



## Translation

# (1) EC-Type Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) No. of EC-Type Examination Certificate: **BVS 12 ATEX E 118 X**
- (4) Equipment: **Terminal box type GHG 74 \*\*\* \*\* \***
- (5) Manufacturer: **Cooper Crouse-Hinds GmbH**
- (6) Address: **Neuer Weg Nord 49, 69412 Eberbach, Germany**
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the test and assessment report BVS PP 12.2132 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- EN 60079-0:2009 General requirements**  
**EN 60079-7:2007 Increased safety „e“**  
**EN 60079-11:2007 Intrinsic safety „i“**  
**EN 60079-31:2009 Protection by enclosures „t“**
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.
- (11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:

 **II 2G Ex e IIC T4 / T5 / T6 Gb**  
resp.  
**II 2G Ex e ib [ia/ib] IIC T4 / T5 / T6 Gb**  
 **II 2D Ex tb IIIC T80 °C / T95 °C Db IP 6\***  
\* see parameters

DEKRA EXAM GmbH  
Bochum, dated 25. September 2012

Signed: Simanski

\_\_\_\_\_  
Certification body

Signed: Eickhoff

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Special services unit

- (13) Appendix to
- (14) **EC-Type Examination Certificate**  
**BVS 12 ATEX E 118 X**
- (15) 15.1 Subject and type

Terminal box type GHG 74 \*\*\*<sup>1)</sup> \*\*\* \*\*\*)<sup>2)</sup>

<sup>1)</sup> 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

<sup>2)</sup> not Ex-relevant

### 15.2 Description

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 the maximum power dissipation (see table in parameters).

### 15.3 Parameters

#### Electrical parameter

Nominal voltage <sup>1)</sup>	up to 690 V AC / DC
Nominal current <sup>2)</sup>	up to 400 A
Terminal cross-section	up to 400 mm <sup>2</sup>

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

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



## Translation

# (1) 1<sup>st</sup> Supplement to the EC-Type Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC Supplement accordant with Annex III number 6
- (3) No. of EC-Type Examination Certificate: **BVS 12 ATEX E 118 X**
- (4) Equipment: **Terminal box type GHG 74 \*\*\* \*\* \***
- (5) Manufacturer: **Cooper Crouse-Hinds GmbH**
- (6) Address: **Neuer Weg-Nord 49, 69412 Eberbach, Germany**
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this supplement.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the Test and Assessment Report BVS PP 12.2132 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- |                                   |                                    |
|-----------------------------------|------------------------------------|
| <b>EN 60079-0:2012 + A11:2013</b> | <b>General requirements</b>        |
| <b>EN 60079-7:2007</b>            | <b>Increased safety "e"</b>        |
| <b>EN 60079-11:2012</b>           | <b>Intrinsic safety "i"</b>        |
| <b>EN 60079-31:2014</b>           | <b>Protection by enclosure "t"</b> |
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.
- (11) This supplement to the EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:

 **II 2G Ex e\* IIC T4 / T5 / T6 Gb**

 **II 2D Ex tb IIIC T80°C / T95°C Db**

\*) Optional the marking can be amplified with the types of protection of the separately certified components, for example "d", "e", "mb" and/or "ia/ib".

DEKRA EXAM GmbH  
Bochum, dated 2015-07-28

Signed: Simanski

Certification body

Signed: Dr. Wittler

Special services unit

- (13) Appendix to
- (14) **1<sup>st</sup> Supplement to the EC-Type Examination Certificate  
BVS 12 ATEX E 118 X**
- (15) 15.1 Subject and type

Terminal box type GHG 74 \*\*\*<sup>1)</sup> \*\*\* \*\*\*\*<sup>2)</sup>

<sup>1)</sup> 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

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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

<sup>2)</sup> not Ex-relevant

### 15.2 Description

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.

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 the maximum power dissipation (see table in parameters).

If terminals in type of protection Intrinsic Safety are used the distances according to EN/IEC 60079-11 are fulfilled respectively a suitable spacer is installed.

