Figure 10. Series 2455RBV Overmolded Automatic Reset Thermostats

The 2455RBV Series has a temperature-sensitive bimetal disc, electrically and thermally isolated from the switch that is used to actuate the normally closed contacts. The contacts open when surface or ambient temperatures increase to the operating set point of the calibrated bimetal disc. The entire switch is enclosed in a phenolic or ceramic housing; the bimetal disc is retained by a metal heat-conducting end cap. The unit is then encapsulated in epoxy.

This series is UL/CSA and European approved.

Potential applications include:
- Automotive
- Industrial equipment
- HVAC

Table 17. 2455RBV Series Standard Temperature Characteristics

Operating Temperature Range	Tolerance		Standard Mean Differential °C [°F]
	Open °C [°F]	Close °C [°F]	
-12,2 °C to 26,7 °C [10 °F to 80 °F]	±4 [±7]	±6 [±10]	17 to 44 [30 to 80]
	±3 [±6]	±4 [±8]	14 to 28 [25 to 50]
	±3 [±5]	±4 [±8]	11 to 22 [20 to 40]
27,2 °C to 105 °C [81 °F to 221 °F]	±3 [±6]	±6 [±10]	17 to 44 [30 to 80]
	±3 [±5]	±4 [±8]	11 to 28 [20 to 50]

Table 18. 2455RBV Series Specifications

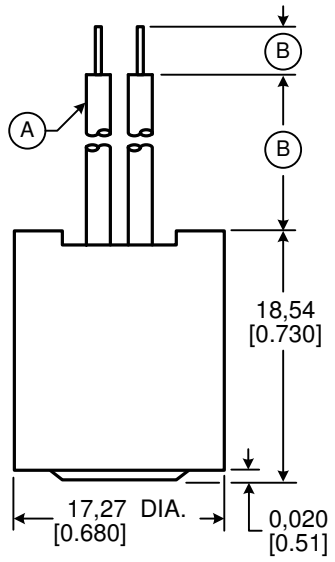
Characteristic	Parameter
Switch type	SPST
Reset type	automatic
Amperage	see Table 19
Voltage	120 Vac to 250 Vac
Operating temperature range	0 °C to 105 °C [32 °F to 221 °F]
Environmental exposure range	-18 °C to 126.6 °C [0 °F to 260 °F]
Materials:	
Boot	nylon, with epoxy filled or injection molded
Base	internal 2455RC ceramic or 2455R phenolic
Contacts	silver alloy
Terminals	plated steel with wires
Closure	aluminum, brass, or stainless steel
Brackets	stainless steel
Approvals	UL File SA4469, CSA File LR21048.
Weight	6.5 g [0.23 oz] (does not include brackets or wire leads)

Table 19. 2455RBV Series Contact Ratings

Life Cycles	120 Vac	240 Vac
100,000	15 A resistive	10 A resistive
6,000	5.8 FLA 34.8 LRA	2.9 FLA 17.4 LRA
100,000	4.4 FLA 26.4 LRA 125 VA pilot duty	2.2 FLA 13.2 LRA 125 VA pilot duty

Note: Additional contact ratings are available, please contact Honeywell.

Figure 11. 2455RBV Basic Dimensions



A Specify wire gauge and insulation
B Specify dimension