Base Load Power Hub (BLPH)

EX CERTIFICATION LIST

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Rev.	Date	Description	Prepared	Reviewed	Approved

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Revision / Change Log

Rev.	Description
00	Issue for Review (IFR)
01	Accepted for Construction (AFC)
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Base Load Power Hub (BLPH)

AC UPS - TAG: UP-200F3

AC UPS - TAG: UP-200F4

DC UPS - TAG: UP-200F1

EX CERTIFICATE LIST

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EX CERTIFICATE LIST

BATTERY PROTECTION BOX TAG NUMBER	CERTIFICATE
CB-200F3 A/B CB-200F4 A/B CB-200F1	EPT 20 ATEX 4075X

METAL CABLE GLANDS – NEV*** series	CERTIFICATE
CB-200F3 A/B CB-200F4 A/B CB-200F1	IMQ 17 ATEX 016 X

TEMPERATURE PROBE FOR AC UPS	CERTIFICATE
BA-200F3 A/B BA-200F4 A/B	PTB 06 ATEX 1077

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eurofins | Product Testing

[1] # EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment intended for use in potentially explosive atmospheres**
Directive 2014/34/EU – Annex III

[3] Certificate Number: **EPT 20 ATEX 4075 X** **issue 0**

[4] Equipment: **Explosion proof command, control, signaling and interfaces units**

Series: **EJBC**

[5] Manufacturer: **CORTEM S.P.A.**

[6] Address: Via Aquileia, 10 – 34070 Villesse (Go) - Italy

[7] This equipment and its accepted variations are specified in the annex to this Certificate.

[8] Eurofins Product Testing Italy S.r.l., Notified Body n. 0477 in accordance with Article 21 of the Directive 2014/34/EU of the European Parliament and of the Council of 26th February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II of the Directive.
The examination and test results are recorded in the confidential Report N° EPT.20.REL.01/ 2013057.

[9] Compliance with the essential health and safety requirements is assured through the verification of them and by compliance with the harmonized standards:

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-11:2012, EN 60079-31:2014

[10] If the sign "X" is placed after the Certificate number, it indicates that the equipment is subject to the special conditions for safe use specified in the annex to this Certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design, the exam and the tests of the specified equipment.
Further requirements of the Directive 2014/34/EU apply to the manufacture and supply of this equipment.
These requirements are not object of this Certificate.

[12] The equipment shall include the sign Ex and at least one of the following strings:

II 2G Ex db IIC T6...T4 Gb **-60/-40°C < Tamb< +40/55°C**
II 2G Ex db [ia Ga] IIC T6...T5 Gb
II 2D Ex tb IIIC T85°C...T135°C Db
II 2D Ex tb [ia Da] IIIC T85°C...T100°C Db
I M2 Ex db I Mb
I M2 Ex db [ia Ma] I Mb

CE

Place and date of issue:
Torino, 2020-11-30

Dionisio Bucchieri
Directive Responsible

Paolo Trisoglio
Managing Director

Eurofins Product Testing Italy eurofins Notified Body N. 0477

ACCREDIA L'ENTE ITALIANO DI ACCREDITAMENTO

PRD N° 119B
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This Certificate has 6 pages and it is reproducible only in its entirely. Conditions of validity are reported below.

[13] [14] **ANNEX**
EU-TYPE EXAMINATION CERTIFICATE N. EPT 20 ATEX 4075 X issue 0

[15] Equipment description

The command, control, signaling and interface units EJBC... series are made of Ex-d enclosures (already certificated IECEX EUT 20.0023U, EPT 20 ATEX 4074U) with electrical devices. The command, control, signaling and interface units EJBC series can have installed on their walls signal, control operators and maneuvers series M-0... with lamps 3W, 5W or electronic led up to 240V (certificate IECEX CES 14.0030U / CESI 01 ATEX 025U), monoled M-0487 (certificates IECEX CES 11.0030U / CESI 00 ATEX 060U). Inside the enclosure switches, indicators, contactors, transformers, analogue and digital components can be installed. Small cells or batteries, eventually connected in series, are installable inside the enclosure according to the requirements of the § 23 of IEC 60079-0. A transmitting/receiving antenna with an IECEx/ATEX full compliance certificate, suitable for the maximum internal pressure and service temperature, can be also installed on the wall of the equipment.

The EJBC series are manufactured in copper free aluminum alloys EN AB 43000 or EN AB 44100 or EN AB 42000 according to UNI EN 1676. The EJBCX series are manufactured in stainless steel AISI 303, AISI 304, AISI 316, AISI 316L. The products can be supplied with external painting with surface resistance lower than 10^8 Ω, having minimum thickness of 60 µm and maximum thickness of 200 µm, color grey RAL 7035, with or without the coating named CORALUM to protect the box against corrosion. CORALUM is a surface protection treatment based on an electro-ceramic coating applied by electrolytic deposition method directly on the aluminum alloy. Alternatively it is possible the use of other types of painting made in non-metallic materials according to customer specification; various kind of colors are allowed. In this case a warning label is added regarding the risk of electrostatic charge.

Drain and breather valves, manufactured by Elfit, ECD-2... series, certified CESI 01 ATEX 081U, IECEx CES 14.0016U with types of protection Ex d, Ex tb can be installed in accordance with their own specific limitations. The EJBC can also be used with only terminal blocks installed inside.

Type Code:

EJBC- ☐ ☐ ☐ ☐ ☐

- Code of the series (EJBCX for the stainless-steel versions)
- SIZE: **45 - 5**
- HEIGH: BLANK for standard, B for low height
- Not relevant for explosion protection
- Not relevant for explosion protection
- Not relevant for explosion protection

Equipment characteristics:

Nominal voltage: 12-250 V dc / 24-1000 V ac

Nominal frequency: 0/50/60 Hz

Max. current 650 A

Rated voltage: up to 750Vdc

[13] ANNEX
[14] EU-TYPE EXAMINATION CERTIFICATE N. EPT 20 ATEX 4075 X issue 0

Maximum electrical equipment ratings inside the boxes:

Description	V	Output dissipated (W)	A
Analogic digital instruments	660	10	5
Electronic gear case	400	10	-
Plc, multiplexer, amplifier	240	80	-
Control and gauging device	240	100	-
Automatic breakers	660	-	650
Fuses	660	-	400
Air thermal relays	500	12	10
Alectronic control device	660	100	-
Air contactors	660	30	650
Sequence timer	240	5	10
Photoelectrical cell	240	2	-
Capacitors (discharge time)	660	-	-
Transformers	660	200	-
Resistors	240	300	-
Terminals	660	-	-
Ballasts	277	40	7,5

