


Translation

(1) 3. 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 09 ATEX E 145 U**
- (4) Component: **Ex-d Komponente type GHG 62**
- (5) Manufacturer: **Cooper Crouse-Hinds GmbH**
- (6) Address: **Neuer Weg Nord 49, 69412 Eberbach, Germany**
- (7) The design and construction of this component 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 component 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 09.2182 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- IEC 60079-0:2011 General requirements**
EN 60079-1:2007 Flameproof enclosure "d"
EN 60079-7:2007 Increased safety "e"
EN 60079-11:2007 Intrinsic safety "i"
- (10) The sign "U" placed after the certificate number indicates that the certificate must not be mistaken for a certificate for equipment. This certificate may only be used as the basis for the certification of equipment.
- (11) This supplement to the EC-Type Examination Certificate relates only to the design, examination and tests of the specified component in accordance to Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.
- (12) The marking of the component shall include the following:

 **II 2G Ex de IIB/IIC Gb or Ex de [ia] ib IIB/IIC Gb**
resp.

 **II 2G Ex db eb IIB/IIC or Ex db eb [ia] ib IIB/IIC**

DEKRA EXAM GmbH
Bochum, dated 23. July 2012

Signed: Dr. Franz Eickhoff

Signed: Günther Schumann

Certification body

Special services unit

(13) Appendix to

(14) **3. Supplement to the EC-Type Examination Certificate
BVS 09 ATEX E 145 U**

(15) 15.1 Subject and type

Ex-d components type GHG 62 *¹⁾ *²⁾ ***R****³⁾

1) versions

- 1 – controller/distribution
- 2 – circuit breaker acc. to IEC/UL 1077
- 3 – circuit breaker acc. to UL 489
- 4 – earth-leakage trip acc. to IEC
- 5 – earth-leakage trip/LS switch acc. to IEC/UL
- 6 – contactor / relay / therm. relay
- 7 – power switch till 125 A

2) dimensions

- 1 – w 36 x h 132 x l 177
- 2 – w 54 x h 132 x l 177
- 3 – w 72 x h 132 x l 177
- 4 – w 108 x h 132 x l 177
- 5 – w 116 x h 148 x l 266
- 6 – w 130 x h 183 x l 270

3) assembly

without influence on the explosion protection

15.2 Description

The Ex-d components consist of a top and bottom part made of Ultramid. After the parts are being built in both parts are connected tightly and built into an enclosure in the type of protection Increased Safety according to EN/IEC 60079-7.

The reason of the supplement is the updating to the standard IEC 60079-0:2011, the Ex-d component series type GHG 62 * * ***R**** is amplified with the enclosure size 5 and the self-drilling thread bush M10x1.75 have been changed to M10x2.

15.3 Parameters

Type GHG 62 * 1/2/3/4/5/6 ***R****

main contact
rated voltage max. 690 V / 50/60 Hz

auxiliary contact
rated voltage max. 250 V / 50/60 Hz

Limits of service temperature

IIC: Type GHG 62 * 1/2/3/4 ***R**** -20 °C...+110 °C

IIB: Type GHG 62 * 1/2 ***R**** -45 °C...+110 °C

IIC: Type GHG 62 * 5/6 ***R**** -20 °C...+110 °C

IIB: Type GHG 62 * 5/6 ***R**** -20 °C...+110 °C

(16) Test and assessment report

BVS PP 09.2182 EG as of 23.07.2012



(17) Installation instructions

- 17.1 The Ex-d components shall be built in an enclosure in type of protection Increased Safety according to EN/IEC 60079-7.
- 17.2 The max. temperature rise at the Ex-d components at rated values shall not exceed 55 K.

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, 23. July 2012
BVS-Yil/Sp A 20120229



Certification body



Special services unit

