



Marine &amp; Offshore

Certificate number: 13412/D0 BV

File number: ACE 02/003/42

Product code: 2635H

*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*

**SCHNEIDER ELECTRIC INDUSTRIES SAS**

Grenoble Cedex 09 - FRANCE

*for the type of product*

**DISCONNECTORS (LOW VOLTAGE)**

Switch Disconnectors (low Voltage) Type MASTERPACT NW 08-63/NA/HA/NF

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships.

IEC 60947-2 (2016).

*This certificate is issued to attest that Bureau Veritas Marine & Offshore 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: 31 May 2022**

**For Bureau Veritas Marine & Offshore,**

At BV LYON, on 31 May 2017,

Jean-Marc Cabuzel



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 Marine & Offshore. 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 & Offshore available on the internet site [www.veristar.com](http://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 Marine & Offshore 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 electronic version is available at: <http://www.veristarpm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=tgsqxderbs>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

The NW series are switch disconnectors for Marine applications.

#### 1.1 - Approval range:

Product Type	Number of poles	Rated Voltage (V)	Maximum operating current (A)		
			I <sub>th</sub> at 45°C	I <sub>cw</sub> 1s	I <sub>cw</sub> 3s
<b>Switch disconnectors</b> (low voltage) <b>Type Masterpact NW</b> as per IEC 60947-3		U <sub>i</sub>			
NW 08NA NW 10NA NW 12NA NW 16NA	3-4	1000	800 1000 1200 1600	42	-
NW 08HA NW 10HA NW 12HA NW 16HA NW 20HA	3-4	1000	800 1000 1200 1600 2000	50	36
NW 08HF NW 10HF NW 12HF NW 16HF NW 20HF	3-4	1000	800 1000 1200 1600 2000	85 85 85 85 85	50 50 50 50 75
NW 25HA NW 32HA NW 40HA	3-4	1000	2500 3200 4000	55	55
NW 25HF NW 32HF NW 40HF	3-4	1000	2500 3200 4000	85	75
NW 40bHA NW 50HA NW 63HA	3-4	1000	4000 5000 6300	85	85

### 2. DOCUMENTS AND DRAWINGS:

- Declarations of conformity DIAQ-MP/-CH/-CV/-SP/ dated 25/09/2003.
- Declarations of conformity DIAQ\_MP-CH-02.B dated 28/08/2000
- Declarations of conformity DIAQ\_MP-CV-01.B dated 28/08/2000
- Declarations of conformity DIAQ\_MP-SP-02.B dated 28/08/2000

Declarations of equivalence:

- ABT-BEDG-02-03-NW40b-63HA
- ABT-BEDG-09-02-NW08-40HF
- ABT-BEDG-09-02-NWNA-HA

#### For D0 version:

Gap analysis ref. LKE Masterpact NT/NW BV, dated 09 Apr 2017.

### 3. TEST REPORTS:

ASEFA Certificates N°s:

- 028-03, 029-03, 030-03, 031-03, 032-03, 033-03, 034-03, 035-03, 036-03, 037-03, 038-03, 039-03, 040-03, 041-03, 042-03 issued on 26/05/2003.
- 113-01, 114-01, 115-01, 118-01, 119-01, 121-01, 122-01, 124-01, 125-01, 128-01, 129-01, 130-01 issued on 09/10/2001.
- 133a-01, 134a-01, 137a-01, 138a-01, 141a-01, 142a-01, 145a-01, 146a-01 issued on 29/01/2002.

Test report N°: F01-03-14.

Certificate of conformity ASEFA\_019-04BTdated 17 Feb. 2004.

**4. APPLICATION / LIMITATION:**

Bureau Veritas Rules for the Classification of Steel Ships.

**5. PRODUCTION SURVEY REQUIREMENTS:**

5.1 - The **NW series** are to be supplied by **SCHNEIDER ELECTRIC INDUSTRIES SAS** 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 and as such does not require a BV product certificate.

5.3 - **SCHNEIDER ELECTRIC INDUSTRIES SAS** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **SCHNEIDER ELECTRIC INDUSTRIES SAS** has declared to Bureau Veritas the following production site(s):

**SCHNEIDER SHANGHAI POWER  
DISTRIBUTION ELEC. APP. CO,  
LTD**

833 Kang Qiao Lu Pu Dong  
201315 SHANGHAI  
CHINA

**SCHNEIDER ELECTRIC MOIRANS**  
ZONE INDUSTRIELLE CENTRE ALP  
38430 MOIRANS  
FRANCE

**SCHNEIDER ELECTRIC ALPES**  
Voie Isaac Newton  
ZI Alpespace  
73800 FRANCIN  
FRANCE

**6. MARKING OF PRODUCT:**

According to IEC 60947 specifications.

**7. OTHERS:**

7.1 - It is **SCHNEIDER ELECTRIC INDUSTRIES SAS** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 13412/C0 BV issued on 06 Dec 2011 by the Society.

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