



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx BVS 12.0071X Issue No: 0 Certificate history:
Status: **Current** Issue No. 2 (2015-08-06)
Date of Issue: **2012-10-02** Page 1 of 3 Issue No. 1 (2014-06-11)
Applicant: **Cooper Crouse-Hinds GmbH** Issue No. 0 (2012-10-02)
Neuer Weg Nord 49
69412 Eberbach
Germany
Equipment: **Terminal box, type GHG 74 ***** ******
Optional accessory:
Type of Protection: **Equipment protection by intrinsic safety "i", Equipment dust ignition protection by enclosure "t", Equipment protection by increased safety "e"**
Marking: Ex e IIC T4 / T5 / T6 Gb
resp.
Ex e ib [ia/ib] IIC T4 / T5 / T6 Gb
Ex tb III C T80 °C / T95 °C Db

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

H.-Ch. Simanski

Position:

Head of 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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
DEKRA EXAM GmbH



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

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 : 2007-10 Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-11 : 2006 Edition:5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-31 : 2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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:

[DE/BVS/ExTR12.0068/00](#)

Quality Assessment Report:

[DE/BVS/QAR11.0009/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Terminal box type GHG 74 *** ** is used like a connection or junction box in type of protection increased safety "e" and type of protection by enclosure "t".

The empty enclosure is separately certified (PTB 99 ATEX 3118 U / IECEx PTB 11.0030 U).

The electrical connection can be realized with separately certified terminals in type of protection "e" increased safety and/or "i" intrinsic safety. The maximum numbers of the terminals, numbers of single leads, size of cross-section and the maximum rated current must be designed according to the maximum power dissipation (see table in parameters).

subject and type

see Annex

Parameters

see Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

The used empty enclosure made from the material SMC 0190 RAL 7035 has to carry the following warning "Clean with moist cloth only".

When mounting the separately certified terminals into the separately certified empty enclosure, the clearance and creepage distance must be observed in accordance to table 1 of EN/IEC 60079-7.

Annex:

[BVS_12_0071X_Cooper_Annex.pdf](#)



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Subject and Type

Terminal box type GHG 74 ***¹⁾ *** ***)²⁾

¹⁾ Version

Plastic version (l x w x d)

401 = (135 x 271 x 136) mm

502 = (271 x 271 x 136) mm

603 = (271 x 544 x 136) mm

904 = (271 x 817 x 136) mm

503 = (271 x 217 x 210) mm

604 = (271 x 544 x 210) mm

Metal version (l x w x d)

421 = (175,0 x 312,5 x 136,0) mm

522 = (312,5 x 312,5 x 136,0) mm

623 = (312,5 x 627,0 x 136,0) mm

924 = (312,45 x 941,5 x 136,0) mm

523 = (312,5 x 312,5 x 210,0) mm

624 = (312,5 x 627,0 x 210,0) mm

925 = (627,0 x 941,5 x 136,0) mm

926 = (627,0 x 941,5 x 210,0) mm

²⁾ not Ex-relevant



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Parameters

Electrical parameter

Nominal voltage¹⁾ up to 690 V AC / DC
Nominal current²⁾ up to 400 A
Terminal cross-section up to 400 mm²

¹⁾ Dependent on the used terminals, as well as the relevant creepage distances and clearances according table 1 of EN/IEC 60079-7.

²⁾ Dependent on the used terminals, as well as terminal cross-section and the number of single leads.

Power Dissipation

Rated current	Power Dissipation / Terminal cross-section					
	1,5 mm ²	2,5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²
2 A	0,020 W	---	---	---	---	---
3 A	0,025 W	0,015 W	---	---	---	---
4 A	0,040 W	0,025 W	0,015 W	---	---	---
5 A	0,055 W	0,080 W	0,025 W	0,015 W	---	---
10 A	0,250 W	0,200 W	0,080 W	0,060 W	0,035 W	0,025 W
15 A	---	0,350 W	0,200 W	0,130 W	0,080 W	0,050 W
20 A	---	---	0,350 W	0,230 W	0,150 W	0,080 W
25 A	---	---	---	0,350 W	0,230 W	0,150 W
30 A	---	---	---	---	0,320 W	0,200 W
40 A	---	---	---	---	0,550 W	0,350 W
50 A	---	---	---	---	---	0,550 W

Degree of IP-Protection IP6*

* Degree of IP Protection could be changed depending on the enclosure configuration (according the empty enclosure certificate PTB 99 ATEX 3118 U / IECEx PTB 11.00030 U).

Thermal data

Ambient temperature range -55 °C up to +40 °C (T6)
-55 °C up to +55 °C (T5)