



MARINE DIVISION

Certificate number: 11694/C1 BV

File number: AP 3423

Product code: 2801H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

Cooper Crouse-Hinds GmbH

Eberbach - GERMANY

for the type of product

LIGHTING FITTINGS

Type: eLLK 920...

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 05 Dec 2017

For BUREAU VERITAS,

At BV HAMBURG, on 20 Mar 2014,

Dirk Hoepfner



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

The eLLK 920.. series are lighting fittings for the installation in hazardous area with single or twin fluorescent luminaires and lamp socket G13.

1.1 - Main characteristics:

Terminals: L1, L2, L3, L, N, PE; and max. 2 x 6 mm²
 Degree of protection: IP 66
 Cables entries: 2-4 Ex e cable glands; M25 x 1.5 for cables; d= 8-17mm

1.2 - Variants:

| Types | Lamp rated power | Rated voltage |
|----------------------|------------------|---|
| eLLK 92018 | 1x18W | AC: 110-254V/ 50-60Hz DC: 110-127V or 195-250V |
| eLLK 92018/18 | 2x18W | AC: 110-254V/ 50-60Hz DC: 110-127V or 195-250V |
| eLLK 92018/18 V-CG-S | 2x18W | AC: 220-254V/ 50-60Hz DC: 195-250V |
| eLLK 92036 | 1x36W | AC: 110-254V/ 50-60Hz DC: 110-250V |
| eLLK 92036/36 | 2x36W | AC: 110-254V/ 50-60Hz DC: 110-250V |
| eLLK 92036/36 V-CG-S | 2x36W | AC: 220-254V/ 50-60Hz DC: 195-250V |
| eLLK 92018/18 NIB | 2x18W | AC: 110-127V/50-60Hz or 220-254V/50-60Hz |
| eLLK 920136/36 NIB | 2x36W | AC: 110-127V/50-60Hz or 220-254V/50-60Hz |
| eLLK 92058 | 1x58W | AC: 110-254V/ 50-60Hz DC: 110-250V |
| eLLK 92058/58 | 2x58W | AC: 220-254V/ 50-60Hz DC: 195-250V |
| eLLK 92058/58 V-CG-S | 2x58W | AC: 220-254V/ 50-60Hz DC: 195-250V |

2. DOCUMENTS AND DRAWINGS:

- 30080001455(E) dated 09.2009;
- 32216000165(I) dated 07.2009;
- 32216000255Pz dated 30.06.09
- 12266000101Pz dated 10-02-09;
- 12266000102Pz dated 11.02.09;
- 12225218001Pz dated 8.9.08;
- 12226236001Pz dated 8.9.08;
- 12266000103Pz dated 11.02.09;
- Description Nr. 4457 dated 2012-02-29
- Documents filed in AP 3423.

3. TEST REPORTS:

Phoenix Testlab GmbH:

- E081469E3 dated 04 August 2008

DEKRA EXAM GmbH:

- BVS 09 ATEX E 034 with 3. Supplement dated 29 August 2012; BVS PP 09.2044 EG/N3 dated 29.08.2012

IEC:

- IECEx BVS 09.0033 issue 4 dated 2012-9-18

Test reports filed in AP 3423.

4. APPLICATION/LIMITATION:

4.1 - Bureau Veritas Rules and Regulations for the Classification of Steel Ships.

4.2 - Bureau Veritas Environmental Category, **EC Code: 21**

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above mentioned products are to be supplied by **Cooper Crouse-Hinds GmbH** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.

5.3 - **Cooper Crouse-Hinds GmbH** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products :

Cooper Crouse-Hinds GmbH
Neuer Weg Nord 49
69412 Eberbach
GERMANY

and

S. C. Cooper Industries Romania S.R.L.
Zona Industrial NV, str.III
No.12,310510 Arad
ROMANIA

5.4 - Each equipment is to be supplied with manual(s) for installation, use and maintenance.

6. MARKING OF PRODUCT:

- Maker's name or trademark.
- Equipment type or model identification.
- Date of manufacture and/or serial number.
- Ex marking, as relevant.

7. OTHERS:

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that **Cooper Crouse-Hinds GmbH - GERMANY**, will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 11694/B0 BV issued on 23 Apr 2007 by the Society.

*** END OF CERTIFICATE ***