

## TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Terminal Block**

with type designation(s)

**Terminal blocks type 8WA1 and 8WA2**

Issued to

**Siemens AG, Industry Building Technologies  
REGENSBURG, Germany**

is found to comply with

**Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards****Application :****Marine, offshore and industrial use.**This Certificate is valid until **2018-06-30**.Issued at **Høvik** on **2014-12-02**DNV GL local station: **Augsburg**Approval Engineer: **Marta Alonso Pontes**for **DNV GL**

---

**Marit Laumann  
Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed. If any person suffers loss or damage which is proven to have been caused by any negligent act or omission of the Society, then the Society shall pay compensation to such person for his proven direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question. The maximum compensation shall never exceed USD 2 million. In this provision the "Society" shall mean DNV GL AS as well as all its direct and indirect owners, affiliates, subsidiaries, directors, officers, employees, agents and any other person or entity acting on behalf of DNV GL AS.

Certificate No: **E-13847**  
 File No: **828.30**  
 Job Id: **262.1-001899-4**

## Product description

### Terminal Blocks

Type 8WA1	I	II	Type 8WA1	I	II
	mm <sup>2</sup>	V		mm <sup>2</sup>	V
8WA1 011 0DF21	2,5	800	8WA1 011 1DG11	4	800
8WA1 011 0DF22	2,5	800	8WA1 011 1BG21	4	800
8WA1 011 1DF11	2,5	800	8WA1 011 1BG22	4	800
8WA1 011 1BF21	2,5	800	8WA1 011 1BG11	4	800
8WA1 011 1BF22	2,5	800	8WA1 011 1PG11	4	800
8WA1 011 1BF23	2,5	800	8WA1 011 1BG24	4	800
8WA1 011 1BF24	2,5	800	8WA1 011 3DG21	4	800
8WA1 011 1PF11	2,5	800	8WA1 011 1NG31	4	500
8WA1 011 3DF21	2,5	800	8WA1 011 1NG32	4	500
8WA1 011 1NF01	2,5	500	8WA1 011 1PG00	4	-
8WA1 011 1NF02	2,5	500	8WA1 011 1PG01	4	-
8WA1 011 1PF00	2,5	-	8WA1 011 2DG11	4	690
8WA1 011 1PF01	2,5	-	8WA1 011 2BG11	4	690
8WA1 011 1SF12	1,5	800	8WA1 011 6BG11	4	690
8WA1 011 0DG22	4	800	8WA1 011 6DG11	4	690
8WA1 011 0DG21	4	800			

### Terminal Blocks

Type 8WA1	I	II	Type 8WA1	I	II
	mm <sup>2</sup>	V		mm <sup>2</sup>	V
8WA1 011 1DH11	6	800	8WA1 204	16	800
8WA1 011 1BH23	6	800	8WA1 011 1BK11	16	800
8WA1 011 1BH24	6	800	8WA1 604	16	500
8WA1 011 1PH11	6	800	8WA1 011 1NK02	16	500
8WA1 011 3DH21	6	800	8WA1 304	16	800
8WA1 011 1MH10	6	500	8WA1 011 1PK00	16	-
8WA1 011 1MH11	6	500	8WA1 205	35	800
8WA1 011 1MH15	6	500	8WA1 011 1BM11	35	800
8WA1 011 1NH01	6	500	8WA1 305	35	800
8WA1 011 1NH02	6	500	8WA1 011 1PM00	35	-
8WA1 011 1PH00	6	-	8WA1 206	70	800
			8WA1 011 1BP11	70	800
			8WA1 207	95	800

### Screwless Terminal Blocks

Type 8WA2	I	II	Type 8WA2	I	II
	mm <sup>2</sup>	V		mm <sup>2</sup>	V
8WA2 011 1DF20	2,5	800	8WA2 011 1PG30	4	-
8WA2 011 1BF21	2,5	800	8WA2 011 2DG20	4	800
8WA2 011 1BF23	2,5	800	8WA2 011 2BG23	4	800

Certificate No: **E-13847**  
 File No: **828.30**  
 Job Id: **262.1-001899-4**

Type 8WA2	I	II	Type 8WA2	I	II
	mm <sup>2</sup>	V		mm <sup>2</sup>	V
8WA2 011 1PF20	2,5	-	8WA2 011 2DG40	4	800
8WA2 011 1DF30	2,5	800	8WA2 011 2BG43	4	800
8WA2 011 1BF33	2,5	800	8WA2 011 3JG10	4	400
8WA2 011 1PF30	2,5	-	8WA2 011 3JG15	4	400
8WA2 011 1DG20	4	800	8WA2 011 3JG12	4	400
8WA2 011 1BG21	4	800	8WA2 011 3JG16	4	400
8WA2 011 1BG23	4	800	8WA2 011 3JG17	4	400
8WA2 011 1NG23	4	400	8WA2 011 3JG18	6	400
8WA2 011 1PG20	4	-	8WA2 011 1DH20	6	800
8WA2 011 1DG30	4	800	8WA2 011 1BH23	6	800
8WA2 011 1BG33	4	800	8WA2 011 1NH23	6	400
			8WA2 011 1PH20	6	-

I Rated Insulation Voltage  
 II Rated Cross-section

### Application/Limitation

To be mounted on standard mounting rails  
 As to the workmanlike mounting the cable end has to be according to Pt.4 Ch.8 Sec.10 C.

### Type Approval documentation

Type test report for 8WA1 protocol no. T93M1-R-T93M-107837 issued 97-04-18 revised 97-10-09, 8WA2 protocol no. T93M1-R-T93M-107837 issued 97-05-12 revised 97-10-09, confirmation regarding IEC 695 Part 2-2 from Siemens dated 96-05-15, CB test certificate for 8AW2 no. NL1801, -1802, -1803, -1804, -1805, -1806 dated 97-03-26, NL2072, -2071 dated 97-10-01, catalogue 6/97 for 8AW2, catalogue NS/K 1996, functional test II, voltage drop dated 97-11-24 and 97-11-21, vibration test report dated 97-11-24 and 97-11-21, clima test report 97-11-24 and 97-11-21.

### Tests carried out

Type tests in according to IEC 60947-7-1/2, IEC 60998-1.

### Marking of product

Siemens - Type designation - Voltage class - Cross-section.

### Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the periodical assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment to be performed at least every second year.

END OF CERTIFICATE