

P47 Series

Steam Pressure Limit Control

Description

The P47 controls are available with SPST, DPST, or 4-wire, two-circuit contacts for line voltage or low voltage. The pressure connector is 1/4 in. male NPT (0-15 psig only) or 1/4 in. female NPT (for all other ranges).

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-600R** Siphon is supplied with all controls except models with 0 to 15 psig range.



P47AA-1

Selection Chart

| Code Number | Switch Action | Range psig (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 (1241) |
| P47AA-13C | | 0 to 150 (0 to 1034) | 12 (83) | 50 (345) | 325 (2241) |
| 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 1034) | 12 (83) | 50 (345) | 325 (2241) |
| 4-Wire Two Circuit¹ – Automatic Reset | | | | | |
| P47GA-9C ¹ | Main Open High; Auxiliary Open Low | 0 to 150 (0 to 1034) | 12 (83) | 50 (345) | 325 (2241) |
| P47AB-3C | SPST | 50 to 240 (345 to 1655) | Manual Reset | | 300 (2069) |
| P47EA-1C | SPDT | 50 to 240 (345 to 1655) | 10 (69) Fixed | | 300 (2069) |

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

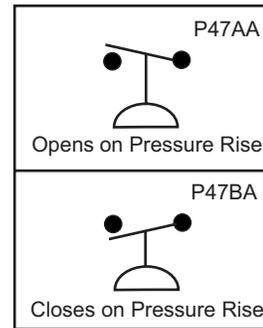
| Motor Ratings VAC | 120 | 208 | 240 | 277 |
|--|------|------|------|------|
| AC Full Load A | 16.0 | 9.2 | 8.0 | – |
| AC Locked Rotor A | 96.0 | 55.2 | 48.0 | – |
| AC Non-Inductive A | 16.0 | 16.0 | 16.0 | 16.0 |
| Pilot Duty – 125 VA, 120 to 600 VAC; 57.5 VA, 120 to 300 VDC | | | | |

Electrical Ratings for P47EA

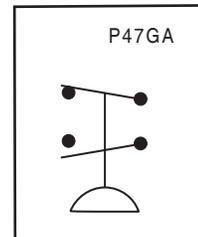
| Motor Ratings VAC | 120 | 208 | 240 | 277 |
|-------------------------------------|------|------|------|------|
| AC Full Load A | 16.0 | 9.2 | 8.0 | – |
| AC Locked Rotor A | 96.0 | 55.2 | 48.0 | – |
| AC Non-Inductive A | 16.0 | 10.0 | 10.0 | 10.0 |
| Pilot Duty – 125 VA, 120 to 277 VAC | | | | |

Electrical Ratings for P47GA

| Pole Number | Line-M2 (Main) | | | | Line-M1 (Auxiliary) | | | |
|--|----------------|------|------|-----|---------------------|------|------|-----|
| | 120 | 208 | 240 | 277 | 120 | 208 | 240 | 277 |
| 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 | | | | | | | | |



p47ga_1.eps



p47ga_2.eps