

Installation and Operating Manual

for EPOTECHNIK Fuse Switch Disconnecter Types: NL, NLS and NLE.

The fuse switch disconnectors are used to close and disconnect rated operating current of up to 630A, max 440V DC and max 690V AC. It is also possible in the version NLS with integrated circuit breakers, as well as in the version NLE with electronic fuse monitoring. All disconnectors are suitable for mounting in switch gear and for the installation of sheet metal and molded insulation housing. The supply must be carried out from above. Built-in casting boxes are only possible for types NL and NLS and not for NLS.

Installation:

After removing the hinged lid and the base frame's insulating parts the base frame is fastened with 4 screws, M6 spring washer and ring washer. Then the connection bolt of the contact lugs with the enclosed screw accessory pack are screwed to the connections (busbar or cable).

Connection of the main conductors: with cable lug	Gr. 00	Gr. 1	Gr. 2	Gr. 3
According to DIN 46234 (mm ²)	6 - 95	6 - 150	6 - 240	6 - 2x240
according to DIN 46235 (mm ²)	16 - 95	16 - 150	16 - 240	16 - 2x240
With Busbar (mm)	15 - 25	15 - 25	25 - 30	25 - 60
Connection Bolt	M 8	M 10	M 12	M 16
Tightening torque (Nm)	10 - 20	20 - 39	35 - 60	50 - 90
Connection of protective earth conductor: with cable lug	Gr. 00	Gr. 1	Gr. 2	Gr. 3
According to DIN 46234 (mm ²)	2,5 - 50	2,5 - 70	6 - 2x70	16 - 2x120
According to DIN 46235 (mm ²)	16 - 50	16 - 70	16 - 2x70	16 - 2x120
With Busbar (mm)	15	25	25	30
Connection Bolt	M 6	M 8	M 10	M 10

We recommend when tightening the hex nuts on the contact terminal lug hold the screw head against the back (size 1 - 3).

Subsequently, the upper and the lower contact protection are to be locked.

When connecting the auxiliary lines for type NLS and NLS with fuse monitoring, there are, inserted behind the front wall of the lower contact protection, 2 contact holders each with 2 contacts which can be plugged onto the flat 2.8mm or 6.3mm flat plug.

Screwable contacts can also be provided on request. When the disconnector is on, the contacts are connected to potential free auxiliary switches of the fuse monitoring which are marked on the front wall with 13, 14 and 21, 22.

Operation:

Then the lid is stocked with the NH-fuse links which corresponds to the fuse switch disconnector size.

NH-Fuse Switch Disconnector	00	160 A	Input	00
NH-Fuse Switch Disconnector	1	250 A	Input	1
NH-Fuse Switch Disconnector	2	400 A	Input	1 to 2
NH-Fuse Switch Disconnector	3	630 A	Input	1 to 3

Ensure that for the fuse switch disconnectors NLS and NLE with fuse monitoring, the spring clips are present at the contact blades of the NH-fuse links.

Finally, the lid is hooked into the mounted base frame of the fuse switch disconnector.

The activation should be done quickly until the left mounted ratchet on the hinged lid locks into place.

To open the hinged lid press the left-hand push-button to release the lock.

In addition, the isolation of the disconnector can be extended upwards and downwards by the BGV A3 covers.

Maintenance of the built-in fuse switch disconnector is not necessary, but relieved after several years of use, greasing the factory-provided greased contacts operation noticeably.

Note: The commissioning of the disconnector must be done by qualified personnel.