



Marine & Offshore

Certificate number: 10738/E0 BV

File number: ACE 02/003/40

Product code: 2633H

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 - ELECTROPOLE 38EQI
EYBENS - FRANCE

for the type of product

CIRCUIT BREAKERS (LOW VOLTAGE)
MASTERPACT NW series.

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.
IEC 60947-1 (2014), IEC 60947-2 (2019).

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: 11 Jul 2027

For Bureau Veritas Marine & Offshore,

At BV LYON, on 06 Mar 2024,
Florian Aulen

This certificate was created electronically and is valid without signature



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. 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.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 4 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Circuit Breaker Type Masterpact NW with trip units MICROLOGIC control units.

Characteristics as per IEC 60947-2. C.B.'s have been equipped with control units to realize instantaneous selective and universal protection.

Product Type	Number of Poles	Rated Voltage (V) Ui	Rated Current (A) In at 40°C	Breaking Capacity (kA)		
				Icu	Ics	Ui
NW 08 N1 NW 10 N1 NW 12 N1 NW 16 N1	3-4	1000	800	42	42	220 V to 690V
1000						
1250						
1600						
NW 08 H1 NW 10 H1 NW 12 H1 NW 16 H1 NW 20 H1	3-4	1000	800	65	65	220V to 690V
1000						
1250						
1600						
2000						
NW 08 H2 NW 10 H2 NW 12 H2 NW 16 H2 NW 20 H2	3-4	1000	800	100	100	220/440V
1000						
1250			85	85	525/690V	
1600						
2000						
NW 08 L1 NW 10 L1 NW 12 L1 NW 16 L1 NW 20 L1	3-4	1000	800	150	150	220/240V
1000						
1250			130	130	525V	
1600						
2000						
NW 25 H1 NW 32 H1 NW 40 H1	3-4	1000	2500	65	65	220/690V
3200						
4000						
NW 25 H2 NW 32 H2 NW 40 H2	3-4	1000	2500	100	100	220/440V
3200						
4000			85	85	525/690V	
2000						
2500						
NW 20 H3 NW 25 H3 NW 32 H3 NW 40 H3	3-4	1000	2000	150	150	220/440V
2500						
3200			130	130	525V	
4000						
NW 40bH1(1) NW 50H1(1) NW 63H1(1)	3-4	1000	4000	100	100	220 V to 690V
5000						
6300						
NW 40bH2 (1) NW 50H2 (1) NW 63H2 (1)	3-4	1000	4000	150	150	220/240V
5000						
6300						

(1) Icw 1s or 3s = 100 kA.

Control Units Micrologic:

Control Unit types	2.0	5.0	6.0	7.0
Protection Type	Distribution L, I	Selective L, S, I	Selective and earth-fault protection L, S, I, G	Selective protection with earth-leakage protection L, S, I, V
Type of current protection				
Without	2.0	5.0		
A Ampermeter	2.0A	5.0A	6.0A	7.0A
E Energy	2.0E	5.0E	6.0E	
P Power		5.0P	6.0P	7.0P
H Harmonics		5.0H	6.0H	7.0H

2 - DOCUMENTS AND DRAWINGS:

- MASTERPACT NW certification file ref. IEC/NW 01 dated 2 October 2000, revised September 2003.
- 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.
- Declaration of equivalence: ABT-BEDG-02-03-NW40b-50H1.
- Gap analysis dated 09 Apr 2017.
- Catalogue N° LVPED208008EN, dated Feb 2023.
- Certificates of conformity N° 01-47-318-01a and 01-47-318-02a, dated 28 Jun 2021.

