



**Remote Bulb Controls**

Have a capillary tube and sensor that monitor and regulate the temperature of the ambient air at a distance away from the control.

**1RC43 and 2E399**—Temperature dial is graduated in both °F and °C. 2E399 has bimetallic sensor.

**2NNT3 and 2NNT4**—Have stainless steel housing and capillary components for corrosive environments.

**4E912 and 4E919**—Used with room air conditioners, packaged terminal air conditioners, and heat pumps.

**2KGR3**—Has gas-filled bulb and electroplated copper capillary tube. For large coils where air stratification could cause localized freezing.

**4MY93**—Has corrosion-resistant stainless capillary and sensor for agricultural applications.

Switch Type	Switch Action	Temperature Control Range	Temperature Differential	Bulb Length	Bulb Diameter	Capillary Length	Encl. Material	Voltage Range	Inductive Amps @ 120V	Resistive Amps @ 240V (A)	Brand	Mfr. Model	Item No.			
<b>Defrost Duration &amp; Fan Delay Single-Stage Controls</b>																
SPDT	Open/Close on Rise	85° to 85°F	4°F	3 1/4 in	1/4 in	72 in	Steel	24 to 277VAC	16 A	8 A	Johnson Controls	A19ZBC-2C	38Y076			
<b>Freeze Protection Indoor Single-Stage Controls</b>																
DPST	Open/Close on Rise	15° to 55°F	5°F	20 ft	1/4 in	20 ft	Steel	120 to 277VAC	6 A, 16 A	3 A, 8 A	Siemens	134-1504	40PN32			
SPDT	Open/Close on Rise	35° to 45°F	12°F	20 ft	1/4 in	48 in	Steel	120 to 240VAC	16 A	3 A, 8 A	Siemens	134-1510	40PN33			
SPDT	Open/Close on Rise	35° to 45°F	12°F	20 ft	1/4 in	48 in	Steel	120 to 240VAC	16 A	3 A, 8 A	Siemens	134-1511	40PN34			
SPST	Close on Rise	35° to 45°F	12°F	20 ft	1/4 in	48 in	Steel	24 to 277VAC	16 A	8 A	Johnson Controls	A11A-1C	38Y046			
SPST	Close on Rise	35° to 45°F	12°F	20 ft	1/4 in	48 in	Steel	24 to 277VAC	16 A	8 A	Johnson Controls	A11B-1C	38Y047			
<b>Freeze Protection Weatherproof Single-Stage Controls</b>																
SPST	Open on Rise	40°F	—	3 in	1/4 in	30 in	Plastic	125, 250 to 480VAC	—	22 A	Raychem	AMC-F5	45RK48			
<b>Hazardous Location Single-Stage Controls</b>																
DPDT	Open/Close on Rise	40° to 110°F	2° to 4°F	4 3/4 in	1/4 in	5 1/4 in	Aluminum	120 to 277VAC	13.8 A	10 A	Columbus Electric	HLT-2-G	6GVX9			
SPDT	Open/Close on Rise	0° to 150°F	6°F	2 1/2 in	1/4 in	10 ft	—	—	—	22 A	Penn	A19AUC-3C	61TM20			
SPDT	Open/Close on Rise	100° to 250°F	6°F	2 1/2 in	1/4 in	10 ft	—	—	—	22 A	Penn	A19AUC-4C	61TM21			
SPDT	Open/Close on Rise	40° to 110°F	2° to 4°F	4 3/4 in	1/4 in	5 in	Aluminum	—	—	—	Columbus Electric	HLT-1	61LA04			
<b>High-Range Indoor Single-Stage Controls</b>																
SPDT	Open/Close on Rise	100° to 240°F	6°F	3 1/2 in	1/2 in	72 in	Steel	120 to 277VAC	16 A	8 A	Johnson Controls	A19AAC-9C	38Y049			
