

## **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	· · · · _	J, CA, CC, CG, CJ, DA, and DC	SPST-P100AP, CP		
Motor Ratings	120V	240V	120V	240V	
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-P100	AE and CE			SPDT-I	P100EE	
Motor Ratings	12	120V 240V		12	:0V	24	0V	
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)

Setpoints - psig (KPa)     Robert- shaw®     Saginomiya     Danfoss®     Klixon®     Supco       350 2,413)     Lockout Manual     -     -     ACBPC45M     -     -       2,586)     Reset Manual     -     -     -     -     -       2,856)     Reset Reset     -     -     -     -     -       2,856)     Reset Reset     -     -     -     -     -       2,856)     Reset Manual     -     -     -     -     -       2,857)     Reset Manual     -     -     -     -     -       3,022)     Reset Manual     -     -     -     -     -       3,025)     Reset Manual     -     -     -     -     -       3,047     Reset Manual     -     -     -     -     -       5,264     Manual     -     -     -     -     -       8,964     Manual     -     -     -     -     -	Selection Chart (Part 3 of 3)	t (Part 3 of	3)										
Copens   Closes   Ranco® shaw®   Saginomiya   Danfoss®   Klixon® Supco shaw®   Supco shaw shawal   C.4.413   Reset   C.4.413   Reset   C.4.850   Reset   C.2.850   C.2.850   Reset   C.2.850   C.2.850   Reset   C.2.850   C.2.850   C.2.850   Reset   C.2.850   C	Product Code Number	Switch Action	Setpoin (kF	ts - psig a)					Replaces:				
1950   Lockout   Seset   Ses			Opens	Closes	Ranco®	Robert- shaw®	Saginomiya	Danfoss®	Klixon®	Supco	Wilspec	International Refrigeration Products	Gemline
375   Lockout   C.586  Reset   Lockout   C.586  Reset   C.586  Reset   C.586  Reset   C.586  Reset   C.585  R	P100DA-35C		350 (2,413)	Lockout Manual Reset	•		ACBPC45M	•	•				
Harbor   C2,827  Reset   Reset   Sino-103   ACBPB115M   Signal	P100DC-3C <sup>3</sup>		375 (2,586)	Lockout Manual Reset				•	•	•		SMR375	
1	P100DA-1C		410 (2,827)	Lockout Manual Reset	•	3100-103	ACBPB115M	•	29PSL012-24	SMR410	HM202A410000D	SMR410	PC 103
Rise   440   Lockout   Rise   3,032   Reset	P100DA-100C	Open on	415 (2,859)	Lockout Manual Reset		3100-103			29PSL004-1		HM202A415000D	SMR410	
475   Lockout (3,275)   Reset (3,964)   Reset	P100DA-101C	Rise	440 (3,032)	Lockout Manual Reset						SMR440		SMR440	
575 Lockout	P100DA-2C		475 (3,275)	Lockout Manual Reset		3100-106		•	•		HM202A475000D		
630 Lockout	P100DA-86C		575 (3,964)	Lockout Manual Reset						SMR575			
	P100DA-81C		630 (4,343)	Lockout Manual Reset						SMR630	,		

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

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