Maximum dissipated power:

Type	Maximum dissipated power inside enclosures			
	Tamb. = +40°C (+55°C)			
	No signaling lamps, only LED are allowed		With signaling lamps and/or LED	Without signaling lamps and LED
	T6 / T85°C	T5 / T100°C	T5 / T100°C	T4 / 135°C
EJBC 45	140 W (105 W)	240 W (180 W)	140 W (105 W)	480 W (360 W)
EJBC 45 B	120 W (90 W)	210 W (160 W)	120 W (90 W)	430 W (320 W)
EJBC 5	210 W (160 W)	315 W (235 W)	210 W (160 W)	600 W (450 W)
EJBC 5 B	170 W (130 W)	250 W (190 W)	170 W (130 W)	480 W (360 W)

[13]
[14]

ANNEX
EU-TYPE EXAMINATION CERTIFICATE N. EPT 20 ATEX 4075 X issue 0

Boxes are suitable for installation of motor inverter units complete with internal cooling fan having the following characteristics in terms of power and size of the enclosure dimensions:

Box size	Motor inverter maximum power for Ta +40°C (+55°C)	Maximum dissipated power	Cooling fan maximum capacity
EJBC-45 / EJBC-45B	2,2 (1,5) kW	73W	44m³/h
EJBC-5 / EJBC-5B	5,5 (4,0) kW	172W	44m³/h

Boxes are suitable for ignition transformer with following electrical characteristics: max primary voltage 1000 V - max secondary voltage 20 kV (impulse 25 kV max for 3 ms) – max secondary current 50 mA.

The radio frequency source for continuous transmissions and for pulsed transmissions inside the enclosures shall not exceed the following values: max threshold power, effective output power of the transmitter multiplied by the antenna gain 2W - thermal initiation time 20µs. For pulsed radar and other transmissions where the pulses are not short compared with the thermal initiation time, the threshold energy values shall not exceed 50µJ.

Boxes are suitable for incoming and outgoing fiber optics cables; the limits of irradiated power and irradiance are:
temperature class T6, power 15 mW, irradiance 5 mW/mm²;
temperature class T4, power 35 mW, irradiance 5 mW/mm².

Cable entries

The entries into the enclosures are provided with threaded holes in the walls of the enclosure.

The cable glands to be used with the equipment must be Ex db and Ex tb (IP66) in compliance with the requirements of EN/IEC 60079-0 and EN/IEC 60079-1 / EN/IEC 60079-31.

Warning label

"Use screws of quality A2-70 according UNI 7323 with tensile strength of at least 700 N/mm2"

"Warning - do not open when energized"

For equipment with capacitors:

"After de-energizing. Wait 10 minutes before opening".

For enclosures with batteries or cells:

"Warning – Do not open when an explosive atmosphere is present".

For equipment with temperature class T5:

"Use cables suitable for temperature of 90°C".

For equipment with temperature class T4:

"Use cables suitable for temperature of 100°C".

For equipment without standard painting:

"Potential electrostatic charging hazards".

[13] [14] **ANNEX**
EU-TYPE EXAMINATION CERTIFICATE N. EPT 20 ATEX 4075 X issue 0

Routine tests
Overpressure tests at 19,1 bar (for equipment with minimum T amb -60°C) or at 17,1 bar (for equipment with minimum T amb - 40°C), according to § 15.2.3.2 of IEC 60079-1 standard, must be carried out on each enclosure, including (also separately from the enclosure) all the following components not type tested at least at 51 bar (for equipment with minimum T amb -60°C) or at 46,5 bar (for equipment with minimum T amb - 40°C): control and signal operators series M-0... CESI 01 ATEX 025U with lamps 3W, 5W or electronic led up to 240V; monoled M-0487, CESI 00 ATEX 060U.

[16] **Assessment Report n° EPT.20.REL.01/2013057.**

This EU-Type Examination Certificate is released after the positive result of the conformity assessment of the Council Directive 2014/34/EU and to harmonized technical standards listed in this certificate performed by the Notified Body Eurofins Product Testing Italy S.r.l., and reported in the Assessment Report above cited.

[17] **Specific condition of use**

The flameproof joints of the enclosures are not intended to be repaired.

The accessories used for cable entries and for closing unused openings shall be certified according to EN/IEC 60079-0, EN/IEC 60079-1 and EN/IEC 60079-31. A minimum degree of protection IP66/67 shall be guaranteed according to IEC 60529 standard.

[13] ANNEX
[14] EU-TYPE EXAMINATION CERTIFICATE N. EPT 20 ATEX 4075 X issue 0

[18] **Essential Health and Safety Requirements**

Assured by compliance with harmonized standards.

[19] **Descriptive documents**

The equipment object of this Certificate are described by the following documents that are scheduled documents and therefore they cannot be modified without the explicit authorization of the Notified Body.

Type of document	Document identification	Rev.	Date
Technical note	"TECHNICAL NOTE A4-7540"	00	2020-06-08
Safety instructions	"F-472 R0: enclosures series EJBC.. safety, maintenance and mounting instruction"	00	2020-06-08
Dimensional drawing	Drawing code "A1-7538".	00	2020-06-08

[20] **Terms and conditions**

The product liability rests with the Manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/EC.

The following conditions may render this certificate invalid:

- changes in the design or construction of the product;
- changes or amendments to the Directive;
- changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the 2014/34/EU Directive.

[21] **History**

This Certificate is at its first issue.

Dionisio Bucchieri
Directive Responsible

End of Certificate

[1] # EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use in potentially explosive atmospheres - Directive 2014/34/EU – Annex III – MODULE B: EU-TYPE EXAMINATION**

[3] EU-type Examination Certificate number: **IMQ 17 ATEX 016 X**

[4] PRODUCT: **Metal cable glands for armoured and not armoured cables**

TYPE/SERIES: **NAV***; NAVN***; NAVF***; NEV***; NEVX***; NEVL***;NAVNS***;NAVFS***

[5] MANUFACTURER: **CORTEM S.p.A.**

[6] ADDRESS: Via Aquileia, 10 - 34070 Villesse (GO) - Italy

[7] This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documents therein referred to.

[8] IMQ, notified body N° 0051, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product 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 Report No.: **AT19-0042694-01_A**

[9] Compliance with Essential Health and Safety Requirements, except in respect of those listed at item 18 of the annex, has been assured by compliance with:

EN IEC 60079-0:2018; EN 60079-1:2014; EN IEC 60079-7:2015 + A1:2018; EN 60079-31:2014

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

II 2G	**Ex db IIC Gb**
II 2G	**Ex eb IIC Gb**
II 2D	**Ex tb IIIC Db**

THIS CERTIFICATE CANCELS AND REPLACES THE PREVIOUS ONE. IT INCLUDES 1 ANNEX.

