Translation

1 # EU-Type Examination Certificate Supplement 1

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

3 EU-Type Examination Certificate Number: **BVS 19 ATEX E 048 X**

4 Product: **Power and safety switch type GHG 262 * * ** * ****

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

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

7 This supplementary certificate extends EU-Type Examination Certificate No. BVS 19 ATEX E 048 X 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.

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 19.2092 EU.

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

EN IEC 60079-0:2018	**General requirements**
EN 60079-1:2014	**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 IIB/IIC T6 / T5 Gb
II 2D Ex tb IIIC T80°C Db

DEKRA Testing and Certification GmbH
Bochum, 2020-03-26

Signed: Jörg-Timm Kilisch

Managing Director

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13 **Appendix**

14 **EU-Type Examination Certificate**

BVS 19 ATEX E 048 X
Supplement 1

15 **Product description**

15.1 **Subject and type**

Power and safety switch type GHG 262[1) *2) *3) **4) * ****

1) Switch 20 A

2) Switch and enclosure version
1 = Main current switch – plastic version
2 = Safety switch – plastic version
3 = Main current swtich – metal version
4 = Safety switch – metal version

3) Number of switch contacts
3 = 3- poles
4 = 4- poles
5 = 5- poles
6 = 6- poles

4) Equipment version
01 = Standard version
02 = Special version
51-99 = Without influence to the type of protection

15.2 **Description**

The power and safety switch type GHG 262 * * ** * **** is used for switch and disconnect of a rated current up to 20 A. The power and safety switch type GHG 262 * * ** * **** 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.
The enclosure is made of plastic. Alternatively, separately certified enclosure (PTB 99 ATEX 3118 U / IECEx PTB 11.0030U - made of plastic or metal) can be used. The switch enclosure is equipped with a separately certified switch socket (BVS 14 ATEX E 076 U / IECEx BVS 14.0047U) in type of protection "d" Flameproof Enclosure. Optionally, equipped with an auxiliary switch (EPS 14 ATEX 1 688 U / IECEx EPS 14.0038U), light module (IBExU 12 ATEX 1047 U / IECEx IBE 13.0031U resp. EPS 14 ATEX 1 688 U / IECEx EPS 14.0038U), Ex-d component (IBExU 14 ATEX 1030 U / IECEx IBE 14.0005U) and / or seperately certified terminal block (PTB 00 ATEX 3102 U / IECEx PTB11.0029U) or terminal strip (PTB 01 ATEX 1004 U / IECEx PTB 15.0028U).

Optionally, seperately certifed terminals can be used according "List of components".

Reason for the supplement:

- Ambient temperature ranges were extended on the basis of subsequent tests.

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15.3 Parameters

Rated voltage	up to 690 V
Rated current	up to 20 A
Rated cross-section	up to 4 mm² (fine-stranded and stranded)
Ambient temperature range	-45 °C up to +55 °C (IIC) -55 °C up to +55 °C (IIB/IIIC) -50 °C up to +55 °C (IIB/IIC only security switch for inverter drives)

Cross-section	Rated current	Temperature class at T_{amb}		
		+40 °C	+50 °C	+55 °C
1.5 mm²	≤ 10 A	T6 / T80 °C	T6 / T80 °C	T6 / T80 °C
2.5 mm²	≤ 16 A	T6 / T80 °C	T5 / T80 °C	---
2.5 mm²	≤ 20 A	T5 / T80 °C	---	---
4 mm²	≤ 20 A	T6 / T80 °C	T6 / T80 °C	T5 / T80 °C
6 mm²	≤ 20 A	T6 / T80 °C	T6 / T80 °C	T6 / T80 °C

Intrinsically safe circuits	
Signal lamp Type GHG 417 1805 R...	IBExU 12 ATEX 1047 U
Voltage	$U_i \leq$ 30 V
Current	$I_i \leq$ 120 mA
Power	$P_i \leq$ 750 mW
Effective internal inductance	negligible
Effective internal capacity	negligible

16 Report Number

BVS PP 19.2092 EU, as of 2020-03-26

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.

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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, 2020-03-26
BVS-Pz/Mu A 20200099

Managing Director

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