



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 BVS 16.0024** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2016-04-26

Applicant: **Cooper Crouse-Hinds GmbH**
Neuer Weg-Nord 49
69412 Eberbach
Germany

Equipment: **Junction box / Terminal box type GHG 79 * ** *** ******

Optional accessory:

Type of Protection: **Equipment dust ignition protection by enclosure "t", Equipment protection by increased safety "e"**

Marking: **Ex e * IIC T5/T6 Gb**
Ex tb III C T80°C Db
* The marking can be amended by further types of protection depending on the used components/equipment inside the junction/terminal box.
(e.g. Ex d)

Approved for issue on behalf of the IECEx
Certification Body:

H.-Ch. Simanski

Position:

Head of Certification Body

Signature:
(for printed version)

Date:
(for printed version)

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:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
On the safe side.



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Manufacturer: **Cooper Crouse-Hinds GmbH**
Neuer Weg-Nord 49
69412 Eberbach
Germany

Manufacturing locations: **S.C. Cooper Industries Romania**
S.R.L.
Zona Industrial NV
str. III, No. 12
310510 Arad
Romania

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 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements
Edition:6.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2006](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
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 Report:

[DE/BVS/ExTR16.0027/00](#)

Quality Assessment Reports:

[DE/BVS/QAR11.0006/05](#)

[DE/BVS/QAR11.0009/05](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description

The junction box / terminal box Type GHG 79 * ** *** **** fulfills the requirements of type of protection Increased Safety „e“ and Protection by Enclosure „t“. It is designed for use in areas requiring EPL Gb or Db.

The junction box / terminal box consists of a plastic enclosure with cover and serves to install or connect cables. The enclosure is equipped with terminal blocks according to PTB00 ATEX 3102 U / IECEx PTB 11.0029U or other terminal blocks which are separately certified for this purpose.

The enclosure is either equipped with side-fed entries or with boreholes to mount cable entries which are separately certified for this purpose. Inside the enclosure several different components / equipment can be installed according to the documentation of the manufacturer. The Ex-marking of the junction / terminal box will be amended by all types of protection of the built-in components / equipment.

The junction / terminal box is also suitable for intrinsically safe circuits. In this case it is a simple apparatus according to standard IEC 60079-11 and a marking must be added to the enclosure. The creepage and clearance distances between intrinsic safe circuits to ground, between two different intrinsic safe circuits and between intrinsic and non-intrinsic safe circuits are taken into account during the installation of the terminals.

Listing of all components used referring to older standards:

See Annex

Parameters

See Annex

SPECIFIC CONDITIONS OF USE: NO

Annex:

[BVS_16_0024_Cooper_Annex.pdf](#)



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Listing of all components used referring to older standards:

Subject and type	Certificate	Standards
Terminal	PTB 01 ATEX 1004 U	EN 60079-0:2006
Type GHG 240 130* R ****		EN 60079-7:2007
Terminal	PTB 03 ATEX 1201 U	EN 60079-0:2006
Type GHG 740 92** R ****		EN 60079-7:2007
Terminal	KEMA 00 ATEX 2100 U	EN 60079-0:2006
Type UK 5-TWIN und MSLKG 5		EN 60079-7:2007
		EN 50281-1-1:1998+A1
Terminal	KEMA 97 ATEX 2521 U	EN 60079-0:2004
Type ZDU / ZPE		EN 60079-7:2003
Terminal	KEMA 97 ATEX 1798 U	EN 60079-0:2004
Type SAK		EN 60079-7:2003
Terminal	PTB 00 ATEX 3110 U	EN 60079-0:2006
Type 281-...		EN 60079-7:2007
Terminal	PTB 03 ATEX 1162 U	EN 60079-0:2009
Type TOPJOB S 2002		EN 60079-7:2007
Terminal	PTB 00 ATEX 3132 U	EN 60079-0:2009
Type 784		EN 60079-7:2007
Terminal	PTB 05 ATEX 1031 U	EN 60079-0:2009
Type TOPJOB S 2016		EN 60079-7:2007
Terminal	PTB 05 ATEX 1030 U	EN 60079-0:2004
Type TOPJOB S 2006		EN 60079-7:2003
		EN 50281-1-1:1998
Terminal	PTB 03 ATEX 1188 U	EN 60079-0:2009
Type 870		EN 60079-7:2007
Terminal	PTB 98 ATEX 3133 U	EN 60079-0:2004
Type 284		EN 60079-7:2003
		EN 50281-1-1:1998
Terminal	PTB 98 ATEX 3132 U	EN 60079-0:2004
Type 283		EN 60079-7:2003
		EN 50281-1-1:1998
Terminal	PTB 98 ATEX 3131 U	EN 60079-0:2004
Type 282		EN 60079-7:2003
		EN 50281-1-1:1998
Terminal	PTB 98 ATEX 3125 U	EN 60079-0:2009
Type 262		EN 60079-7:2007
Terminal	PTB 05 ATEX 1095 U	EN 60079-0:2004
Type TOPJOB S 2004		EN 60079-7:2003
Terminal	PTB 99 ATEX 3109 U	EN 60079-0:2004
Type 280		EN 60079-7:2003
		EN 50281-1-1:1998
Terminal	PTB 98 ATEX 3134 U	EN 60079-0:2004
Type 285		EN 60079-7:2003
		EN 50281-1-1:1998
Terminal	SIRA 02 ATEX 3153 U	EN 60079-0:2004
Type WDU 2.5		EN 60079-7:2003
Terminal	QSI 12 ATEX 2028 U	EN 60079-0:2009
Type IAK 16		EN 60079-7:2007
Terminal	QSI 11 ATEX 2020 U	EN 60079-0:2009
Type MTKD		EN 60079-7:2007



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Parameters

Electrical Parameters

Junction/Terminal box type GHG 791 01 *** ****

Rated voltage ¹	AC / DC	690 V
Rated current ²	up to	32 A
Cross section ³	up to	6 mm ²

Junction/Terminal box type GHG 791 02 *** ****

Rated voltage ¹	AC / DC	690 V
Rated current ²	up to	28 A
Cross section ³	up to	6 mm ²

¹The rated voltage depends on the used type of terminal and the creepage and clearance distances.

²The rated current depends on the used type of terminal, the cross section and the number of conductors.

³According to the cross section / current table for each size of enclosure.

Thermal Parameters

Junction / Terminal box	T _{amb}	Maximum permitted power dissipation	
		T6	T5
GHG 791 01 *** ****	-55 °C bis +40 °C	4 W	5.5 W
	-55 °C bis +55 °C	2.5 W	4 W
GHG 791 02 *** ****	-55 °C bis +40 °C	6.7 W	9.1 W
	-55 °C bis +55 °C	4.2 W	6.7 W

Type GHG 791 01 *** ****

Current [A]	Cross section [mm ²]			
	1.5	2.5	4	6
3				
6	30			4)
10	10	20		
16	4	11	22	
20		5	12	
25			3	
35	5)			
1)	See explanation below the tables			
2)	See explanation below the tables			



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Type GHG 791 02 *** ****

Current [A]	Cross section [mm ²]				
	1.5	2.5	4	6	10
3					
6	37			4)	
10	12	24			
16	5	14	27		
20		6	15	30	
25	5)		4	11	3)
1)	See explanation below the tables				
2)	See explanation below the tables				

- 1) max. number of terminals depending on the above mentioned apparatus type and the built-in 2 wire terminals.
- 2) max. number of terminals depending on the above mentioned apparatus type and the max. number of conductors.
- 3) max. number of conductors depending on the cross-section and allowed continuous current for the mentioned apparatus type. The number of conductors is the sum of all incoming conductors and internal wire connections. Bridge links and earth conductors do not count.
- 4) This area can be used for the installation of further terminals taking into account the definition of the clearance parameters.
- 5) Terminal installation in this area requires separate temperature rise tests for each different variant of installation.