



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX CQM 25.0032X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2025-06-16
Applicant: **Cortem S.p.A**
Via Aquileia 10, 34070 Villesse, (Go)
Italy
Equipment: **Explosion-proof anticorrosive plug and sockets typed CMBSP07-*/**/** Series**
Optional accessory:
Type of Protection: **Flameproof enclosure "db", Increased safety "eb", Dust ignition protection by enclosure "tb"**
Marking: Ex db eb IIC T6/T5/T4 Gb
Ex tb IIIC T80°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Ji Xiaodong

Position:

President

Signature:
(for printed version)

Date:
(for printed version)

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No. 33 Zengguang Road, Haidian District
Beijing City, Postal code: 100048
China





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Date of issue: 2025-06-16

Issue No: 0

Manufacturer: **Cortem S.p.A**
Via Aquileia 10, 34070 Villesse, (Go)
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Manufacturing locations: **Cortem S.p.A**
Via Aquileia 10, 34070 Villesse, (Go)
Italy

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[CN/CQM/ExTR25.0014/00](#)

Quality Assessment Report:

[IT/CES/QAR06.0002/19](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

CMBSPO7-*/** series Explosion-proof anticorrosive plug and sockets are widely used in the explosive environments of the petroleum, chemical and pharmaceutical industries for field wiring connection, in the hazardous areas designated as zone 1, zone 2, or as zone 21, zone 22 (also compatible with Ex t design).

The plug and sockets may have three application scenarios by configuring different combinations: pedestal mount, panel mount and coupler. Each application scenario adopts a same explosion-proof design: an explosion-proof unsaturated resin enclosure designed as type of protection "e" and "t", and built-in flame proof cavities for interlocking switch.

Nomenclature

CMBSPO7 - * / * / * * *

(1) (2) (3) (4)(5)(6)

(1) Explosion-proof anticorrosive plug and sockets

(2) Rated current (A): Max. 125A

(3) Rated voltage (V): Max. 690VAC or 250VDC

(4) Number of pins: 2P, 3P-2P+PE or 1P+N+PE, 4P-3P+PE, 5P-3P+N+PE

(5) Hardware style: Blank-Pedestal complete set, Z-Socket, T-Plug, L-Coupler complete set, LZ-Coupler socket, M-Panel complete set, MZ-Panel socket, X-25° panel complete set, XZ-25° panel socket.

(6) Auxiliary contact: F-Only for 100A, 115A, 125A enclosure; not marked if absent.

Refer to attachment for relation between model, ratings, Ex marking and ambient temperature.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Refer to instruction for the relation between model, ratings, Ex marking and ambient temperature.

2. The equipment shall not be installed in a location where the dust can accumulate, and shall not be installed in a location where the external conditions are conducive to the buildup of electrostatic charge on such surfaces. In addition, only should be cleaned with a damp cloth.

3. Repairs of the flameproof joints shall not be allowed.

4. As the electrical parameter depended on the build-in electrical component, the operating parameters described in the instruction shall be followed.

5. The 90°C high temperature-resistant cable shall be selected. And for CMBSPO7-100/**, CMBSPO7-115/**, CMBSPO7-125/**, the user shall provide additional clamping.

6. Separated certified cable glands or blanking elements, type of Ex e and Ex t, described in the instruction manual shall be used during the operation.

7. Observe the warning

"WARNING - DO NOT OPEN WHEN ENERGIZED!",

"WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT!" (only for Ex t)

"WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS"

8. Each CMBSPO7 series plug shall only be used with an CMBSPO7 series socket covered by this certificate.

9. Metal cable glands or blanking element shall be incorporated with earthing connection when installation if applicable, and the installation layout shall ensure that external metallic labels are not expected to be approached by earthed objects.

10. When the product is used as panel mounting, the local temperature around the socket shall not exceed corresponding maximum Ta.

