

**IEC Separable Connectors 17 kV/50
kV; 17 kV/45kV Coupling (Rear)
T-Body Surge Arrester**



APPLICATION

The Chardon T-Body Surge Arrester is an arrester combined within a coupling(rear) T-Body interface. It is designed to protect

apparatus, including transformers, switchgear, and other equipment from high voltage surges due to lightning or switching.

KEY FEATURES

Provides fully shielded deadfront arrester protection.
Metal (zinc) Oxide Varistor (MOV) gapless design.
EPDM insulation rubber molded around MOV module.

Mounting can be vertical, horizontal, or any angle in between.
No minimum phase clearance requirements.
100% electrical tested at factory.

PRODUCT RATINGS

| | 17-RDTA50 | 17-RDTA45 |
|---|-----------|-----------|
| Rated Voltage Class (Ur) | 17 kV | 17 kV |
| Nominal Discharge Current of Arrester | 5 kA | 5 kA |
| Residual Voltage of Nominal Discharge Current | ≤ 50 kV | ≤ 45 kV |
| Maximum Continuous Operating Voltage | 13.6 kV | 13.6 kV |
| Voltage of DC 1mA Current | ≥ 25 kV | ≥ 25 kV |

PRODUCTION TESTS

Tests conducted in accordance with IEC 60099-4.

Minimum Corona Voltage Level – 15kV < 3pc
Voltage of DC 1mA Current – ≥ 25kV

Tests conducted in accordance with Chardon manufacturing process requirements:

Physical Inspection
Periodic Dissection
Periodic X-ray Analysis

• 17KV-IEC-TBS-REV060425

DETAILED COMPOSITION OF THE CHARDON
17 kV/50 kV; 17 kV/45 kV COUPLING (REAR) T-BODY SURGE ARRESTE

STUD
Tin plated, threaded copper stud.

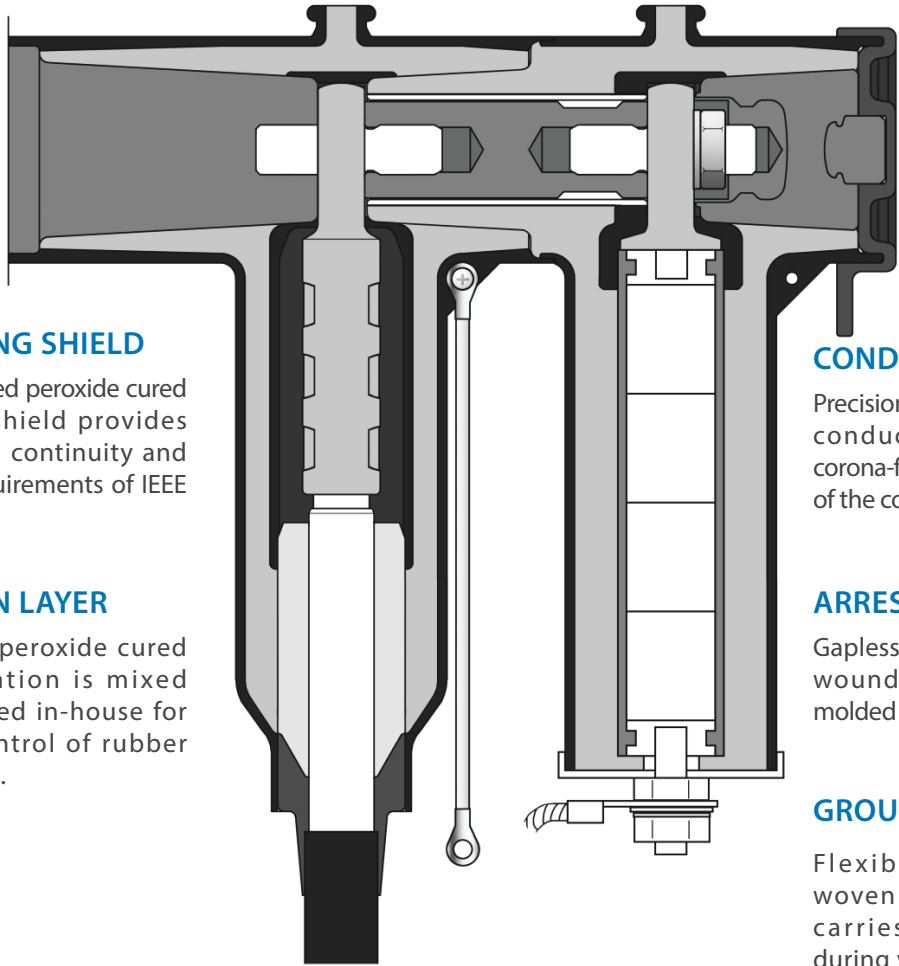
CONDUCTING SHIELD
Precision molded peroxide cured conducting shield provides ground shield continuity and meets the requirements of IEEE Standard 592.

