

**Tyco / Electronics**  
**Raychem Circuit Protection**  
 308 Constitution Drive  
 Menlo Park, CA 94025-1164  
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**PolySwitch®**  
**PTC Devices**  
 Overcurrent Protection Device

**PRODUCT: VLR175UF**

DOCUMENT: SCD 25387  
 PCN: A43993  
 REV LETTER: A  
 REV DATE: APRIL 4, 2003  
 PAGE NO.: 1 OF 1

**Specification Status: Preliminary**

**Maximum Electrical Rating**

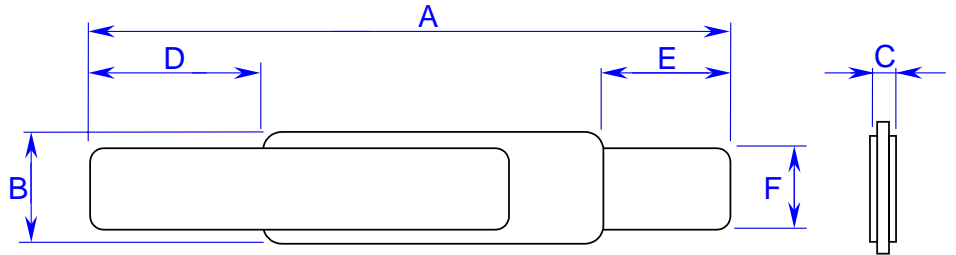
**Operating Voltage: 12Vdc**  
**Interrupt Current: 100A**

Leads: Nickel  
 0.125mm nominal thickness

Tape: None

Solder: Lead-free

Marking: None



**TABLE I. DIMENSIONS:**

	A		B		C		D		E		F	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
mm:	23.0	24.5	2.9	3.1	---	0.7	5.2	7.5	4.3	5.7	2.4	2.6
in*:	(0.91)	(0.96)	(0.11)	(0.12)	--	(0.03)	(0.20)	(0.30)	(0.17)	(0.22)	(0.09)	(0.10)

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

I HOLD	CURRENT TRIP LIMITS								TIME TO TRIP		REFERENCE RESISTANCE		ONE-HOUR POST-TRIP RESISTANCE		TRIPPED-STATE POWER DISSIPATION
	AMPS AT 0°C		AMPS AT 25°C		AMPS AT 60°C		AMPS AT 80°C		SECONDS AT 25°C, 8.75A		OHMS AT 25°C		OHMS AT 25°C		WATTS AT 25°C, 12V
HOLD	HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	MIN	MAX	MIN	MAX	MIN	MAX	MAX
1.75	2.4	5.6	1.75	4.2	0.8	2.0	---	---	---	5	0.017	0.031	0.017	0.062	1.4

Recognitions: UL, TUV, CSA  
 Reference Documents: PS300  
 Precedence: This specification takes precedence over documents referenced herein.  
 Effectivity: Reference documents shall be the issue in effect on the date of invitation for bid.  
 CAUTION: Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.