

A19CAC Type Automatic Changeover Control

Application

This convector or fan coil changeover control is designed for automatically selecting either the heating or cooling function of the SPDT heating and cooling thermostat -- wall type or return air.

The A19CAC automatic changeover control eliminates manual selector switches at thermostat, prevents occupant from attempting to obtain individual room cooling when hot water is being circulated, and vice-versa. This control automatically switches to the cooling position when water temperature drops to a preselected setting and switches to the heating position when water temperature rises above the preselected setting.

All Series A19 controls are designed for use *only* as operating controls. Where an operating control failure would result in personal injury and/or loss of property,

it is the responsibility of the installer to add devices (safety, limit controls) or systems (alarm, supervisory systems) that protect against, or warn of, control failure.

Features

- Direct strap-on mounting or remote mounting model with 42 in. capillary and strap-on bulb.
- The strap-on plate is also the temperature sensing element.
- Dependable enclosed dust protected switch.

General Description

The SPDT switch has color coded terminals for ease of wiring. Contacts of terminals "R" to "B" close on temperature decrease; "R" to "Y" open on temperature decrease at the dial setting temperature. The direct strap-on model can be mounted in any position except under the selected pipe where condensate

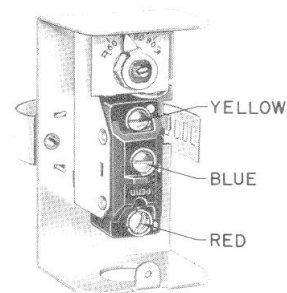


Fig. 1 -- Surface mounted changeover control shown without cover. Terminal colors are identified.

Electrical Ratings

Volts, AC	120	240
Full Load Amps.	10.0	6.0
Locked Rotor Amps.	60.0	36.0
Pilot Duty — 125 VA, 120/240 VAC		

may drip into the control parts. Remote bulb model may be mounted in any position in the chosen location.

A clamp-on mounting strap is supplied on the direct mounting model only. The bulb on the remote mounted control should be fastened to the pipe with high temperature electrical tape.

Specifications

Product Number	A19CAC-1	Remote Bulb Without Strap
	A19CAC-2	Direct Clamp On With Strap
Range	60 to 90°F (16 to 32°C)	
Differential	Fixed, 10°F (5.6°C)	
Maximum Ambient Temperature	At Case	140°F (60°C)
	At Sensing Bulb	250°F (121°C)
Switch	SPDT, Sealed Dust Protected Pennswitch	
Material	Case	.062" (1.6 mm) Cold Rolled Steel
	Cover	.025" (0.6 mm) Cold Rolled Steel
Finish	Gray Baked Enamel	
Conduit Opening	7/8" (22.2 mm) Diameter Hole For 1/2" Conduit	
Wiring Connections	Screw Type Terminals	
Shipping Weights	Individual Pack	1.2 lb (.54 kg)
	Overpack of 50	52 lb (23.5 kg)



Fig. 2 -- Changeover control with remote bulb.

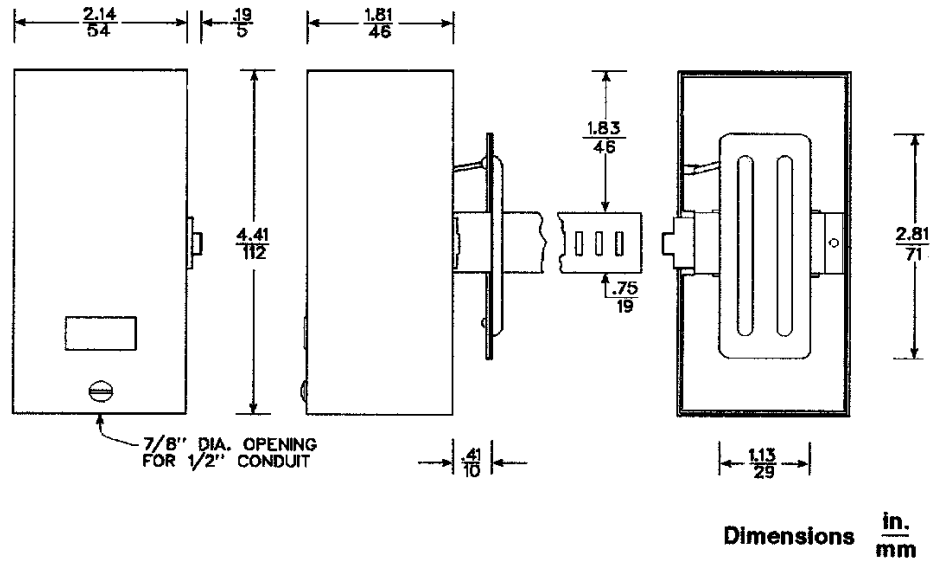
Ordering Information

Specify Product Number only.

Repairs and Replacement

Field repairs must not be made.
For a replacement control,
contact the nearest Johnson
Controls wholesaler.

*Performance specifications
appearing herein are nominal
and are subject to accepted
manufacturing tolerances and
application variables.*



Dimensions of direct clamp-on model shown. Remote mounting
model has same case dimensions.

UL Guide No. XAPX
File E6688

CSA Class No. 4813 02
File LR948



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