FIRST ISSUE	2017/10/17
CURRENT ISSUE	2022/01/31
PREVIOUS ISSUE	2017/10/17
EXPIRING DATE	2032/01/30

B.U. PRODUCT CONFORMITY ASSESSMENT
CERTIFICATION SECTOR - MANAGER

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PRD N° 005 B
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[13] # Annex

[14] EU-type Examination Certificate number: **IMQ 17 ATEX 016 X**

[15] **Description of product:**

The cable glands series NAV…, NEV… are designed for the type of protection flameproof enclosures Ex db IIC and for the type of protection increased safety Ex eb IIC, Ex nR IIC.
The cable glands of the series are also protected against the risk of explosion for the presence of combustible dust Ex tb IIIC.
These cable glands can be used in Ex i intrinsic safety circuits. In this case the cable gland have a part painted in light blue
The cable glands series NAV ***; NAVN ***; NAVF ***; NAVNS***; NAVFS** are suitable for not armoured cables, with circular section either with not-circular section (typically for use with flat "heating" cables).

The cable glands series NEV ***; NEVX ***; NEVL *** are suitable for armoured cables, with circular section.
Cable glands are made of metal body (nickel plated brass; galvanized steel; stainless steel), sealing rings are made of silicon for all types.

The cable gland for not-armoured cables comprises: a main metallic body with silicone lower gasket (flameproof joint), a metallic/not-metallic made compression ring, a metallic clamping nut with silicone upper gasket.

The cable gland for armoured cables comprises: a main metallic body with silicone lower gasket (flameproof joint), armoured tightening nuts, a metallic intermediate body, a metallic clamping nut with silicone upper gasket.

Additional details on compression rings, O-ring for IP, spacers and rings are detailed in Table 2.

Cable glands are provided, on the side attached to enclosure, with the following main mounting threads type:
- NPT ANSI ASME B1.20.1
- ISO METRIC pitch 1.5.
Other types of thread are permitted, according to details listed in key code.

Protection degree IP66/68 is guaranteed by usage of suitable sealant put at least on two complete threads engaged of the threaded coupling, according to manufacturer's instructions.

IPx8 is achieved at the following conditions: 3 bar for 12 hours.

Cable glands are suitable for high mechanical risk (7J).

Trademark: CORTEM; ELFIT; CORTEM Group

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[13] # Annex

[14] EU-type Examination Certificate number**: IMQ 17 ATEX 016 X**

[15.1] **Models/Series Identification:**

Table 1: Rated ambient temperature range (°C) and cables		
Serie:	**Rated ambient temperature**	**Cable type**
NAV *** NAVN *** NAVF ***	-60 ÷ 130 °C	Circular, not-armoured Flat (i.e. heating cables), not-armoured
NEV *** NEVX ***	-60 ÷ 130 °C	Circular, armoured
NEVL ***	-60 ÷ 130 °C	Circular, armoured (lead sheath)
NAVNS *** NAVFS ***	-60 ÷ 130 °C	Swivel, not armoured

Table 2: Materials [1]						
Series	Body materials	Sealing rings material	O-ring gasket	Compression ring	Conical armour rings	Spacers/internal rings
NAV*** NAVN *** NAVF ***	Nickel plated brass Galvanized steel Stainless steel	Silicone	Silicone	Nickel plated brass Galvanized steel Stainless steel Aluminium Plastic (PPS)	-	Teflon
NEV *** NEVX ***	Nickel plated brass Galvanized steel Stainless steel	Silicone	Silicone	-	Nickel plated brass Galvanized steel Stainless steel	Teflon
NEVL ***	Nickel plated brass Galvanized steel Stainless steel	Silicone	Silicone	-	Nickel plated brass Galvanized steel Stainless steel	Teflon Steel/Brass for connection to lead sheath
NAVNS *** NAVFS ***	Nickel plated brass Galvanized steel Stainless steel	Silicone	Silicone	-	-	-
[1] Non-metallic materials are suitable for declared service temperature of cable glands: -60 ÷ 130 °C						

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[13] # Annex

[14] EU-type Examination Certificate number: **IMQ 17 ATEX 016 X**

Table 3.1[2]: Cable glands for circular, not-armoured cables - Series: NAV ***; NAVN ***; NAVF ***						
Model (Metric)	**Metric thread pitch 1.5**	**Model (NPT)**	**NPT thread**	**Clamping range min-max cable Ød mm**	**Torque value [Nm]**	**Clamping limitation (X)**
NAV 12 I * NAVN 12 I * NAVF 12 I *	M12x1.5	NAV 02 N * NAVN 02 N * NAVF 02 N *	1/4"	3.0-6.0	25	Yes
NAV 16 I * NAVN 16 I * NAVF 16 I *	M16x1.5	NAV 01 N * NAVN 01 N * NAVF 01 N *	3/8"	3.5-8.6	25	Yes
				4-8.6		No
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	6.3-11.6	35	No
NAV 20 I * NAVN 20 I * NAVF 20 I *	M20x1.5	NAV 1 N * NAVN 1 N * NAVF 1 N *	1/2"	6.5-14	35	No
NAV 25 I * NAVN 25 I * NAVF 25 I *	M25x1.5	NAV 2 N * NAVN 2 N * NAVF 2 N *	3/4"	11-20	45	Yes
				12-20		No
NAV 32 I * NAVN 32 I * NAVF 32 I *	M32x1.5	NAV 3 N * NAVN 3 N * NAVF 3 N *	1"	17-27	85	Yes
				20-27		No
NAV 40 I * NAVN 40 I * NAVF 40 I *	M40x1.5	NAV 4 N * NAVN 4 N * NAVF 4 N *	1" ¼	22-32	85	Yes
				24-32		No
NAV 50S I * NAVN 50S I * NAVF 50S I *	M50x1.5	NAV 5S N * NAVN 5S N * NAVF 5S N *	1" ½	29.5-38	90	No
NAV 50 I * NAVN 50 I * NAVF 50 I *	M50x1.5	NAV 5 N * NAVN 5 N * NAVF 5 N *	1" ½	35.5-44	90	No
NAV 63S I * NAVN 63S I * NAVF 63S I *	M63x1.5	NAV 6S N * NAVN 6S N * NAVF 6S N *	2"	40-50	95	No
NAV 63 I * NAVN 63 I * NAVF 63 I *	M63x1.5	NAV 6 N * NAVN 6 N * NAVF 6 N *	2"	47-56	95	No
NAV 75S I * NAVN 75S I * NAVF 75S I *	M75x1.5	NAV 7S N * NAVN 7S N * NAVF 7S N *	2" ½	53-62	100	No
NAV 75 I * NAVN 75 I * NAVF 75 I *	M75x1.5	NAV 7 N * NAVN 7 N * NAVF 7 N *	2" ½	59-68	110	No
NAV 90 I * NAVN 90 I * NAVF 90 I *	M90x1.5	NAV 8 N * NAVN 8 N * NAVF 8 N *	3"	66-79	120	No
NAV 100 I * NAVN 100 I * NAVF 100 I *	M100x1.5	NAV 9 N * NAVN 9 N * NAVF 9 N *	3" ½	76-91	150	No
NAV 115 I * NAVN 115 I * NAVF 115 I *	M115x1.5	NAV 10 N * NAVN 10 N * NAVF 10 N *	4"	86-98	170	No

