

TBS - 250A

EN 50180 transformer bushing

FEATURES

Bushing for outdoor applications in oil insulated transformers.

This bushing has an epoxy resin core that ensures good mechanical performances and excellent insulation level. The external coating consists of liquid silicone rubber co-moulded on the core that guarantees excellent resistance to degradation caused by atmospheric agents (sandstorms, UV radiations, saline environment, industrial pollution...).

The insulator is provided with an aluminium flange for fixing to no°4 M10 studs of the transformer carpentry.

The electric field inside the insulator is controlled by a metal shield. This shield must normally be connected to earth by means of the cable pre-mounted on the insulator, but it can be used to pick up a voltage presence signal, using a special kit supplied separately only on request.

Every bushing is supplied with:

- ✓ Nickel-plated brass nuts and washers for air side connection (M12)
- ✓ Nuts and washers in brass for the oil side connection (M12)
- ✓ Cork rubber seal
- ✓ Screen grounding set
- ✓ Nickel-plated brass cap, prepared for anchoring spark-gap horns
- ✓ Nuts and washers (flat and split) in stainless steel for fixing to the transformer studs (M10)

REFERENCE STANDARDS EN 50180, IEC 60815, IEC 60137

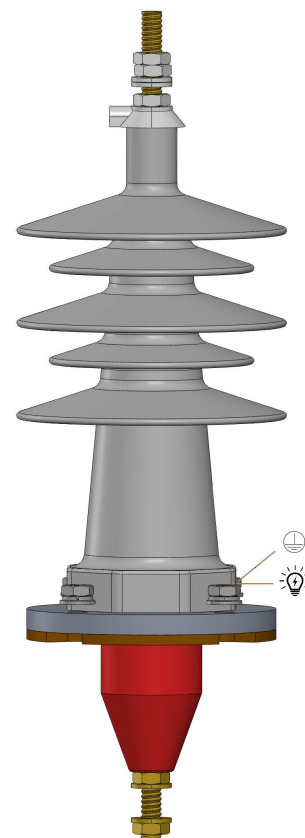
ROUTINE TESTS

- Visual and dimensional check
- Glass transition temperature
- Dry power frequency withstand voltage test
- Partial discharges

TESTS ON DEMAND

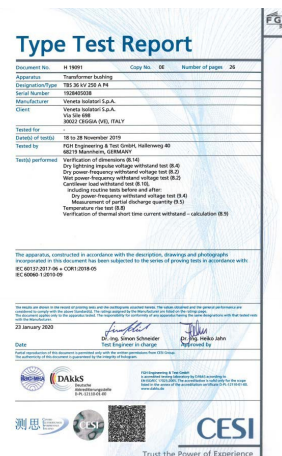
- Dry lightning impulse withstand voltage test
- Bending stress test
- Temperature rise test
- Wet power frequency withstand voltage test

EN 50180 type	Creepage distance (mm)	Drawing	Code	Max. operating voltage	Lightning impulse voltage withstand	Power frequency voltage withstand	Nominal current
12-250/P4	710	95314	95110	12kV	75(170)kV*	30kV	250A
24-250/P2	710	95314	95314	24kV	125(170)kV*	55kV	
24-250/P3	920	95312	95312	24kV	125kV	55kV	
24-250/V1	1175	95313	95313	24kV	125kV	55kV	
24-250/P4	1320	95414	95315	24kV	125(200)kV*	55kV	
36-250/P1	920	95312	95412	36kV	170kV	77kV	
36-250/V1	1175	95313	95413	36kV	170kV	77kV	
36-250/P4	1320	95414	95414	36kV	170(200)kV*	77kV	



MAINTENANCE FREE !

- ✓ good impact and shock resistance
- ✓ easy and quick assembly
- ✓ 100% guaranteed partial discharges
- ✓ **NO OIL IN THE BUSHING BODY** = reduced possibility of loss and consequent fire
- ✓ low need of periodic cleaning



* Tested at FGH-CESI lab.