MEDIUM VOLTAGE PRODUCT

TJMC 6.1; TJMP x.1

Indoor voltage transformers

Description
The TJMP 4.1, TJMP 6.1 and TJMC 6.1 are fully enclosed, epoxy resin cast, single-phase indoor voltage transformers, coated in zinc, reliably grounded, with 1/2 C cone plug-in primary connection used for voltage measurement and protection of the gas insulates switchgear applications up to 24 kV, typically PrimeGear ZX0 panels.

If no other value is required, the transformers are manufactured with an overvoltage factor of 1.9 x Un/8 hrs. One outlet of the primary winding, including the respective terminal and the application, is insulated from the earth to a level corresponding to the rated insulation value. The other outlet of the primary winding terminal is earthed during the operation. The transformer has 6 secondary terminals, which can support up to 3 secondary windings, which can be used for measuring and protection purposes or to be connected into an open-delta connection in a three-phase system. One terminal of each secondary winding have to be earthed during the transformer operation, except for the open-delta connection. The secondary terminal board is covered with a sealable cover made of plastic material. The transformer can be mounted in any position and the assembly is done by the customer installing its own supporting mounting plate screwed on VT by 6x M8 screws respecting the installation and the application.

Fuses
The transformers TJMP are equipped with a fuse conformable to the IEC standard interconnecting the primary contact and the primary winding. The default fuse values for TJMP 4.1 and TJMP 6.1 are 2 A. Optionally upon customer request the TJMP transformers can be supplied with 0.5 A or 1 A fuses or the TJMP 4.1 can be delivered with a conductive (dummy) rod. The fuse type (or conductive rod) must be clearly specified in the offer request and the purchase order.

The fuse is easily removable and replaceable. For more details refer to the Instructions for installation, use and maintenance 1VLM000610 and 1VLM00614.

Ferroresonance elimination
ABB recommends using the advanced security device **VT Guard Pro** to protect the voltage transformer TJMC/TJMP against ferroresonance. For more information refer to the VT Guard Pro / VT Guard Pro–D catalogue 1VLC000651.

Rated primary voltages
TJMP 4.1 up to 11000:√3 V
TJMx 6.1 up to 22000:√3 V

Rated secondary voltages
Star winding 100:√3, 110:√3, 115:√3, 120:√3 V
Open-delta winding 100:3, 110:3, 115:3, 120:3 V
Accuracy classes 0.2; 0.5; 1 (measuring winding)
3P; 6P (protection or residual winding)
Other secondary voltages can be supplied on request.

Insulation voltages
The insulation voltages different from the values mentioned in a table below are subject of an agreement between the manufacturer and the customer.

Rated frequency
50 Hz; 60 Hz.

Operating temperature range
-25 °C / +40 °C

Based on a discussion with the manufacturer the transformer can also be designed for two primary voltages (with the reconnection on the secondary side).

The transformers are manufactured conformably to the requirements and recommendations of the following standards and regulations: IEC, VDE, IEEE, BS, GOST and CSN.

For marking the voltage transformer outlets see the picture 01 a-e.

Parameters		TJMP 4.1	TJMP 6.1	TJMC 6.1
Highest voltage for equipment		12 kV	24 kV	24 kV
Power frequency test voltage, 1 min.		28 kV	50 kV	50 kV
Lightning impulse test voltage		75 kV	125 kV	125 kV
Rated primary voltages		up to 11 000:√3	up to 22 000:√3	up to 22 000:√3
Rated secondary voltages for star winding		100:√3, 110:√3, 115:√3, 120:√3		
Rated secondary voltages for opendelta winding		100:3, 110:3, 115:3, 120:3		
Fuse	Default: Optional:	2 A 0.5 A or 1A or conductive (dummy) rod	2 A 0.5 A or 1 A	Without fuse

