

P170

High Pressure Cutout Control (With Alarm Circuit)



P170KA

Description

This control has two sets of contacts. The main set of contacts controls the main load, and the auxiliary contact simultaneously actuates a signal or auxiliary circuit. The main contacts (Line-M2) open-high/close-low. The electrical contacts operate from a pressure sensing element. The load-carrying contacts provide direct control of the AC motor within the control's electrical rating. (See P170 electrical rating chart.)

Accessories

All controls listed on this page include a universal mounting bracket.

Features

- full adjustability throughout the pressure range
- long life contact structure, no bounce on make
- manual reset models are "trip-free"

Applications

- air conditioning and refrigeration applications
- can be used with all non-corrosive refrigerants
- control of air, water, and oil pressure

Specifications

Note product selection chart below.

To Order

Specify the code number from the following selection chart. Also refer to *P70 High Pressure Cut-out Control (With Alarm Circuit)*.

Selection Chart (R)

Code Number	Switch Action	Range psig (kPa)	Differential psi (kPa)	Pressure Connector	Max Bellows Overrun Pressure psig (kPa)
▲ P170KA-1C ^(a)	L-M1 Close High, L-M2 Open High 4-wire, 2-circuit	Min 50 (500) Max 345 (3448)	Lockout (Requires Manual Reset After Cutout)	1/4 in. Male Flared Conn.	525 (3620)

(a) Replacement for P70KA-1*. Replaces Ranco 016-200.

* Refrigerant hose must be ordered separately.

4-Wire, 2-Circuit Electrical Ratings (P170K models)

	Standard Single-Phase Ratings							
	LINE-M2 (Main Contacts)				LINE-M1 (Auxiliary Contacts)			
	120 VAC	208 VAC	240 VAC	277 VAC	120 VAC	208 VAC	240 VAC	277 VAC
Motor Full-Load Amp	16.0	9.2	8.0	—	6.0	3.3	3.0	—
Motor Locked-Rotor Amp	96.0	55.2	48.0	—	36.0	19.8	18.0	—
Non-Inductive Amp	16.0	9.2	8.0	7.2	6.0	6.0	6.0	6.0
Pilot Duty (for both sets of contacts)	125 VA at 24 to 600 VAC; 57.5 VA at 120 to 300 VDC							

▲ 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.

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