



## (1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

**PTB 00 ATEX 1073**

(4) Equipment: Distribution system of the multi-enclosure type, GHG 758.....

(5) Manufacturer: CEAG Sicherheitstechnik GmbH

(6) Address: Neuer Weg Nord 49; D-69412 Eberbach

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC 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 confidential report PTB Ex 00-19130.

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

**EN 50014:1997 + A1 + A2**

**EN 50018:1994**

**EN 50019:1994**

**EN 50020:1994**

**EN 50028:1994**

(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 schedule to this certificate.

(11) This EC-type-examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

(12) The marking of the equipment shall include the following:

**II 2 G EEx d e ia/ib m [ia/ib] IIC T4 - T6**

Zertifizierungsstelle Explosionsschutz

Braunschweig, February 12, 2001

By order:

Dr.-Ing. G. Klausmeyer  
Regierungsdirektor



(13)

## SCHEDULE

(14)

### EC TYPE-EXAMINATION CERTIFICATE PTB 00 ATEX 1073

(15) Description of equipment

The distribution system of the multi-enclosure type, GHG 758....., is a power distribution system based on EN 60 439-1. It is an assembly consisting of such – separately certified – electrical equipment as breaker enclosure, enclosure with l.v. high-breaking-capacity fuses, control unit enclosure, terminal enclosure, etc. Power distribution may proceed with or without a busbar system. The technical particulars are specified in the test documents.

Technical data:

|                                       |            |           |            |
|---------------------------------------|------------|-----------|------------|
| Rated current:                        | 250A       | 400 A     | 630 A      |
| Rated voltage:                        | max. 730 V |           |            |
| Busbar:                               | 2*20*5 mm  | 3*20*5 mm | 2*30*10 mm |
| Max. rated short-circuit current:     | 35 kA      | 53 kA     | 59.2 kA    |
| Max. rated short-time current (1 s) : | 9.4 kA     | 10.7 kA   | 13.2 kA    |
| Max. length of complete assembly :    | 6.3 m      |           |            |

The ratings are maximum values. Actual values have to be equal to or smaller than these maximum values, and they follow from the composition of the different enclosures forming the complete assembly. The line-side fuse or protective equipment has to be selected so as to provide for reliable disconnection of the rated short-circuit current and the rated short-time current (1 sec.).

Admissible ambient-temperature range: -55 °C to 40 °C. Depending on the use of the different – separately certified – components, the admissible ambient-temperature range may have to be limited.

(16) Test report PTB Ex 00-19130

(17) Special conditions for safe use

None;

# Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

## SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 00 ATEX 1073

Additional notes for safe use:

Compliance with the temperature class of the busbar system in case of overload conditions, may be safeguarded either by providing an adequate protective device (current monitoring device with adequate release time) in the input circuit or the output circuits, or by adjusting the current rating to the tripping characteristics of conventional protective devices. These measures shall be taken by the user of the apparatus.

The degree of protection (IP54 as a minimum) will only be met if the tested sealings, flanges, and cable entries are used in compliance with their intended purpose and if the – separately certified – electrical apparatus will be installed as specified.

The individual enclosures shall be assembled to form a complete or transportable units in such a way that IP 54 will be achieved. Long enclosure assemblies will be provided with an auxiliary frame.

Any separately certified equipment shall be fitted into enclosures or enclosure covers in such a way that the mechanical stability and strength of the enclosures will not be reduced, the clearance and creepage distances will be met, and the conditions of installation (electrical data, equipotential bonding, operating temperature range etc.) specified in the examination certificates for the different devices will be met.

(18) Essential health and safety requirements

Covered by the Standards.

Zertifizierungsstelle Explosionschutz

By order:



Dr.-Ing. U. Klausmeyer  
Regierungsdirektor

Braunschweig, February 12, 2001

## 1st SUPPLEMENT


according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 00 ATEX 1073

(Translation)

Equipment: Distribution system of the multiple-enclosure type GHG 758 .....

Marking:  II 2 G EEx de ia/ib m [ia/ib] IIC T4 – T6

 II 2 D IP 66 T 80 °C, T 95 °C or T 100 °C

Manufacturer: Cooper Crouse Hinds GmbH

Address: Neuer Weg Nord 49  
69412 Eberbach, Germany

### Description of supplements and modifications

The originally issued type approval is extended to include additional, separately certified, enclosure sizes. The type code is changed accordingly.

The distribution system may also be used in areas of dust explosion protection (area II D).

The name of the manufacturer has changed to Cooper Crouse Hinds GmbH (previously CEAG Sicherheitstechnik GmbH).

### Applied standards

EN 50014:1997 +A1 + A2

EN 50019:2000


EN 50281-1-1:1998

Test report: PTB Ex 06-16086

Zertifizierungsstelle Explosionsschutz

Braunschweig, July 12, 2006

By order:

  
Dr.-Ing. M. Thedens  
Regierungsrat



Sheet 1/1

## 2. SUPPLEMENT


according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 00 ATEX 1073

(Translation)

Equipment: Distribution System of the multiple-enclosure type GHG 758 .... R....

Marking:  II 2 G EEx de ia/ib m [ia/ib] IIC T4 - T6

 II 2 D IP66 T 80 °C, T 95 °C or T 100 °C

Manufacturer: COOPER Crouse-Hinds GmbH

Address: Neuer Weg Nord 49, 69412 Eberbach, Germany


### Description of supplements and modifications

The distribution system, type GHG 758 .... R...., is modified in the following respects:

- 1) The empty enclosures certified with the 1<sup>st</sup> supplement of EC Type Examination Certificate PTB 05 ATEX 1096 U are used.
- 2) The busbar system certified with EC Type Examination Certificate PTB 06 ATEX 1038 U is used.
- 3) The distribution system has been re-inspected on the basis of Standards EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-11, EN 60079-18, EN 61241-0 and EN 61241-1.

The marking will thus change to:

 II 2 G Ex de ia/ib m [ia/ib] IIC T4, T5, T6

 II 2 D Ex tD A21 IP66 T 80 °C, T 95 °C or T 100 °C

- 4) The acceptable range of ambient temperatures changes to -55 °C to +55 °C. Restrictions may result from the - separately certified - internal components.

# Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

## 2. SUPPLEMENT TO EC-TYPE-EXAMINATION CERTIFICATE PTB 00 ATEX 1073

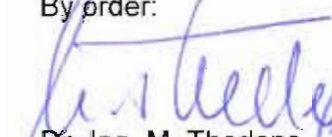
### Applied standards

EN 60079-0:2006, EN 60079-1:2007, EN 60079-7:2007, EN 60079-11:2007,  
EN 60079-18:2004, EN 61241-0:2006, EN 61241-1:2004

Assessment and test report: PTB Ex 09-19058

Zertifizierungssektor Explosionsschutz

By order:



Dr.-Ing. M. Thedens  
Oberregierungsrat



Braunschweig, May 8, 2009