SPST	Open on Rise	200° to 550°F	10°F	6 in	1/4 in	96 in	Steel	120 to 277VAC	16 A	8 A	Johnson Controls	A19AAB-10C	38Y048			
<b>Indoor Single-Stage Controls</b>																
SPDT	Open/Close on Rise	-30° to 90°F	4.5° to 40°F	5 1/4 in	1/2 in	96 in	Steel	120 to 240VAC	7.4 A	3.7 A	Emerson	1687-9	2E399			
		0° to 120°F	3°F	5 in	1/4 in	60 in	Plastic	24 to 600VAC	16 A	8 A	Dayton	2NNR6	2NNR6			
		-30° to 90°F	3°F	5 in	1/4 in	96 in	Steel	24 to 600VAC	16 A	8 A	Dayton	2NNR7	2NNR7			
		-30° to 90°F	3°F	5 in	1/4 in	96 in	Stainless Steel	24 to 600VAC	16 A	8 A	Dayton	2NNT3	2NNT3			
		-30° to 90°F	3° to 12°F	5 in	1/4 in	96 in	Steel	24 to 600VAC	16 A	8 A	Dayton	6EDY7	6EDY7			
		25° to 225°F	3.5°F	3 in	1/2 in	120 in	Steel	24 to 277VAC	6 A	3 A	10 A	Johnson Controls	A19AAF-12C	38Y051		
		-30° to 100°F	3° to 12°F	4 in	1/2 in	96 in	Steel	120 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19ABC-24C	38Y058		
		-30° to 100°F	3° to 12°F	4 in	1/2 in	20 ft	Steel	120 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19ABC-36C	38Y059		
		50° to 130°F	3.5° to 14°F	5 in	1/2 in	96 in	Steel	120 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19ABC-4C	38Y062		
		-30° to 100°F	3°F	3 in	1/2 in	24 in	Steel	120 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19AGC-77C	38Y066		
		0° to 100°F	3° to 10°F	4 1/4 in	1/2 in	20 ft	Steel	120 to 277VAC	8 A	5 A	—	Honeywell	T675A1565	278Y81		
		0° to 100°F	3° to 10°F	4 1/4 in	1/2 in	20 ft	Steel	120 to 277VAC	8 A	5 A	—	Honeywell	T678A1015	278Y80		
SPST	Close on Rise	-30° to 90°F	3.5° to 40°F	5 1/4 in	1/2 in	60 in	Steel	120 to 240VAC	16 A	8 A	Emerson	1609-101	1RC43			
		-30° to 90°F	3°F	5 in	1/4 in	60 in	Steel	24 to 600VAC	16 A	8 A	22 A	Dayton	2NNR5	2NNR5		
		-30° to 90°F	3°F	5 in	1/4 in	60 in	Stainless Steel	24 to 600VAC	16 A	8 A	22 A	Dayton	2NNR4	2NNR4		
		30° to 50°F	2.5°F	2 1/4 in	1/2 in	72 in	Steel	24 to 277VAC	6 A	3 A	10 A	Johnson Controls	A19AAD-5C	38Y050		
		-30° to 100°F	3° to 12°F	4 in	1/2 in	72 in	Steel	120 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19ABA-40C	38Y052		
		-30° to 100°F	3° to 12°F	5 in	1/2 in	72 in	Steel	120 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19ABA-45C	38Y054		
		-30° to 100°F	Manual Reset	4 in	1/2 in	72 in	Steel	24 to 277VAC	16 A	8 A	8 A	Johnson Controls	A19ACA-14C	38Y063		
		-30° to 100°F	Manual Reset	4 in	1/2 in	120 in	Steel	24 to 277VAC	16 A	8 A	8 A	Johnson Controls	A19ACA-15C	38Y064		
		50° to 200°F	6° to 24°F	2 1/2 in	1/2 in	120 in	Steel	120 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19ABB-2C	38Y055		
		100° to 240°F	Manual Reset	3 1/2 in	1/2 in	72 in	Steel	24 to 277VAC	16 A	8 A	8 A	Johnson Controls	A19ADB-1C	38Y065		
		<b>Indoor Two-Stage Controls</b>														
		SPDT	Open/Close on Rise	30° to 110°F	3.5°/2° to 7°F	12 ft	1/4 in	72 in	Steel	24 to 277VAC	16 A	8 A	8 A	Johnson Controls	A28AA-28C	38Y078