[2] metric pitch 1.5 and NPT threads cable glands sizes are shown; models with other threads, as detailed in Key Code, are available. Full list in drawings listed to Certificate

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[13] # Annex

[14] EU-type Examination Certificate number: **IMQ 17 ATEX 016 X**

Table 3.2[2]: Cable glands for not-circular (flat), not-armoured cables - Series: NAV ***; NAVN ***; NAVF ***						
Model (Metric)	**Metric thread pitch 1.5**	**Model (NPT)**	**NPT thread**	**Cable dimensions axb (mm)**	**Torque value [Nm]**	**Clamping limitation (X)**
NAV 16 I * NAVN 16 I * NAVF 16 I *	M16x1.5	NAV 01 N * NAVN 01 N * NAVF 01 N *	3/8"	7.7x5.5	20	Yes
NAV 20 I * NAVN 20 I * NAVF 20 I *	M20x1.5	NAV 1 N * NAVN 1 N * NAVF 1 N *	1/2"	7.7x5.5	30	Yes
NAV 20 I * NAVN 20 I * NAVF 20 I *	M20x1.5	NAV 1 N * NAVN 1 N * NAVF 1 N *	1/2"	8.7x3.5	30	Yes
NAV 20 I * NAVN 20 I * NAVF 20 I *	M20x1.5	NAV 1 N * NAVN 1 N * NAVF 1 N *	1/2"	9.7x4.1	30	Yes
NAV 20 I * NAVN 20 I * NAVF 20 I *	M20x1.5	NAV 1 N * NAVN 1 N * NAVF 1 N *	1/2"	10.2x4.1	30	Yes
NAV 20 I * NAVN 20 I * NAVF 20 I *	M20x1.5	NAV 1 N * NAVN 1 N * NAVF 1 N *	1/2"	10.7x4.6	30	Yes
NAV 20 I * NAVN 20 I * NAVF 20 I *	M20x1.5	NAV 1 N * NAVN 1 N * NAVF 1 N *	1/2"	10.7x5.1	30	Yes
NAV 20 I * NAVN 20 I * NAVF 20 I *	M20x1.5	NAV 1 N * NAVN 1 N * NAVF 1 N *	1/2"	10.7x6.1	30	Yes
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	7.7x5.5	25	Yes
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	8.7x3.5	25	Yes
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	9.7x4.1	25	Yes
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	10.2x4.1	25	Yes
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	10.7x4.6	25	Yes
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	10.7x5.1	25	Yes
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	10.7x6.1	25	Yes
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	11.7x5.6	25	Yes
NAV 25 I * NAVN 25 I * NAVF 25 I *	M25x1.5	NAV 2 N * NAVN 2 N * NAVF 2 N *	3/4"	7.7x5.5	40	Yes
NAV 25 I * NAVN 25 I * NAVF 25 I *	M25x1.5	NAV 2 N * NAVN 2 N * NAVF 2 N *	3/4"	8.7x3.5	40	Yes
NAV 25 I * NAVN 25 I * NAVF 25 I *	M25x1.5	NAV 2 N * NAVN 2 N * NAVF 2 N *	3/4"	9.7x4.1	40	Yes
NAV 25 I * NAVN 25 I * NAVF 25 I *	M25x1.5	NAV 2 N * NAVN 2 N * NAVF 2 N *	3/4"	10.2x4.1	40	Yes
NAV 25 I *	M25x1.5	NAV 2 N *	3/4"	10.7x4.6	40	Yes

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[13] # Annex

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NAVN 25 I * NAVF 25 I *		NAVN 2 N * NAVF 2 N *				
NAV 25 I * NAVN 25 I * NAVF 25 I *	M25x1.5	NAV 2 N * NAVN 2 N * NAVF 2 N *	3/4"	10.7x5.1	40	Yes
NAV 25 I * NAVN 25 I * NAVF 25 I *	M25x1.5	NAV 2 N * NAVN 2 N * NAVF 2 N *	3/4"	10.7x6.1	40	Yes
NAV 25 I * NAVN 25 I * NAVF 25 I *	M25x1.5	NAV 2 N * NAVN 2 N * NAVF 2 N *	3/4"	11.7x5.6	40	Yes

Table 3.3[2]: Cable glands for circular, armoured cables - Series: NEV *; NEVL *****

Model (Metric)	Metric thread pitch 1.5	Model (NPT)	NPT thread	Clamping range inner sealing ring min-max cable Ød mm	Torque value inner sealing ring [Nm]	Clamping range outer sealing ring min-max cable ØD mm	Torque value outer sealing ring [Nm]	Clamping limitation (X)
NEV 12 I * NEVL 12 I *	M12x1.5	NEV 02 N * NEVL 02 N *	1/4"	3.0-6.0	25	6-10	Nut to be tightened until the cable gland gasket touches the outer cable sheath, then tighten one more turn of the nut	No
NEV 16 I * NEVL 16 I *	M16x1.5	NEV 01 N * NEVL 01 N *	3/8"	3.5-8.6	25	6-13.2		Yes
				4-8.6				No
NEV 20S I * NEVL 20S I *	M20x1.5	NEV 1S N * NEVL 1S N *	1/2"	6.3-11.6	35	9.5-16		No
NEV 20 I * NEVL 20 I *	M20x1.5	NEV 1 N * NEVL 1 N *	1/2"	6.5-14	35	12.5-21		No
NEV 25 I * NEVL 25 I *	M25x1.5	NEV 2 N * NEVL 2 N *	3/4"	11-20	45	20-27.5		Yes
				12-20				No
NEV 32 I * NEVL 32 I *	M32x1.5	NEV 3 N * NEVL 3 N *	1"	17-27	85	23.5-34		Yes
				20-27				No
NEV 40 I * NEVL 40 I *	M40x1.5	NEV 4 N * NEVL 4 N *	1" ¼	22-32	85	26-40		Yes
				24-32				No
NEV 50S I * NEVL 50S I *	M50x1.5	NEV 5S N * NEVL 5S N *	1" ½	29.5-38	90	35-46.5		No
NEV 50 I * NEVL 50 I *	M50x1.5	NEV 5 N * NEVL 5 N *	1" ½	35.5-44	90	38-53		No
NEV 63S I * NEVL 63S I *	M63x1.5	NEV 6S N * NEVL 6S N *	2"	40-50	95	45.5-59.5		No
NEV 63 I * NEVL 63 I *	M63x1.5	NEV 6 N * NEVL 6 N *	2"	47-56	95	54.5-66		No
NEV 75S I * NEVL 75S I *	M75x1.5	NEV 7S N * NEVL 7S N *	2" ½	53-62	100	57-72		No
NEV 75 I * NEVL 75 I *	M75x1.5	NEV 7 N * NEVL 7 N *	2" ½	59-68	110	66.5-78.5		No
NEV 90 I * NEVL 90 I *	M90x1.5	NEV 8 N * NEVL 8 N *	3"	66-79	120	76.5-90		No
NEV 100 I * NEVL 100 I *	M100x1.5	NEV 9 N * NEVL 9 N *	3" ½	76-91	150	86-101		No
NEV 115 I * NEVL 115 I *	M115x1.5	NEV 10 N * NEVL 10 N *	4"	86-98	170	100-110		No

