



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2022312303000686

Applicant	CORTEM S.p.A.
Address	Via Aquileia 10, I - 34070 Villesse (GO), Italy
Manufacturer	CORTEM S.p.A.
Address	Via Aquileia 10, I - 34070 Villesse (GO), Italy
Production Factory	CORTEM S.p.A.
Production Address	Via Aquileia 10, I - 34070 Villesse (GO), Italy
Product	Terminal box
Model/Type	S.1-..., S-..., GUA-..., EAH-...
Ex marking	Ex db IIC T..Gb, Ex eb IIC T..Gb, Ex ia/ib IIC T..Gb, Ex tb IIIC T..Db
Reference Standards	GB/T 3836.1-2021, GB/T 3836.2-2021, GB/T 3836.3-2021, GB/T 3836.4-2021, GB/T 3836.31-2021

Certification mode Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 *China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product* and CNEC-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (7 pages).

Initial issue date: 2022-09-19

Issued on: 2022-09-19

Valid to: 2027-09-18

The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:



Nanyang Explosion Protected Electrical
Apparatus Research Institute Co.,Ltd.



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CN 0001282



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Product information:

1. This certificate covers the following models:

- S.1-..., S-..., GUA-..., EAH-...

	S.1	-	.	.	.	.
a	b	c	d	e		
a	Type of enclosure (manufactured in die-casting)					
b	Number and position of hubs: T, C, L, X, A, W, D, M, B					
c	Hub diameter code: 1, 2, 3, 4, 5, 6					
d	Size of enclosure code: 4, 6, 7, 9					
e	Type of thread code: N, I, I2					

	S	-	.	.	.	.
a	b	c	d	e		
a	Type of enclosure (manufactured with mould-casting)					
b	Number and position of hubs: T, C, L, X, W, D, M, B					
c	Hub diameter code: 1, 2, 3, 4, 5, 6					
d	Size of enclosure code: 4, 6, 7, 9					
e	Type of thread code: N, I, I2					

	GUA	-	.	.	.	.
a	b	c	d	e		
a	Type of enclosure (manufactured in die-casting)					
b	Number and position of hubs: T, C, L, X, W, D, M, B					
c	Hub diameter code: 1, 2, 3, 4, 5, 6					
d	Size of enclosure code: 6, 9					
e	Type of thread code: N, I, I2					

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	EAHT/EAHW/GUFX	-	.	.	.
	a		b	c	d
a	Type of enclosure (manufactured in die-casting)				
b	Hub diameter code: 2, 3				
c	Size of enclosure code: 6				
d	Type of thread code: N, I, I2				

Number and position of hubs:	
A:	1 cable entry 1 on the side;
B:	2 cable entries 1 on the bottom and 1 on the side;
C:	2 cable entries 2 on the opposite sides;
L:	2 cable entries 2 on the sides to 90°;
T:	3 cable entries 3 on the sides;
X:	4 cable entries 4 on the sides;
D:	3 cable entries 1 on the bottom and 2 on the opposite sides;
M:	3 cable entries 1 on the bottom and 2 on the sides to 90°;
W:	4 cable entries 1 on the bottom and 3 on the sides.

Hub diameter and size of enclosures codes:

First digit	Hub diameter (Inches)	Second digit	Size of enclosure (Ø mm)	Identification letter	Type of thread
1	½"	4	54	N	NPT ANSI ASME B1.20.1
2	¾"	6	80	I	ISO metric pitch 1.5 mm
3	1"	7	95	I2	ISO metric pitch 2

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4	1 ¼"	9	130	-	mm
5	1 ½"	-	-	-	-
6	2"	-	-	-	-

Electrical characteristics:	
Ex d terminal boxes:	
- Rated cross section of terminals:	1.5 mm ² ~70 mm ²
- Rated voltage of terminals:	750 V Max
- Rated current of terminals:	8A~175A
- Degree of protection of enclosures:	IP66 or IP67
- Ambient temperature:	-40°C/-20°C~+40°C/+65°C/+150°C
Ex e and Ex i terminal boxes:	
- Rated cross section of terminals:	1.5 mm ² ~25 mm ²
- Rated voltage of terminals:	630 V Max
- Rated current of terminals:	5.5A~63A
- Degree of protection of enclosures:	IP66 or IP67
- Ambient temperature:	-40°C/-20°C~+40°C/+65°C/+80°C
The ratings specified are maximum values; actual values will be subject to the electrical equipment/component used from case to case.	

In the following table are reported for each boxes the ambient temperature, the temperature class and the maximum surface temperature assigned by manufacturer.

