Base Load Power Hub (BLPH)

ATEX REGISTER

INS JB

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Rev.	Date	Description	Prepared	Reviewed	Approved
CORTEM GROUP To be sure to be safe.					

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Revision / Change Log

Rev.	Description
00	ISSUE FOR REVIEW (IFR)
01	ACCEPTED FOR CONSTRUCTION (AFC)
02	ACCEPTED FOR CONSTRUCTION (AFC)

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No.	Revision	Tag Number	Description	Location	Manufacturer	Model Type Catalogue Number	Serial Number	ATEX Certification Marking	Reference Document	ATEX Certificate Number	Installation Zone	Notes / Comments	P.O.	Vendor	Skid / Package	Barrier Calculation Ref.	Non-Electrical Equipment	Special Conditions of safe use Applicable
1	00	00-JE-11005	Junction Box	Lower Deck (B-100) Ext.	Cortem Spa	CTB262616S1	24/87925	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 1	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
2	00	00-JE-12002	Junction Box	Upper Deck	Cortem Spa	CTB262616S1	24/87925	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 1	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
3	00	00-JE-12003	Junction Box	Upper Deck	Cortem Spa	CTB262616S1	24/87925	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 1	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
4	00	950-JE-01103	Junction Box	Upper Deck	Cortem Spa	CTB262616S1	24/87925	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 1	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
5	00	950-JE-03103	Junction Box	Upper Deck	Cortem Spa	CTB262616S1	24/87925	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 1	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
6	00	950-JE-04102	Junction Box	Lower Deck (B-400) Ext.	Cortem Spa	CTB262616S1	24/87925	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 1	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
7	00	950-JE-05102	Junction Box	Lower Deck	Cortem Spa	CTB262616S1	24/87925	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 1	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
8	00	950-JE-06102	Junction Box	Lower Deck (B-100) Ext.	Cortem Spa	CTB262616S1	24/87925	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 1	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
9	00	00-JE-21002	Junction Box	Upper Deck	Cortem Spa	CTB262616S1	24/87925	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 1	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
10	00	950-JE-01101	Junction Box	Upper Deck	Cortem Spa	CTB262616S1	24/87926	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 2	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
11	00	950-JE-01102	Junction Box	Upper Deck	Cortem Spa	CTB262616S1	24/87926	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 2	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
12	00	950-JE-03102	Junction Box	Upper Deck	Cortem Spa	CTB262616S1	24/87926	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 2	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
13	00	950-JE-04101	Junction Box	Lower Deck	Cortem Spa	CTB262616S1	24/87926	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 2	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
14	00	950-JE-04201	Junction Box	Lower Deck (B-200)	Cortem Spa	CTB262616S1	24/87926	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 2	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
15	00	950-JE-04205	Junction Box	Lower Deck (B-300)	Cortem Spa	CTB262616S1	24/87926	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 2	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
16	00	950-JE-06101	Junction Box	Lower Deck (B-100) Ext.	Cortem Spa	CTB262616S1	24/87926	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 2	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
17	00	950-JE-06201	Junction Box	Lower Deck (B-100) Ext.	Cortem Spa	CTB262616S1	24/87926	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 2	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
18	00	950-JE-02103	Junction Box	Upper Deck	Cortem Spa	CTB262616S1	24/87926	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 2	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
19	00	00-JE-11002	Junction Box	Upper Deck	Cortem Spa	CTB303020S1	24/87928	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 3	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
20	00	00-JE-11004	Junction Box	Lower Deck (B-100) Ext.	Cortem Spa	CTB303020S1	24/87928	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 3	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
21	00	00-JE-12005	Junction Box	Upper Deck	Cortem Spa	CTB303020S1	24/87928	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 3	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
22	00	00-JE-21001	Junction Box	Upper Deck	Cortem Spa	CTB303020S1	24/87929	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 4	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
23	00	00-JE-11001	Junction Box	Upper Deck	Cortem Spa	CTB484820S1	24/87932	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 5	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
24	00	00-JE-11003	Junction Box	Upper Deck	Cortem Spa	CTB484820S1	24/87932	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 5	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
