



# 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	
Motor Ratings								
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

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. © 2015 Johnson Controls, Inc. [www.johnsoncontrols.com](http://www.johnsoncontrols.com)



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**P100 Series Encapsulated Pressure Switches (Continued)**

Product Code Number	Setpoints - psig (kPa)		Replaces:								
	Opens	Closes	Ranco®	Robertshaw®	Saginomiya	Danfoss®	Klixon®	Supco	Wilspec	International Refrigeration Products	Gemline
P100AC-1C <sup>2</sup>	5 (34)	20 (138)	MPL-7001	-	ACB-2UA318W	-	PS80-K2-F0305-020-005	SLP0520	HR201A020005D	SLP0520	-
P100AP-354C	5 (34)	30 (207)	-	3100-002	-	-	-	SLP0530	-	-	-
P100AP-15C	10 (69)	25 (172)	HR00011A1R702	3100-050	ACB-2UA97W	061F7523	PS80-K2-F0307-025-005	SLP1025	HR201A025010D	SLP1025	-
P100AP-201C	10 (69)	32 (221)	MPL-7011	3100-050	ACB-2UA101	-	-	SLP1032	-	SLP1032	-
P100AC-2C <sup>2</sup>	15 (103)	30 (207)	MPL-7002	-	-	-	-	-	-	-	-
P100AP-356C	20 (138)	45 (310)	-	3100-003	ACB-2UA40W	-	-	SLP2045	-	-	-
P100AP-12C	25 (172)	50 (345)	-	-	ACB-2UA143	-	PS80-K2-F0316-050-005	SLP2550	HR201A050025D	SLP2550	-
P100AP-9C	25 (172)	80 (551)	MPL-7003	3101-003	-	-	PS80-K2-F0325-080-005	SLP2580	HR201A080025D	SLP2580	-
P100AP-105C	30 (207)	60 (413)	-	3100-004	ACB-2UA94	-	-	-	-	SLP3560	-
P100AP-2C	35 (241)	60 (414)	MPL-7004	3100-004	-	-	-	SLP3560	-	SLP3560	-
P100AP-10C	40 (276)	60 (413)	HR00011A1R704	-	-	-	-	-	-	-	-
P100AP-357C	40 (276)	80 (551)	-	3100-052	ACB-2UA354W	-	PS80-K2-F0326-080-005	SLP4080	HR201A080040D	SLP4080	-
P100AP-361C	50 (345)	90 (620)	-	-	-	-	PS80-KS-F0328-090-005	SLP5090	HR201A090050D	SLP5090	-
P100AP-358C	75 (517)	100 (689)	-	-	ACB-2UA441W	-	-	-	-	SLP75100	-
P100AP-351C <sup>1</sup>	75 (517)	120 (827)	-	-	-	-	-	SFC75120	-	-	-
P100AP-352C <sup>1</sup>	110 (758)	170 (1,171)	-	-	-	-	-	SFC110170	-	-	-
P100AP-353C <sup>1</sup>	126 (868)	264 (1,819)	-	-	-	-	-	SFC125265	-	-	-
P100AP-3C <sup>1</sup>	150 (1,034)	225 (1,551)	MPF-7008	-	ACB-2UA685W	-	-	SFC150225	-	-	-
P100AP-359C <sup>1</sup>	165 (1,137)	215 (1,481)	-	3100-215	ACB-2UA48W	-	-	-	-	-	-
P100AP-4C <sup>1</sup>	170 (1,172)	250 (1,724)	-	-	ACB-2UA631W	-	-	SFC170250	-	-	-
P100AP-362C <sup>1</sup>	195 (1,344)	240 (1,654)	-	3100-080	-	-	-	-	-	-	-
P100AP-200C <sup>1</sup>	195 (1,344)	275 (1,895)	-	-	-	-	-	-	-	-	-

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