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 BKI 07.0018**	Page 1 of 5	Certificate history:
Status:	**Current**	Issue No: 7	Issue 6 (2017-03-16) Issue 5 (2015-09-08) Issue 4 (2014-11-26) Issue 3 (2013-11-27) Issue 2 (2011-03-04) Issue 1 (2008-09-01) Issue 0 (2007-04-24)
Date of Issue:	2019-04-04		
Applicant:	**Cooper Crouse Hinds GmbH** 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 °C ≤ Tamb ≤ +55 °C		

Approved for issue on behalf of the IECEx Certification Body: **Edit Molnár**

Position: **Head of the Certification Body**

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 www.iecex.com or use of this QR Code.

Certificate issued by:

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

Robbanásbiztos Berendezések BKI Vizsgáló Állomása Ex

IECEx Certificate of Conformity

Certificate No.: **IECEx BKI 07.0018**

Date of issue: 2019-04-04

Issue No: 7

Manufacturer: **Cooper Crouse-Hinds S.A.**
Avda. Santa Eulalia, 290
E-08223 Terassa (Barcelona) SPAIN
Spain

Additional manufacturing locations:

Cooper Crouse-Hinds GmbH
Neuer Weg Nord 49
D-69412 Eberbach
Germany

Cooper Electric (Changzhou) Co. Ltd.
No. 189 Liuyanghe Road,Xinbei
District,Changzhou, Jiangsu,China 213031
China

Eaton Electrical (Australia) Pty Ltd.
10 Kent Road
Mascot, NSW 2020
Australia

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 60079-0:2004 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 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 Reports:

HU/BKI/ExTR07.0017/00 HU/BKI/ExTR07.0017/01

Quality Assessment Reports:

AU/TSA/QAR06.0020/11 DE/BVS/QAR11.0009/09 DE/BVS/QAR13.0001/06
GB/BAS/QAR07.0041/09

IECEx Certificate of Conformity

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

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1:

New manufacturing location added (Cooper Electrical Australia Pty. Ltd.)

Issue 2:

New manufacturing location added (COOPER Electronic Technologies Shanghai Co. Ltd.)

Issue 3:

New QAR: DE/BVS/QAR13.0001/00 (Cooper Crouse-Hinds S.A., Spain)

Issue 4:

New manufacturing location added (Cooper Crouse-Hinds GmBH, Germany)

Issue 5:

Updated the address for the Australia manufacturing location.

The location and address of the Australian manufacturing site changed.

Cooper Electrical Australia Pty Ltd. moved to Mascot, NSW.

The new exact address of Cooper Electrical Australia Pty Ltd. is:

Cooper Electrical Australia Pty Ltd.

10 Kent Road, Mascot, NSW, 2020, Australia

The QAR of the new location: AU/TSA/QAR06.0020/08.

Issue 6:

The name and the location address of of the Chinese manufacturing site changed

from

COOPER Electronic Technologies (Shanghai) Co. Ltd. No.955 Sheng Li Road, Pudong, Shanghai, 201201

to

Cooper Electric (Changzhou) Co. Ltd.,No. 189 Liuyanghe Road,Xinbei District,Changzhou, Jiangsu,China 213031

Issue 7:

The name of the Australian manufacturing location is changed from

Cooper Electrical Australia Pty Ltd.

to

Eaton Electrical (Australia) Pty Ltd.

The IECEx QAR of the manufacturing location Eaton Electrical (Australia) Pty Ltd.: AU/TSA/QAR06.0020/11

IECEx Certificate of Conformity

Clarification of the Manufacturer'rs name:
deleting Cooper Crouse Hinds Division as the official manufacturer's name is: Cooper Crouse-Hinds S.A.

Annex:

Addendum to IECEx BKI 07.0018.pdf

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 ≤ 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._	Code for flameproof enclosures type	
3._	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	
7._	Code for glass window	
8._	code size for glass window	M1
		M2
		M3
		M4

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 table:

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

1. The special conditions for safe use indicated in the certificates of intrinsically safe associated apparatus.
2. The manufacturer will have to determine, when there are combined different circuits of intrinsic safety, 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.
4. This boxes require special quality fasteners.
5. Glass windows are only valid for temperature class T5 and T6.

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

– Drawings No.	N117113B0007	B	2002-11-22
	N117113B0008	B	2002-11-22
	N117113B0010	B	2002-11-22
	N117113B0011	B	2002-11-22
	N117113A0012	A	2001-11-28
	N117113A0013	A	2001-11-28
	N117113A0016	A	2001-11-28
	N117113B0017	B	2002-11-22
	N117113B0023	B	2001-11-28
	N117113B0025	B	2001-11-28
	N117113A0036	A	2002-11-22
	N117114A0004	A	2002-11-22
	N117114B0009	B	2002-11-22
	N117114B0010	B	2002-11-22
	N117114B0023	B	2002-11-22
	N117114B0024	B	2002-11-22
	N117114B0025	B	2002-11-22
	N117114B0026	B	2002-11-22
	N117114B0027	B	2002-11-22
	N117114B0028	B	2002-11-22
	N117114B0030	B	2002-11-22
	N117114B0031	B	2002-11-22
	N117114B0032	B	2002-11-22
	N117114B0033	B	2002-11-22
	N117114B0034	B	2002-11-22
	N117114B0035	B	2002-11-22
	N117114B0036	B	2002-11-22
	N117114A0037	A	2002-11-22
	N117114A0040	A	2002-11-22
	N117114A0041	A	2002-11-22
	N117114A0042	A	2001-11-28
	N117114B0043	B	2002-11-22
	N117114B0045	B	2002-11-22
	N117114A0064	A	2002-11-22
	N119111A0001	A	2002-11-22
	N119112A0002	A	2002-11-22
	N119112A0004	A	2002-11-22
	N119112A0005	A	2002-11-22
	N119112A0006	A	2002-11-22
	N119112A0007	A	2002-11-22
	N119113A0001	A	2002-11-22
	N119113A0002	A	2002-11-22
	N119113A0003	A	2002-11-22
	N119113A0004	A	2002-11-22
	N119113A0005	A	2002-11-22
	935186	C	2001-11-28
	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)