25	00	00-JE-12001	Junction Box	Upper Deck	Cortem Spa	CTB484820S1	24/87932	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 5	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
26	00	00-JE-12004	Junction Box	Upper Deck	Cortem Spa	CTB484820S1	24/87932	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 5	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
27	00	00-JE-12006	Junction Box	Lower Deck (B-100) Ext.	Cortem Spa	CTB484820S1	24/87932	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 5	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
28	00	00-JE-22001	Junction Box	Upper Deck	Cortem Spa	CTB484820S1	24/87933	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 6	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
29	00	00-JE-22002	Junction Box	Upper Deck	Cortem Spa	CTB484820S1	24/87934	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 7	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
30	00	950-JE-02101	Junction Box	Upper Deck	Cortem Spa	CTB453820S1	24/87931	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 8	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
31	00	950-JE-02102	Junction Box	Upper Deck	Cortem Spa	CTB453820S1	24/87931	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 8	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
32	00	950-JE-03101	Junction Box	Upper Deck	Cortem Spa	CTB453820S1	24/87931	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 8	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
33	00	950-JE-05101	Junction Box	Lower Deck (B-100) Ext.	Cortem Spa	CTB453820S1	24/87931	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 8	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
34	00	00-JE-13001	Junction Box	Upper Deck	Cortem Spa	CTB262616S1	24/87927	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 9	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
35	00	00-JE-23002	Junction Box	Upper Deck	Cortem Spa	CTB262616S1	24/87927	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 9	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
36	00	950-JE-01104	Junction Box	Upper Deck	Cortem Spa	CTB262616S1	24/87927	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 9	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
37	00	950-JE-02104	Junction Box	Upper Deck	Cortem Spa	CTB262616S1	24/87927	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 9	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
38	00	950-JE-03104	Junction Box	Upper Deck	Cortem Spa	CTB262616S1	24/87927	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 9	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
39	00	950-JE-04103	Junction Box	Lower Deck (B-400) Ext.	Cortem Spa	CTB262616S1	24/87927	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 9	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
40	00	950-JE-04203	Junction Box	Lower Deck (B-200)	Cortem Spa	CTB262616S1	24/87927	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 9	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
41	00	950-JE-05103	Junction Box	Lower Deck	Cortem Spa	CTB262616S1	24/87927	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 9	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
42	00	950-JE-06103	Junction Box	Lower Deck (B-100) Ext.	Cortem Spa	CTB262616S1	24/87927	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 9	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
43	00	950-JE-06203	Junction Box	Lower Deck (B-100)	Cortem Spa	CTB262616S1	24/87927	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 9	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
44	00	950-JE-07101	Junction Box	Transition Piece	Cortem Spa	CTB262616S1	24/87927	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 9	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
45	00	00-JE-13001	Junction Box	Upper Deck	Cortem Spa	CTB303020S1	24/87930	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 10	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
46	00	00-JE-13002	Junction Box	Upper Deck	Cortem Spa	CTB303020S1	24/87930	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 10	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
47	00	00-JE-23001	Junction Box	Upper Deck	Cortem Spa	CTB303020S1	24/87930	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 10	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
48	00	950-JE-04207	Junction Box	Lower Deck (B-300)	Cortem Spa	CTB303020S1	24/87930	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 10	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
49	00	950-JE-04204	Junction Box	Lower Deck (B-200)	Cortem Spa	CTB262616S1	24/87924	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 11	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
50	00	950-JE-04208	Junction Box	Lower Deck (B-300)	Cortem Spa	CTB262616S1	24/87924	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 11	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.
51	00	950-JE-06204	Junction Box	Lower Deck (B-100)	Cortem Spa	CTB262616S1	24/87924	Ex eb IIC T6 Gb	GAD No. 1724001299-IN-DA-00003 item 11	CESI 03 ATEX 333	Zone 1	NA	1724001299	Cortem Spa	N.A.	N.A.	NO	N.A.

