



P47 Series Steam Pressure Limit Control Catalog Page

Description

The P47 Controls are available with single-pole, single-throw (SPST), double-pole, single-throw (DPST), or four-wire, two-circuit contacts for line voltage or low voltage. The pressure connector is 1/4 in. external NPT (0 to 15 psi only) or 1/4 in. internal NPT (for all other ranges).

Refer to the *P47 Series Steam Pressure Controls Product Bulletin (LIT-125450)* for important product application information.

Features

- long-life contact structure with high contact force
- easy-to-adjust single sight set scales show both cut-in and cut-out settings

Applications

P47 steam pressure controls are designed for high limit or operating control applications. A typical use is as a limit control on steam heating systems. Models that close on a pressure increase are used on steam unit heaters to avoid blower operation when steam pressure is below the point required for adequate heating. The P47 can be used with steam, water, air, or noncombustible gases that do not harm iron or copper.

Accessories

The Part No. **TBG16A-600** Siphon is supplied with all controls except models with 0 to 15 psi range.



P47AA-1 Steam Pressure Limit Control

Selection Chart

Product Code Number	Switch Action	Range psi (kPa)	Diff psi (kPa)		Max. Over-pressure psig (kPa)
			Min.	Max.	
Contacts Open On Rise – Automatic Reset					
P47AA-1C	SPST	0 to 15 (0 to 103)	2 (14)	8 (55)	50 (345)
P47AA-4C		20 in. Hg to 50 (-68 to 345)	5 (34)	35 (241)	180 (1,241)
P47AA-13C		0 to 150 (0 to 1,034)	12 (83)	50 (345)	325 (2,241)
Contacts Close On Rise – Automatic Reset					
P47BA-1C	SPST	0 to 15 (0 to 103)	2 (14)	8 (55)	50 (345)
P47BA-6C		0 to 150 (0 to 1,034)	12 (83)	50 (345)	325 (2,241)
Four-Wire, Two Circuit ¹ – Automatic Reset					
P47GA-9C ¹	Main open high; Auxiliary open low	0 to 150 (0 to 1,034)	12 (83)	50 (345)	325 (2,241)
P47AB-3C	SPST	50 to 240 (345 to 1,655)	Manual reset		300 (2,069)
P47EA-1C	SPDT	50 to 240 (345 to 1,655)	10 (69) Fixed		300 (2,069)

1. The main contacts (Line-M2) open on rise, as the auxiliary contacts (Line-M1) close.

Technical Specifications

Electrical Ratings for P47AA, P47AB, and P47BA

Motor Ratings VAC	120	208	240	277
AC Full Load A	16.0	9.2	8.0	–
AC Locked Rotor A	96.0	55.2	48.0	–
AC Non-Inductive A	16.0	16.0	16.0	16.0
Pilot Duty	125 VA, 120 to 600 VAC; 57.5 VA, 120 to 300 VDC			

Electrical Ratings for P47EA

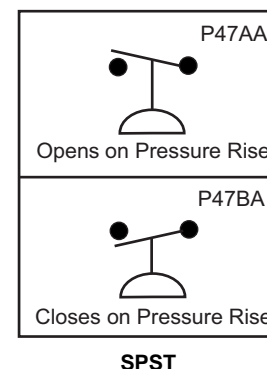
Motor Ratings VAC	120	208	240	277
AC Full Load A	16.0	9.2	8.0	–
AC Locked Rotor A	96.0	55.2	48.0	–
AC Non-Inductive A	16.0	10.0	10.0	10.0
Pilot Duty	125 VA, 120 to 227 VAC			

Electrical Ratings for P47GA

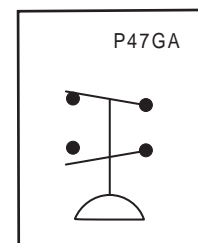
Pole Number	Line-M2 (Main)				Line-M1 (Auxiliary)			
Motor Ratings VAC	120	208	240	277	120	208	240	277
AC Full Load A	16.0	9.2	8.0	–	6.0	3.3	3.0	–
AC Locked Rotor A	96.0	55.2	48.0	–	36.0	19.8	18.0	–
AC Non-Inductive A	16.0	9.2	8.0	7.2	6.0	6.0	6.0	6.0
Pilot Duty: Both Poles	125 VA, 120 to 600 VAC; 57.5 VA, 120 to 300 VDC							

Repair Information

If the P47 Series Steam Pressure Limit Control fails to operate within its specifications, replace the unit. For a replacement control, contact the nearest Johnson Controls® representative.



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p47ga_2.eps