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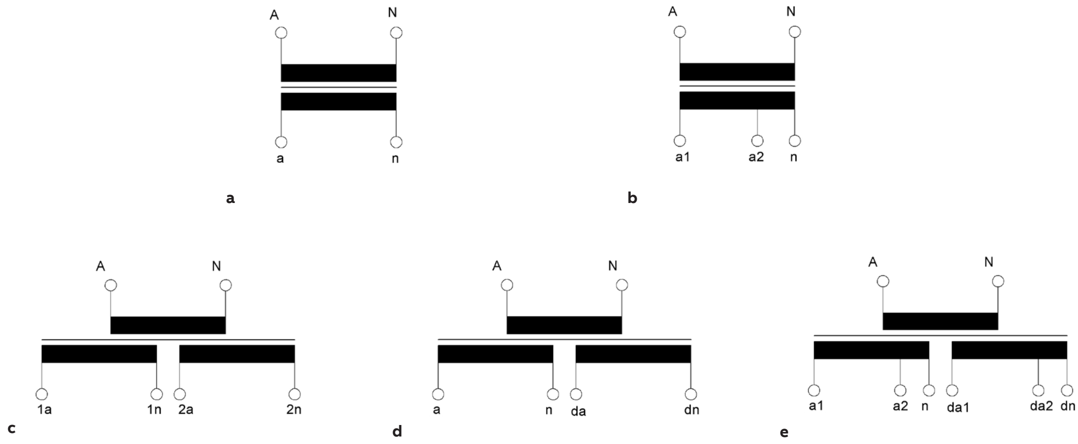
01 Marking of the voltage transformers outlets
a Single-pole insulated transformer
b Single-pole insulated transformer with a tap
c Single-pole insulated transformer with two secondary windings
d Single-pole insulated transformer with two secondary windings, one of which being the auxiliary (residual) winding
e Single-pole insulated transformer with two tapped secondary windings, one being the auxiliary (residual) winding



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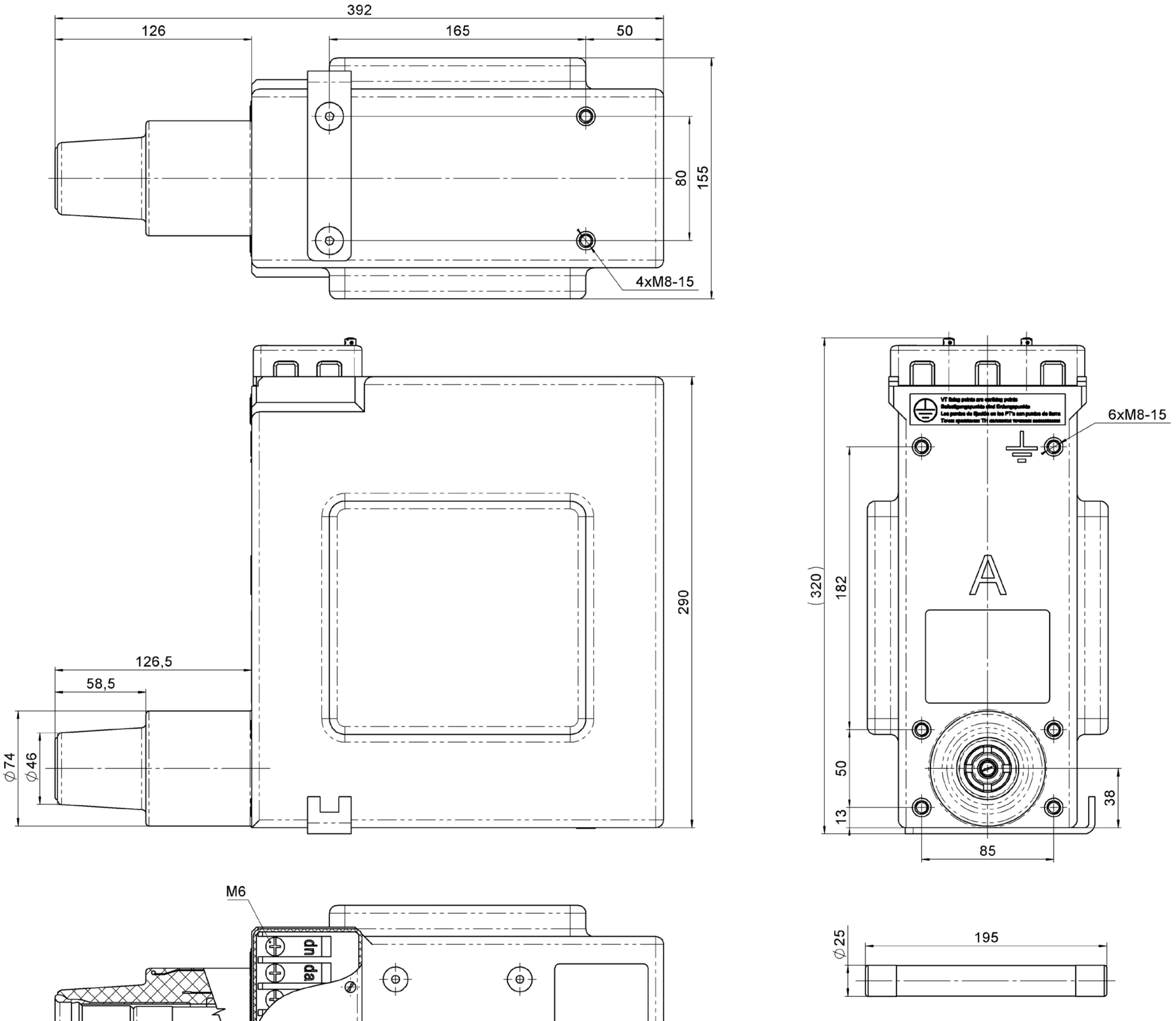
Dimensional Drawing