Annex:

[IECEX CQM 25.0032X attachment.pdf](#)



Attachment to CoC

IECEX CQM 25.0032X issue 0

**Manufacturer:**

Cortem S.p.A

Address: Via Aquileia 10, 34070 Villesse, (Go), Italy

Electrical equipment:

Explosion-proof anticorrosive plug and sockets typed CMBSP07-*/*/*** series

**Relation between model, ratings, Ex marking and ambient temperature
(Table 1, 2, 3)**

Table 1

Model (pedestal or panel mount)	Code of enclosure	Ex marking	Ta	Wire diameter	Ingress protection
CMBSP07-10*/2P* CMBSP07-16*/2P* CMBSP07-10*/3P* CMBSP07-16*/3P*	Size 1	Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db	-45°C to + 50°C	2.5 mm ²	IP66
		Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 65°C		
		Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db	-45°C to + 60°C	4.0 mm ²	
		Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 65°C		
CMBSP07-20*/2P* CMBSP07-20*/3P*		Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 53°C	2.5 mm ²	
		Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db	-45°C to + 50°C	4.0 mm ²	
		Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 60°C		
CMBSP07-10*/4P* CMBSP07-16*/4P* CMBSP07-10*/5P* CMBSP07-16*/5P*		Size 2	Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db	-45°C to + 50°C	
	Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db		-45°C to + 65°C		
	CMBSP07-20*/4P*		Ex db eb IIC T5 Gb	-45°C to + 50°C	



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CMBS07-20/*/*5P*		Ex tb IIIC T80°C Db			
CMBS07-20/*/***	Size 3	Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db	-45°C to + 55°C	4.0 mm ²	IP66
		Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 60°C		
		Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db	-45°C to + 55°C	6.0 mm ²	
		Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 65°C		
CMBS07-25/*/***	Size 3	Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db	-45°C to + 40°C	4.0 mm ²	
		Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 55°C		
		Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db	-45°C to + 50°C	6.0 mm ²	
		Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 60°C		
CMBS07-30/*/*** CMBS07-32/*/***		Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 50°C	6.0 mm ²	
CMBS07-50/*/*** CMBS07-60/*/*** CMBS07-63/*/***	Size 4	Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 40°C	16.0 mm ²	
Ex db eb IIC T4 Gb Ex tb IIIC T80°C Db		-45°C to + 50°C			
CMBS07-100/*/*** CMBS07-100/*/***F	Size 5	Ex db eb IIC T4 Gb Ex tb IIIC T80°C Db	-45°C to + 55°C	35.0 mm ²	
		Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 55°C	50.0 mm ²	
		Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db	-45°C to + 40°C		
CMBS07-115/*/***		Ex db eb IIC T5 Gb	-45°C to + 40°C	35.0 mm ²	



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CMBSP07-115/**/F		Ex tb IIIC T80°C Db	-45°C to + 45°C	50.0 mm ²	
		Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db			
CMBSP07-125/**/**		Ex db eb IIC T4 Gb	-45°C to + 40°C	50.0 mm ²	
CMBSP07-125/**/F		Ex tb IIIC T80°C Db			

Table 2

Model (coupler)	Code of enclosure	Ex marking	Ta	Wire diameter	Ingress protection
CMBSP07-10/**/2PL CMBSP07-16/**/2PL	Size 1	Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db	-45°C to + 55°C	4.0 mm ²	IP66
CMBSP07-10/**/3PL CMBSP07-16/**/3PL		Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 60°C		
CMBSP07-20/**/2PL CMBSP07-20/**/3PL		Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db	-45°C to + 40°C		
		Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 55°C		
CMBSP07-10/**/4PL CMBSP07-16/**/4PL CMBSP07-10/**/5PL CMBSP07-16/**/5PL	Size 2	Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db	-45°C to + 48°C	4.0 mm ²	
		Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 60°C		
CMBSP07-20/**/4PL CMBSP07-20/**/5PL		Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 45°C		
CMBSP07-20/**/L CMBSP07-25/**/L	Size 3	Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db	-45°C to + 50°C	6.0 mm ²	
		Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 63°C		



