



MARINE DIVISION

Certificate number: 07429/D0 BV

File number: ACE 14/723/1

Product code: 2601D

*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*

**SIEMENS AG - Low Voltage**  
Regensburg - GERMANY

*for the type of product*

**TERMINAL BLOCKS (LOW VOLTAGE)**

Types: 8 WA1.. series

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships.  
IEC 60947-7-1, IEC 60947-7-2

*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 is a renewal of certificate N° 07429/C0 BV, which expires on 06/12/2012*

**This certificate will expire on: 14 Jul 2019**

For BUREAU VERITAS,

At BV HAMBURG, on 14 Jul 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 :

8 WA1.. series are terminal blocks for DIN rail mounting.

Types:

SCREW CONNECTION TERMINAL BLOCKS				
Type	Rated Cross Section	Current	Voltage	Remarks
8 WA1 011-1SF12	1,5mm <sup>2</sup>	6,3A	800V	fuse terminal without LED
8 WA1 011-1DF11	2,5mm <sup>2</sup>	24A	800V	beige
8 WA1 011-1BF21	2,5mm <sup>2</sup>	24A	800V	red
8 WA1 011-1BF22	2,5mm <sup>2</sup>	24A	800V	orange
8 WA1 011-1BF23	2,5mm <sup>2</sup>	24A	800V	blue
8 WA1 011-1BF24	2,5mm <sup>2</sup>	24A	800V	black
8 WA1 011-1PF11	2,5mm <sup>2</sup>	24A	800V	green-yellow
8 WA1 011-3DF21	2,5mm <sup>2</sup>	24A	800V	beige, 3pole
8 WA1 011-0DF21	2,5mm <sup>2</sup>	24A	800V	beige, 10pole
8 WA1 011-0DF22	2,5mm <sup>2</sup>	24A	800V	beige, 10pole
8 WA1 011-1PF00	2,5mm <sup>2</sup>	-	-	green-yellow PE
8 WA1 011-1PF01	2,5mm <sup>2</sup>	-	-	green yellow PE
8 WA1 011-1NF01	2,5mm <sup>2</sup>	24A	500V	blue, neutral insulating
8 WA1 011-1NF02	2,5mm <sup>2</sup>	-	400V	beige, branch terminals
8 WA1 011-1DG11	4mm <sup>2</sup>	32A	800V	beige
8 WA1 011-1BG11	4mm <sup>2</sup>	32A	800V	blue
8 WA1 011-1BG21	4mm <sup>2</sup>	32A	800V	red
8 WA1 011-1BG22	4mm <sup>2</sup>	32A	800V	orange
8 WA1 011-1BG24	4mm <sup>2</sup>	32A	800V	black
8 WA1 011-1PG11	4mm <sup>2</sup>	32A	800V	green-yellow
8 WA1 011-3DG21	4mm <sup>2</sup>	32A	800V	beige, 3pole
8 WA1 011-0DG22	4mm <sup>2</sup>	32A	800V	beige, 10pole
8 WA1 011-0DG21	4mm <sup>2</sup>	32A	800V	beige, 10pole
8 WA1 011-1PG00	4mm <sup>2</sup>	-	-	green-yellow, PE
8 WA1 011-1PG01	4mm <sup>2</sup>	-	-	green-yellow, PE
8 WA1 011-1NG31	4mm <sup>2</sup>	32A	500V	blue, neutral isolating
8 WA1 011-1NG32	4mm <sup>2</sup>	-	400V	beige, branch terminals
8 WA1 011-2BG11	4mm <sup>2</sup>	32A	690V	blue, two-tier terminals
8 WA1 011-2DG11	4mm <sup>2</sup>	32A	690V	beige, two-tier terminals
8 WA1 011-6BG11	4mm <sup>2</sup>	32A	690V	blue, two-tier terminals
8 WA1 011-6DG11	4mm <sup>2</sup>	32A	690V	beige, two-tier terminals
8 WA1 011-1DH11	6mm <sup>2</sup>	41A	800V	beige
8 WA1 011-1BH23	6mm <sup>2</sup>	41A	800V	blue
8 WA1 011-1BH24	6mm <sup>2</sup>	41A	800V	black
8 WA1 011-1PH11	6mm <sup>2</sup>	41A	800V	green-yellow
8 WA1 011-3DH21	6mm <sup>2</sup>	41A	800V	beige, 3pole
8 WA1 011-1PH00	6mm <sup>2</sup>	-	-	green-yellow, PE

SCREW CONNECTION TERMINAL BLOCKS				
Type	Rated Cross Section	Current	Voltage	Remarks
8 WA1 011-1MH10	6mm <sup>2</sup>	41A	500V	through-type terminal
8 WA1 011-1MH11	6mm <sup>2</sup>	41A	500V	isolating terminals
8 WA1 011-1MH15	6mm <sup>2</sup>	-	-	instrument isolating terminal
8 WA1 011-1NH01	6mm <sup>2</sup>	41A	500V	blue, neutral isolating
8 WA1 011-1NH02	6mm <sup>2</sup>	-	400V	beige, branch terminals
8 WA1 204	16mm <sup>2</sup>	76A	800V	beige
8 WA1 011-1BK11	16mm <sup>2</sup>	76A	800V	blue
8 WA1 304	16mm <sup>2</sup>	76A	800V	beige, 3pole
8 WA1 011-1PK00	16mm <sup>2</sup>	-	-	green-yellow, PE
8 WA1 604	16mm <sup>2</sup>	76A	500V	blue, neutral isolating
8 WA1 011-1NK02	16mm <sup>2</sup>	-	400V	beige, branch terminals
8 WA1 205	35mm <sup>2</sup>	125A	800V	beige
8 WA1 011-1BM11	35mm <sup>2</sup>	125A	800V	blue
8 WA1 305	35mm <sup>2</sup>	125A	800V	beige, 3pole
8 WA1 011-1PM00	35mm <sup>2</sup>	-	-	green-yellow, PE
8 WA1 206	70mm <sup>2</sup>	192A	800V	beige
8 WA1 011-1BP11	70mm <sup>2</sup>	192A	800V	blue

**2. DOCUMENTS AND DRAWINGS:**

- E86060-K1852-A101-A2-7600 dated 2013

**3. TEST REPORTS:**

- E80027 - Project 83ME2066 dated 20.05.1983.

**Siemens AG:**

- T93 M1-R-T93M-107837 dated 09.10.1997.

**4. APPLICATION / LIMITATION:**

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

4.2 - Bureau Veritas Environmental Category, **EC Code: 33.**

**5. PRODUCTION SURVEY REQUIREMENTS:**

5.1 - The above mentioned products are to be supplied by **Phoenix Contact GmbH & Co. KG** in accordance with the type described in this certificate.

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

**6. MARKING OF PRODUCT:**

- Maker's name or trade mark.

- According to IEC 60947 Specification.

**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 **SIEMENS AG - GERMANY** will accept full responsibility for informing shipbuilders, ship owners 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° 07429/C0 BV issued on 06 Dec 2007 by the Society.

\*\*\* END OF CERTIFICATE \*\*\*