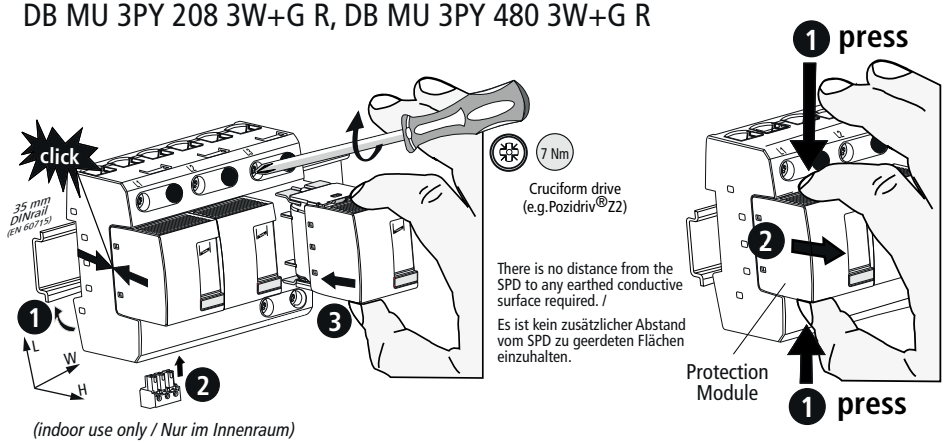
INSTALLATION INSTRUCTIONS

Publication No. 1887 / UPDATE 03.16 Mat No. 3000989

DEHNbloc®modular

DB MU 3PY 208 3W+G R, DB MU 3PY 480 3W+G R



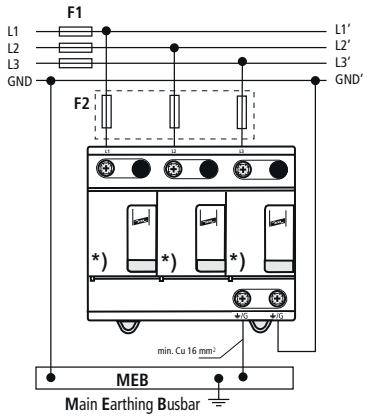
(indoor use only / Nur im Innenraum)

Technical data / Technische Daten

Typ	DB MU 3PY 208 3W+G R	DB MU 3PY 480 3W+G R
U_N (50 / 60 Hz)	120 Vac / 208 Vac	277 Vac / 480 Vac
MCOV	150 Vac / 260 Vac	320 Vac / 555 Vac
I_{imp} 10/350 µs	35 kA	25 kA
I_{total} 10/350 µs	75 kA	
I_n 8/20 µs	20 kA	
SCCR	25kA	30 kA
fuse max.	any Class J 150-200 A or LVSP-60 *(Parallel connection, see Fig. 1)*	
ϑ	-40°C ... + 80°C	
humidity / Feuchte	5% ... 95%	
IP Code	IP 20 (built in / eingebaut)	
L x W x H	90 mm x 108 mm x 73 mm	
Application	UL Type 1 Component Assembly / CSA-C22.2 No. 8-13, Electrical Notice No. 516 Type 2 Component Assembly	
Approval standard	UL 1449 4th edition	

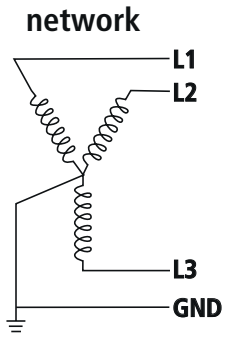
Cu Conductor	15.5 mm / 15.5 mm / 15.5 mm
min. ☐ L1, L2, L3 ⏚ / G	25 mm² / 4 AWG
max. ☐ L1, L2, L3, ⏚ / G	35 mm² / 2 AWG

Fig. 1 Parallel connection / Stichverdrahtung



Protection Module
*) DB MOD 150
for
DB MU 3PY 208 3W+G R

Protection Module
*) DB MOD 320
for
DB MU 3PY 480 3W+G R



Backup fuse / Vorsicherung

DEHNbloc modular
DB MU 3PY ... 3W+G R

F1	F1 > Class J 150-200 A or LVSP-60 ↓ F2 ≤ Class J 150-200 A or LVSP-60
F2	F1 ≤ Class J 150-200 A or LVSP-60 ↓ ~~F2~~

