

Capacitor Voltage Transformers for Outdoor Installation from 72.5 kV to 800 kV



TRENCH

Capacitor Voltage Transformers for Air Insulated High Voltage Substations (72,5 kV to 800 kV)

Instrument transformers and coupling capacitors for high-frequency telecommunication systems

Characteristics:

- Outdoor installation
- Conformity to the main International Standards
- Insulation: film(pp)-paper-synthetic fluid
- Mineral oil insulated electromagnetic unit contained in the transformer's bottom tank
- All external metallic parts in aluminium alloy
- Hermetically sealed construction
- Constant accuracy in all service conditions
- High fidelity of transient response and rapid damping of ferroresonance oscillations
- Maintenance free

Advantages:

- No partial discharges
- Easy installation and commissioning
- Long life cycle time

Suitable for:

- Carrier for high-frequency telecommunication (low-voltage terminal for H.F. coupling located inside secondary terminal box)
- Line trap fixed on the top

Special Optional availables on request:

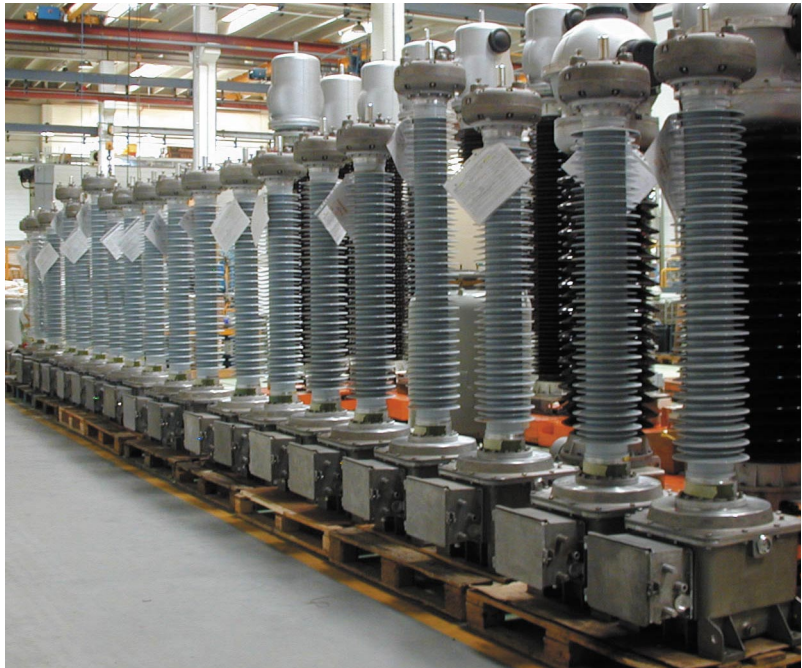
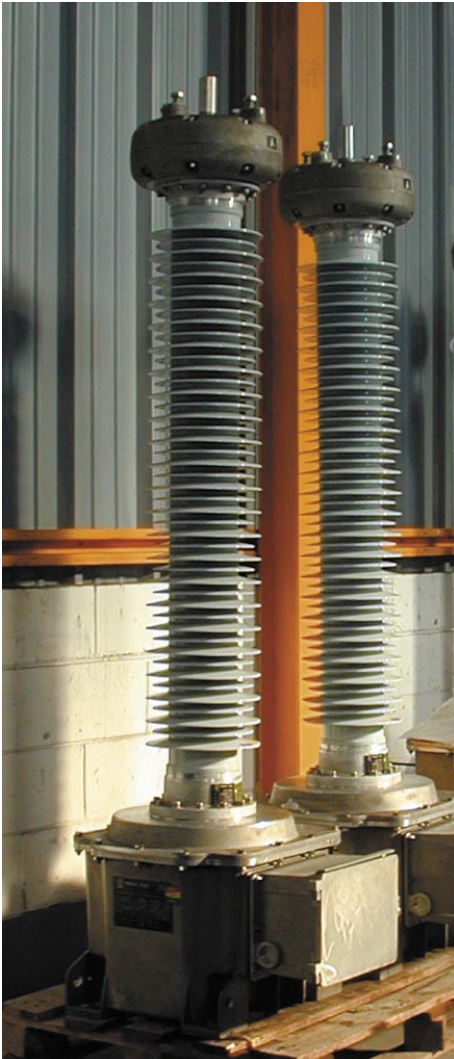
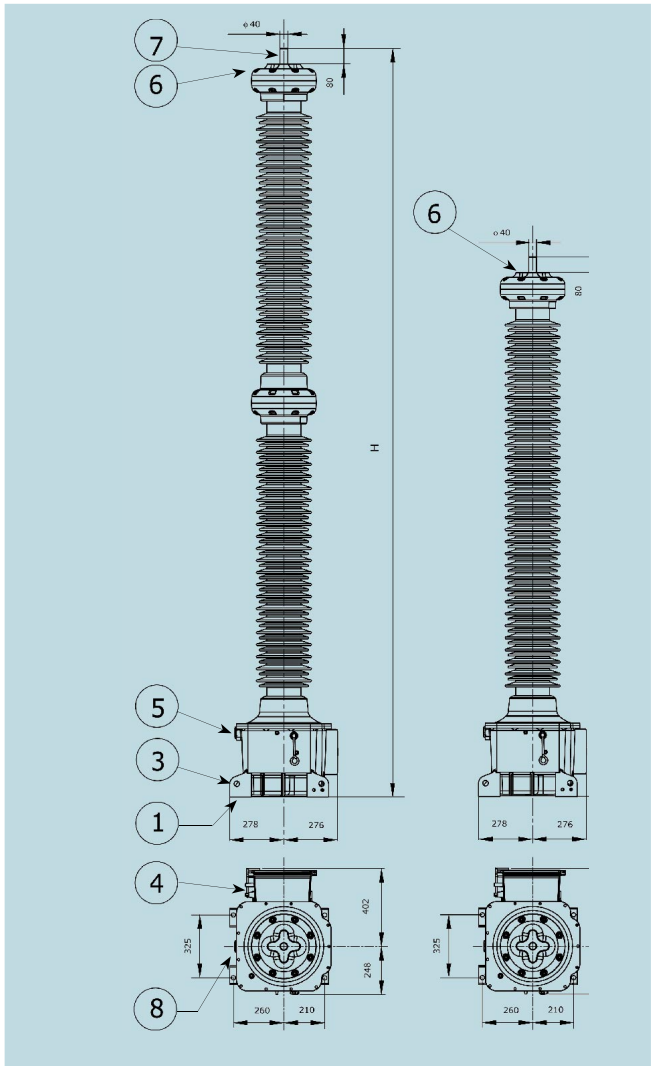
- Fuses or MCBs in secondary terminal box
- Composite Grey insulator (Standard is equipped with Porcelain Brown)
- Carrier accessories (Drain Coil, Earth Switch, Surge Arrester)
- Voltage Tap Grounding Switch

