



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312304001113

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 Command, control and signalling unit
Model/Type EJB-.., EJBX-.., EJBT-.. and AQS-1
Ex marking Ex d IIB T6/T5/T4 Gb, Ex d IIB +H₂ T6/T5/T4 Gb,
Ex tD A21 IP66 T85°C/T100°C/T135°C,
Ex tD A21 IP66/IP67 T85°C/T100°C/T135°C
Reference Standards GB3836.1-2010, GB3836.2-2010, GB12476.1-2013,
GB12476.5-2013

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 CNEX-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (10 pages)

Issued on: 2022-04-29

Valid to: 2027-04-28

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
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CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

No.: 2021312304001113

Page 1 of 10

Product information:

1. This certificate covers the following models:

- EJB-.. , EJBX.. , EJBT-.. and AQS-1

Model Identification:

Aluminium alloy enclosures		Stainless steel enclosures
EJB series	EJBT series	EJBX series
AQS-1	-	-
EJB-01	EJBT0	EJBX-01
-	-	EJBX-01B
EJB-1	EJBT1	EJBX-1
EJB-2	EJBT2	EJBX-2
-	EJBT2CB	-
-	EJBT2C	-
EJB-3	EJBT3	EJBX-3
EJB-3B	EJBT3B	EJBX-3B
EJB-4	EJBT4	EJBX-4
EJB-4B	EJBT4B	EJBX-4B
EJB-45	EJBT45	EJBX-45
EJB-45B	EJBT45B	EJBX-45B
EJB-48BA	-	-
EJB-5	EJBT5	EJBX-5
EJB-5B	EJBT5B	EJBX-5B
EJB-55	EJBT55	EJBX-55

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PRODUCT
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CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

No.: 2021312304001113

Page 2 of 10

EJB-55B	EJBT55B	EJBX-55B
EJB-503	-	-
EJB-55C	-	-
EJB-6	EJBT6	EJBX-6
EJB-6B	EJBT6B	EJBX-6B
EJB-7	EJBT7	EJBX-7
EJB-7B	-	-

Nomenclature: (For example: EJB-2 B A/3020/1W0)

EJB	EJB: standard version
EJBT	EJBT: different length, width and height ratio version with EJB
AQS	AQS: different length, width and height ratio version with EJB
EJBX	EJBX: different material (Inox), length, width and height ratio version with EJB
a	Size of boxes: can be 01, 1, 2, 3, 4, 45, 48, 5, 55, 503, 6, 7
b	blank: standard version B: low version (the height is less)
c	Blank or A or C or SP type of moulds
/d	Blank: standard version w/o windows /d with Non-circular windows (different size code of the window), can be 0505, 0707, 1005, 1006, 1106, 1305, 1008, 1107, 1307, 1108, 1010, 1706, 1508, 2006, 1212, 1808, 1510, 1810, 1414, 2010, 1712, 2508, 1515, 2808, 1714, 3008, 1814, 2710, 2810, 2015, 3010, 2812, 2315, 2020, 3015, 2520, 2620, 3020
/e	Blank: standard version w/o windows /e: with round viewing windows (different number of windows and size code of the window),

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PRODUCT
CNAS C208-P



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

No.: 2021312304001113

Page 3 of 10

can be 1W0, 2W0, 1W2, 2W0, 1W3, 3W0, 2W2, 2W3

Electrical characteristics:

Rated voltage: 12~250 V DC
24~1000 V AC

Nominal frequency: 50/60 Hz

Max. rated current: 650 A

Maximum power for lamps: 3W with $T_{amb.} : +55^{\circ}\text{C}$

Ex d flameproof enclosure EJB-45, EJB-5, EJB-5B, EJB-55B sizes restrictions:

Rated voltage: 750 V DC

Max. rated current: 630 A

Ex d flameproof enclosure EJB-55, EJB-6, EJB-6B, EJB-7, EJB-7B sizes restrictions:

Rated voltage: 690 V AC

Nominal frequency: 50/60 Hz

Max. rated current: 1000 A

Table of typical electrical and electronic equipment inside the boxes:

DESCRIPTION	[V]	DISSIPATED POWER (W)	[A]
analogical 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
electronic control device	660	100	-
air contactors	660	30	650

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PRODUCT
CNAS C208-P



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

No.: 2021312304001113

Page 4 of 10

sequence timer	240	5	10
photoelectrical cell	240	2	-
capacitors (discharge time 30sec)	660	-	-
transformers	660	200	-
resistors	240	300	-
terminals	660	-	-

The ratings specified are maximum values; actual values will be subject to the electrical equipment/component used from case to case. Depending on the system conditions, the mode of operation, the utilisation category, etc., the manufacturer will define ratings which will be within the range of these limiting values and will comply with the relevant Standards.