Mechanical fixing / Mechanische Befestigung

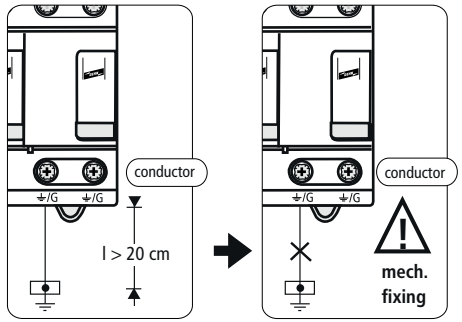
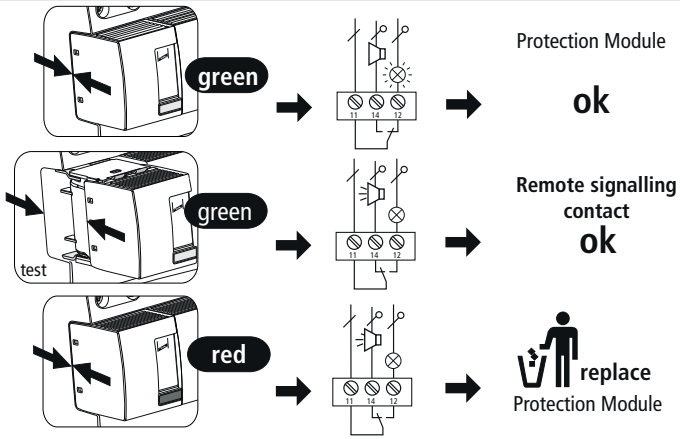
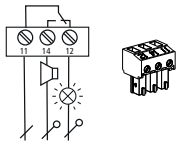


Fig. 2 Fault indication / Defektanzeige



Remote signaling contact / Fernmelde Kontakt

DEHNbloc modular DB MU 3PY _ _ _ 3W+G R



The remote status indicator (SPDT contact) shall be connected to NEC class 2 circuits only!

Cu max. 1.5 mm² / 14-22 AWG

= Audio Alarm/Alert

= PLC / Monitoring System Connection

p.t.o. Safety Instructions

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Type 1 Component Assembly

RoHS 2002/95/EC

Überspannungsschutz
Blitzschutz/Erdung
Arbeitsschutz
DEHN schützt.®

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DEHNbloc MU 3PY _ _ _ 3W+G R
Modular Multipole Lightning Arrester

1. Safety Instructions

⇒ The DEHNbloc® MU series SPD is to be installed only by qualified personnel and to be done so in compliance with all local and National Electrical Code requirements.

⇒ For proper system protection and safety, coordination with other SPDs within the facility must be considered. Contact our application engineer for assistance if in doubt.

⇒ Installation and connection to service must be done only when the system is de-energized.

⇒ The arrester's installation is to be compliant with its rating and therefore must not be installed in a more severe environment subjecting it to higher voltages, currents or energy levels than for which its technical specifications provide.

⇒ These devices must be provided with a suitable end-product enclosure having adequate strength and thickness and with acceptable spacings being provided.

⇒ The arrester is designed for indoor applications and must be placed in a suitable rated NEMA enclosure if the system is to be in a harsher environment.

⇒ Some devices employ two grounding terminals, however they have only been evaluated for single-port applications only. The suitability of the use of the grounding connection as an equipment grounding conductor has not been determined. As such, the combination of this product in the end-use application to comply with the applicable end-product Fault Current Testing requirements shall be determined.

⇒ Opening or tampering with the thermoplastic enclosure may damage the effective operation of the SPD and is inadvisable and will void the warranty.

2. General Installation Instructions

Sections 250 and 285 of the NEC (NFPA 70) and the IEEE Green Book-Std. 142 should be consulted. Local electrical codes and/or the Canadian Electrical code also have to be considered.

System voltage: Make sure that the SPD is correctly rated for the system where the SPD should be applied. **The maximum continuous operating voltage (MCOV) must not be exceeded.**

Mounting: Make sure that the SPD is installed as close as possible to the device to be protected. The conductor length for these connections must be kept as short and as straight as possible. The SPDs are to be mounted on the 35 mm DIN rail. The rail is to be securely mounted to the back of the interior of the panel or flat surface using ¼ inch bolts every 8 inches (200 mm). The SPDs can either be slid on the rail from open end or put on the rail by compressing the spring loaded clamping device on the lower back of each unit. The SPDs shall permit sufficient clearance for conductor power and signaling connections.

Conductor Connections: Phase connections to the SPD and ground side connections from the SPD to the ground bus must be of the wire size indicated in the technical specifications before. Insulation should be stripped back as described on the previous page. All conductor terminal screws shall be tightened to the torque indicated in the technical data. If the SPDs are installed more than six conductor feet (two meters) from the neutral to ground bond point (usually service entrance) than an additional SPD should be installed between neutral and ground (at the service entrance).

Grounding: Make sure that the grounding of the SPD is as short and straight as possible with the specified wire size according to the technical data. Use a local equipotential bonding bar if possible. For proper operation the SPD must be connected to a low impedance ground. Recommend using the largest diameter (high strand count) wire possible without exceeding the technical data for maximum wire size.

Remote Contact Signaling: In case of a device with remote contact signaling make sure that the torque is as indicated in the technical data.

Fusing: The DEHNbloc® MU is designed to be installed with fuses. It is suitable for use on a circuit with maximal SCCR and Nominal Voltage according to Technical Data.

Problem Diagnostics: If there should be any problem please contact your local DEHN representative.