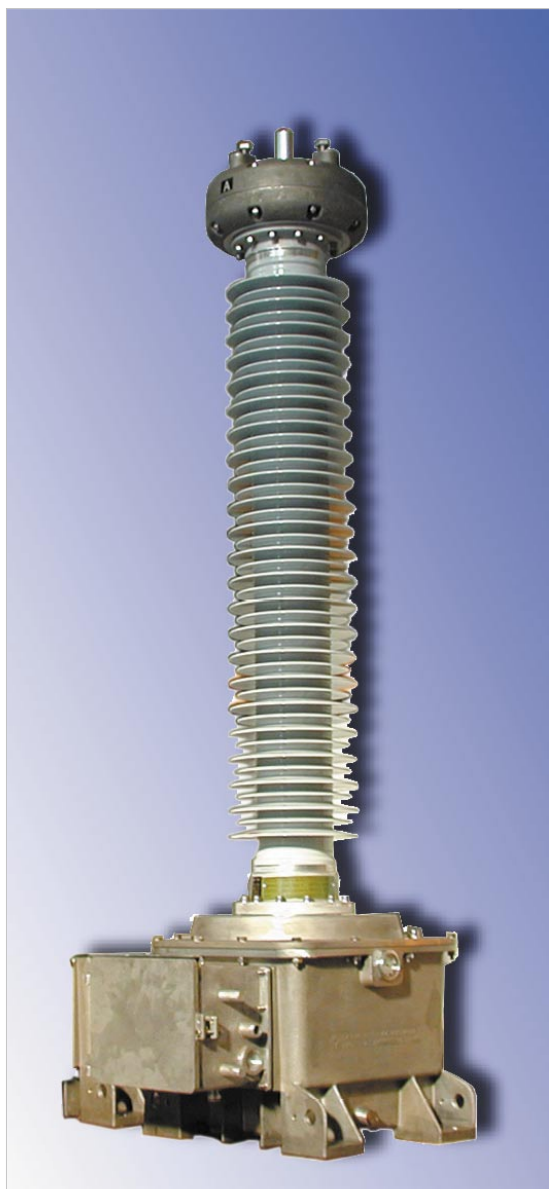
| Type | ELECTRICAL CHARACTERISTICS | | | | | | OVERALL DIMENSIONS AND WEIGHTS | | | | | |
|----------|----------------------------|------------------------|-----------------|-----------|------------------------|------------------|--------------------------------|------------|-------------------|-------|-------|-------|
| | Rated capacitance | Highest system voltage | Test voltages | | Rated primary voltages | Maximum burdens | | | Creepage distance | | H (*) | Total |
| | | | Power frequency | LIWL | | Accuracy classes | | | Standard | Long | | |
| | pF | kV (r.m.s.) | kV (r.m.s.) | kV (peak) | kV | VA | | | mm | | mm | kg |
| | | | | | 0,2 | 0,5 | 1 | | | | | |
| TCVT 72 | 12000 24000 | 72.5 | 140 | 325 | 60:√3 66:√3 | 75 150 | 200 300 | 400 600 | 1813 | 2248 | 1530 | 195 |
| TCVT 123 | 8000 16000 | 123 | 230 | 550 | 110:√3 115:√3 | 75 150 | 250 350 | 500 700 | 3075 | 3815 | 1830 | 215 |
| TCVT 145 | 4000 12000 | 145 | 275 | 650 | 130:√3 132:√3 | 50 100 | 150 300 | 300 600 | 3625 | 4495 | 2025 | 225 |
| TCVT 170 | 4000 10000 | 170 | 325 | 750 | 150:√3 | 50 100 | 150 250 | 300 500 | 4250 | 5270 | 2240 | 240 |
| TCVT 245 | 4000 8000 | 245 | 460 | 1050 | 220:√3 230:√3 | 75 150 | 200 350 | 400 700 | 6125 | 7595 | 2805 | 275 |
| TCVT 362 | 4000 6000 | 362 | 510 | 1175 | 330:√3 | 100 150 | 250 350 | 500 700 | 9050 | 11222 | 3650 | 360 |
| TCVT 420 | 4000 5000 | 420 | 630 | 1425 | 380:√3 400:√3 | 100 150 | 300 350 | 600 700 | 10500 | 13020 | 4285 | 415 |
| TCVT 550 | 4000 5000 | 525 (550) | 680 | 1550 | 500:√3 | 150 200 | 350 450 | 700 800 | 13125 | 16275 | 5000 | 430 |
| TCVT 800 | Data supplied on request | | | | | | | | | | | |