Degree of protection: IP66 (with installed operators)
IP66/67 (without installed operators)

Ambient temperature:

The command, control and signalling units shall be used in the following ambient temperature range:

- ① from -20°C up to +55°C: all versions of Command, control and signalling units for group IIB, IIB+H₂ and group dust;
- ② from -40°C up to +55°C: all versions of Command, control and signalling units for group IIB, IIB+H₂ and group dust with polycarbonate pilot lights;
- ③ from -60°C up to +55°C all versions of Command, control and signalling units for group IIB, IIB+H₂ and group dust without polycarbonate pilot lights.

Maximum dissipated power:

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PRODUCT
CNAS C208-P



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

No.: 2021312304001113

Page 5 of 10

Table 1

Type			Maximum dissipated power inside enclosures			
			T _{amb.} = +40°C			
Aluminium alloy		Stainless steel	No signalling lamps, only LED are allowed		with lamps and/or LED	With signalling Lamps and LED
			T6/T85°C	T5/T100°C	T5/T100°C	T4/T135°C
EJBT0 / EJBT2CB	EJB-01	-	30 W	45 W	30 W	100 W
EJBT1 / EJBT2C	EJB-1	EJBX-1	45W	65 W	45 W	140 W
EJBT2	EJB-2	EJBX-2	60 W	85 W	60 W	190 W
EJBT3	EJB-3	EJBX-3	75 W	110 W	75 W	245 W
EJBT3B	EJB-3B	EJBX-3B	55 W	80 W	55 W	180 W
EJBT4	EJB-4	EJBX-4	100 W	175 W	100 W	350 W
EJBT4B	EJB-4B	EJBX-4B	75 W	130 W	75 W	260 W
EJBT45	EJB-45	EJBX-45	140 W	240 W	140 W	480 W
EJBT45B	EJB-45B	EJBX-45B	120 W	210 W	120 W	430 W
-	EJB-48BA	-	120 W	210 W	120 W	430 W
EJBT5	EJB-5	EJBX-5	210 W	315 W	210 W	600 W
EJBT5B	EJB-5B	EJBX-5B	170 W	250 W	170 W	480 W
-	EJB-503	-	230 W	345 W	230 W	660 W
EJBT55	EJB-55	EJBX-55B	260 W	380 W	260 W	740 W
EJBT55B	EJB-55B	-	260 W	380 W	260 W	740 W
-	EJB-55C	EJB-55	360 W	550 W	360 W	1050 W

Issued on: 2022-04-29

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CNAS C208-P



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

No.: 2021312304001113

Page 6 of 10

EJBT6	EJB-6	EJBX-6	600 W	910 W	600 W	1740 W
EJBE-6B	EJB-6B	EJBX-6B	490 W	720 W	490 W	1390 W
-	EJB-7	-	770 W	1170 W	770 W	2270 W
-	EJB-7B	-	600 W	910 W	600 W	1740 W
-	-	EJBX-7	610 W	930 W	610 W	1780 W
-	AQS-1	-	100 W	150 W	100 W	280 W

Maximum dissipated power (follows):

Table 2

Type			Maximum dissipated power inside enclosures			
			T _{amb.} = +55°C			
Aluminium alloy	Stainless steel		No signalling lamps, only LED are allowed		with lamps and/or LED	With signalling Lamps and LED
			T6/T85°C	T5/T100°C	T5/T100°C	T4/T135°C
EJBT0 / EJBT2CB	EJB-01	-	25 W	40 W	25 W	80 W
EJBT1 / EJBT2C	EJB-1	EJBX-1	34 W	50 W	34 W	105 W
EJBT2	EJB-2	EJBX-2	45 W	65 W	45 W	142 W
EJBT3	EJB-3	EJBX-3	56 W	82 W	56 W	184 W
EJBT3B	EJB-3B	EJBX-3B	40 W	60 W	40 W	135 W
EJBT4	EJB-4	EJBX-4	75 W	130 W	75 W	262 W
EJBT4B	EJB-4B	EJBX-4B	56 W	100 W	56 W	195 W
EJBT45	EJB-45	EJBX-45	105 W	180 W	105 W	360 W

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CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