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Table 3.4[2]: Cable glands for circular, armoured cables - Serie: NEVX ***								
Model (Metric)	**Metric thread pitch 1.5**	**Model (NPT)**	**NPT thread**	**Clamping range inner sealing ring min-max cable Ød mm**	**Torque value inner sealing ring [Nm]**	**Clamping range outer sealing ring min-max cable ØD mm**	**Torque value outer sealing ring [Nm]**	**Clamping limitation (X)**
NEVX 20S I *	M20x1.5	NEVX 1S N *	1/2"	3.5-8.6	35	9.5-16	Nut to be tightened until the cable gland gasket touches the outer cable sheath, then tighten one more turn of the nut	Yes
				4-8.6				No
NEVX 20 I *	M20x1.5	NEVX 1 N *	1/2"	6.3-11.6	35	12.5-21		No
NEVX 25 I *	M25x1.5	NEVX 2 N *	3/4"	6.5-14	45	20-27.5		No
NEVX 32 I *	M32x1.5	NEVX 3 N *	1"	11-20	85	23.5-34		Yes
				12-20				No
NEVX 40 I *	M40x1.5	NEVX 4 N *	1" ¼	17-27	85	26-40		Yes
				20-27				No
NEVX 50S I *	M50x1.5	NEVX 5S N *	1" ½	22-32	90	35-46.5		Yes
				24-32				No
NEVX 50 I *	M50x1.5	NEVX 5 N *	1" ½	29.5-38	90	38-53		No
NEVX 63S I *	M63x1.5	NEVX 6S N *	2"	35.5-44	95	45.5-59.5		No
NEVX 63 I *	M63x1.5	NEVX 6 N *	2"	40-50	95	54.5-66		No
NEVX 75S I *	M75x1.5	NEVX 7S N *	2" ½	47-56	100	57-72		No
NEVX 75 I *	M75x1.5	NEVX 7 N *	2" ½	53-62	110	66.5-78.5		No
NEVX 90 I *	M90x1.5	NEVX 8 N *	3"	59-68	120	76.5-90		No
NEVX 100 I *	M100x1.5	NEVX 9 N *	3" ½	66-79	150	86-101		No
NEVX 115 I *	M115x1.5	NEVX 10 N *	4"	76-91	170	100-110		No

Table 3.5[2] Cable glands for circular, not-armoured cables + swivel metallic ring male hub- Serie: NAVNS *** - NAVFS***					
Model (Metric)	**Metric thread pitch 1.5**	**Model (NPT)**	**NPT thread**	**Cable dimensions axb (mm)**	**Torque value [Nm]**
NAVNS 12 I * NAVFS 12 I *	M12x1.5	NAVNS 02 N * NAVFS 02 N *	1/4"	3.0-6.0	25
NAVNS 16 I * NAVFS 16 I *	M16x1.5	NAVNS 01 N * NAVFS 01 N *	3/8"	3.5-8.6	25
NAVNS 20S I * NAVFS 20S I *	M20x1.5	NAVNS 1S N * NAVFS 1S N *	1/2"	6.3-11.6	35
NAVNS 20 I * NAVFS 20 I *	M20x1.5	NAVNS 1 N * NAVFS 1 N *	1/2"	6.5-14	35
NAVNS 25 I * NAVFS 25 I *	M25x1.5	NAVNS 2 N * NAVFS 2 N *	3/4"	11-20	45
NAVNS 32 I * NAVFS 32 I *	M32x1.5	NAVNS 3 N * NAVFS 3 N *	1"	17-27	85
NAVNS 40 I * NAVFS 40 I *	M40x1.5	NAVNS 4 N * NAVFS 4 N *	1" ¼	22-32	85
NAVNS 50S I * NAVFS 50S I *	M50x1.5	NAVNS 5S N * NAVFS 5S N *	1" ½	29.5-38	90
NAVNS 50 I * NAVFS 50 I *	M50x1.5	NAVNS 5 N * NAVFS 5 N *	1" ½	35.5-44	90
NAVNS 63S I * NAVFS 63S I *	M63x1.5	NAVNS 6S N * NAVFS 6S N *	2"	40-50	95
NAVNS 63 I * NAVFS 63 I *	M63x1.5	NAVNS 6 N * NAVFS 6 N *	2"	47-56	95
NAVNS 75S I * NAVFS 75S I *	M75x1.5	NAVNS 7S N * NAVFS 7S N *	2" ½	53-62	100
NAVNS 75 I * NAVFS 75 I *	M75x1.5	NAVNS 7 N * NAVFS 7 N *	2" ½	59-68	110

