

Translation

EU-Type Examination Certificate

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

EU-Type Examination Certificate Number: **BVS 16 ATEX E 079**

Product: **Control-, load-, master-, motor- and safety switch
Type GHG 26100 ** R ******

Manufacturer: **Cooper Crouse-Hinds GmbH**

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

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

DEKRA EXAM 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 16.2133 EU.


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

EN 60079-0:2012 + A11:2013	General requirements
EN 60079-1:2014	Flameproof enclosure "d"
EN 60079-7:2015	Increased Safety "e"
EN 60079-31:2014	Protection by Enclosure "t"

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.

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.

The marking of the product shall include the following:

 **II 2G Ex eb db IIC T6 Gb**
II 2D Ex tb IIIC T80°C Db

DEKRA EXAM GmbH
Bochum, 2016-08-04

Signed: Dr. Franz Eickhoff

Certifier

Signed: Dr. Michael Wittler

Approver

- 13 **Appendix**
- 14 **EU-Type Examination Certificate**
BVS 16 ATEX E 079
- 15 **Product description**
- 15.1 **Subject and type**

Control-, load-, master-, motor- and safety switch
Type GHG 26100 ^{**1)}R ^{****2)}

- 2 switch
- 6100 10 A switch
- ^{**1)} variants, not relevant for explosion protection
- R ATEX/IECEX variant
- ^{****2)} variants, not relevant for explosion protection

15.2 **Description**

The control, load, master, motor and safety switch type GHG 26100 ** R **** consists of a plastic enclosure in type of protection Increased Safety "e" and Protection by enclosure "t". The Enclosure includes a switch base in type of protection Flameproof Encapsulation "d" according to BVS 13 ATEX E107 U and a terminal block in type of protection Increased Safety "e" according to PTB 01 ATEX 1004 U.

Listing of all components used referring to older standards

Subject and type	Certificate	Standards
Switch base GHG 238 **** R ****	BVS 13 ATEX E 107 U	EN 60079-0:2012 EN 60079-1:2007 EN 60079-7:2007 EN 60079-11:2012
Terminal block GHG 240 130* R ****	PTB 01 ATEX 1004 U	EN 60079-0:2012 EN 60079-7:2007

15.3 **Parameters**

15.3.1 Electrical data

rated voltage 500 V, 50/60 Hz
rated current 10 A

15.3.2 Thermal data

Temperature class T6
Maximum surface temperature T80 °C
permitted ambient temperature range -20 °C ≤ T_{amb} ≤ +49 °C

16 **Report Number**

BVS PP 16.2133 EU, as of 2016-08-04

17 **Special Conditions for Use**

None

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 EXAM GmbH
Bochum, dated 2016-08-04
BVS-Ret/Pz/Nu A 20120653



Certifier



Approver

Translation

EU-Type Examination Certificate Supplement 1

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

EU-Type Examination Certificate Number: **BVS 16 ATEX E 079**

Product: **Control-, load-, master-, motor- and safety switch type GHG 26100 ** R ******

Manufacturer: **Cooper Crouse-Hinds GmbH**

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

This supplementary certificate extends EU-Type Examination Certificate No. BVS 16 ATEX E 079 to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

DEKRA EXAM 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 16.2133 EU.


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

EN 60079-0:2012 + A11:2013	General requirements
EN 60079-1:2014	Flameproof enclosure "d"
EN 60079-7:2015	Increased Safety "e"
EN 60079-31:2014	Protection by Enclosure "t"

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.

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.

The marking of the product shall include the following:

 **II 2G Ex eb db IIC T6 Gb**
II 2D Ex tb IIIC T80°C Db

DEKRA EXAM GmbH
Bochum, 2017-11-08

Signed: Jörg Koch

Certifier

Signed: Dr Michael Wittler

Approver

13 **Appendix**

14 **EU-Type Examination Certificate**

**BVS 16 ATEX E 079
Supplement 1**

15 **Product description**

15.1 **Subject and type**

Control, load, master, motor and safety switch
type GHG 26100 **¹⁾ R ****²⁾

- 2 switch
- 6100 10 A switch
- ¹⁾ variants, not relevant for explosion protection
 - 05 = Safety switch
 - 06 = Main switch
- R ATEX version
- ²⁾ variants, not relevant for explosion protection

15.2 **Description**

Description of Product:

The control, load, master, motor and safety switch type GHG 26100 ** R **** consists of a plastic enclosure in type of protection Increased Safety "e" and Protection by enclosure "t". The Enclosure includes a switch base in type of protection Flameproof Encapsulation "d" according to BVS 13 ATEX E107 U and a terminal block in type of protection Increased Safety "e" according to PTB 01 ATEX 1004 U.

Reason for the supplement:

In order to extend the ambient temperature range to $-54\text{ °C} \leq T_{\text{amb}} \leq +55\text{ °C}$, a sealing material was replaced.

Listing of all components used referring to older standards

Subject and type	Certificate	Standards
Terminal block GHG 240 130* R ****	PTB 01 ATEX 1004 U	EN 60079-0:2012 EN 60079-7:2007

15.3 **Parameters**

15.3.1 Electrical data

Rated voltage 500 V, 50 / 60 Hz
Rated current 10 A

15.3.2 Thermal data

Temperature class T6
Maximum surface temperature T80 °C
Permitted ambient temperature range $-54\text{ °C} \leq T_{\text{amb}} \leq +55\text{ °C}$

16 **Report Number**

BVS PP 16.2133 EU, as of 2017-11-08

17 **Special Conditions for Use**

None

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 EXAM GmbH
Bochum, dated 2017-11-08
BVS-Ret/Hk/Mu A 20170700



Certifier



Approver