Separately certified components can be built in the terminal box. They are in one of the types of protection according to EN/IEC 60079-0.

The reason for this supplement is the updating to the new standard.

## 15.3 Parameters

### Electrical parameters

Nominal voltage <sup>1)</sup>	up to 690 V AC / DC
Nominal current <sup>2)</sup>	up to 400 A
Terminal cross-section	up to 400 mm <sup>2</sup>

- 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.

Max. Power dissipation for Plastic version 401 = (135 x 271 x 136) mm:

Max. ambient temp.	T6	T5
40 °C	21 W	28 W
55 °C	10 W	21 W

Max. Power dissipation for Plastic version 502 = (271 x 271 x 136) mm:

Max. ambient temp.	T6	T5
40 °C	33 W	46 W
55 °C	20 W	33 W

Max. Power dissipation for Plastic version 603 = (271 x 544 x 136) mm:

Max. ambient temp.	T6	T5
40 °C	59 W	81 W
55 °C	36 W	59 W

Max. Power dissipation for Plastic version 904 = (271 x 817 x 136) mm:

Max. ambient temp.	T6	T5
40 °C	85 W	117 W
55 °C	52 W	85 W

Max. Power dissipation for Plastic version 503 = (271 x 217 x 210) mm:

Max. ambient temp.	T6	T5
40 °C	43 W	59 W
55 °C	26 W	43 W

Max. Power dissipation for Plastic version 604 = (271 x 544 x 210) mm

Max. ambient temp.	T6	T5
40 °C	73 W	101 W
55 °C	45 W	73 W

Max. Power dissipation for Metal version 421 = (175.0 x 312.5 x 136.0) mm:

Max. ambient temp.	T6	T5
40 °C	46 W	63 W
55 °C	28 W	46 W

Max. Power dissipation for Metal version 522 = (312.5 x 312.5 x 136.0) mm:

Max. ambient temp.	T6	T5
40 °C	69 W	95 W
55 °C	43 W	69 W

Max. Power dissipation for Metal version 623 = (312.5 x 627.0 x 136.0) mm

Max. ambient temp.	T6	T5
40 °C	123 W	170 W
55 °C	76 W	123 W

Max. Power dissipation for Metal version 924 = (312.45 x 941.5 x 136.0) mm

Max. ambient temp.	T6	T5
40 °C	177 W	244 W
55 °C	110 W	177 W

Max. Power dissipation for Metal version 523 = (312.5 x 312.5 x 210.0) mm

Max. ambient temp.	T6	T5
40 °C	87 W	119 W
55 °C	54 W	87 W

Max. Power dissipation for Metal version 624 = (312.5 x 627.0 x 210.0) mm:

Max. ambient temp.	T6	T5
40 °C	150 W	207 W
55 °C	94 W	150 W

Max. Power dissipation for Metal version 925 = (627.0 x 941.5 x 136.0) mm

Max. ambient temp.	T6	T5
40 °C	309 W	425 W
55 °C	193 W	309 W

Max. Power dissipation for Metal version 926 = (627.0 x 941.5 x 210.0) mm:

Max. ambient temp.	T6	T5
40 °C	353 W	486 W
55 °C	220 W	353 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 11.0030 U).

#### Thermal data

Ambient temperature range -55 °C up to +55 °C see above  
-55 °C up to +55 °C (T4)\*

\* Only for use of terminals in type of protection Intrinsic Safety "i"

### (16) Test and Assessment Report

BVS PP 12.2132 EG as of 2015-07-28

(17) Special conditions for safe use Installation instructions

- 17.1 The used empty enclosure made from the material SMC 0190 RAL 7035 is only permitted to use in Zone 1 and has to carry the following warning "Clean with moist cloth only".
- 17.2 When mounting the separately certified terminals into the separately certified empty enclosure, the clearances and creepage distances in accordance with table 1 of EN/IEC 60079-7 have to be fulfilled.

