

A19 Series

Remote Bulb Control

Description

The A19 Series are single-stage temperature controls that incorporate environmentally friendly liquid-filled sensing elements.

Features

- wide temperature ranges available
- constant differential throughout the entire
- range
- compact enclosure
- fixed or adjustable differential available
- variety of sensing element styles
- unaffected by cross-ambient conditions

Applications

The A19 is suitable for temperature control in heating, ventilating, air conditioning, and refrigeration.

Selection Charts

A19 Series Remote Bulb Control¹



Action on Increase of Temperature

A19 Series Terminal Arrangement for SPDT

a19.eps



A19ABC-24

| Code Number | Switch Action | Range °F (°C) | Diff F° (C°) | Bulb and Capillary | Bulb Well No. (order separately) | Range Adjuster | Max. Bulb Temp. °F (°C) |
|-------------------------|-------------------|--|------------------------|------------------------------------|--|-------------------|----------------------------|
| | | | Adjustable Diffe | rential (Wide Range) | | | |
| A19ABA-40C ² | SPST Open Low | -30 to 100 (-34 to 38) | 3 to 12 (1.7 to 6.7) | 3/8 in. x 4 in., 6 ft. Cap. | WEL14A-602R | Screwdriver Slot | 140 (60) |
| A19ABC-4C | SPDT | 50 to 130 (10 to 55) | 3 1/2 to 14 (1.9 to 8) | 3/8 in. x 5 in., 8 ft. Cap. | WEL14A-603R | Knob | 170 (77) |
| A19ABC-24C ³ | SPDT | -30 to 100 (-34 to 38) | 3 to 12 (1.7 to 6.7) | 3/8 in. x 4 in., 8 ft. Cap. | WEL14A-602R | Convertible | 140 (60) |
| A19ABC-36C | SPDT | -30 to 100 (-34 to 38) | 3 to 12 (1.7 to 6.7) | 3/8 in. x 4 in., 20 ft. Cap. | WEL14A-602R | Convertible | 140 (60) |
| A19ABC-37C | SPDT | -30 to 100 (-34 to 38) | 3 to 12 (1.7 to 6.7) | 3/8 in. x 4 in., 10 ft. Cap. | WEL14A-602R | Screwdriver slot | 140 (60) |
| A19ABC-74C | SPDT | -30 to 100 (-34 to 38) | 3 to 12 (1.7 to 6.7) | 3/8 in. x 4 in., 6 ft. Cap. | WEL14A-602R | Screwdriver slot | 140 (60) |
| | | | Fixed [| Differential | | | |
| A19AAF-12C | SPDT | 25 to 225 (-4 to 107) | 3 1/2 (1.9) | 3/8 in. x 3 in., 10 ft. Cap. | WEL14A-602R | Screwdriver slot | 275 (135) |
| | | | Fixed Differential | (Case Compensated) | | | |
| A19AAC-4C | SPDT | 0 to 80 (-18 to 27) | 5 (2.8) | 3/8 in. x 4 in., 6 ft. Cap. | WEL14A-602R | Screwdriver slot | 140 (60) |
| A19AAD-12C | SPST Open Low | -30 to 50 (-34 to 10) | 2 1/2 (1.4) | 3/8 in. x 4 in., 7 ft. Cap. | WEL14A-602R | Screwdriver slot | 140 (60) |
| | | | Fixed Diffe | rential (Close) | | | • |
| A19AAD-5C ⁴ | SPST Open Low | 30 to 50 (-1 to 10) (Bulk Milk Cooler) | 2 1/2 (1.4) | 3/8 in. x 2 5/8 in., 6 ft. Cap. | WEL16A-601R | Screwdriver slot | 190 (88) |
| A19AAF-20C | SPDT | -30 to 100 (-34 to 38) | 2 1/2 (1.4) | 3/8 in. x 4 in., 6 ft. Cap. | WEL14A-602R | Screwdriver slot | 140 (60) |
| A19AAF-21C | SPDT | 40 to 90 (4 to 32) | 1 1/2 (0.8) | 3/8 in. x 5 3/4 in., 6 ft. Cap. | WEL14A-603R | Screwdriver slot | 140 (60) |
| | | | Manu | al Reset | | | |
| A19ACA-14C | SPST Open Low | -30 to 100 (-34 to 38) | Manual Reset | 3/8 in. x 4 in. 6 ft .Cap. | WEL14A-602R | Screwdriver slot | 140 (60) |
| A19ACA-15C | SPST Open Low | -30 to 100 (-34 to 38) | Manual Reset | 3/8 in. x 4 in. 10 ft. Cap. | WEL14A-602R | Screwdriver slot | 140 (60) |
| A19ADB-1C | SPST Open High | 100 to 240 (38 to 116) | Manual Reset | 3/8 in. x 3 1/2 in. 6 ft. Cap. | WEL14A-602R | Knob | 290 (143) |
| A19ADN-1C | SPST Open High | 100 to 240 (38 to 116) | Manual Reset | 3/8 in. x 4 in. 6 ft. Cap. | WEL14A-602R | Screwdriver slot | 290 (143) |