CESI

CERTIFICATE

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CESI-ATEX

Schema di certificazione

ACCREDIA
PRD N. 018B
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

ATEX B6003477-1-EN

[1] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE**

[2] **Equipment or Protective System intended for use in potentially explosive atmospheres Directive 2014/34/EU**

[3] Supplementary EU-Type Examination Certificate number:

CESI 03 ATEX 333 /05

[4] Product: **Terminal boxes series CTB, CSTB, SA and CTBE**

[5] Manufacturer: **COR.TEM S.p.A.**

[6] Address: Via Aquileia, 10 – 34070 Villesse (GO) – Italy.

[7] This supplementary certificate extends EC–Type Examination Certificate CESI 03 ATEX 333 to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

[8] CESI, notified body n. 0722 in accordance with Article 17 of the Directive 2014/34/EU of the Parliament and Council of 26 February 2014, 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 n. EX- C0007256.

[9] In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016

[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, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. 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 equipment or protective system shall include the following:

Ex **II 2 GD**	**Ex eb IIC T6, T5, T4 Gb** **Ex tb IIIC T75°C, T110°C Db** **IP66**
or	
Ex **II 2 GD**	**Ex ia IIC T6, T5, T4 Gb** **Ex ia IIIC T75°C, T110°C Db** **IP66**
or	
Ex **II 2 GD**	**Ex eb ia IIC T6, T5, T4 Gb** **Ex tb ia IIIC T75°C, T110°C Db** **IP66**

This certificate may only be reproduced in its entirety and without any change, schedule included.

Date 2020.05.22 - Translation issued the 2020.05.22

Prepared	**Verified**	**Approved**
Alessandro Fedato	Mirko Balaz	Roberto Piccin

[13] **Schedule**

[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 333 /05**

[15] **Description of the variation to the product**

- Updating to EN IEC 60079-0:2018 Standard.
- To the Increased safety Terminal boxes **SA../P** series made in polyester resin, new colours for boxes were added.
- The Increased safety Terminal boxes **SA..**, **SAG..**, **CTB**** and **CSTB..** series can be supplied with external painting.
- Terminal boxes **SA..** and **SAG..** series made of aluminium alloy can be supplied with internal anticondensation/antifungal painting and draining and breathing valve ECD-2.. and ECDE.. series.

Description of equipment

Increased safety Terminal boxes **SA..**, **SAG..**, **CTB..**, **CSTB..** and **CTBE..** series are used to hold Ex eb and/or Ex ia terminal blocks for rail mounting, scope of separated ATEX certification. They consist in enclosures made of Aluminium alloy, Polyester resin glass fibre reinforced in different colours or Stainless steel for **SA..** series, while **CTB..**, **CSTB..** and **CTBE..** series are made of Stainless steel only.
The covers of boxes are fixed to the bodies with Stainless steel screws, whose number depends on the size and on possible accessories. The degree of protection IP66 is guarantee by the EPDM/SBR or Silicon gaskets placed between the covers and the body.
The walls and the bottom of the boxes can be drilled with maximum size and maximum number of holes as specified in the manufacturer documents. The cable glands or plugs, with separate ATEX certificate, are mounted using locknut and gasket.
Each enclosure is provided with internal and external earthing screw or bolt. Each conductor should be provided with terminal lugs.
The products can be supplied with external painting. In this case a warning label shall be applied regarding the risk of electrostatic charge. Furthermore, on request, can be applied an internal anticondensation/antifungal painting and draining and breathing valve ECD-2** or ECDE series, scope of separate certification.
The enclosures can be equipped with the terminal blocks specified into manufacturer documents or with other terminal blocks scope of separated ATEX certification with identical characteristics.