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We confirm the correctness of the translation from the German original.  
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH  
44809 Bochum, 2015-07-28  
BVS-Hk/Mu A 20150455



\_\_\_\_\_  
Certification body



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Special services unit



Translation

1 **EU-Type Examination Certificate**

2 **Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014**

3 EU-Type Examination Certificate Number: **BVS 12 ATEX E 118 X** Issue: **01**

4 Equipment: **Terminal box type GHG 74 \*\*\* \*\* \* \*\*\*\***

5 Manufacturer: **Cooper Crouse-Hinds GmbH**

6 Address: **Neuer Weg Nord 49, 69412 Eberbach, Germany**

7 This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

8 DEKRA Testing and Certification GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential Report No. BVS PP 12.2132 EU.

This issue of the EU-Type Examination Certificate replaces the previous issue of the EC-Type Examination Certificate BVS 12 ATEX E 118 X including supplement 1.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

<b>EN IEC 60079-0:2018</b>	<b>General requirements</b>
<b>EN IEC 60079-7:2015 + A1:2018</b>	<b>Increased Safety "e"</b>
<b>EN 60079-11:2012</b>	<b>Intrinsic Safety "i"</b>
<b>EN 60079-31:2014</b>	<b>Protection by Enclosure "t"</b>

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

11 This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

 **II 2G Ex eb\* IIC T4 / T5 / T6 Gb**  
**II 2D Ex tb IIIC T80°C / T95°C Db**

\*) Optional the marking can be amplified with the types of protection of the separately certified components, for example "db", "eb", "mb" and/or "ia/ib".

DEKRA Testing and Certification GmbH  
Bochum, 2022-11-23

Signed: Dr. Rolf Krökel

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Managing Director

13 **Appendix**

14 **EU-Type Examination Certificate**

**BVS 12 ATEX E 118 X issue 01**

15 **Product description**

15.1 **Subject and type**

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

1) Version

Plastic version (l x w x d)

401 = (135 x 271 x 137) mm

502 = (271 x 271 x 137) mm

503 = (271 x 271 x 211) mm

603 = (271 x 544 x 137) mm

604 = (271 x 544 x 211) mm

904 = (271 x 817 x 137) mm

905 = (271 x 817 x 211) mm

Metal version (l x w x d)

421 = (175.0 x 312.5 x 135) mm

522 = (312.5 x 312.5 x 135) mm

523 = (312.5 x 312.5 x 210) mm

623 = (312.5 x 627.0 x 135) mm

624 = (312.5 x 627.0 x 210) mm

924 = (312.5 x 941.5 x 135) mm

925 = (627.0 x 941.5 x 135) mm

926 = (627.0 x 941.5 x 210) mm

2) not Ex-relevant

15.2 **Description**

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.

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).

If terminals in type of protection Intrinsic Safety are used the distances according to EN 60079-11 are fulfilled respectively a suitable spacer is installed.

Separately certified components can be built in the terminal box. They are in one of the types of protection according to EN IEC 60079-0.

**Reason for this issue:**

- Change to Directive 2014/34/EU
- Updating to the new standard
- Addition of two new enclosure sizes

Listing of all used components

Subject and type	Certificate
Terminals	see "List of Components" GHG 902 5018 F0001
Different mounting components	see "List of Components" GHG 902 5018 F0002

15.3 Parameters

Electrical parameter

Nominal voltage <sup>1)</sup>	up to 690 V AC / DC
Nominal current <sup>2)</sup>	up to 400 A
Terminal cross-section	up to 400 mm <sup>2</sup>

1) Dependent on the used terminals, as well as the relevant creepage distances and clearances according to 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.

