

Instructions for assembly, operation and maintenance of indoor fuse bases

single- and three-pole design
rated voltage 12, 25 and 38.5 kV
rated current up to 200 A



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Indoor fuse bases

These meet the requirements of EN 62271-1 standard and are designed to accommodate fuse insert to EN 60 282-1+A1, for current from 2 to 200 A, and for voltages of 12; 25 and 38.5 kV.

The advantages of the fuses are their small dimensions and low weight.

The three-pole fuse bases can be equipped with mechanism for remote indication of the fuse tripped state.

The fuse base is made of bent steel sheets, with hot galvanized surface.

Handling and storage

Unpack carefully the fuse base after the arrival. Check for damages caused during the transport. Any damage should be reported immediately to the supplier. After unpacking remove all remaining packaging material from the switching device and accessories.

Lift the fuse base by gripping it at the base frame, only. During the storage protect the fuse base from damages, humidity and dirt.

Operating conditions

The load disconnecter is intended for operation under normal conditions as defined by the EN 62271-1 standard, class „minus 15, indoor use“. Highest ambient temperature: 40°C; average temperature during 24 hours is not allowed to exceed 35 °C.

Assembly

Mounting the fuse base

Screws are to be tightened up in a way to prevent the occurrence of deformation or stress in the fuse base frame (use shim blocks if needed).

Connection of busbars or cable terminals

When making connections take care of the incoming terminals of the fuse base which have to be kept away from stresses. Fix the connecting bolts with 70 Nm torque (using another key in opposite position).

Operation test before putting the device in operation

Check of the trip indication (only for fuse bases equipped with this function)

The check is done either by pushing the fuse contact or using the test fuse cartridge. After tripping the fuse base has to indicate the fuse tripping state. The test is carried out on all three poles.

Maintenance

Under normal operating conditions maintenance works are to be carried out every 10 years. During the maintenance the following works are carried through:

Cleaning

- insulators
- insulated tripping pull rod coming out from the fuses (trip indication)

Lubrication

- all bearings (trip indication) shall be sprayed with greasing oil (Omnigliss or other spray containing Molykote).

If one of the fuses is blown it is recommended to replace also the fuses in other phase lines.