

# Specification Status: Released

### Operating Conditions at 20°C:

Maximum Continuous Operating Voltage ( $V_{mco}$ ): 240V<sub>ac</sub>

### Fault Ratings at 20°C:

Maximum Limited Duration Voltage ( $V_{ldf}$ ): 400V<sub>rms</sub>

Maximum Limited Duration Current ( $I_{ldf}$ ): 40A

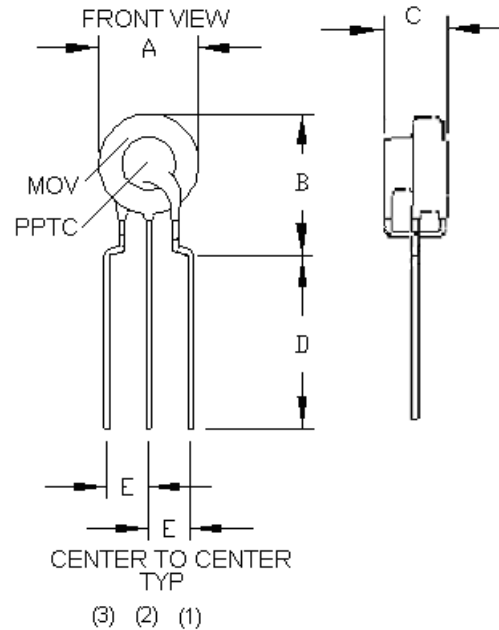
**Insulating Material: Cured, Flame Retardant Epoxy Polymer**  
(meeting UL94 V-0 requirements)

### Lead Material:

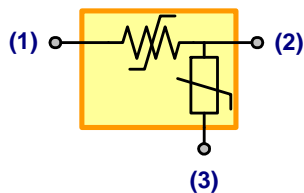
22 AWG Sn-Plated Copper (0.64 mm [0.025"] nominal diameter)

### Marking (on MOV side):

- Manufacturer's Mark
- XXA431 — Part Identification
- — Lot Identification



### Electrical Schematic:



**TABLE I. DIMENSIONS:**

	A		B		C		D		E
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM
mm:	--	16.0	--	21.0	--	7.4	3.0	5.0	5.1
in:*	--	(0.63)	--	(0.83)	--	(0.29)	(0.12)	(0.20)	(0.20)

\*Rounded off approximation

**TABLE II. PPTC-SECTION (TERMINALS 1-2) PERFORMANCE RATINGS @ 20°C:**

HOLD CURRENT (A)	TRIP CURRENT (A)	RESISTANCE ( $\Omega$ )†			TIME TO TRIP† (s) @ 3A	
		R MIN	R MAX	R <sub>1</sub> MAX*	TY P	MA X
0.35	0.75	1.4	2.2	2.8	0.5	2.0

\*Maximum device resistance at 20°C measured 1 hour post trip.

† Corresponds to operations below varistor switch voltage.

**TABLE III. MOV-SECTION (TERMINALS 2-3) PERFORMANCE RATINGS @ 20°C:**

VARISTOR VOLTAGE @ 1mA		DC RESISTANCE @ 100V	MAXIMUM CLAMPING VOLTAGE @ 50A	RATED WATTAGE
DC (V)	TOLERANCE	(MΩ)	(V)	(W)
430	± 10 %	>10	710	0.6

**TABLE IV. SURGE IMMUNITY FOR THE ASSEMBLY (TERMINALS 1-3) @ 20°C:**

Parameter	VOLTAGE – Open Circuit		CURRENT – Short Circuit		Repetitions
	Voltage (V)	Waveform (μs)	Current (A)	Waveform (μs)	
IEC / EN 61000-4-5	2000	1.2 x 50	1000	8 x 20	5 ea. Polarity

**TABLE V. APPLICABLE PART DESCRIPTIONS:**

PART DESCRIPTION	PACKAGING	NOTES
LVM2P-035R14431	Bulk	N/A

Agency Recognitions: N/A

Reference Documents: PS300 for PPTC section

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.

### Materials Information

**ROHS Compliant**

Directive 2002/95/EC  
Compliant

**ELV Compliant**

Directive 2000/53/EC  
Compliant

**Pb-Free**



**Halogen Free\***



\* Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm.

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