-30° to 100°F	5°/2° to 7°F			96 in	1/2 in	96 in	Steel	24 to 277VAC	16 A	8 A	8 A	Johnson Controls	A28AA-29C	38Y079		
40° to 90°F	3.5°/2° to 7°F			72 in	1/2 in	72 in	Steel	24 to 277VAC	16 A	8 A	8 A	Johnson Controls	A28AA-36C	38Y080		
20° to 80°F	2°/2° to 7°F			72 in	1/4 in	72 in	Steel	24 to 277VAC	6 A	3 A	8 A	Johnson Controls	A28AJ-4C	20XJ45		
20° to 80°F	2° to 7°F	—	1/2 in	72 in	Steel	24 to 277VAC	6 A	3 A	8 A	Johnson Controls	A28GA-23C	20XJ46				
<b>Rainproof Single-Stage Controls</b>																
SPDT	Open/Close on Rise	0° to 150°F	5°F	2 1/4 in	1/4 in	120 in	Steel	120 to 277VAC	16 A	8 A	8 A	Johnson Controls	A19ANC-1C	38Y068		
<b>Refrigeration Controls</b>																
SPDT	Open/Close on Rise	60° to 98°F	3°F	9 in	3/8 in	36 in	Steel	120 to 277VAC	20 A	20 A	—	Ranco	C12-5010	4E912		
SPDT	Open/Close on Rise	64° to 101°F	3.5°F	8 1/4 in	3/8 in	26 in	Steel	120 to 277VAC	20 A	20 A	—	Ranco	C17-100	4E919		
<b>Single-Stage Controls</b>																
SPDT	Open/Close on Rise	100° to 240°F	6°F to 24°F	—	—	—	Steel	24 to 277VAC	10 A	6 A	—	Johnson Controls	A19ABC-11C	38Y056		
SPDT	Open/Close on Rise	30° to 80°F	6°F to 24°F	—	—	—	Steel	24 to 277VAC	16 A	8 A	22 A	Johnson Controls	A19ABC-39C	38Y061		
<b>Single-Stage Controls with Remote-Bulb Sensor</b>																
SPDT	Open/Close on Rise	100° to 240°F	6°F to 24°F	—	—	8 ft	Steel	24 to 277VAC	10 A	6 A	—	Johnson Controls	A19ABC-12C	38Y057		
<b>Two-Circuit Indoor Single-Stage Controls</b>																
SPST	Open/Close on Rise	15° to 55°F	5°F	20 ft	1/4 in	20 ft	Steel	120 to 600VAC	6 A, 16 A	3 A, 8 A	3 A, 8 A	Johnson Controls	A70BA-18C	38Y107		
		15° to 55°F	5°F	20 ft	1/4 in	20 ft	Steel	120 to 600VAC	6 A, 16 A	3 A, 8 A	6 A, 8 A	Johnson Controls	A70GA-1C	38Y108		
		35° to 80°F	3° to 30°F	3 in	1/2 in	72 in	Steel	120 to 600VAC	6 A, 16 A	3 A, 8 A	6 A, 8 A	Johnson Controls	A70GA-2C	38Y109		
		15° to 55°F	2°F	20 ft	1/4 in	20 ft	Steel	24 to 240VAC	16 A	8 A	6 A, 8 A	Johnson Controls	A70HA-14C	2KGR3		
		15° to 55°F	5°F	20 ft	1/4 in	20 ft	Steel	120 to 600VAC	6 A, 16 A	3 A, 8 A	6 A, 8 A	Johnson Controls	A70HA-1C	38Y110		
		35° to 80°F	6°F	3 in	1/2 in	72 in	Steel	120 to 600VAC	6 A, 16 A	3 A, 8 A	6 A, 8 A	Johnson Controls	A70HA-2C	38Y111		
		100° to 170°F	8°F	10 in	1/2 in	72 in	Steel	120 to 600VAC	6 A, 16 A	3 A, 8 A	6 A, 8 A	Johnson Controls	A70KA-1C	38Y112		
		<b>Weatherproof Single-Stage Controls</b>														
		DPST	Close on Rise	25° to 90°F	4° to 25°F	6 3/4 in	3/4 in	72 in	Steel	120 to 600VAC	24 A	15 A, 24 A	24 A	Johnson Controls	A72AE-1C	38Y113
		SPDT	Open on Rise	0° to 120°F	3°F	2 1/4 in	1/4 in	60 in	Plastic	24, 120 to 277VAC	16 A	12 A	25 A	Peco	TRF115-005	4MY93

Accessory	Description	Brand	Item No.
Replacement Thermostat Knob		Dayton	6ED22