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ACCREDIA L'ENTE ITALIANO DI ACCREDITAMENTO

PRD N° 005 B

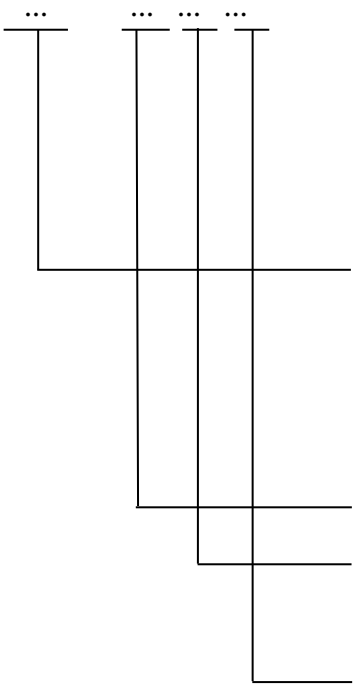
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NAVNS 90 I * NAVFS 90 I *	M90x1.5	NAVNS 8 N * NAVFS 8 N *	3”	66-79	120
NAVNS 100 I * NAVFS 100 I *	M100x1.5	NAVNS 9 N * NAVFS 9 N *	3” ½	76-91	150
NAVNS 115 I * NAVFS 115 I *	M115x1.5	NAVNS 10 N * NAVFS 10 N *	4”	86-98	170

Key code (if present)



Cable gland type

NAV Cable gland for non armoured cable
NAVN Cable gland for non armoured cable, male thread
NAVF Cable gland for non armoured cable, female thread
NEV Cable gland for armoured cable
NEVX Cable gland for armoured cable “special”
NEVL Cable gland for lead sheath (new code)
NAVNS Cable gland for non armoured cable, male thread, swivel version
NAVFS Cable gland for non armoured cable, female thread, swivel version

Size (ISO: 12, 16, 20, 63S; NPT: 2, 5, 5S ecc.)

Thread (I=ISO pitch 1,5, IX1=ISO pitch 1, IX2=ISO pitch2 , N=NPT, NULL=ISO7/1, OTHER CODES)

Material (B=BRASS nichel plated, S=INOX, G=STEEL galvanized)

[15.2] **Ratings:**

For more details see drawings and instructions manual listed in DL- AT19-0042694-01_A

[15.3] **Safety Ratings:**

-

[15.4] **Ambient temperature and temperature classes:**

From -60 °C to +130 °C (silicone sealing rings) - Refers to Technical Note A4-6746 rev.2

[15.5] **Degree of protection (IP code):**

IP66/67/68

[15.6] **Warnings:**

-

[16] **Report:** AT19-0042694-01_A

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[14] EU-type Examination Certificate number: **IMQ 17 ATEX 016 X**

[16.1] **Routine (factory) tests:**
The manufacturer shall carry out the routine test prescribed at clauses 27 of the EN 60079-0.

[16.2] **Conformity with the documentation:**
The manufacturer shall carry out the verifications or tests necessary to ensure that the product complies with the documentation.
Marking the equipment in accordance with Clause 29 of EN 60079-0, the manufacturer attests on his own responsibility that:

- the equipment has been constructed in accordance with the applicable requirements of the relevant standards in safety matters;
- the routine verifications and routine tests in 28.1 of EN 60079-0 have been successfully completed with positive results.

[16.3] **Installation conditions:**
Above referred equipment is foreseen to be installed in locations where there are environmental conditions, as clearly specified at clause 1, par. 2 of EN 60079-0.
Installation and use in atmospheric and environmental conditions that are out of above-mentioned intervals request special considerations and additional measures by the side of installer or user.
These should be specified to the manufacturer by the user;
It is not a required by applicable standard listed in [9] that the certification body confirm suitability for the adverse conditions.
Installation of equipment has to proceed according to EN 60079-14.
The installation shall be done according to safety manufacturer instructions to maintain degree of protection.

[17] **Special Condition of use (X):**

- The cable glands are only suitable for fixed installations.
- Where specified in relevant Table 3, cables shall be effectively clamped to prevent pulling or twisting.

[18] **Essential Health and safety Requirements:**
This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in [9].
This Certificate **does not** cover hazards coming from environmental conditions different from those clearly and precisely indicated and covered in clause 1 of EN 60079-0.

ESHR 1.2.7 According Annex VIII of the Directive
ESHR 1.4 Not verified.
ESHR 1.5 Not verified.
ESHR 3 Not applied.

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at [9], the following are considered relevant to this product, and conformity is demonstrated in the report:

N/A

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[19] **Descriptive documents:**

DL- AT19-0042694-01_A

[20] **Certification Validity Conditions:**

The use of this Certificate is subject to the Certification Scheme and to the Regulation applicable to holders of IMQ Certificates.

The validity of this certificate is subject to the condition that the manufacturer complies with the results of the document review and of the pertinent requirement if any included, recorded in the relevant copy of documentation as per 19.

One copy of the mentioned documentation is kept in IMQ file.

[21] **Variations**

Issue 0, October 2017

Issue 1, January 2022

- Update new standards
- Add new size ISO M12 (NPT 1/4")
- Add new slot size for flat cable
- Add new version NAVNS and NAVFS: Swivel type
- Rename NEVP in NEVL

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Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
Nationales Metrologieinstitut

(1) # EU-Baumusterprüfbescheinigung

(2) Geräte oder Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen - **Richtlinie 2014/34/EU**

(3) EU-Baumusterprüfbescheinigungsnummer

PTB 06 ATEX 1077 **Ausgabe: 1**

(4) Produkt: Steuerung Typ 8265/5*(-*)

(5) Hersteller: R. STAHL Schaltgeräte GmbH

(6) Anschrift: Am Bahnhof 30, 74638 Waldenburg, Deutschland

(7) Die Bauart dieses Produkts sowie die verschiedenen zulässigen Ausführungen sind in der Anlage und den darin aufgeführten Unterlagen zu dieser Baumusterprüfbescheinigung festgelegt.

(8) Die Physikalisch-Technische Bundesanstalt, notifizierte Stelle Nr. 0102 gemäß Artikel 17 der Richtlinie 2014/34/EU des Europäischen Parlaments und des Rates vom 26. Februar 2014, bescheinigt, dass dieses Produkt die grundlegenden Sicherheits- und Gesundheitsanforderungen für die Konzeption und den Bau von Produkten zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen gemäß Anhang II der Richtlinie erfüllt.

Die Ergebnisse der Prüfung sind in dem vertraulichen Prüfbericht PTB Ex 22-11052 festgehalten.

(9) Die grundlegenden Sicherheits- und Gesundheitsanforderungen werden erfüllt durch Übereinstimmung mit
EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-7:2015+A1:2018, EN 60079-11:2012, IEC 60079-31:2022-01

(10) Falls das Zeichen „X" hinter der Bescheinigungsnummer steht, wird auf besondere Bedingungen für die sichere Anwendung des Produkts in der Anlage zu dieser Bescheinigung hingewiesen.

(11) Diese EU-Baumusterprüfbescheinigung bezieht sich nur auf Konzeption und Prüfung des festgelegten Produkts gemäß Richtlinie 2014/34/EU. Weitere Anforderungen dieser Richtlinie gelten für die Herstellung und das Bereitstellen auf dem Markt. Diese Anforderungen werden nicht durch diese Bescheinigung abgedeckt.