Junction boxes Ex d IIC and Ex tb IIIC		
Ambient temperature	Temperature class	Max. surface temperature
-20°C ~ +40°C	T6	85°C
-40°C ~ +40°C	T6	85°C
-20°C ~ +65°C	T5	100°C
-40°C ~ +65°C	T5	100°C

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-20°C ~ +150°C	T3	200°C
-40°C ~ +150°C	T3	200°C

Junction boxes Ex e IIC, Ex i IIC and Ex tb IIIC		
Ambient temperature	Temperature class	Max. surface temperature
-20°C ~ +40°C	T6	85°C
-40°C ~ +40°C	T6	85°C
-20°C ~ +65°C	T5	100°C
-40°C ~ +65°C	T5	100°C
-20°C ~ +80°C	T4	135°C
-40°C ~ +80°C	T4	135°C

Junction boxes executions Ex d IIC														
Junction box			Section (mm ²) and max. number of terminals admissible									Maximum dissipated power inside		
Size	Type	Inside volume (cm ³)	1,5	2,5	4	6	10	16	25	35	70	Tamb (°C)	Section (mm ²)	Power (W)
14, 24	S. 1	103	/	/	3	/	/	/	/	/	/	40	4	1,8
	S	126	/	/	3	/	/	/	/	/	/	65	4	0,9
												150	4	1,0
16, 26, 36	S. 1	286	8	8	6	/	/	/	/	/	/	40	4	2,8
	S	263	8	8	6	/	/	/	/	/	/	65	4	1,9
												GUA-EAH-GUFX	286	8

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27, 37, 47	S. 1	447	10	10	8	6	5	/	/	/	/	40	4	4,1
	S	447	10	10	8	6	5	/	/	/	/	65	4	2,8
												150	4	3,2
19, 29, 39, 49, 59, 69	S. 1	1029	16	16	12	9	7	6	4	4	3	40	70	17,4
	S	1195	16	16	12	10	8	7	5	5	4	65	70	13,5
	GUA-	1055	16	16	12	10	8	7	5	5	4	150	4	5,6
Max. current (A)	Tamb at 40 °C		10	12,5	20	24	30	48	75	105	175	/	/	/
	Tamb at 65 °C		8	10,5	16	20	24	40	65	88	150	/	/	/
	Tamb at 150 °C		8	10,5	16	20	24	40	65	88	150	/	/	/
Density max of current (A/mm ²) for terminals and cables wiring)			6,6	5	5	4	3	3	3	3	2,5	/	/	/

Junction boxes executions Ex e IIC and Ex i. IIC												
Junction box			Section (mm ²) and max. number of terminals admissible							Maximum dissipated power inside		
Size	Type	Inside volume (cm ³)	1,5	2,5	4	6	10	16	25	Tamb (°C)	Section (mm ²)	Power (W)
14, 24	S. 1	103	/	/	3	/	/	/	/	40	4	1,0
	S	126	/	/	3	/	/	/	/	65	4	0,5
										80	4	0,5
	S. 1	286	8	8	6	/	/	/	/	40	4	2,0

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16, 26, 36	S	263	8	8	6	/	/	/	/	65	4	1,1
	GUA- EAH- GUFX	286	8	8	6	/	/	/	/	80	4	1,1
27, 37, 47	S. 1	447	10	10	8	6	5	/	/	40	4	2,9
	S	447	10	10	8	6	5	/	/	65	4	1,6
19, 29, 39, 49, 59, 69	S. 1	1029	16	16	16	9	7	6	4	40	70	6,6
	S	1195	16	16	16	10	8	7	5	65	70	3,6
	GUA-	1055	16	16	16	10	8	7	5	80	4	3,7
Max. current (A)	Tamb at 40 °C		8	10,5	17	20	24	40	65	/	/	/
	Tamb at 65 °C		5,5	7,5	12	14	17	29	47	/	/	/
	Tamb at 80 °C		5,5	7,5	12	14	17	29	47	/	/	/
Density max of current (A/mm ²) for terminals and cables wiring)			6,6	5	5	4	3	3	3	/	/	/

Ex marking: Ex db IIC T..Gb, Ex eb IIC T..Gb, Ex ia/ib IIC T..Gb, Ex tb IIIC T..Db
 - Producers should organize production in accordance with the technical documents approved by the certification body.

2. Specific conditions of safety use:

- Leads connected to the terminals shall not reduce the clearance and creepage distances of the terminal blocks with type of protection Ex-e and Ex-i. The use of terminal block's accessories (e.g. chain bridge) can reduce the maximum rated

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voltage of the terminal; the instructions of the manufacturer must be followed.

- The cable entry devices and blanking plugs shall be subject of separate certification for type of protection and operating temperatures indicated on the plate. To guarantee the degree of protection IP 66 or IP 67 the threaded coupling accessory-enclosure shall be suitable sealed.
- The conditions of the installation and use of the terminal boxes included within the safety instruction, provided by Manufacturer, shall be strictly respected.
- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2209C012
- Factory inspection report: CN2021Q010430

4. Certificate change information: None

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