TJMP 4.1

Weight: 28 kg

PRIMARY CONNECTION : INTERFACE ½ C cone

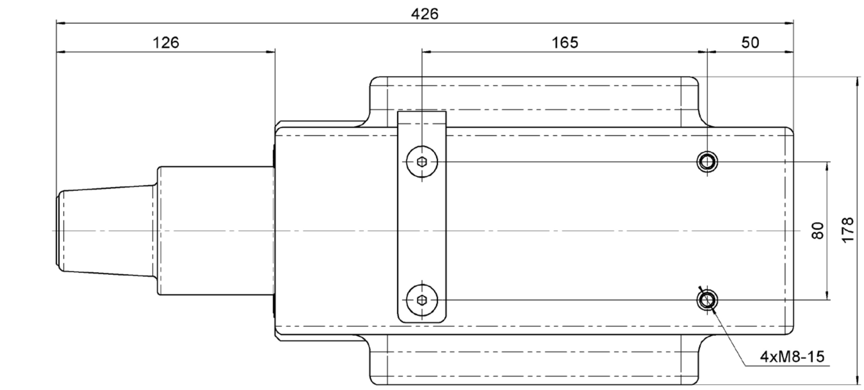


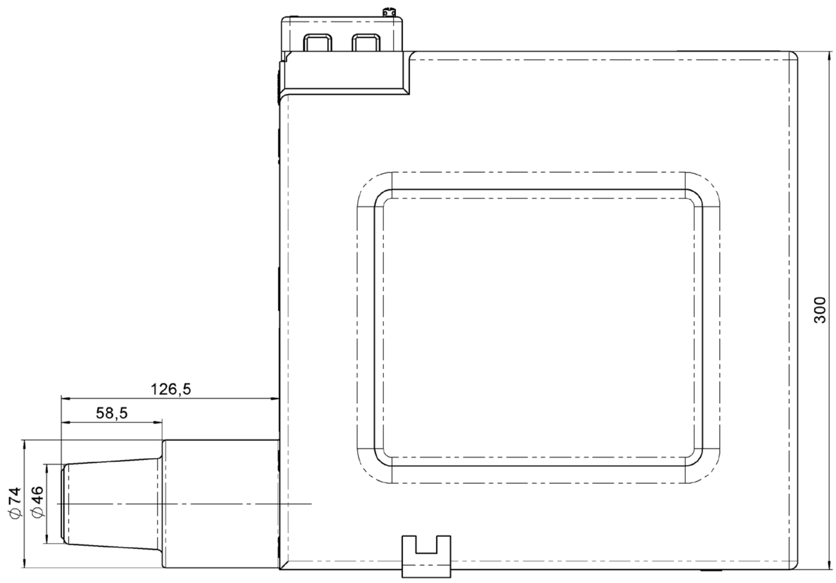
FUSE TYPE
Fuse 0,5A/12kV
Fuse 1A/12kV
Fuse 2A/12kV
Conductive rod (dummy fuse)

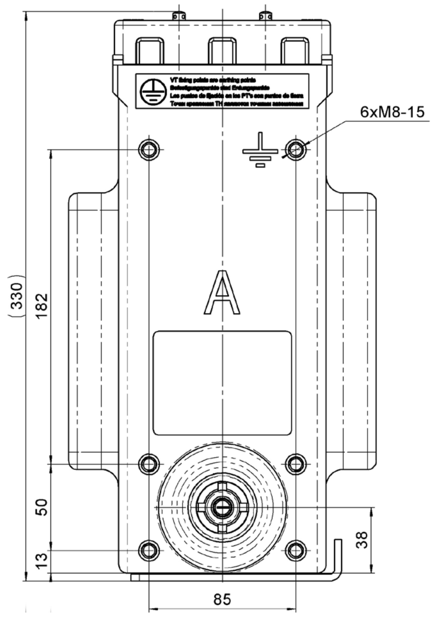
Dimensional Drawing

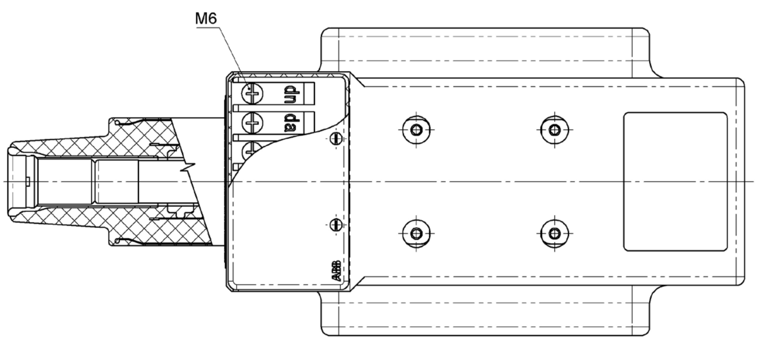
TJMP 6.1

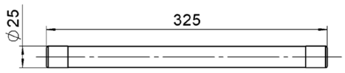
Weight: 40 kg
PRIMARY CONNECTION : INTERFACE ½ C cone