(12) Die Kennzeichnung des Produkts muss die folgenden Angaben enthalten:

II 2 G Ex db eb ia [ia Ga] ib IIC T6...T4 Gb

II 2 D Ex tb IIIC T 80 °C, T 95 °C, T 130 °C Db

Konformitätsbewertungsstelle, Sektor Explosionsschutz Braunschweig, 4. Mai 2022
Im Auftrag

Dr.-Ing. D. Markus
Direktor und Professor

PHYSIKALISCH-TECHNISCHE BUNDESANSTALT

ZSEx10100d c

EU-Baumusterprüfbescheinigungen ohne Unterschrift und ohne Siegel haben keine Gültigkeit.
Diese EU-Baumusterprüfbescheinigung darf nur unverändert weiterverbreitet werden.
Auszüge oder Änderungen bedürfen der Genehmigung der Physikalisch-Technischen Bundesanstalt.

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(13) # Anlage

(14) **EU-Baumusterprüfbescheinigung PTB 06 ATEX 1077 , Ausgabe: 1**

(15) Beschreibung des Produkts

Die Steuerung Typ 8265/5*(-*) besteht aus einem separat bescheinigten Gehäuse in der Zündschutzart Druckfeste Kapselung "db" und Schutz durch Gehäuse "tb" aus Aluminium mit Verschraubungsdeckel.
Die Steuerung kann mit Klemmenkästen in der Zündschutzart Erhöhte Sicherheit "eb" und Schutz durch Gehäuse "tb" kombiniert werden. Der Anschluss erfolgt über Ex d-Leitungseinführungen, Ex d-Rohrleitungseinführungen, Ex d-Durchführungen oder andere geeignete Einführungsvorrichtungen, die für den Anwendungsfall zugelassen und geeignet sind.
Der Deckel und die Wände des explosionsgeschützten Gehäuses können mit druckfest eingebauten Kontrollachsen, z. B. Kupplung, Verschluss, Kontrolldurchführung oder Achsdurchführung und Sichtfenster, ausgestattet werden.

Typschlüssel:

8265	/	5	*	(-*)
1	/	2	3	4

1) Typenreihe
2) Ausführung
   5 = Steuerung
3) Gehäusegröße (L x B x H)
   1 = 125 x 125 x 132 mm
   2 = 155 x 155 x 132 mm
   3 = 195 x 195 x 172 mm
   4 = 236 x 236 x 227 mm
   5 = 285 x 285 x 230 mm
   6 = 335 x 335 x 281 mm
4) Zusätzliche Parameter, die sich nicht auf den Explosionsschutz von Geräten auswirken.
   (-*) Kann zusätzliche Ziffern oder Zeichen enthalten, einschließlich "-", "/" oder " . ".

Technische Daten:

Bemessungsspannung	max.	690V	1.000 V	11.000 V
Bemessungsstrom	max.	250 A		
Bemessungsanschlussquerschnitt	max.	120 mm²		
Umgebungstemperaturbereich	°C	-60 °C bis +60 °C		

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Schutz durch Gehäuse nach IEC EN 60079-0, EN 60079-7 und EN 60079-31:
abhängig von den verbauten Ex-Komponenten oder Ex Geräten

Die Nennwerte sind Maximalwerte, die tatsächlichen elektrischen Werte hängen von den eingebauten elektrischen Betriebsmitteln ab. Im Rahmen dieser maximal zulässigen Werte und unter Berücksichtigung der Normen legt der Hersteller die endgültigen Bemessungswerte in Abhängigkeit von den Anlagenbedingungen, der Betriebsart, der Gebrauchskategorie usw. fest. Die Kennwerte der eigensicheren Stromkreise sind vom Hersteller in eigener Verantwortung anzugeben.

Der maximal zulässige Umgebungstemperaturbereich des Steuer- und Verteilerkastens kann durch die maximal zulässigen Betriebstemperaturbereiche der separat bescheinigten Komponenten begrenzt werden.

Die Zusammensetzung der Kennzeichnung der Schutzart richtet sich nach den Schutzarten der tatsächlich verwendeten Bauteile.

Die Steuerung darf miteinander und/oder mit Klemmenkästen in den Zündschutzarten Erhöhte Sicherheit "eb" und Schutz durch Gehäuse "tb" kombiniert werden.

Hinweise für die Herstellung und Betrieb

Für den Ein- und Anbau von Komponenten sind nur solche zugelassen, die auf dem Deckblatt angegebenen Normenstand technischen entsprechen, für die Einsatzbedingungen geeignet sind und eine gesonderte Bescheinigung besitzen. Die besonderen Bedingungen der Komponenten sind zu beachten und die Komponenten sind ggf. mit in die Typprüfung einzubeziehen. Dies gilt auch für die bereits in der technischen Beschreibung genannten Komponenten.

Um den IP-Schutzgrad zu gewährleisten, müssen der Deckel des Leergehäuses, das Flanschgehäuse, der Dichtungsrahmen und andere Ex-Komponenten ordnungsgemäß installiert und mit dem entsprechenden Drehmoment montiert werden.

Der Einbau der Betriebsmittel in der Zündschutzart Eigensicherheit "i" muss so erfolgen, dass die nach EN 60079-11 geforderten Abstände sowie die Luft- und Kriechstrecken zwischen eigensicheren und nichteigensicheren Stromkreisen eingehalten sind.
Bei Verwendung von mehr als einem eigensicheren Stromkreis sind die Regeln der Zusammenschaltung zu beachten.

Wenn Komponenten in das Leergehäuse eingebaut werden, müssen die Luft- und Kriechstrecken nach der Norm EN 60079-7 und EN 60079-11 eingehalten werden.

Der Steuer- und Verteilerkasten mit einer Beschichtung aus Polyester-Pulverlack darf nicht in Bereichen eingesetzt werden, in denen stark ladungserzeugende Prozesse, maschinelle Reib- und Trennprozesse, das Sprühen von Elektronen (z.B. im Umfeld von elektrostatischen Lackiereinrichtungen) stattfinden sowie pneumatisch geförderter Staub austritt.

Änderungen:

1) Zusätzliche Ex-Komponenten zur Komponentenliste hinzugefügt

2) Normen-Update auf den neuesten ATEX Normenstand

3) Neue Zertifizierungsbetriebsanleitung

EU-Baumusterprüfbescheinigungen ohne Unterschrift und ohne Siegel haben keine Gültigkeit.
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Anlage zur EU-Baumusterprüfbescheinigung PTB 06 ATEX 1077 , Ausgabe: 1

(16) Prüfbericht PTB Ex 22-11052

(17) Besondere Bedingungen

Keine

(18) Grundlegende Sicherheits- und Gesundheitsanforderungen

Erfüllt durch Übereinstimmung mit den vorgenannten Normen.

