opened and closed by the movement of pressure actuated bellows. The load-carrying contacts provide direct control of AC motors within the control rating. Note the electrical rating chart for specific models. These controls are available with either close high–open low, open high–close low, or SPDT contact action.

## Features

- full adjustability through all pressure ranges
- minimum differential
- long life contact structure...no bounce on make

## Accessories

- includes a universal mounting bracket.

## Applications

- air conditioning and refrigeration applications
- control of air, water, and oil pressure

## To Order

Specify the code number from the following selection chart. Also, refer to *P170 Series Single Pole Low Pressure Control*.

## Selection Chart

Code Number	Switch Action	Range psig (kPa)	Differential psi (kPa)	Pressure Connector	Limited Knob Adjustment	Max. Bellows Overrun Pressure psig (kPa)
<b>MICRO-SET™ FOR R-12, R-22, R134A, R-500, R-502 (R)</b>						
▲ P70AB-12C	Close High Open Low	12 in. to 80 (-40 to 551)	Min 5 (34) Max 35 (241)	36 in. Cap. with 1/4 in. Flare Nut	Cut-out (a)	525 (3620)
<b>"ALL RANGE" FOR R-12, R-22, R134A, R-500, R-502 (R)</b>						
▲ P70AA-1C	Close High Open Low	20 in. to 100 (-68 to 690)	Min 7 (48) Max 50 (345)	36 in. Cap. with 1/4 in. Flare Nut	None	325 (2241)
▲ P70AB-1C				1/4 in. Male Flared Conn.	Cut-out (a)	
▲ P70AB-2C				36 in. Cap. with 1/4 in. Flare Nut	Cut-out (a)	
▲ P70CA-1C	Open High Close Low			36 in. Cap. with 1/4 in. Flare Nut	None	
P70EA-10C	SPDT		5 (34) Fixed	1/4 in. Male Flared Conn.	None	
<b>FOR AMMONIA</b>						
P70AA-5C	Close High Open Low	20 in. to 100 (-68 to 690)	Min 7 (48) Max 50 (345)	1/4 in. Female NPT	None	325 (2241)
P70CA-4C	Open High Close Low					

(a) Adjusting knob supplied on differential (cut-out setting) to limit adjustments to 5 psi (34 kPa) above or below normal setting.

## Cross Reference

Ranco	JCI/PENN
010-1483	P70AA-1
010-1831	P70AB-1
010-1402	P70AB-12
010-1483	P70AB-2
010-1842	P70AB-12
010-2054	P70AA-118
011-1711	P70CA-3

## SPST Electrical Ratings (P70A and P70C models)

	Standard Single-Phase Ratings			Hermetic Compressor Single-Phase Ratings 208/240 VAC
	120 VAC	208 VAC	240 VAC	
Motor Horsepower	1.5	3	3	—
Motor Full-Load Amp	20	18.7	17	20
Motor Locked-Rotor Amp	120	112.2	102	120
Non-Inductive Amp	22	22	22	—
Pilot Duty	125 VA at 120 to 600 VAC; 57.5 VA at 120 to 300 VDC			

## SPDT Electrical Ratings (P70E models)

	Standard Single-Phase Ratings		
	120 VAC	208 VAC	240 VAC
Motor Full-Load Amp	16.0	9.2	8.0
Motor Locked-Rotor Amp	96.0	55.2	48.0
Non-Inductive Amp	16.0	9.2	8.0
Pilot Duty	125 VA at 120 to 600 VAC		

▲ Universal Replacement ★ Non-Stock Item. Built to Order. (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. © 02/00 Johnson Controls, Inc



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