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# 2Pro™ Device Series

*Raychem Circuit Protection Products*



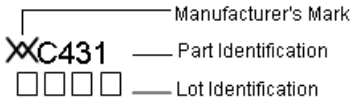
## Specification Status: Released

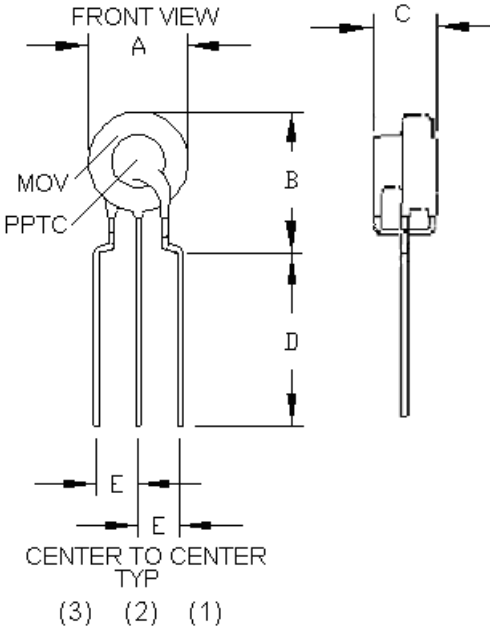
**Operating Conditions at 20°C:**
Maximum Continuous Operating Voltage ($V_{mco}$): $240V_{ac}$

**Fault Ratings at 20°C:**
Maximum Limited Duration Voltage ($V_{ldf}$): $415V_{rms}$
Maximum Limited Duration Current ($I_{ldf}$): 40A

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

**Marking (on MOV side):**




## Electrical Schematic:

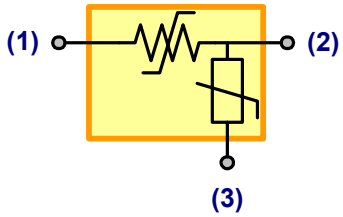



**TABLE I. DIMENSIONS:**

| | A | | B | | C | | D | | E |
|---|---|---|---|---|---|---|---|---|---|
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | NOM |
| mm: | -- | 12.0 | -- | 17.0 | -- | 7.4 | 8.5 | 11.5 | 5.1 |
| in:* | -- | (0.47) | -- | (0.67) | -- | (0.29) | (0.34) | (0.45) | (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) @ 1A | |
|---|---|---|---|---|---|---|
| | | R MIN | R MAX | $R_{1\ MAX}$* | TYP | MAX |
| 0.15 | 0.30 | 6.5 | 14.0 | 16.0 | 0.9 | 3 |

*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 @ 25A | RATED WATTAGE |
|---|---|---|---|---|
| DC (V) | TOLERANCE | (MΩ) | (V) | (W) |
| 430 | ± 10 % | >10 | 710 | 0.25 |

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

| 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-015R10431 | Bulk | N/A |

Agency Recognitions: N/A
Reference Documents: Raychem 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**