A19 Series Remote Bulb Control Catalog Page

2024-03-07

LIT-1927010

Description

Figure 1: A19ABC-24 Remote Bulb Control



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

Refer to the *A19 Series Hot Water Heating Controls Well Immersion Product Bulletin (LIT-125025)* for important product application information.

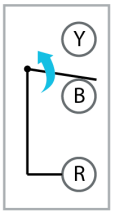
Features

- 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 HVAC/R applications.

Figure 2: A19 Series switch action for single-pole, double-throw (SPDT)



Note: On a temperature increase above the set point, the circuit from red to blue (RB) opens, and simultaneously red to yellow (RY) closes.

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Selection charts

Specify the control model code number. If required, specify the packing nut or bulb well code number.

Table 1: A19 Series Remote Bulb Control selection chart

Product code number	Switch action	Range °F (°C)	Differential F° (C°)	Bulb and capillary	Bulb well Order separately	Range adjuster	Maximum bulb temperature °F (°C)
Adjustable differential, wide range							
A19ABA-40C **Note:** Replaces White-Rodgers® 1609-101	Single-pole, single-throw (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. capillary	WEL14A-602R	Screwdriver slot	140 (60)
A19ABC-24C **Note:** 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	SPDT	-30 to 100 (-34 to 38)	3 to 12 (1.7 to 6.7)	3/8 in. x 4 in. 8 ft. capillary	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. capillary	WEL14A-602R	Convertible	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. capillary	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. capillary	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. capillary	WEL14A-602R	Screwdriver slot	140 (60)
Fixed differential, close							
A19AAD-5C **Note:** Case-compensated	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. capillary	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. capillary	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. capillary	WEL14A-603R	Screwdriver slot	140 (60)
Manual reset							
A19ACA-14C	SPST open low	-30 to 100 (-34 to 38)	Manual reset	3/8 in. x 4 in. 6 ft capillary	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 capillary	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 capillary	WEL14A-602R	Knob	290 (143)
A19ADB-38C	SPST open high	100 to 240 (38 to 116)	Manual reset	3/8 in. x 4 in. 6 ft capillary	WEL14A-602R	Screwdriver slot	290 (143)

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Table 2: Replacement parts

Product 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 applications. Specify the code number FTG13A-600R.
Bulb wells (WEL14A Series) are available for liquid immersion applications. See the selection chart or the *Bulb Wells Catalog Page (LIT-1922135)*.

Electrical ratings

Table 3: A19ADB cULus electrical ratings

VAC 60 Hz	120	208	240	277
Full load amperes	16.0	9.2	12.0	—
Locked rotor amperes	96.0	55.2	72.0	—
Resistive amperes, SPST	26.1			22.0
Pilot duty	125 VA, at 24 VAC to 600 VAC			

Table 4: A19ABC cULus electrical ratings

VAC 60 Hz	120	208	240	277
Full load amperes	16.0	9.2	12.0	—
Locked rotor amperes	96.0	55.2	72.0	—
Resistive amperes, SPST (SPDT)	22.0 (16.0)			
Pilot duty	125 VA, at 24 VAC to 600 VAC			

Table 5: A19ABA cULus electrical ratings

VAC 60 Hz	120	208	240	277
Full load amperes	16.0	9.2	12.0	—
Locked rotor amperes	96.0	55.2	72.0	—
Resistive amperes, SPST	22.0			
Pilot duty	125 VA, at 24 VAC to 600 VAC			

Table 6: A19AAF cULus electrical ratings

VAC 60 Hz	120	208	240	277
Full load amperes	6.0	3.4	3.0	—
Locked rotor amperes	36.0	20.4	18.0	—
Resistive amperes, SPST or SPDT	15.0			
Pilot duty	125 VA, at 24 VAC to 277 VAC			

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Table 7: A19AAD cULus electrical ratings

VAC 60 Hz	120	208	240	277
Full load amperes	6.0	3.4	3.0	—
Locked rotor amperes	36.0	20.4	18.0	—
Resistive amperes, SPST	15.0			
Pilot duty	125 VA, at 24 VAC to 277 VAC			

Conformity declaration information

Table 8: Conformity information

Information	Description
Purpose of the control	Temperature control
Method of mounting the control	Surface-mounted. Attached through holes in the back of the case.
Method of grounding the control	Wiring binding screw terminal
Type 1 or Type 2 action	Standard models: Type 1.B micro-disconnection 600 V rating models: Type 1.C micro-interruption
External pollution situation	Pollution degree 3
Rated impulse voltage	6,000 VAC
Compliance	UL Guide No. XAPX, File E6688 cUL Guide XAPX7, File E6688

Note: The 600 VAC rating is for pilot duty only.

Product warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

Single point of contact

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