Electrical characteristics

	Standard applications	**Signal circuits applications**	
		T6/T75°C with max. T_{amb} +60°C	**T4/T110°C with max. T_{amb} +85°C**
Rated voltage	1000 Vac/dc	-	-
Rated current	312 A	1 A for **Ex eb** exec. 100 mA for **Ex ia** exec.	10 A for **Ex eb** exec. 100 mA for **Ex ia** exec.
Rated frequency	50/60 Hz	-	-
Terminal section	1.5 ÷ 300 mm^2	-	-

Degree of protection (EN 60529): IP 66.

The above specified ratings are maximum values admitted. Effective values will be function to the electrical equipment/component used from case to case. Depending on the system conditions, the operating mode, the utilization category, etc.. the manufacturer will define these ratings which will be within the range of these limiting values and will comply with the relevant Standards.
The type and number of terminals which can be installed in the various enclosures, is indicated in detail together with the maximum admissible current, in the manufacturer documentation. When selecting the permitted current for cross section, the maximum current admitted for the terminals, connecting cables or conductors should be taken into consideration.

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[13] **Schedule**

[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 333 /05**

Operative temperature ranges:

Table 1.

Standard temperature ranges					
Enclosure material	**Type of gasket for enclosure**	**Ambient temperature**	**Temperature class**	**Max. surface temp.**	**Max. service temperature of terminals (*)**
Aluminium alloy, Stainless steel, Polyester resin	**VMQ SPS 060** (SA**, SA**/P) **SILICONCELL** (CTB**, CTBE** covers, SA**SS, CTB** gland plates) **EPDM/SBR** (SA**SS bodies)	-40°C +40°C	T6	T75°C	+80°C
		-40°C +55°C	T5	T75°C	+95°C

Table 2.

Temperature range for Signal circuits (max. 1A for not Ex i circuits, max. 100mA for Ex i circuits)					
Enclosure material	**Type of gasket for enclosure**	**Ambient temperature**	**Temperature class**	**Max. surface temp.**	**Max. service temperature of terminals (*)**
Aluminium alloy, Stainless steel, Polyester resin	**VMQ SPS 060** (SA**, SA**/P) **SILICONCELL** (CTB**, CTBE** covers, SA**SS, CTB** gland plates) **EPDM/SBR** (SA**SS bodies)	-40°C +60°C	T6	T75°C	+80°C

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[13] **Schedule**

[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 333 /05**

Table 3.

Low and high temperature ranges					
Enclosure material	**Type of gasket for enclosure**	**Ambient temperature**	**Temperature class**	**Max. surface temp.**	**Max. service temperature of terminals (*)**
Aluminium alloy, Stainless steel	**VMQ SPS 060** (SA**) **VMQ MG1077N40** (SA**SS bodies) **SILICONCELL** (CTB**, CTBE** covers, SA**SS, CTB** gland plates)	-60°C +40°C	T6	T75°C	+80°C
		-60°C +55°C	T5	T75°C	+95°C
		-60°C +65°C(**)	T5	T75°C	+95°C
Polyester resin	**VMQ SPS 060** (SA**/P)	-40°C +65°C(**)	T5	T75°C	+95°C

Table 4.

High temperature range for Signal circuits (max. 10A for not Ex i circuits, max. 100mA for Ex i circuits)					
Enclosure material	**Type of gasket for enclosure**	**Ambient temperature**	**Temperature class**	**Max. surface temp.**	**Max. service temperature of terminals (*)**
Stainless steel	**VMQ MG1077N40** (SA**SS bodies) **SILICONCELL** (CTB**, CTBE** covers, SA**SS, CTB** gland plates)	-60°C +85°C	T4	T110°C	+120°C

(*) – The maximum Service temperature of terminals installed inside the enclosures should be equal or greater than the temperature indicated into the tables shown above.

(**) – The maximum dissipated power and rated current admitted for these temperature ranges should be decreased applying the decreasing factors as specified into Table 5.

