

Specification Status: Released

Operating Conditions at 20°C:

Maximum Continuous Operating Voltage (V_{mco}): 240V_{ac}

Fault Ratings at 20°C:

Maximum Limited Duration Voltage (V_{ldf}): 400V_{rms}

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

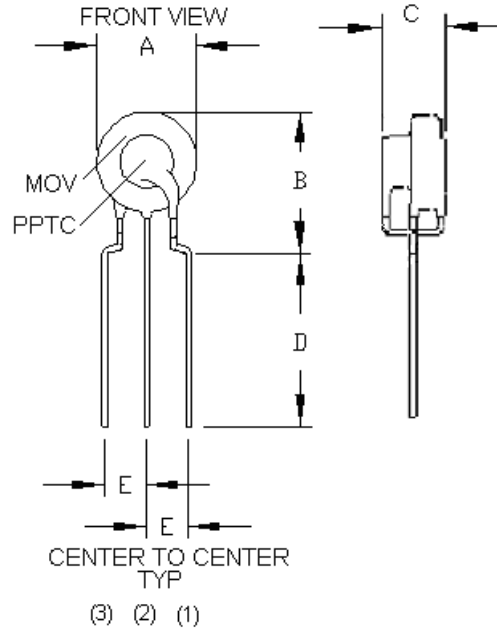
Insulating Material: Cured, Flame Retardant Epoxy Polymer
(meeting UL94 V-0 requirements)

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:

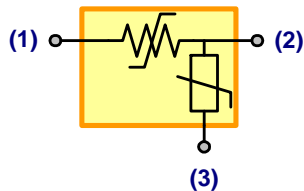


TABLE I. DIMENSIONS:

| | 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 (Ω)† | | | TIME TO TRIP† (s) @ 3A | |
|------------------|------------------|--------------------------|-------|---------------------|------------------------|------|
| | | R MIN | R MAX | R ₁ 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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