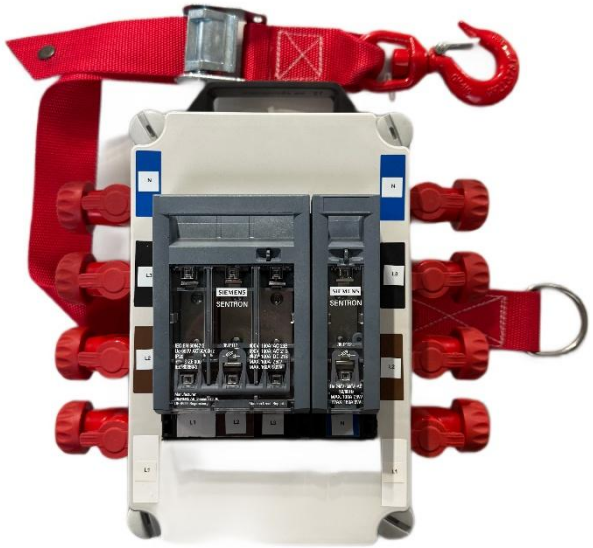
D112.0909

TECHNICAL SHEET
2026.01

SAFETY IN POWER

PRB B3H+N Switchgear for three-phase + N, Portable Shunt,160 A

PHOTO



Product compliant with the requirements of: EN 61439-1:2011, EN 61439-4:2013

Rated operational current	160 A	Maximum fuse link	160 A
Rated operational voltage	690 V AC	Size of fuse link	000
Rated insulation voltage	690 V AC	Weight (without fuse-cartridge and insulated connecting conductors)	5,6 kg
Rated impulse withstand voltage	8 kV	Permissible ambient temperature	-25 °C To 55 °C
Connection cable set* (standard)	D112.2017 – 4 psc. D112.2014 – 4 psc.	Mechanical durability	2000 cycles

The weight tolerance is ±2%. Due to continuous product development, the appearance of the product may slightly differ from that shown in the photographs.
*At the customer's request, we can modify the set of connection cables supplied with the switchboard.

CHARACTERISTICS

The bypass switchboard is built using a three-pole SENTRON fuse switch disconnector, type 3NP1123-1CA20, and a single-pole SENTRON fuse switch disconnector, type 3NP1121-1CA20, manufactured by SIEMENS. The bypass disconnectors are housed in a thermosetting enclosure. A plastic handle and an adjustable polyamide strap are attached to the enclosure, allowing the disconnector to be mounted on a pole. A set of SILICOUL 1.1 kV connection cables by OMERIN, connected to the input and output terminals of the disconnector, enables bypassing sections of circuits with loads of up to 160 A. The D112.0909 bypass disconnector is equipped with four 160 A input terminals and four 160 A output terminals.

APPLICATION

A device for bypassing parts of electrical circuits intended for disassembly in order to replace or repair them while maintaining continuity of current flow in the circuits. The switch enables safe bypassing of circuit fragments on uninsulated, insulated or mixed overhead lines up to 690 V AC. Used to disconnect connections where the load cannot be removed.

PRB B3H+N Switchgear for three-phase + N, Portable Shunt,160 A

STORAGE AND MAINTENANCE

D112.0908 switchgear should be stored in dry rooms, in a chemically non-aggressive atmosphere and protected from sunlight. Cover the input and output sockets with a protective cap. Dirty parts of the housing, cables and insulating elements of sockets and terminals should be cleaned with a dry cloth or one moistened with gasoline thinner. Wet band should be dried in a ventilated place. To clean the band, use warm water (up to 40 °C) with a mild detergent. After cleaning, dry the band thoroughly at a temperature not exceeding 50 °C. Clean the metal elements of the band with a cloth moistened with gasoline thinner and dry thoroughly. Cleaning the device's components with gasoline thinner should be done in an open space or in a ventilated room only after the components have reached the ambient temperature.
To clean and maintain the conductive parts of sockets, clamps and disconnectors, use technological oil that displaces moisture and improves electrical conductivity.

EXAMINATION

Before each use, the portable shunt device should be visually inspected:

- technical condition of the device, completeness and functionality, durability of fastenings,
- condition of current paths - stability of screw connections,
- the technical condition of the input and output connection sockets,
- condition of the band tape (abrasions, fraying),
- condition of the band mounting brackets.

Replace damaged (cracks) or excessively worn (deformation, signs of overheating) components with new ones. Perform periodic tests as recommended in the D112.0908 operating instructions.

CAUTION!
In case of doubt after visual inspection, the switchgear should be repaired or taken out of service for live working.

FREQUENCY TESTS

For check and periodic inspection to be carried out in according to table.

	CHECK	PERIODIC INSPECITON
Who	Team Leader / Foreman	Supervision
When	Before each use	Annually*
How	Visually (visual inspection) and manually (correct operation)	Visually (visual inspection) and manually (correct operation)

**Unless instructions say otherwise*