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Maximum dissipated power and rated current admitted
In the table below are shown the Power (W) and Current (A) decreasing factors applicable to remain within the Temperature class declared in the manufacturer documents.

Table 5.

Enclosure Material	Temperature Class	Ambient Temperature	Power decreasing factor	Current decreasing factor
Polyester resin	T6	+40°C	None	None
	T5	+55°C	None	None
	T5	+60°C	**-25%**	**-15%**
Aluminium alloy or Stainless Steel	T6	+40°C	None	None
	T5	+55°C	None	None
	T5	+65°C	**-25%**	**-15%**

Identification of Terminal boxes SA**, SAG**, CTB**, CSTB** and CTBE**:

SA □ □

Code of the series
SA
SAG

Size of boxes (**301410**, **473018** etc)

Material & Number of gland plates:
Blank for aluminium alloy boxes
/P for polyester resin boxes
SS for stainless steel boxes without gland plates
SSC for stainless steel boxes with locking devices on cover and without gland plates.
SSF1, SSF2, SSF3, SSF4 for stainless steel boxes with 1, 2, 3 or 4 gland plates.
SSCF1, SSCF2, SSCF3, SSCF4 for stainless steel boxes with locking devices on cover and with 1, 2, 3 or 4 gland plates.

C*** □ □

Code of the series:
CTB: Standard boxes
CSTB: CTB boxes without hinges

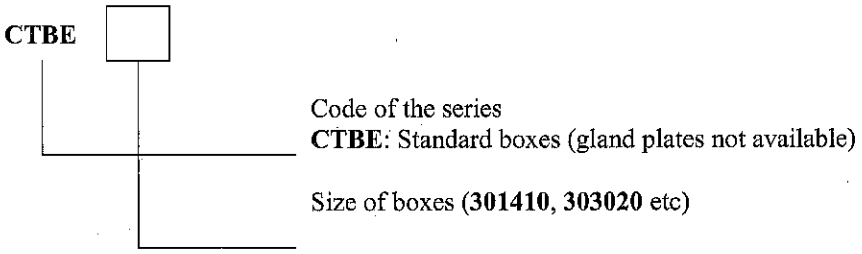
Boxes size *(303020, 503516 etc)*

Material & Number of gland plates:
S1, S2, S3, S4 for stainless steel boxes with 1, 2, 3 or 4 gland plates.
Blank for stainless steel boxes without gland plates
C, CS1, CS2, CS3, CS4 boxes with locking device on cover

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Other suffix can be added on the code for particular configurations.

Warning labels:

- *"Do not open when energized".*
- For Terminal boxes SA.., CTB.., CSTB.. and CTBE.. series with temperature class T4: *"Use cables suitable for a minimum temperature of 110°C".*
- For Terminal boxes SA.., CTB.., CSTB.. and CTBE.. series with temperature class T5: *"Use cables suitable for a minimum temperature of 90°C".*
- For products complete with external painting made in non-conductive material and for GRP materials different to standard black coloured: *"Warning - Potential electrostatic charging hazard – see instructions".*

[16] **Report n.** EX- C0007256

Routine tests
None.

[17] **Special conditions for safe use (X)**
None.

Installation conditions

- Accessories used for cable entries and for unused holes shall have a degree of protection IP66 and shall be suitably certificated.
- When selecting the admitted current for cross section, the maximum permitted current for the terminals and the connecting cable or conductor should be taken into consideration. The terminals shall be fitted in accordance with the manufacturer's instructions and when installed, they shall have the minimum clearance and creepage distances required by Table 1 of EN 60079-7 Standard.
- For terminal boxes with type of protection Ex ia the distances between Intrinsic safety circuits shall be according to EN 60079-11 Standard. Intrinsically safe circuits shall be clearly identified. Where a colour is used for this purpose, it shall be light blue for the intrinsically safe connections.
- The service temperature range of the terminals used shall be taken into consideration.
- Installation instruction documents provides details of dielectric strength routine test of 2U+1000 VAC with a minimum value of 1500 VAC between the supply terminals and earth.

