# A19 Series Temperature Control for Crop Drying Catalog Page

2024-03-07

LIT-1927020

## Description

**Figure 1: A19AAE-3 temperature control**




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

Refer to the *A19 Series Utility Thermostats for Farm, Industrial, and Commercial Use Product Bulletin (LIT-125030)* for important product application information.

## Features

- Designed for high temperature applications
- Wide adjustable differential

## Applications

The A19 crop drying temperature control energizes a gas valve to maintain the temperature.

## Repair information

If the A19 Series temperature control fails to operate within its specifications, replace the unit. For a replacement control, contact your nearest Johnson Controls® representative.

## Selection chart

**Table 1: A19 temperature control selection chart for crop drying**

| Product code number | Switch action | Range °F (°C) | Differential F° (C°) | Bulb and capillary | Range adjuster | Maximum bulb temperature °F (°C) |
|---|---|---|---|---|---|---|
| A19ABB-2C | Single-pole, single-throw (SPST), open high | 50 to 200 (10 to 93) | 6 to 24 (3 to 13)<br>Adjustable | 0.29 in. x 2.5 in. with 10 ft capillary | Knob<br>Visible scale | 240 (116) |

## Electrical ratings

**Table 2: A19ABB 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 | | | |

## Conformity declaration information

**Table 3: Conformity information**

| Information | Description |
|---|---|
| Purpose of the control | Temperature control |
| Method of mounting the control | Surface-mounted.<br>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:<br>Type 1.B micro-disconnection<br>600 V rating models:<br>Type 1.C micro-interruption |
| External pollution situation | Pollution degree 3 |
| Rated impulse voltage | 6,000 VAC |
| Compliance | UL Guide No. XAPX, File E6688<br>cUL Guide XAPX7, File E6688 |

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



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## 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

| APAC | EU | UK | NA/SA |
|---|---|---|---|
| JOHNSON CONTROLS<br>C/O CONTROLS PRODUCT MANAGEMENT<br>NO. 32 CHANGJIANG RD NEW DISTRICT<br>WUXI JIANGSU PROVINCE 214028<br>CHINA | JOHNSON CONTROLS<br>VOLTAWEG 20<br>6101 XK ECHT<br>THE NETHERLANDS | JOHNSON CONTROLS<br>TYCO PARK<br>GRIMSHAW LANE<br>MANCHESTER<br>M40 2WL<br>UNITED KINGDOM | JOHNSON CONTROLS<br>5757 N GREEN BAY AVE.<br>GLENDALE, WI 53209<br>USA |

## Contact information

Contact your local Johnson Controls representative:
www.johnsoncontrols.com/locations
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