(1) # TYPE EXAMINATION CERTIFICATE

(2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**

(3) Type Examination Certificate Number:

TÜV 20 ATEX 8527 X

Issue: 01

(4) Equipment: **Surge Protector BlitzductorConnect BCO *L2 B* *, BCO CL4 B* ***

(5) Manufacturer: **DEHN SE**

(6) Address: **Hans-Dehn-Str. 1**
92318 Neumarkt,
Germany

(7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557 / Ex8527.01 / 20.

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN IEC 60079-0: 2018 **EN 60079-7:2015** **EN IEC 60079-7:2015/A1:2018**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

(12) The marking of the equipment shall include the following:

II 3 G **Ex ec IIC T4 Gc**

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2025-05-14

Digital unterschrieben von Christian Mehrhoff

This Type Examination Certificate without signature and stamp shall not be valid and may be circulated only without alteration.
Extracts or alterations are subject to approval by Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH.
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(13)

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Annex to

Type Examination Certificate

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(15) Description of Equipment

Equipment and type:

Surge protector type BlitzductorConnect **BCO *L2 B* *** and **BCO *L4 B* ***
The first asterisks in the type designation will be replaced by letters and indicate the respective type of the construction of the equipment.

Type **BCO CL2 B* *and BCO CL4 BC* *** are compact version.

Type **BCO ML2 B* *** is a modular version with module type **BCO MOD ML2 B*** *.

The second asterisk in the type designation **BCO *L2 B* *** is replaced by the letter D or E or a space:
The letter D indicates the protection of a symmetrical interface.
The letter E indicates the protection of a non-symmetrical interface.

The fiirst asterisk in the type designation **BCO CL4 B* *** is replaced by the letter D, E or C or a space:
The letter D indicates the protection of a symmetrical interface.
The letter E indicates the protection of a non-symmetrical interface.
The letter C indicates the protection with additional transverse voltage limitation

The type designation **BCO * L2 B 180** indicates a pure lightning current arrester.

The last asterisk in the type designation is replaced by a number and indicates the connectable nominal voltage in volts.
If the last asterisk is replaced by the letter combination HF 5, the connectable nominal voltage is 8.5 volts.

General product information:

The surge protector is a universal lightning and surge arrester.
The differential voltage is limited by a gas-arrester and a one or two TVS diodes. The common mode voltage to earth is limited by two gas-arresters (600 V).
The surge protector can be installed inside areas with gas that require category 3 equipment.

Details of Change:

New types are added

Type BCO CL4 BC 24,
Type BCO ML2 BE 180,
Type BCO ML2 BD 180
Type BCO ML2 BE HF 24,
Type BCO ML2 BD HF 24

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New Company name

from	to
DEHN SE + Co KG Hans-Dehn-Str. 1 92318 Neumarkt Germany	DEHN SE Hans-Dehn-Str. 1 92318 Neumarkt Germany

Factory location changed

from	to
DEHN SE + Co KG Hans-Dehn-Str. 1 92318 Neumarkt Germany	DEHN SE Am Ludwigskanal 1 92361 Mühlhausen, Germany

Technical data:

1) Input circuit
Terminals No. 1 – 2

Types BCO *L2 B 180

Maximum input voltage	180 V
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	1,2 A

Types BCO *L2 B* 12

Maximum input voltage	15 V
Allowable maximum input current	0,6 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,75 A
at the maximum ambient temperature Ta = 70 °C	

Types BCO *L2 BE 24

Maximum input voltage	33 V
Allowable maximum input current	0,6 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,75 A
at the maximum ambient temperature Ta = 70 °C	

Types BCO *L2 BE 48

Maximum input voltage	54 V
Allowable maximum input current	0,6 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,75 A
at the maximum ambient temperature Ta = 70 °C	

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Types BCO *L2 BD 24	
Maximum input voltage	36 V
Allowable maximum input current	0,6 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,75 A
at the maximum ambient temperature Ta = 70 °C	
Types BCO *L2 BD 48	
Maximum input voltage	56 V
Allowable maximum input current	0,6 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,75 A
at the maximum ambient temperature Ta = 70 °C	
Types BCO *L2 B* HF 5	
Maximum input voltage	8,5 V
Allowable maximum input current	0,6 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,75 A
at the maximum ambient temperature Ta = 70 °C	
Type BCO CL4 BC 24	
Maximum input voltage	36 V
Allowable maximum input current	3 A
at the maximum ambient temperature Ta = 80 °C	
Type BCO ML2 BE 180	
Maximum input voltage	180 V
Allowable maximum input current	0,4 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,5 A
at the maximum ambient temperature Ta = 70 °C	
Type BCO ML2 BD 180	
Maximum input voltage	180 V
Allowable maximum input current	0,4 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,5 A
at the maximum ambient temperature Ta = 70 °C	
Type BCO ML2 BE HF 24	
Maximum input voltage	36 V
Allowable maximum input current	0,6 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,75 A

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Type BCO ML2 BD HF 24	
Maximum input voltage	36 V
Allowable maximum input current	0,6 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,75 A

2). Output circuit (protected)
Terminals No. 1‘ – 2‘

The maximum values of the output circuit are identical to those that are connected to the input circuit defined above under 1).

3). The functional earth connection via the DIN rail is not a connection facility according to IEC 60079-0.

Environmental data

Ambient temperature range:
-40 °C ≤ Ta ≤ +80 °C for types BCO CL2 B 180, BCO CL4 BC 24 and BCO ML2 B 180
-40 °C ≤ Ta ≤ Tamax according to electrical data listed above for all other types

(16) Test report No.: 557 / Ex8527.01 / 20

(17) Special Conditions for safe use

1. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
2. The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with IEC 60079-0.
3. The environmental data must be taken into account – see electrical data above and the operating instructions.

(18) Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed at item 9.

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2025-05-14

Digital unterschrieben von Christian Mehrhoff

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