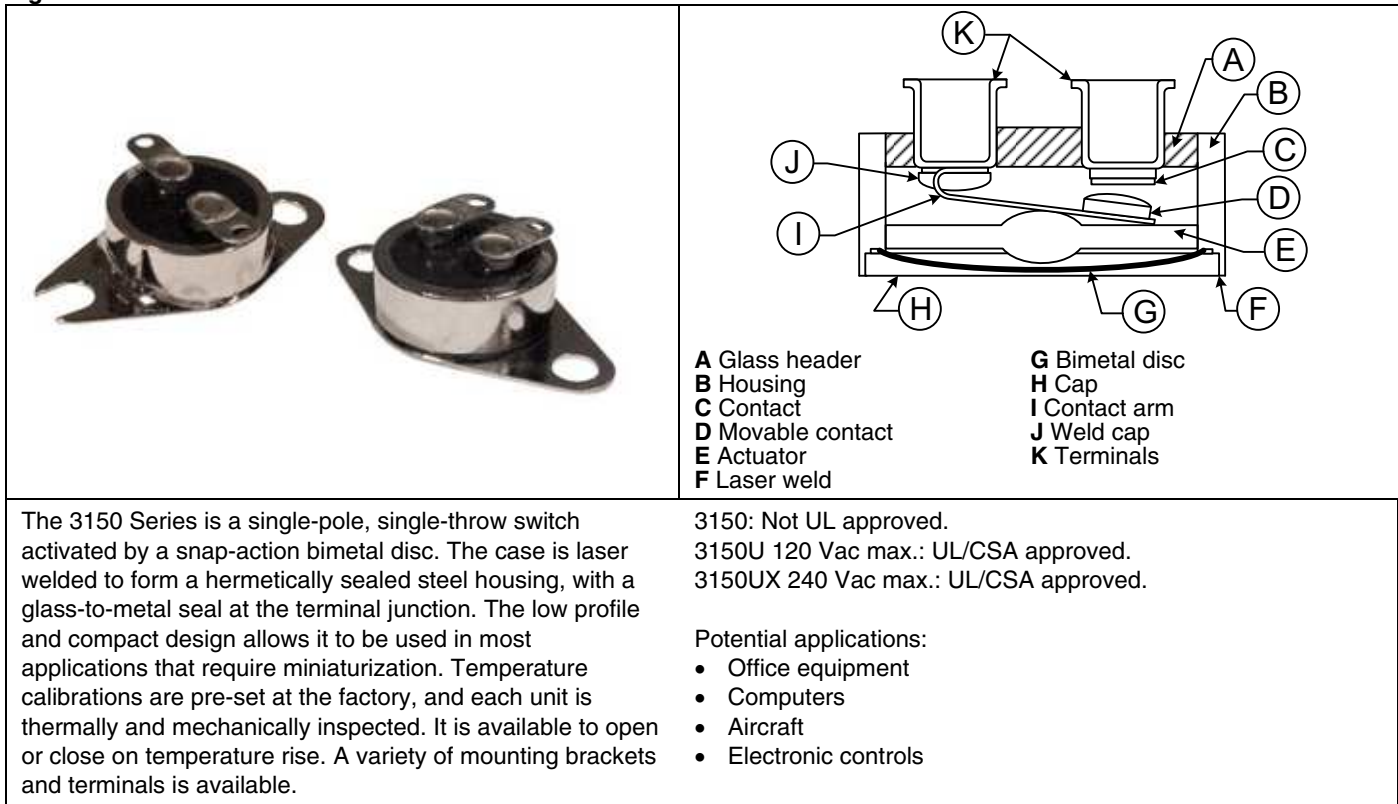


**Figure 5. 3150 Series Low Profile Hermetic Thermostats**



**Table 9. 3150 Series Standard Temperature Characteristics**

Operating Temperature Range	Tolerance		Standard Mean Differential °C [°F]	Optional Max. Differential °C [°F]
	Open °C [°F]	Close °C [°F]		
-28,89 °C to -12,2 °C [-20 °F to 10 °F]	±5,6 [±10]	±4,4 [±8]	16,7 to 22,2 [30 to 40]	-
	±4,4 [±8]	±4,4 [±8]	11,1 to 16,1 [20 to 29]	-
	±3,9 [±7]	±3,9 [±7]	7,8 to 10,6 [14 to 19]	-
-11,7 °C to 107,2 °C [11 °F to 225 °F]	±2,8 [±5]	±2,8 [±5]	11,1 to 44,4 [20 to 80]	-
	±2,8 [±5]	±2,8 [±5]	8,3 to 10,6 [15 to 19]	-
	±2,8 [±5]	±2,8 [±5]	5,6 to 7,8 [10 to 14]	-
	±2,2 [±4]	-	-	4,4 [8]
	-	±2,2 [±4]	-	4,4 [8]
	±1,7 [±3]	-	-	3,3 [6]
107,8 °C to 148,9 °C [226 °F to 300 °F]	±4,4 [±8]	±3,3 [±6]	13,9 to 27,8 [25 to 50]	-
	5,6 [±7]	±3,3 [±6]	8,3 to 13,3 [15 to 34]	-
	±3,3 [±6]	±3,3 [±6]	6,7 to 7,8 [12 to 14]	-
	±2,8 [±5]	-	-	6,7 [12]
	-	±2,8 [±5]	-	6,7 [12]
	±2,2 [±4]	-	-	4,4 [8]
149,4 °C to 176,7 °C [301 °F to 350 °F]	±6,7 [±12]	±5,6 [±10]	19,5 to 27,8 [35 to 50]	-
	±5,6 [±10]	±5,6 [±10]	13,9 to 18,9 [25 to 34]	-
	±4,4 [±8]	±4,4 [±8]	8,3 to 13,3 [15 to 24]	-
	±3,9 [±7]	-	-	8,3 [15]
	-	±3,9 [±7]	-	8,3 [15]
	±2,8 [±5]	-	-	5,6 [10]
-	±2,8 [±5]	-	5,6 [10]	

Table 10. 3150 Series Specifications

Characteristic	Parameter
Switch type	SPST