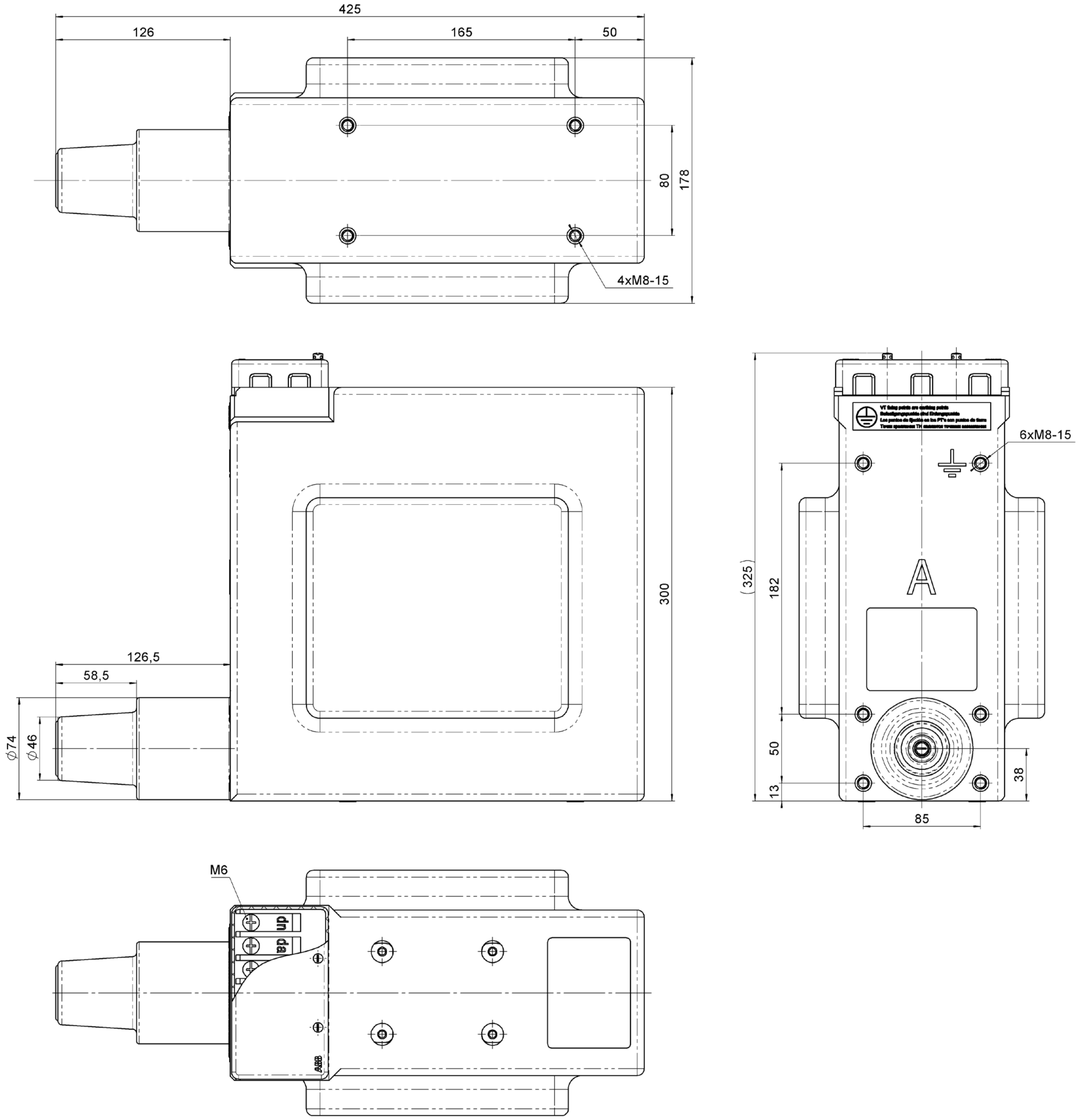
FUSE TYPE
Fuse 0,5A/24kV
Fuse 1A/24kV
Fuse 2A/24kV

Dimensional Drawing

TJMC 6.1

Weight: 40 kg

PRIMARY CONNECTION : INTERFACE ½ C cone



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