INSULATION LAYER
High quality peroxide cured EPDM Insulation is mixed and formulated in-house for complete control of rubber characteristics.

CONDUCTING INSERT
Precision molded peroxide cured conducting insert provides corona-free electrostatic shielding of the compression connector.

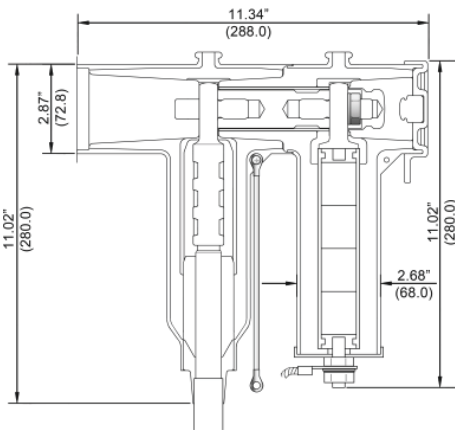
ARRESTER MODULE
Gapless MOV disks are filament wound. Insulation rubber is molded around the MOV module.

GROUNDING WIRE
Flexible copper stranded woven ground lead reliably carries current to ground during voltage surges.



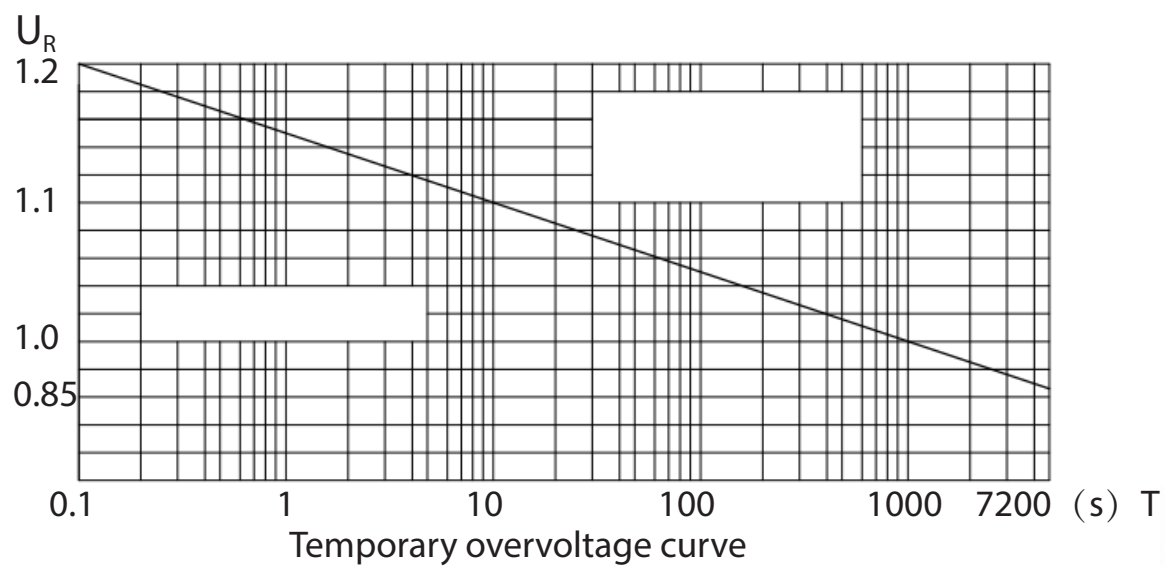
ORDERING INFORMATION

| | |
|--|-----------|
| 17kV/50kV Coupling(Rear) T-body Surge Arrester | 17-RDTA50 |
| 17kV/45kV Coupling(Rear) T-body Surge Arrester | 17-RDTA45 |



Temporary overvoltage (TOV) capability

The Temporary Overvoltage (TOV) capability of the surge arrester is shown as below



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