Max. Power dissipation for Plastic version 401 = (135 x 271 x 137) mm:

Max. ambient temp.	T6	T5
40 °C	18.1 W	24.9 W
55 °C	11.3 W	18.1 W

Max. Power dissipation for Plastic version 502 = (271 x 271 x 137) mm:

Max. ambient temp.	T6	T5
40 °C	34.5 W	47.4 W
55 °C	21.5 W	34.5 W

Max. Power dissipation for Plastic version 503 = (271 x 271 x 211) mm:

Max. ambient temp.	T6	T5
40 °C	43.8 W	60.3 W
55 °C	27.4 W	43.8 W

Max. Power dissipation for Plastic version 603 = (271 x 544 x 137) mm:

Max. ambient temp..	T6	T5
40 °C	60.5 W	83.1 W
55 °C	37.8 W	60.5 W

Max. Power dissipation for Plastic version 604 = (271 x 544 x 211) mm

Max. ambient temp.	T6	T5
40 °C	74.5 W	102.5 W
55 °C	46.6 W	74.5 W

Max. Power dissipation for Plastic version 904 = (271 x 817 x 137) mm:

Max. ambient temp.	T6	T5
40 °C	86.4 W	118.9 W
55 °C	54 W	86.4 W

Max. Power dissipation for Plastic version 905 = (271 x 817 x 211) mm:

Max. ambient temp.	T6	T5
40 °C	105.2 W	144.7 W
55 °C	65.8 W	105.2 W

Max. Power dissipation for Metal version 421 = (175.0 x 312.5 x 136.0) mm:

Max. ambient temp.	T6	T5
40 °C	46.6 W	64.1 W
55 °C	29.1 W	46.6 W

Max. Power dissipation for Metal version 522 = (312.5 x 312.5 x 136.0) mm:

Max. ambient temp.	T6	T5
40 °C	70.4 W	96.8 W
55 °C	44 W	70.4 W

Max. Power dissipation for Metal version 523 = (312.5 x 312.5 x 210.0) mm

Max. ambient temp.	T6	T5
40 °C	88.5 W	121.7 W
55 °C	55.3 W	88.5 W

Max. Power dissipation for Metal version 623 = (312.5 x 627.0 x 135.0) mm

Max. ambient temp.	T6	T5
40 °C	124.8 W	171.6 W
55 °C	78 W	124.8 W

Max. Power dissipation for Metal version 624 = (312.5 x 627.0 x 210.0) mm:

Max. ambient temp.	T6	T5
40 °C	152 W	95 W
55 °C	209.1 W	152 W

Max. Power dissipation for Metal version 924 = (312.45 x 941.5 x 136.0) mm

Max. ambient temp.	T6	T5
40 °C	179.2 W	246 W
55 °C	112 W	179.2 W

Max. Power dissipation for Metal version 925 = (627.0 x 941.5 x 136.0) mm

Max. ambient temp.	T6	T5
40 °C	310.1 W	426.4 W
55 °C	193.8 W	310.1 W

Max. Power dissipation for Metal version 926 = (627.0 x 941.5 x 210.0) mm:

Max. ambient temp.	T6	T5
40 °C	355.6 W	489 W
55 °C	222.3 W	355.6 W

Degree of IP-Protection

According to the empty enclosure certificate  
PTB 99 ATEX 3118 U / IECEx PTB 11.0030 U

Thermal data

Ambient temperature range -55 °C up to +55 °C see above  
-55 °C up to +55 °C (T5)  
-55 °C up to +55 °C (T4)\*  
\*only for use of terminals in type of protection Intrinsic Safety „i“.

**16 Report Number**

BVS PP 12.2132 EU, as of 2022-11-23

**17 Specific Conditions of Use**

- 17.1 The used empty enclosure made from the material SMC 0190 RAL 7035 is only permitted to use in Zone 1 and has to carry the following warning "Clean with moist cloth only".
- 17.2 When mounting the separately certified terminals into the separately certified empty enclosure, the clearances and creepage distances in accordance with table 1 of EN IEC 60079-7 have to be fulfilled.

**18 Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

**19 Remarks and additional information**

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.  
In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH  
Bochum, 2022-11-23  
BVS-Pz/MGR A 20220316 / 3426910



Managing Director