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CMBSP07-32/*/*L		Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 50°C		
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Table 3

Rated current	Code of enclosure	Number of pins	Rated voltage	Frequency
10A, 16A, 20A	Size 1	2 pins (2P)	DC: 20 to 25	/
			DC: 36 to 50	
			AC: 20 to 25	50/60Hz, Max. 500Hz
			AC: 36 to 50	
		3 pins (1P+N+PE) (2P+PE)	DC: 20 to 25	/
			DC: 36 to 50	
			DC: 50 to 250	
			AC: 20 to 25	50/60Hz, Max. 500Hz
			AC: 36 to 50	
			AC: 100 to 130	
		AC: 200 to 250		
		10A, 16A, 20A	Size 2	4 pins (3P+PE)
DC: 36 to 50				
AC: 20 to 25	50/60Hz, Max. 500Hz			
AC: 36 to 50				
AC: 100 to 130				
AC: 200 to 250				
AC: 380 to 415				
AC: 480 to 500				
AC: 600 to 690				
5 pins (3P+N+PE)	DC: 20 to 25			/
	DC: 36 to 50			



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Rated current	Code of enclosure	Number of pins	Rated voltage	Frequency
			AC: 20 to 25	50/60Hz, Max. 500Hz
			AC: 36 to 50	
			AC: 57/100 to 75/130	
			AC: 120/200 to 144/250	
			AC: 200/346 to 240/415	
			AC: 277/480 to 288/500	
			AC: 347/600 to 400/690	
20A, 25A, 30A, 32A	Size 3	2 pins (2P)	DC: 20 to 25	/
			DC: 36 to 50	
			AC: 20 to 25	50/60Hz, Max. 500Hz
			AC: 36 to 50	
		3 pins or 4 pins (1P+N+PE) (2P+PE) (3P+PE)	DC: 20 to 25	/
			DC: 36 to 50	
			AC: 20 to 25	50/60Hz, Max. 500Hz
			AC: 36 to 50	
20A, 25A, 30A, 32A	Size 3	3 pins or 4 pins (1P+N+PE) (2P+PE) (3P+PE)	AC: 100 to 130	50/60Hz, Max. 500Hz
			AC: 200 to 250	
			AC: 380 to 415	
			AC: 480 to 500	
			AC: 600 to 690	
		5 pins (3P+N+PE)	DC: 20 to 25	/
			DC: 36 to 50	
			AC: 20 to 25	50/60Hz, Max. 500Hz
			AC: 36 to 50	
			AC: 57/100 to 75/130	
			AC: 120/200 to 144/250	



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Rated current	Code of enclosure	Number of pins	Rated voltage	Frequency
50A, 60A, 63A	Size 4	3 pins or 4 pins (2P+PE) (3P+PE)	AC: 200/346 to 240/415	50/60Hz, Max. 500Hz
			AC: 277/480 to 288/500	
			AC: 347/600 to 400/690	
		5 pins (3P+N+PE)	AC: 100 to 130	
			AC: 200 to 250	
			AC: 380 to 415	
			AC: 480 to 500	
			AC: 600 to 690	
			AC: 57/100 to 75/130	
100A, 115A, 125A	Size 5	3 pins or 4 pins (2P+PE) (3P+PE)	AC: 120/200 to 144/250	50/60Hz, Max. 500Hz
			AC: 200/346 to 240/415	
			AC: 277/480 to 288/500	
			AC: 347/600 to 400/690	
			AC: 57/100 to 75/130	
		5 pins (3P+N+PE)	AC: 100 to 130	
			AC: 200 to 250	
			AC: 380 to 415	
			AC: 480 to 500	
			AC: 600 to 690	
			AC: 120/200 to 144/250	
			AC: 200/346 to 240/415	
			AC: 277/480 to 288/500	
			AC: 347/600 to 400/690	
			AC: 57/100 to 75/130	