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[13] **Schedule**

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

Compliance with the Essential Health and Safety Requirements has been assured by compliance to the following standards:

EN IEC 60079-0: 2018 Explosive atmospheres – Part 0: Equipment - General requirements;

EN 60079-7: 2015 Explosive atmospheres – Part 1: Equipment protection by flameproof enclosure "d";

EN 60079-11: 2012 Explosive atmospheres – Equipment protection by intrinsic safety "i";

EN 60079-31: 2014 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t".

[19] **Descriptive documents** (prot. EX- C0007259)

- *Technical note A4-7483 (pg. 13)	rev.0	dated	21.10.2019
- *Safety, maintenance and mounting instructions F-408 (pg. 20)	rev.1	dated	21.10.2019
- *Declaration of Conformity Facsimile no. 0048		dated	21.10.2019
- *Annex (8 sheets)	rev.0	dated	21.10.2019
- Drawing no. A1-5703 (4 sheets)	rev.1	dated	21.10.2019
- Drawing no. A1-6266	rev.0	dated	10.04.2017
- Drawing no. A3-5704 (3 sheets)	rev.1	dated	10.04.2017
- Drawing no. A3-6267 (2 sheets)	rev.0	dated	10.04.2017
- Tables for max. number of conductors no. A4-5050 (35 sheets)	rev.1	dated	10.04.2017
- Annex (18 sheets)	rev.0	dated	10.04.2017
- Drawing no. A4-4274 (12 sheets)	rev.0	dated	10.10.2003
- Drawing no. A3-4658	rev.0	dated	10.10.2003
- Drawing no. A3-4677	rev.0	dated	10.10.2003
- Drawing no. A4-4129	rev.0	dated	26.06.2000
- Drawing no. A3-5049 (2 sheets)	rev.0	dated	18.03.2007
- Drawing no. A4-5258 (13 sheets)	rev.0	dated	15.02.2009

*Note: An * is included before the title of documents that are new or revised.*

One copy of all documents is kept in CESI files.

Certificate history

Issue nr	Issue Date	Summary description of variation
05	2020.05.22	Updating to standard EN IEC 60079-0:2018. To Terminal boxes SA**/P series made in polyester resin previously assessed, new colours for boxes were added. Terminal boxes SA**, SAG**, CTB** and CSTB** series can be supplied with external painting. Terminal boxes SA**, SAG** and CTB** series made of aluminium alloy can be supplied with internal anticondensation/antifungal painting and draining and breathing valve ECD-2** and ECDE series.
04	2017.06.26	Updating to standards EN 60079-0: 2012+A11:2013, EN60079-7:2015 and EN60079-31:2014. New minimum Tamb -60°C and maximum Tamb +85°C. The enclosures can be drilled on the bottom side. New thicknesses for plain gaskets, gland plates, bodies and covers were added. Plain gaskets made of CR/NBR materials were replaced with plain gaskets made of SBR. New enclosure sizes CTB916130 has been added. New enclosures series CTBE.. have been added.
03	2013.07.19	Updating to standards EN 60079-0 (2012), EN60079-7 (2007), EN60079-11 (2012) and EN60079-31:2014. New min. ambient temperature -40°C for SA../P series. New max. ambient temperature +60°C and Temp. class T6. New thicknesses for aluminium and polyester enclosure covers. New types of Silicon gaskets.
02	2009.05.12	New stainless steel CTB.. enclosure series has been added.
01	2008.05.21	Updating to standards EN 60079-0 (2006), EN60079-7 (2003), EN60079-11 (2007), EN 61241-0 (2006), EN 61241-1 (2004) and EN 61241-11 (2006). New SAG606018 and SA202012 sizes were added. New max. ambient temperature +55, +65 and +80°C. New min. ambient temperature -30°C for SA../P series.
00	2003.12.19	First Issue of the Certificate.

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