

IECEx Certificate of Conformity

Issue No. 2 (2011-03-04)

Issue No. 1 (2008-09-01)

Issue No. 0 (2007-04-24)

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.:	IECEx BKI 07.0018	Issue No: 0	Certificate history:
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Status: Current Issue No. 6 (2017-03-16)

Page 1 of 3 Issue No. 4 (2014-11-26)

Applicant: Cooper Crouse Hinds

Neuer Weg 49

D-69412 Eberbach, Germany

Germany

Equipment: Control and distributions systems with metal EJ enclosures

Optional accessory: Type EJ. ...M.

Type of Protection: General requirements, Flameproof enclosures, Intrinsic safety

Marking: Ex d IIB T4...T6

Ex d [ia/ib] IIB T6 -20 $^{\circ}$ C \leq Tamb \leq +55 $^{\circ}$ C

Approved for issue on behalf of the IECEx

János HANKÓ

Certification Body:

Position: Director

Signature:

(for printed version)

Date:

- 1. This certificate and schedule may only be reproduced in full.
- 2. This certificate is not transferable and remains the property of the issuing body.
- 3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

Testing Station for Explosion Proof Equipment H 1037 BUDAPEST MIKOVINY S.u. 2-4 Hungary





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Manufacturer: Cooper Crouse Hinds Division

Cooper Crouse-Hinds, SA Avda. Santa Eulalia, 290

E-08223 Terassa (Barcelona) SPAIN

Spain

Additional Manufacturing location(s):

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 apparatus 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: 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements

Edition:4.0

IEC 60079-1: 2003 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Edition:5

IEC 60079-11: 1999 Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety "i"

Edition:4

This Certificate **does not** indicate compliance with electrical 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:

HU/BKI/ExTR07.0017/00

Quality Assessment Report:

HU/BKI/QAR07.0001/01



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The electrical fittings required for the operation of the apparatus, provided with individual certificate, can be incorporated into a flameproof enclosure made of aluminium casting, steel or stainless steel.

The enclosure variations can be prepared with inspection hole, the operating elements (push buttons, rotary switches, signal lamps indicating the operating conditions etc.) are permitted together with the enclosure.

See details in Addendum to IECEx BKI 07.0018

SPECIFIC CONDITIONS OF USE: NO

Annex:

Addendum to IECEx BKI 07.0018.pdf

ADDENDUM TO IECEX CERTIFICATE OF CONFORMITY





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1. Description

The electrical fittings required for the operation of the apparatus, provided with individual certificate, can be incorporated into a flameproof enclosure made of aluminium casting, steel or stainless steel.

The enclosure variations can be prepared with inspection hole, the operating elements (push buttons, rotary switches, signal lamps indicating the operating conditions etc.) are permitted together with the enclosure.

The boxes can include the following electrical devices and apparatus:

- Bus bars
- Terminals
- Low voltage transformers
- Air circuit-breakers
- Automatic circuit-breakers
- Control and operation circuits
- Servomotors without ventilation
- Starters ballasts for discharge lamps
- Electronic apparatus
- IS associated apparatus
- Heating element

Included capacitors have a discharge time less than 3 s, by means of parallel resistors when necessary. In any case is permitted to include cells and batteries, less if their volume \leq 1/100 of the free internal volume.

Empty flameproof enclosures having cover fixed by screws.

Covers can include:

- Push buttons
- Mini-pushbuttons and rotary actuators
- Rotary actuators for electrical switchgear
- Framed glass windows

having the disposition and number of elements as described in technical documents of the manufacturer.

2. Type assortment

EJ. ...M

Legend of the signs from left to right

1 2 3	Code for flameproof enclosures type B = aluminium cast W = welded steel or stainless steel
4, 5, 6	Code for size
	EJB 12.
	EJB 14.
	EJB 23.
	EJB 110
	EJB 120
	EJB 121
	EJB 130
	EJB 131
	EJB 240/241.
	EJW 250
	EJW 251
	EJW 350
	EJW 351
	EJW 561

Code for glass window

8._ code size for glass window M1

M2 M3 M4

ADDENDUM TO IECEX CERTIFICATE OF CONFORMITY







3. General parameters

Max. rated voltage 690 V Max. current 1200 A

4. Ambient temperature

Electrical components inside enclosure are assembled in all cases following the requirements of paragraph 2. of IEC 60079-1:2003 Edition 5.

