

A11 Series Low Temperature Cutout Controls

Description

A11 Series Low Temperature Cutout Controls are available with single-pole, single-throw (SPST) or single-pole, double-throw (SPDT) contact action. Typical applications include the sensing of low temperature conditions to avoid over cooling or icing of hydronic coils, cooling coils, and liquid-handing pipes. The controls are compact and sturdy, and have an adjustable temperature setpoint range with a fixed differential. The range adjustment screw is accessible at the bottom of the control, and at the top of the control when the cover is removed.

The A11 Controls are compact and sturdy and feature an adjustable range with a fixed differential. The range adjustment screw is accessible at the bottom of the control or at the top, when the cover is removed. A factory-set low temperature stop is available when specified.

Refer to the *A11 Series Low Temperature Cutout Controls Product Bulletin (LIT-125010)* for important product application information.

Features

- precision repeat accuracy remains unaffected by ambient temperature at the control diaphragm cup and 4 ft (1.2 m) capillary (20 ft [6.1 m] sensing bulb must be in the controlled area)
- trip-free manual reset allows the lever to reset. You must press and release the lever before operation resumes.
- precision snap-acting contacts in a dust protected enclosure enables the A11 Control to operate to the fullest potential
- direct reading scale provides easy-to-adjust setpoint. Adjustments can be made from the top or bottom of the control.



A11 Series Low Temperature Cutout Control

Repair Information

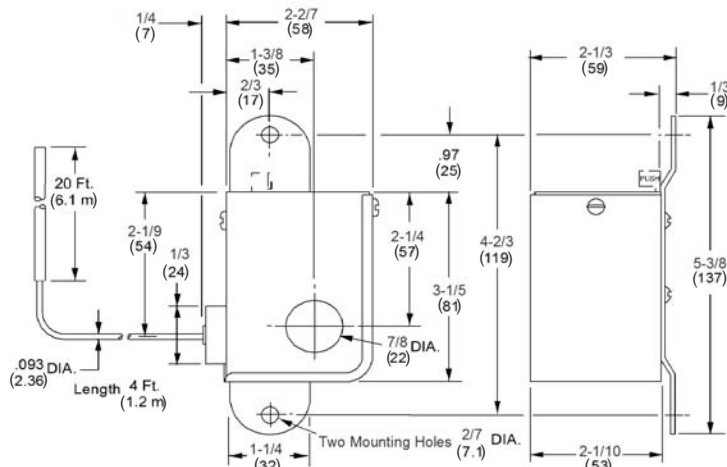
If the A11 Series Low Temperature Cutout Control fails to operate within its specifications, replace the unit. For a replacement control, contact the nearest Johnson Controls® representative.

Electrical Rating

Motor Rating	120 V	208 V	240 V
Motor Description			
AC Full Load Amperes	16.0	9.2	8.0
AC Locked Rotor Amperes	96.0	55.2	48.0
Non-Inductive Amperes	16.0	9.2	8.0
Pilot Duty	125 VA, 24 to 277 VAC		

Selection Chart

Model	Description
A11A	SPST, open low, manual reset
A11B	SPST, open low, automatic recycle
A11D	SPDT, manual reset
A11E	SPDT, automatic recycle



A11 Series Low Temperature Cutout Controls Dimensions, in. (mm)



A11 Series Low Temperature Cutout Controls (Continued)

Technical Specifications

A11 Low Temperature Cutout Controls		
Product Codes	A11A: SPST, open low, manual reset A11B: SPST, open low, automatic recycle A11D: SPDT, manual reset A11E: SPDT, automatic recycle	
Range Cutout	35 to 45°F (2 to 7°C)	
Differential	A11A and A11D: Temperature must be 12°F (6.7°C) above cutout point before control can be reset. A11B and A11E: 12°F (6.7°C)	
Ambient Temperature	Minimum: 0°F (-18°C) Maximum: 140°F (60°C)	
Maximum Temperature at Bulb	250°F (121°C)	
Sensing Element	1/8 in. x 20 ft (3 mm x 6.1 m) or 1/8 in. x 40 ft (3 mm x 12.2 m)	
Capillary Length	4 ft (1.2 m)	
Switch	Snap-acting contacts in dust-protected enclosure	
Material	Case: 0.6 (2 mm) cold rolled steel Cover: 0.3 in. (1 mm) cold rolled steel	
Finish	Galvanized steel	
Conduit Opening	22 mm (9/10 in.) hole for 13 mm (1/2 in.) conduit	
Mounting Bracket	Standard on all controls	
Shipping Weight	Individual pack: 1.8 lb (0.8 kg) Overpack of 20 units: 38 lb (17 kg)	
Electrical Rating	Pilot Duty: 125 VA, 24 to 277 VAC	
Motor Ratings	AC Full Load Ampere: 120 V = 16.0 A, 208 V = 9.2 A, 240 V = 8.0 A AC Locked Rotor Ampere: 120 V = 96.0 A, 208 V = 55.2 A, 240 V = 48.0 A Non-Inductive Ampere: 120 V = 16.0 A, 208 V = 9.2 A, 240 V = 8.0 A	
Compliance	United States	UL Listed, File SA516, SDFY
		FCC Compliant to CFR 47, Part 15 Subpart B, Class A
	Canada	UL Listed, CSA Class No. 1222 01, File LR948
		Industry Canada, ICES-003