

TJP 4.0-F Indoor Voltage Transformer



WWW.CABLEJOINTS.CO.UK
THORNE & DERRICK UK
 TEL 0044 191 490 1547 FAX 0044 477 5371
 TEL 0044 117 977 4647 FAX 0044 977 5582
 WWW.THORNEANDDERRICK.CO.UK

| | | |
|--------------------------------------|--------|-------------------------|
| Highest voltage for equipment | [kV] | 3.6 – 12 |
| Power frequency test voltage, 1 min. | [kV] | 10 – 28 (42) |
| Lightning impulse test voltage | [kV] | 40 - 75 |
| Fuse : 2 or 6,3 A(IEC) | | |
| Max. rated burden, classes | [VA/c] | 25/0.2 - 50/0.5 - 100/1 |
| Residual winding | [VA/c] | 50 - 200/6P |



Description

The TJP 4.0-F epoxy insulated voltage transformers are cast in epoxy resin and designed mostly for insulation voltages of 3.6 kV to 12 kV.

If no a different value is required the transformers are manufactured with a overvoltage factor of 1.9 x Un/8 hrs. One outlet of the primary winding, including the respective terminal is insulated from the earth to a level which corresponds to the rated insulation value. The other outlet of primary winding with its terminal is earthed during the operation. Most of the transformers are equipped with two secondary windings, the first one for either measuring or protection purposes, the other for being connected into an open-delta connection in a three-phase system. One terminal of each secondary winding and one of the open-delta connected terminals have to be earthed during the transformer operation.

The secondary windings are lead out into a cast-type secondary terminal board. The secondary terminal board is covered with a sealed plastic over.

The transformer can be mounted in any position. The transformer body is fixed by four screws, the bolted M8 earthing clamp is located on the transformer base plate. The TJP 4.0-F transformer is equipped with a fuse conformably to IEC standard.

The design of TJP4.0-F is suitable for AIS panels (see HV terminal and the position of the secondary terminals) and the replacement of the fuse can be done from the front (HV terminal) or after removing the upper part of the fuseholder – see „fuse replacement instruction“. There are two options for the fuseholder position : above secondary terminal box (suitable for ABB AIS, drawing number 1VL4200251R0101) or on the opposite side (drawing number 1VL4200300R0101).

Rated primary voltages ... 3/√3 kV; 3,3/√3 kV; 6/√3 kV; 6,6/√3 kV; 10/√3 kV; 11/√3 kV.

Other primary voltages can also be supplied on request.

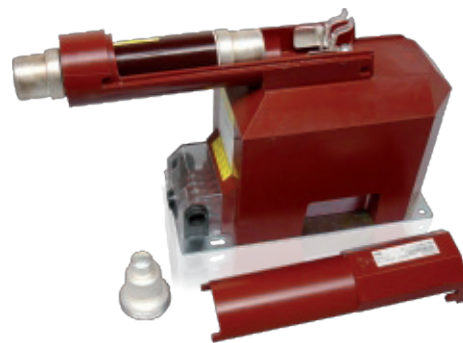
Rated secondary voltages... 100/√3 V; 110/√3 V – accuracy classes 0.2; 0.5; 1 (measuring winding) or 3P;6P (protection winding).

Other secondary voltages can also be supplied on request.