Thermal class is determined according dissipated power (in W) inside the enclosure as show in following

Type	Ta: -20 °C / +40 °C		Ta: 20 °C / +55 °C			
	T4	T5	T6	T4	T5	T6
EJB 12.	100	60	30	83	43	18
EJB 14.	240	140	80	200	100	50
EJB 23.	240	140	60	200	100	35
EJB 110	295	170	125	245	120	75
EJB 120	480	270	150	400	195	90
EJB 121	500	280	150	415	200	90
EJB 130	590	340	200	490	245	125
EJB 131	610	350	200	505	250	125
EJB 240/241.	700	400	250	580	290	155
EJW 250	560	340	250	465	250	155
EJW 251	850	520	380	700	380	235
EJW 350	850	520	380	700	380	235
EJW 351	1000	600	450	840	450	280
EJW 561	1000	730	600	400	600	1000

5. Ingress protection IP54 to IEC 60529

Special conditions for safe use

- The special conditions for safe use indicated in the certificates of intrinsically safe associated apparatus.
- The manufacturer will have to determine, when there are combined different circuits of intrinsic safety, 2. the specific parameters of the type of protection as indicated in standards IEC 60079-11:2006 and IEC 60079-25:2004.
- 3. Only there is allowed the incorporation of associate apparatus and execution of the wired up boarder by the manufacturer.
- This boxes require special quality fasteners. 4.
- Glass windows are only valid for temperature class T5 and T6. 5.

Drawings

Description Rev. 0 6 page 2002.11.21 Description Rev. 2 6 page 2002.05.27

1. Supplement to Description and Annex:

Drawing No. N 117112-0004.es 2003.03.03

1. Supplement to Description 1 page 2003.04.22

- Drawings No. N117112B0012 B 2002-11-22 N117112B0013 B 2002-11-22 N117112B0014 B 2002-11-22 N117112B0015 B 2002-11-22 N117112B0016 B 2002-11-22 N117112B0017 B 2002-11-22 N117112B0018 B 2002-11-22 N117113B0003 B 2002-11-22 N117113B0004 B 2002-11-22 N117113B0005 B 2002-11-22 N117113B0006 B 2002-11-22 **Page** 2 of 3

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- Drawings No.	N117113B0007	В	2002-11-22
J	N117113B0008	В	2002-11-22
	N117113B0010	В	2002-11-22
	N117113B0011	В	2002-11-22
	N117113A0012	A	2001-11-28
	N117113A0013	Α	2001-11-28
	N117113A0016	Α	2001-11-28
	N117113B0017	В	2002-11-22
	N117113B0023	В	2001-11-28
	N117113B0025	В	2001-11-28
	N117113A0036	Α	2002-11-22
	N117114A0004	Α	2002-11-22
	N117114B0009	В	2002-11-22
	N117114B0010	В	2002-11-22
	N117114B0023	В	2002-11-22
	N117114B0024	В	2002-11-22
	N117114B0025	В	2002-11-22
	N117114B0026	В	2002-11-22
	N117114B0027	В	2002-11-22
	N117114B0028	В	2002-11-22
	N117114B0030	В	2002-11-22
	N117114B0031	В	2002-11-22
	N117114B0032	В	2002-11-22
	N117114B0033	В	2002-11-22
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	N117114B0035	В	2002-11-22
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	N117114A0040	Α	2002-11-22
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	N117114A0042	Α	2001-11-28
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	N117114B0045	В	2002-11-22
	N117114A0064	Α	2002-11-22
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	N119113A0004 N119113A0005	A	2002-11-22
	935186	C	2002-11-22
	935187	C	2001-11-28
	935188	C	2001-11-28
	935189	C	2001-11-28
	937293	A	2001-11-28
	946936	_	1992-02-04

Test report LOM 2.003 BP 7 pages (2003.01.30)

1. Supplement Test report LOM 03.138 SP 2 pages (2003.04.27)

1. Supplement Test report LOM 03.234 KP 2 pages (2005.10.20)