



P100 Series Encapsulated Pressure Switches

Description

P100 Series switches are encapsulated, nonadjustable, single-pole, single-throw (SPST), direct-mount switches for use with non-corrosive refrigerants. The switches are available with automatic reset in both open low and open high configurations and manual reset with open high action.

Refer to the *P100 Series Encapsulated Pressure Controls Product Bulletin (LIT-121485)* for important product application information.

Features

- compact size and light weight allow for direct mounting
- trip-free manual reset (manual reset models); contacts cannot be overridden by continued depression of the reset button

- use with all non-corrosive refrigerants
- encapsulated switch, dust tight
- 1/4 in. Internal flare fitting with built-in Schrader type depressor is standard
- electrical connections are made to 48 in. leads

Applications

- low limit, high limit, and fan cycling control in commercial refrigeration
- ice machines
- food service equipment

Repair Information

If the P100 Series Encapsulated Pressure Switches fails to operate within its specifications, replace the unit. For a replacement switch, contact the nearest Johnson Controls® representative.



P100 Series Encapsulated Pressure Switch

Technical Specifications

Standard Duty Electrical Contact Ratings

Switch Action-Model Numbers	SPST-P100AA, AC, AG, AJ, CA, CC, CG, CJ, DA, and DC		SPST-P100AP, CP	
	120V	240V	120V	240V
Motor Ratings				
AC Full Load Ampere	5.8	2.9	6.0	6.0
AC Locked Rotor Ampere	34.8	15.0	36.0	36.0
Non-Inductive Ampere	-	-	-	-
Inductive Ampere	-	-	-	-
Pilot Duty	375 VA		375 VA	

Heavy Duty Electrical Contact Ratings

Switch Action-Model Numbers	SPST-P100AE and CE				SPDT-P100EE			
	120V		240V		120V		240V	
Contact Type	N.O.	N.C.	N.O.	N.C.	N.O.	N.C.	N.O.	N.C.
AC Full Load Ampere	13.0	13.0	10.0	10.0	5.8	13.0	2.9	10.0
AC Locked Rotor Ampere	65.0	60.0	45.0	45.0	34.8	60.0	17.4	45.0
Non-Inductive Ampere	13.0	25.0	10.0	25.0	10.0	25.0	5.0	25.0
Inductive Ampere	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Pilot Duty	278 VA	125 VA	278 VA	125 VA	278 VA	125 VA	278 VA	125 VA

P100 Series Encapsulated Pressure Switches (Continued)

Selection Chart (Part 3 of 3)

Product Code Number	Switch Action	Setpoints - psig (kPa)		Replaces:								
		Opens	Closes	Ranco®	Robertshaw®	Saginomiya	Danfoss®	Klixon®	Supco	Wilspec	International Refrigeration Products	Gemline
P100DA-35C	Open on Pressure Rise	350 (2,413)	Lockout Manual Reset	-	-	ACBPC45M	-	-	-	-	-	-
P100DC-3C ³		375 (2,586)	Lockout Manual Reset	-	-	-	-	-	-	-	SMR375	-
P100DA-1C		410 (2,827)	Lockout Manual Reset	-	3100-103	ACBPB115M	-	29PSL012-24	SMR410	HM202A410000D	SMR410	PC 103
P100DA-100C		415 (2,859)	Lockout Manual Reset	-	3100-103	-	-	29PSL004-1	-	HM202A415000D	SMR410	-
P100DA-101C		440 (3,032)	Lockout Manual Reset	-	-	-	-	-	SMR440	-	SMR440	-
P100DA-2C		475 (3,275)	Lockout Manual Reset	-	3100-106	-	-	-	-	HM202A475000D	-	-
P100DA-86C		575 (3,964)	Lockout Manual Reset	-	-	-	-	-	SMR575	-	-	-
P100DA-81C		630 (4,343)	Lockout Manual Reset	-	-	-	-	-	SMR630	-	-	-

1. Models are designed for condenser fan cycling.
2. Includes conduit clamp for 3/8 in. flexible metal conduit.
3. Includes conduit box with opening for 1/2 in. conduit connector.