


[1] EC-TYPE EXAMINATION CERTIFICATE
**[2] Component Intended for use on/in equipment or protected system
intended for use in Potentially explosive atmospheres
Directive 94/9/EC**

- [3] EC-Type Examination Certificate Number: **Nemko 03ATEX264U Issue No.: 3**
- [4] Component: **Enclosure TNBCD**
- [5] Applicant / Manufacturer: **Bartec Technor AS**
[6] Address: **Dusavikveien 39
NO-4003 Stavanger
NORWAY**
- [7] This Component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] Nemko AS, notified body number 0470 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system 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 atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential report no. 240241
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
**CENELEC EN 60079-0: 2012, CENELEC EN 60079-1: 2007
CENELEC EN 61241-0: 2006 and CENELEC EN 61241-1: 2004**
- [10] The sign “U” placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- [11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC.
Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- [12] The marking of the component shall include the following:

 **II 2 G/D** **Ex d IIB Gb**
Ex tD A21 IP66/67/68

Oslo, 2013-09-24

Asle Kaastad
Certification Manager, Ex-products

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[13] Schedule

[14] EC-TYPE EXAMINATION CERTIFICATE No **Nemko 03ATEX264U Issue No.: 3**

[15] Description of Component

This Certificate covers empty enclosure TNBCD of stainless steel AISI 316L/CF-3M which may be equipped with:

- one or more certified Ex e box on any side of the enclosure.
- internal hinges
- glass window in lid, walls and bottom of enclosure
- threaded holes in lid, walls and bottom side of enclosure
- maximum number of entries are 18, maximum size are M42. Positions are described on drawing made for each standard size of box. Drawing with a reference number BCD-40-3

Type Designation

TNBCD	XX	XX	XX	
				Dimension of box, depth in cm, max. 38cm
				Dimension of box, height in cm, from 19 to 57cm
				Dimension of box, width in cm, from 19 to 57cm

Ingress Protection Code

IP66, IP67 or IP 68 – 0,4 bar, 2 hours, according to EN 60529: 1991

[16] Report No. 240241

Certificate History and Associated Nemko Test Reports

Issue:	Date:	Test Report No.:	Description
0	2003-06-26	10071	Prime Certificate released
1	2004-02-27	16458	New design of enclosure due to lower service temperature (-50°C)
2	2011-02-18	158565	Certificate updated to newer editions of the standards and dust certification. See [9].
3	2013-09-24	240241	Upgrade to new standards EN 60079-0: 2012, EN 60079-1: 2007

Descriptive Documents

Name/Title	Drawing No.	Rev.	Date	Sheets
General arrangement drawing for TNBCD	BCD-09-4	D	04.07.2013	1
Flamepath details for TNBCD with inside gasket	BCD-14-4	I	12.07.2013	1
Alternativ flammespalte detalj på TNBCD med utvendig pakning	BCD-06-4	H	04.07.2013	1
EEx de kombinasjoner for TNBCD XXXXXX	BCD-07-4	E	04.07.2013	1
Bestyknings detaljer for TNBCD XXXXXX	BCD-08-4	E	04.07.2013	1
Principle drawing for rectangular window in TNBCD enclosure	BCD-55-4	E	04.07.2013	1
External window for Ex d enclosure	CDX-75-4	D	04.07.2013	1
Window arrangement for Ex d enclosure	CDX-22-4	H	23.09.2013	1
Shaft arrangement for Exd	CDX-76-4	E	11.07.2013	1

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Hinge arrangement for TNBCD	BCD-105-4	B	04.07.2013	1
Label, Ex d TNBCD	BCD-59-5	G	03.11.10	1
Flammespaltetetaljer for TNBCD med ekstern pakning / Flamepath details for TNBCD with external gasket	BCD-06-4	I	12.07.2013	1
Location of line bushing TNBCD	BCD-40-3	B	04.07.2013	1

Routine Test

Routine testing according to clause 16 in EN 60079-1 shall be carried out. The reference pressure is 9,9 bar.

[17] Schedule of Limitations

Certification with Tamb. -50°C is limited to enclosure up to TNBCD 575738 with lid of stainless steel and lid with window type 195 according to drawing CDX-75-4.

IP67 and IP 68 – 0,4 bar only for TNBCD, without windows, with gasket according to BCD-14-4.

Degree of Ingress protection according to EN60529 has not been tested with the arrangement with lamp globe, push buttons and window according to BCD-09-4.

When windows according BCD-55-4 are used the temperature on the cementing/window shall not exceed +70°C.

For other windows the temperature on the cementing/window shall not exceed +90°C.

Maximum number of entries are 18, maximum size are M42. Positions are described on drawing made for each standard size of box. Drawing with a reference number BCD-40-3

Rotating machines, or other devices which create turbulence, shall not be incorporated.

Oil-filled circuit-breakers and contactors shall not be used.

[18] Essential Health and Safety Requirements

See item 9

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