(*) for composite insulator

Capacitor Voltage Transformer TCVT

- 1 - Fixing holes (28 DIA)
- 2 - Earth terminal for 10 to 15 mm dia cable
- 3 - Lifting holes
- 4 - Secondary terminal box
- 5 - Oil level gauge of electromagnetic unit
- 6 - Threaded holes for line trap fixing
- 7 - High-voltage terminal
- 8 - Oil draining plug of electromagnetic unit





- Trench Italia S.r.l.
 Strada Curagnata, 37
 17014 Bragno-Cairo Montenotte (SV) - Italy
 Phone +39 019 5161 111
 Fax +39 019 5161 401
 E-Mail sales.it@trench-group.com

- Trench Austria GmbH
 Paschinger Strasse 49
 A-4060 Linz-Leonding/Austria
 Phone +43 (0)732 6793-0
 Fax +43 (0)732 671341
 E-Mail sales.at@trench-group.com

- Trench Brasil LTDA
 Via Expressa de Contagem, 2685
 Contagem, MG - Brasil
 CEP: 32370-485
 Phone 55.31.391-5959
 Fax 55.31.391-1828
 E-Mail sales@trench.com.br

- Trench Limited
 Coil Product Division
 71 Maybrook Drive,
 Scarborough, Ontario
 Canada, M1V 4B6
 Phone (416) 298-8108
 Fax (416) 298-2209
 E-Mail sales.ca@trench-group.com

- Trench Limited
 Instrument Transformer Division
 390 Midwest Road,
 Scarborough, Ontario
 Canada, M1P 3B5
 Phone (416) 751-8570
 Fax (416) 751-6952
 E-Mail sales.ca@trench-group.com

- Trench France S.A.
 16, rue du Général Cassagnou
 B.P. 70
 F-68302 St-Louis Cedex/France
 Phone +33.3.89 70 23 23
 Fax +33.3.89 67 26 63
 E-Mail sales.fr@trench-group.com

- Trench Germany GmbH.
 Nürnberger Strasse 199
 D-96050 Bamberg/Germany
 Phone +49.951.1803-0
 Fax +49.951.1803-224
 E-Mail sales.de@trench-group.com

- Trench Switzerland AG.
 Lehenmattstrasse 353
 CH - 4028 Basel/Switzerland
 Phone +41.61.315 51 11
 Fax +41.61.315 59 00
 E-Mail sales.ch@trench-group.com

Data and characteristics indicated in this publication may be varied without notice

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