A19 Series Hot Water Temperature Control for Well Immersion Catalog Page

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LIT-1927030

Description

Figure 1: A19ABC-11 and A19ABC-12 temperature control



The A19 Series temperature controls are a universal replacement control for open high or single-pole, double-throw (SPDT) applications. The control comes with a well assembly for 1/2 in. tapping.

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

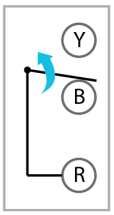
Features

- Liquid-filled element provides a rapid response to temperature change
- Adjustable differential
- Universal replacement

Applications

This operating control is suitable for hot water boilers. Use red to blue (RB) for open high applications, or red to yellow (RY) for open low applications.

Figure 2: A19 Series switch action for SPDT



Note: On SPDT models, on a temperature increase above the set point, the circuit RB opens, and simultaneously RY closes.

Selection charts

Table 1: A19 Series Hot Water Temperature Control with Well Immersion selection chart

Product code number	Application	Switch action	Range °F (°C)	Differential F° (C °)	Well connector size, NPT	Range adjuster	Maximum bulb temperature °F (°C)
A19ABC-11C	Open high, or open low	SPDT	100 to 240 (38 to 116)	6 to 24 (3 to 13)	1/2 in.	Convertible	250 (121)
A19ABC-12C					1/2 in.; 8 ft capillary		290 (143)
A19ADB-2C	High temperature lockout	Single-pole, single-throw (SPST) Open high with lockout	100 to 240 (38 to 116)	Manual reset Locks out high	1/2 in.	Knob	250 (121)

Table 2: Replacement parts

Product code number	Description
CVR28A-617R	Concealed adjustment cover
CVR28A-618R	Visible scale cover
KNB20A-602R	Knob kit

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			

Conformity declaration information

Table 5: 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.

Johnson Controls

Single point of contact

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