Reset type	automatic
Amperage	see Tables 11, 12, 13
Voltage	120 Vac
Operating temperature range	-28,89 °C to 177 °C [-20 °F to 350 °F]
Environmental exposure range	-54 °C to 260 °C [-65 °F to 500 °F]
Dielectric strength	3150: MIL-STD-202 Method 301 – 750 Vac, 60 Hz terminal to case 3150U: MIL-STD-202 Method 301 – 1250 Vac, 60 Hz terminal to case 3150UX: MIL-STD-202 Method 301 – 1500 Vac, 60 Hz terminal to case
Insulation resistance	MIL-STD-202 Method 302 Cond. B: 50 MOhm, 500 Vdc applied
Contact resistance	MIL-STD-202, Method 307: 50 mOhm
Hermetic seal	MIL-STD-202, Method 112 Cond. 1x10 <sup>5</sup> Atm cc/sec
Moisture resistance	MIL-STD-202, Method 106
Housing material:	
Base	cold rolled plated steel
Contacts	silver alloy
Terminals	nickel/iron alloy
Closure	hermetically sealed
Brackets	cold rolled plated steel
Plating	copper/nickel QQ-N-290
Marking	MIL-STD-1285
Approvals	UL File E36103, CSA File LR21048
Weight	5,0 g [0.17 oz] (brackets and wire leads not included)

Table 11. 3150 Contact Ratings

Life Cycles	30 Vac/dc	120 Vac	240 Vac
5,000	6 A	6 A	1.5 A
10,000	4 A	4 A	1.25 A
25,000	3 A	3 A	1 A
50,000	2 A	2 A	1 A
100,000	2 A	2 A	1 A

Table 12. 3150U Contact Ratings

Life Cycles	24 Vdc	120 Vac
6,000	–	6 A
6,000	–	1/10 hp
100,000	0.5 A	3 A

Table 13. 3150UX Contact Ratings

Life Cycles	240 Vac
6,000	1.5 A
100,000	0.25 A