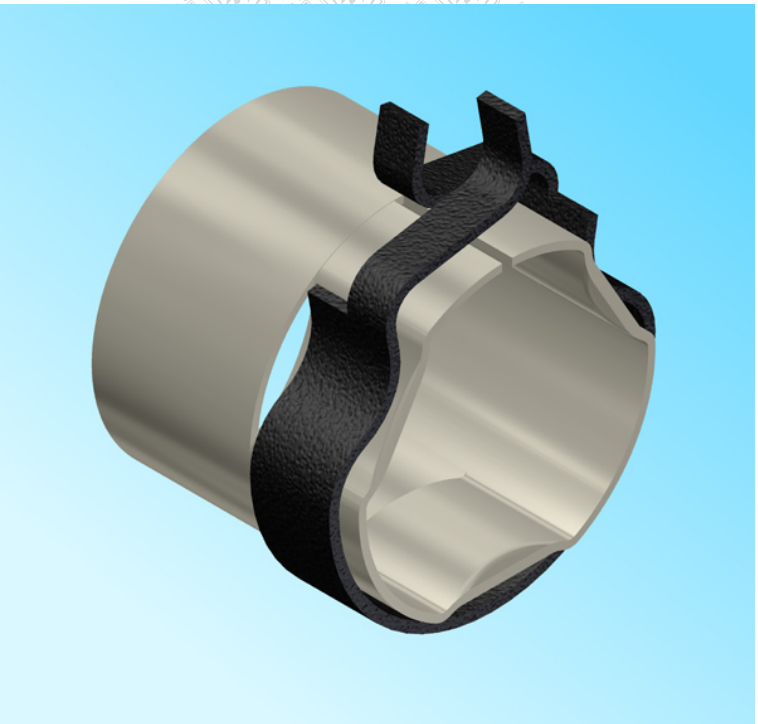
Instructions for assembly, operation and maintenance of fuse reduction adapters PRJ

for use on fuse-bases and switching devices designed initially for J type fuses rated voltage 12, 25 and 38.5 kV



DRIBO, spol. s r.o.

Pražákova 36
619 00 Brno
Czech Republic

Tel.: +420 533 101 111, **Fax:** +420 543 216 619, **E-mail:** dribo@dribo.cz, **Internet:** http://www.dribo.eu

Usage of fuse reduction adapters

The adapters are designed for the accommodation of fuse inserts connected in MV power circuits, for mounting on the existing fuse-bases, switch disconnectors or disconnectors.

One of advantages of the fuse reduction adapters is the possibility of using new type I fuses to EN 60282-1 standard, inserted in fuse-bases and apparatuses originally designed for J-type fuses, without the need of interfering in their construction.

The PRJ fuse reduction adapters are manufactured and offered in two product series – for the existing fuse-base contact diameter of 60 mm and 80 mm. Consequently, in devices designed originally for fuses with higher rated currents (i.e. with larger contact diameter) we can now utilize new types of fuses with lower rated current thanks to the fuse reductions.

The PRJ 1 fuse reduction adapters are designed for to be mounted in the existing switching devices with contact diameter of 60 mm. The PRJ 2 types are designed for to be mounted in switching devices with contact diameter of 80 mm. The PRJ S fuse reduction adapters are equipped with an element serving to transfer the energy of fuse tripping pin, which can be used e.g. in the existing fused switch disconnectors.

The PRJ fuse reduction adapters are equipped with a pressure spring to ensure the high reliability of electric current transfer between the reduction adapter and the fuse.

The current-carrying part of the fuse reduction adapters is made from electroplated nickel-coated copper. The steel pressure spring of the reduction adapters is protected from corrosion by the Delta Tone 9000 technology.

Handling and storing

The fuse reduction adapters are delivered in sets of 2 pcs, embedded in a plastic bag.

After the arrival of the package carefully unpack the fuse reduction adapters. When doing this, check for mechanical damage that might has occurred during the transport. Any damages have to be reported immediately to the supplier/forwarder.

When storing the fuse reduction adapters protect them from damage, humidity and contamination.

Operating conditions

The transfer switches are intended for operation in normal operating conditions as defined by EN 60721 or EN 50123-1 standards.

According to the above standards the following limits for ambient temperature apply:

- lowest ambient temperature: – 25 °C,
- highest daily average ambient temp.: + 35 °C,
- absolute highest ambient temperature: + 40 °C.

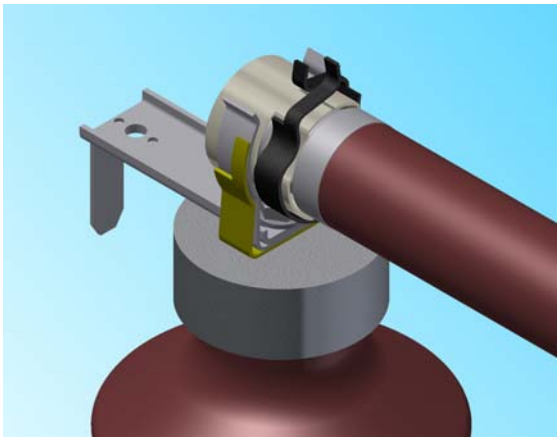
Mounting the fuse reduction adapters

Compress the pressure spring of the fuse reduction adapter, and pull the adapter on the contact area of the new fuse (type I to EN 60282-1 standard). Continue on the other side of the fuse, using the same procedure.

After the fuse reduction adapters have been pulled on, check the position of the pressure spring on the adapter. The fuse equipped in this manner can now be inserted in the contacts of the existing device, designed initially for the insertion of J-type fuses.

When mounting the set of fuse reduction adapters of PRJ 1 38 type it is necessary to fix the larger part on the upper side of the fuse (as there are two different parts in the set).

When mounting the set of fuse reduction adapters of the PRJ S type take heed of the correct orientation of the fuse, and be particular about assembling the part with the energy transfer element of the fuse tripping tip, which is to face the fuse side with the tripping pin.



Maintenance

The PRJ fuse reduction adapters are maintenance-free elements.