1. Specify the control model code number, packing nut code number (if required), and bulb well code number (if required).

2. Replaces White-Rodgers 1609-101

3. Replaces White-Rodgers 1609-12, -13; Ranco 010-1408, -1409, - 1410, -1490, 060-110; Honeywell L6018C-1006, L6021A-1005, T675A-1011, -1508, -1516, -1821, T4301A-1008, T6031A-1011, T6031A-1029

4. Case-Compensated

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Remote Bulb Control (Continued)

Selection Charts (Continued)

| Replacement Parts | | |
|-------------------|----------------------------|--|
| Code Number | Description | |
| CVR28A-617R | Concealed adjustment cover | |
| CVR28A-618R | Visible scale cover | |
| KNB20A-602R | Replacement Knob Kit | |

Accessories

A packing nut is available for closed tank application. Specify the part number **FTG13A-600R**.

Bulb wells (WEL14A Series) are available for liquid immersion applications. Refer to the selection chart or to *Bulb Wells Catalog Page, LIT-1922135*.

Technical Specifications

| Motor Ratings VAC | 120 | 208 | 240 |
|--|----------------------|--------------------|-------------|
| | Wide Range – | Adjustable Differ | ential |
| AC Full Load A | 16.0 | 9.2 | 8.0 |
| AC Locked Rotor A | 96.0 | 55.2 | 48.0 |
| Non-Inductive A ¹ | 22 A, 120 to 277 VAC | | |
| Pilot Duty – 125 VA, 24 to 600 VAC | | | |
| | Fixed Differenti | al and Close Diffe | erential |
| AC Full Load A | 6.0 | 3.4 | 3.0 |
| AC Locked Rotor A | 36.0 | 20.4 | 18.0 |
| Non-Inductive A | 10 A, 24 to 277 VAC | | |
| Pilot Duty – 125 VA, 24 to 277 VAC | | | |
| | Case Compens | ated – Fixed Diffe | erential |
| | A | 19AAC-4 | |
| AC Full Load A | 16.0 | 9.2 | 8.0 |
| AC Locked Rotor A | 96.0 | 55.2 | 48.0 |
| Non-Inductive A ¹ | 22 A, 120 to 277 | VAC | |
| Pilot Duty – 125 VA, 24 to 600 VAC | | | |
| | Α | 19AAD-12 | |
| AC Full Load A | 6.0 | 3.4 | 3.0 |
| AC Locked Rotor A | 36.0 | 20.4 | 18.0 |
| Non-Inductive A | 10 A, 24 to 277 VAC | | |
| | • | | |
| Pilot Duty – 125 VA, 24 to 277 VAC | | | |
| Pilot Duty – 125 VA, 24 to 277 VAC | Ма | nual Reset | |
| Pilot Duty – 125 VA, 24 to 277 VAC AC Full Load A | Ma 16.0 | 9.2 | 8.0 |
| • · | | | 8.0 48.0 |

1. SPST and N.O. contact of SPDT control;

SPDT N.C. contact- 16 amps 120 to 277 VAC