

Translation

1 **EU-Type Examination Certificate**

2 **Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU**

3 EU-Type Examination Certificate Number: **BVS 22 ATEX E 018 X**

4 Product: **Load-, Main-, Motor- and Safety switch type
GHG 265 / GHG 266**

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 22.2043 EU.

9 The Essential Health and Safety Requirements are assured in consideration of:

EN IEC 60079-0:2018	General requirements
EN 60079-1:2014/AC:2018	Flameproof enclosure "d"
EN IEC 60079-7:2015 + A1:2018	Increased Safety "e"
EN 60079-11:2012	Intrinsic Safety "i"
EN 60079-31:2014	Protection by Enclosure "t"

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified product. 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 db eb ia IIC/IIB/IIB+H₂ T6/T5 Gb
II 2D Ex tb IIIC T80°C Db**

DEKRA Testing and Certification GmbH
Bochum, 2022-03-22

Signed: Jörg-Timm Kilisch

Managing Director

13 **Appendix**

14 **EU-Type Examination Certificate**

BVS 22 ATEX E 018 X

15 **Product description**

15.1 **Subject and type**

Load-, Main-, Motor- and Safety switch

type GHG 265¹⁾²⁾

1) switch base version 5 = 125 A

2) device version 0009 = safety switch for variable frequency drives
 0010 = safety switch
 0011 = main switch and switch disconnecter
 0014 = socket outlet switch

type GHG 266¹⁾²⁾

1) switch base version 5 = 125 A

2) device version 0004 = safety switch
 0006 = safety switch
 0007 = special switch
 0008 = main switch
 0009 = safety switch for variable frequency drives
 0010 = safety switch
 0011 = main switch and switch disconnecter
 0014 = socket outlet switch

15.2 **Description**

The power and safety switch type 265 / GHG 266 is used for switch and disconnect of a rated current up to 125 A / 180 A. The power and safety switch is built in type of protection “eb” Increased Safety or “tb” Protection by Enclosure. Optionally, circuits in type of protection Intrinsic Safety being connected to the separately certified terminals or components.

A separately certified empty enclosure (PTB 99 ATEX 3118 U - made of plastic or metal) is used.

The switch enclosure is equipped with a separately certified auxiliary switch socket (20 A) type GHG 288 ** ** R**** (BVS 14 ATEX E 076 U) and / or Ex-d switch base (125 A / 180 A) type GHG 265 ****R **** (BVS 21 ATEX E 079 U) in type of protection “d” Flameproof Enclosure. Optionally, equipped with light module (IBExU 12 ATEX 1047 U, Ex-d component (IBExU 14 ATEX 1030 U), AM/VM 45 + AM/VM 72 type GHG41098 (BVS 14 ATEX E 125 U) and / or seperately certified terminal strip (PTB 01 ATEX 1004 U).

Alternatively, seperately tetsed actuators according BVS PB 08/20/N1 and / or PTB Ex 14-11065 can be used.

Optionally, seperately certified terminals can be used according “List of components” GHG9025018F0001.

15.3 Parameters

Rated voltage up to 690 V
 Rated current up to 125 A (GHG265)
 up to 180 A (GHG266)
 Rated cross-section up to 120 mm² (fine-stranded and stranded)
 Ambient temperature range -40 °C up to +55 °C (IIC)
 -55 °C up to +55 °C (IIB/IIB+H₂/IIIC)

Temperature class:

GHG265 T6 (max. 125 A, T_{amb}: +55 °C, Ø max. 120 mm²)
GHG266 T6 (max. 160 A, T_{amb}: +40 °C, Ø max. 70 mm²)
 T5 (max. 160 A, T_{amb}: +55 °C, Ø max. 70 mm²)
 T6 (max. 160 A, T_{amb}: +40 °C, Ø max. 95 mm²)
 T5 (max. 160 A, T_{amb}: +55 °C, Ø max. 95 mm²)
 T6 (max. 180 A, T_{amb}: +40 °C, Ø max. 95 mm²)
 T5 (max. 180 A, T_{amb}: +55 °C, Ø max. 95 mm²)
 T6 (max. 160 A, T_{amb}: +40 °C, Ø max. 120 mm²)
 T6 (max. 160 A, T_{amb}: +55 °C, Ø max. 120 mm²)
 T6 (max. 180 A, T_{amb}: +40 °C, Ø max. 120 mm²)
 T5 (max. 180 A, T_{amb}: +55 °C, Ø max. 120 mm²)

Intrinsically safe circuits	
Signal lamp Type GHG 417 1805 R...	IBExU 12 ATEX 1047 U
Voltage	U _i ≤ 30 V
Current	I _i ≤ 120 mA
Power	P _i ≤ 750 mW
Effective internal inductance	negligible
Effective internal capacity	negligible

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17 Special Conditions for Use

The dimensions of the flameproof joints are in parts other than the relevant minimum or maximum values of EN 60079-1:2014. For information on the dimensions of the flameproof joints contact the manufacturer.

For the combination with circuits in type of protection Intrinsic Safety "i" the creepage and clearance distances between the intrinsically and non-intrinsically circuits must fulfil the requirements according EN IEC 60079-0:2018

18 **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 **Drawings and Documents**

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, 2022-03-22
BVS-Pz/Mu A20211445



Managing Director