Nach Artikel 41 der Richtlinie 2014/34/EU dürfen EG-Baumusterprüfbescheinigungen nach Richtlinie 94/9/EG, die bereits vor dem Datum der Anwendung von Richtlinie 2014/34/EU (20. April 2016) bestanden, so betrachtet werden, als wenn sie bereits in Übereinstimmung mit der Richtlinie 2014/34/EU ausgestellt wurden. Mit Genehmigung der Europäischen Kommission dürfen Ergänzungen zu solchen EG-Baumusterprüfbescheinigungen und neue Ausgaben solcher Zertifikate weiterhin die vor dem 20. April 2016 ausgestellte originale Zertifikatsnummer tragen.

Konformitätsbewertungsstelle, Sektor Explosionsschutz — Braunschweig, 4. Mai 2022
Im Auftrag

Dr.-Ing. D. Markus
Direktor und Professor

EU-Baumusterprüfbescheinigungen ohne Unterschrift und ohne Siegel haben keine Gültigkeit.
Diese EU-Baumusterprüfbescheinigung darf nur unverändert weiterverbreitet werden.
Auszüge oder Änderungen bedürfen der Genehmigung der Physikalisch-Technischen Bundesanstalt.

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Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
Nationales Metrologieinstitut

(1) # EU-TYPE EXAMINATION CERTIFICATE

(Translation)

(2) Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

PTB 06 ATEX 1077 **Issue: 1**

(4) Product: Control Panel type 8265/5*(-*)

(5) Manufacturer: R. STAHL Schaltgeräte GmbH

(6) Address: Am Bahnhof 30, 74638 Waldenburg, Germany

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

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential Test Report PTB Ex 22-11052.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-7:2015+A1:2018, EN 60079-11:2012, IEC 60079-31:2022-01

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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

II 2 G Ex db eb ia [ia Ga] ib IIC T6...T4 Gb

II 2 D Ex tb IIIC T 80 °C, T 95 °C, T 130 °C Db

Konformitätsbewertungsstelle, Sektor Explosionsschutz Braunschweig, May 4, 2022
On behalf of PTB:

Dr.-Ing. D. Markus
Direktor und Professor

PHYSIKALISCH-TECHNISCHE BUNDESANSTALT

ZSEx001e c

EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt.
In case of dispute, the German text shall prevail.

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(13) # SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 06 ATEX 1077 , Issue: 1**

(15) Description of Product

The control panel type 8265/5*(-*) is made of a separately certified enclosure in the type of protection Flameproof Enclosure "db" and Protection by Enclosure "tb" out of aluminium with threaded joint cover.
The control panel can be combined with terminal boxes in type of protection Increased Safety "eb" and Protection by Enclosure "tb". Connection is made by means of Ex d cable entries, Ex d conduit entries, Ex d bushings or other suitable entry devices, certified and suit-able for the application. The cover and walls of the explosion-proof enclosure can be equipped with flameproof built-in control axles, for example coupler, lock, control bushing or axle bushing and inspection window.

Nomenclature:

8265	/	5	*	(-*)
1	/	2	3	4

1) type series
2) design
   5 = control panel
3) enclosure size (L x W x H)
   1 = 125 x 125 x 132 mm
   2 = 155 x 155 x 132 mm
   3 = 195 x 195 x 172 mm
   4 = 236 x 236 x 227 mm
   5 = 285 x 285 x 230 mm
   6 = 335 x 335 x 281 mm
4) Additional parameters that do not affect the explosion protection of devices.
   (-*) May contain additional digits or characters, including "-", "/" or " . ".

Technical data:

Rated insulation voltage	max.	690V	1.000 V	11.000 V
Rated current	max.	250 A		
Rated cross section	max.	120 mm²		
Ambient temperature range	°C	-60 °C to +60 °C		

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SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 06 ATEX 1077 , Issue: 1

Ingress protection according to EN IEC 60079-0, EN 60079-7 and EN 60079-31:
depends on the assembled Ex components or Ex equipments

The rated values are maximum values, the actual electrical values depend on the electrical equipment incorporated. Within the scope of these maximum permissible values and with due regard to the standards, the manufacturer specifies the final rated values dependent on the system conditions, mode of operation, utilization category, etc. The characteristic values of the intrinsically safe circuits are to be given by the manufacturer on his own responsibility.

The maximum permissible ambient temperature range of the control and distribution box can be limited by the maximum permissible service temperature ranges of the separately certified components.

The composition of the type of protection marking will be based on the types of protection of components actually used.

The control panel may be combined with each other and/or with terminal boxes designed to type of protection Increased Safety "eb" and Protection by Enclosure "tb".

Notes for manufacturing and operation

Components attached or installed have to be of a technical standard that complies with the specifications on the cover sheet. They must be suited for the operating conditions and have a separate examination certificate. The special conditions specified for the components must be complied with and may have to be included in the type test. This also applies to components already specified in the technical description.

In order to ensure the ingress protection IP, the cover of the empty enclosure, the flange enclosure, the sealing frame and other Ex-components must be properly installed and with the appropriate torque.

Equipment of the type of protection intrinsic safety "i" is to be installed in such a way that the distances, creepage distances and clearances between intrinsically safe circuits and non-intrinsically safe circuits comply with the requirements of EN 60079-11. When more than one intrinsically safe circuit is used, the rules for interconnection are to be observed.

When components are installed into the empty enclosure, clearance and creepage distances specified in the standard EN 60079-7 and EN 60079-11 shall duly be complied with.

The control and distribution box with a coating of polyester powder must not be used in areas affected by charge-producing processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust.

Changes:
1) Additional Ex components added to list of components
2) Standard update to latest ATEX standards
3) New Certification Instruction

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SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 06 ATEX 1077 , Issue: 1

(16) Test Report PTB Ex 22-11052

(17) Specific conditions of use

None

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

According to Article 41 of Directive 2014/34/EU, EC-type examination certificates which have been issued according to Directive 94/9/EC prior to the date of coming into force of Directive 2014/34/EU (April 20, 2016) may be considered as if they were issued already in compliance with Directive 2014/34/EU. By permission of the European Commission supplements to such EC-type examination certificates and new issues of such certificates may continue to hold the original certificate number issued before April 20, 2016.

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, May 4, 2022

Dr.-Ing. D. Mark
Direktor und Professor

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