No.: 2021312304001113

Page 7 of 10

EJBT45B	EJB-45B	EJBX-45B	90 W	160 W	90 W	320 W
-	EJB-48BA	-	90 W	160 W	90 W	320 W
EJBT5	EJB-5	EJBX-5	160 W	235 W	160 W	450 W
EJBT5B	EJB-5B	EJBX-5B	130 W	190 W	130 W	360 W
-	EJB-503	-	176 W	255 W	176 W	495 W
EJBT55	EJB-55	EJBX-55B	200 W	300 W	200 W	565 W
EJBT55B	EJB-55B	-	160 W	235 W	160 W	450 W
-	EJB-55C	EJB-55	270 W	400 W	270 W	765 W
EJBT6	EJB-6	EJBX-6	460 W	680 W	460 W	1300 W
EJBE-6B	EJB-6B	EJBX-6B	370 W	550 W	370 W	1040 W
-	EJB-7	-	590 W	890 W	590 W	2090 W
-	EJB-7B	-	460 W	680 W	460 W	1300 W
-	-	EJBX-7	470 W	690 W	470 W	1310 W
-	AQS-1	-	75 W	110 W	75 W	205 W

Manufacturing and certification conditions

- For ignition transformers application, the following electrical characteristics are admitted:

- ① Primary voltage: 1000 V max.
- ② Secondary voltage: 20 kV (impulse 25 kV max for 3 msec.).
- ③ Secondary current: 50 mA.

- For power transformer applications (only EJB-7 type) are admitted installation of single-phase or three-phase transformers having the maximum dissipated power (W) lower than the maximum dissipated power admitted in Table 1 and Table 2. Furthermore the box type EJB-7 is suitable also for installation of three - phase power transformer with maximum power of 15 kVA.

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PRODUCT
CNAS C208-P



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

No.: 2021312304001113

Page 8 of 10

- For motor inverter application, the following configuration are admitted:

Enclosure size	Motor inverter max. power [kW]		Max. dissipate Power [W]	Max. Cooling fan Flow-rate [m ³ /h]
	Ta +40°C	Ta +55°C		
EJB-4	2.2	1.5	73	44
EJB-45	2.2	1.5	73	44
EJB-5	5.5	4.0	172	44
EJB-6	7.5	5.5	232	88
EJB-7	7.5	5.5	323	88

- For surge protective devices application, the following configuration are admitted:

PDR type	Max. protection [kA]	Protection Breaker (C curve type) [A]
PDR65	65	50
PDR40	40	40
PDR20	20	25
PDR8	8	20

- On the enclosures types EJB -55, EJB -6, EJB 6B, EJB -7, EJB -7B can be installed MCCB (MOLDED CASE CIRCUIT BREAKER) automatic breakers or on load isolator switches, three or four poles for rated current from 800 A up to 1000 A.

- On the bigger sizes of enclosures type EJB-45, EJB -5, EJB-5B, EJB-55, EJB-55B, EJB -6, EJB 6B, EJB-7, EJB-7B can be installed MCCB automatic breakers or on load isolator switches, three or four poles for rated current up to 630 A suitable for DC circuits with rated voltage up to 750 VDC.

①MCCB size 630 A is suitable for max current 630 A at max voltage 360 VDC at ambient temperature +40°C or derated to 500 A for an ambient temperature of +55°C at maximum voltage 500 VDC.

②MCCB size 800 A is derated for max current 630 A at max voltage 750 VDC for

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产品
PRODUCT
CNAS C208-P



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

No.: 2021312304001113

Page 9 of 10

ambient temperature of +55°C.

Ex marking: Ex d IIB T6/T5/T4 Gb
Ex d IIB +H₂ T6/T5/T4 Gb
Ex tD A21 IP66 T85/T100/T135°C
Ex tD A21 IP66/IP67 T85/T100/T135°C

- Producers should organize production in accordance with the technical documents approved by the certification body.

2. Specific conditions of safety use:

- The accessories used for cable entries and for closing unused openings shall be certified according to GB3836.1, GB3836.2, GB12476.1 and GB12476.5. A minimum degree of protection IP66/67 shall be guaranteed according to GB/T4208 standard.

- The minimum distance between flameproof flanged joint of the enclosures and external obstacle should be:

- 20 mm for IIB execution:
- 30 mm for IIB+H₂ execution.

Warning:

- "Use screws of quality A2-70 according UNI 7323 with tensile strength of at least 700MPa".
- "Warning - do not open when energized"
- For equipment with capacitors: "After de-energizing, wait 10 minutes before opening".
- 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".

- See instruction manual for other information.

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CNAS C208-P



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

No.: 2021312304001113

Page 10 of 10

3. Certificate related report(s):
- Type test report: CQST2101C032
 - Factory inspection report: CN2021Q010028
4. Certificate change information: None.

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