

P72 Series

Two Pole Dual Pressure Control



P72LB-1

Description

The P72 Series of controls employs a DPST switch, which is opened when either the high or low pressure beyond the control settings is sensed at the control's two bellows sensing elements. The heavy duty load-carrying contacts provide direct control of motors having integral line-interrupting overload protectors up to three horsepower. See Electrical Ratings below. Starter is unnecessary. Primarily used on air-conditioning and refrigeration applications but also used to control air, water, glycol, and lube oil pressure.

Features

- full adjustability for all non-corrosive refrigerant pressure applications
- adjustable differential meets the most demanding applications
- direct reading scale

Accessories

- Includes universal mounting bracket.

Application Advantages

- control of polyphase motors without use of magnetic starters where protection against overloading and single phasing is otherwise provided
- two separate control circuits necessary for the control of multiple systems
- one set of contacts break the "hot" line when wired as a two pole switch in single phase circuits
- control of two separate load circuits
- automatic control of heavy electrical loads

Specifications

Note the selection chart below. Electrical ratings are the same as P72 Series Two Pole High Pressure.

To Order

Specify the code number from the following selection chart.

Selection Chart

Code Number		Switch Action	Low Pressure psig (kPa)		High Pressure psig (kPa)		Pressure Connector	Knob Adj.	Maximum Bellows Overrun Pressure psig (kPa)
			Range	Diff	Range	Diff (Non-Adj)			
ALL-RANGE FOR R-12, R-22, R134A, R-500, R-502 (R)									
P72LA-1C	DPST	20 in. to 100 (-68 to 690)	Min 7 (41) Max 50 (345)	100 to 500 (690 to 3447)	Under 300 psig, 55 psi Over 300 psig, 65 psi	36 in. Cap. with 1/4 in. Flare Nut	None	325 Low, (2241) 525 High (3620)	
P72LB-1C					Under 300 psig, 55 psi Over 300 psig, 65 psi		Yes ^(a)		
P72MA-1C					Lockout (Requires Manual Reset)		None		
P72NA-1C			Lockout (Requires Manual Reset)		None				

(a) Knob supplied on differential adjustment of Code Number P72LB-1 (low side) to limit adjustment 5 psi (34 kPa) above or below setting.

DPST Electrical Ratings (P72L, P72M, and P72N models)

	Standard Single-Phase Ratings					Hermetic Compressor Single-Phase Ratings	
	120 VAC 1Ø	208 VAC 1Ø	240 VAC 1Ø	208 VAC 3Ø	220 VAC 3Ø	208 VAC 1Ø	240 VAC 1Ø
Motor Horsepower	2	3	3	5	5	—	—
Motor Full-Load Amp	24	18.7	17	15.9	15	24	24
Motor Locked-Rotor Amp	144	112.2	102	95.4	90	144	144
AC Non-Inductive Amp	24	24	24	24	24	—	—
DC Non-Inductive Amp	3	0.5	0.5	0.5	0.5	—	—
Pilot Duty	125 VA at 120 to 600 VAC; 57.5 VA at 120 to 300 VDC						