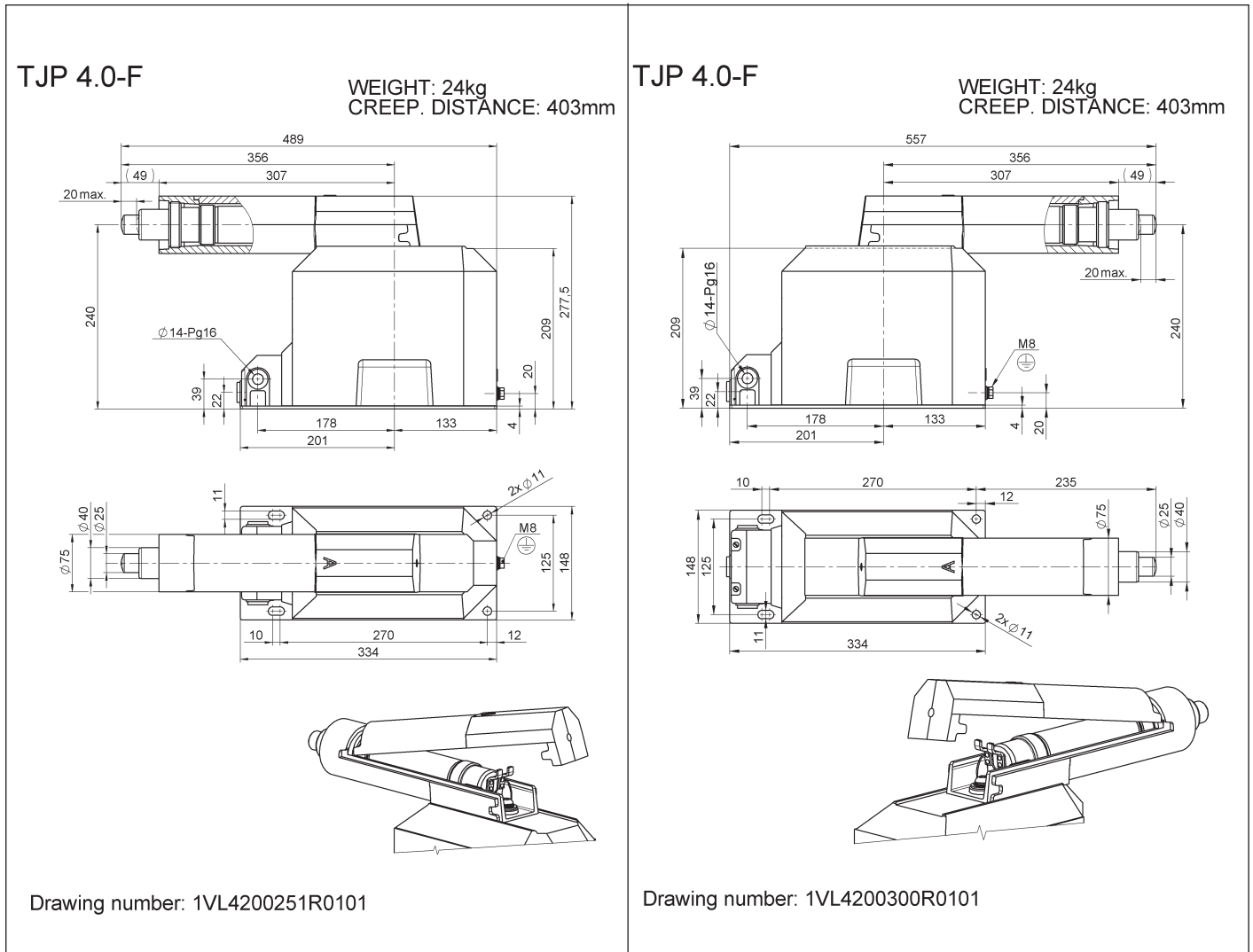
Rated voltages for open-delta connection: ... 100/3 V; 110/3 V- class 6P.

Other voltages for open-delta connection can also be supplied based on customer requirement. Rated frequency ... 50 Hz; 60 Hz.

Based on a discussion with the manufacturer the transformer can also be provided with primary winding designed for two different primary voltages (with secondary side changeover). The transformers are manufactured conformably to the requirements and recommendations of the following standards and regulations: IEC, VDE, ANSI, BS, GOST and CSN.

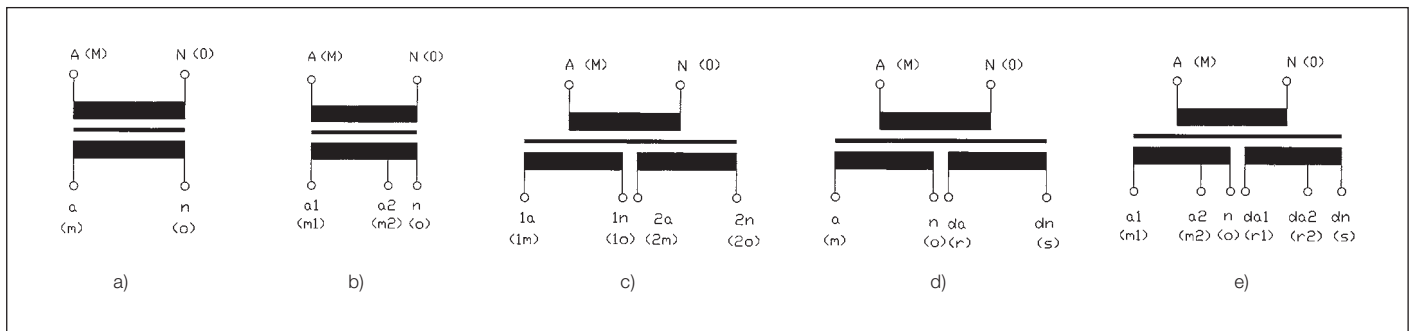


Dimensions



1VL0000522, Rev.1, en 2011.02.15

Marking of the voltage transformer outlets



a) Single-pole insulated transformer b) Double-pole insulated transformer with a tap secondary windings, with one of which being the auxiliary (residual) winding c) Single-pole insulated transformer with two secondary windings d) insulated transformer with two secondary windings, with one which being the auxiliary (residual) winding e) Single-pole insulated transformer with two secondary, tapped windings, with one which being the auxiliary (residual) winding.

ABB s.r.o.

PPMV Brno

Videnska 117

619 00 Brno, Czech Republic

Tel.: +420 547 152 602

+420 547 152 614

Fax: +420 547 152 626

E-mail: info.ejf@cz.abb.com

www.abb.com

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