3 - TEST REPORTS:

- ASEFA certificate N° 01-02, 008-02 issued on 25/02/2002
- ASEFA certificates N° 012-01, 013-01, 014-01, 015-01, 016-01, 017-01 issued on 02/04/2001
- ASEFA certificates N° 019-00, 020-00, 021-00, 022-00, 023-00, 024-00, 025-00 issued on 07/04/2000
- ASEFA certificates N° 019a-01, 020a-01, 021a-01, 022a-01, 023a-01 issued on 11/12/2001
- ASEFA certificates N° 073-01, 074-01, 076-01, 080-01, 081-01, 082-01, 083-01, 084-01, 085-01, 086-01, 087-01, 088-01, 089-01, 090-01 issued on 26/07/2001
- ASEFA certificates N° 075a-01 issued on 11/09/2001
- ASEFA certificates N° 077a-01, 078a-01, 079a.01 issued on 21/12/2001
- ASEFA certificates N° 0151a-01 issued on 10/01/2002
- ASEFA certificates N° 026.00
- ASTA certificates N° 14117 issued on 20/12/1999
- ASTA certificates N° 14153, 14154, 14155, 14156 issued on 11/02/2000
- ASEFA certificates N° 018.01/019.01
- ASEFA certificates N° 020.01/021.01/022.01/023.01
- ASEFA certificates N° 059-00 issued on 26/06/2000
- ASTA certificates N° 15196 issued on 16/09/2002
- ASEFA certificates N° 29042 issued on 10/12/2002
- L2E VOLTA Test report N° 20020211 dated 07/10/2003.
- Certificates of conformity N°s:
 - ASEFA_046-03BT (NW63) dated 26/11/2003
 - ASEFA_045-03BT (NW50) dated 26/11/2003
 - ASEFA_044-03BT (NW40b) dated 27/11/2003
 - ASEFA_049-03BT (NW63) dated 26/11/2003
 - ASEFA_048-03BT (NW50) dated 26/11/2003
 - ASEFA_047-03BT (NW40b) dated 26/11/2003.
 - ASEFA_37005 (NW08-NW40-NW63 Type H2 with electronic trip micrologic 5.0) dated 14th December 2010.
 - ASEFA_37005 (NW08-NW16 Type N1 with electronic trip micrologic 5.0) dated 14th December 2010.
 - ASEFA_38003 (NW40b-NW63 Type H1 with electronic trip micrologic 5.0) dated 10th May 2011.
 - ASEFA_38003 (NW08-NW10-NW12-NW16-NW20-NW25-NW32-NW40 Type H1 with electronic trip micrologic 5.0) dated 3th May 2011.
 - ASEFA_37005 (NW08-NW20 Type L1 with electronic trip micrologic 5.0) dated 3th May 2011.
 - ASEFA_38018 (NW08-NW20-NW25-NW40 Type with electronic trip micrologic 5.0) dated 3th May 2011.
 - Test Report N°2011250_007 to 13 dated February 2011.

Zhejiang Fangyuan Test Group Co., Ltd.:

- Test reports N° 2011990022-01 and 2011990022-02, dated 16 Nov 2020.

Shanghai Testing & Inspection Institute for Electrical Equipment Co., Ltd.:

- Test reports N° AT19-0373-1 and AT19-0373-2, dated 24 May 2019.

L2E:

- Test report N° 201304204-004, dated 10 Mar 2014.
- Test report N° 201403676_001, dated 22 May 2014.

DEKRA Certification B.V.:

- Test report N° 2266478.01-INC, dated 18 Jul 2022.
- Test report N° 2266490.0502-EMC, dated 11 Jul 2022.

4 - APPLICATION / LIMITATION:

4.1 - BV Rules for the Classification of Steel Ships and IEC60947-2.

4.2 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 8.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **SCHNEIDER ELECTRIC INDUSTRIES SAS - ELECTROPOLE 38EQI** 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 - ELECTROPOLE 38EQI** 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 - ELECTROPOLE 38EQI** has declared to Bureau Veritas the following production sites:

SCHNEIDER ELECTRIC ALPES
Voie Isaac Newton
ZI Alpespace
73800 FRANCIN
FRANCE

SCHNEIDER ELECTRIC FRANCE - MASTERTECH
70 RUE DE LA GRANGE BATIE
ZONE INDUSTRIELLE CENTR' ALP
38430 MOIRANS
FRANCE

SCHNEIDER ELECTRIC INDIA PVT. LTD.
Survey No.215
Gagillapur Village, Medak Road
Rangareddy District
500043 HYDERABAD
INDIA

SCHNEIDER SHANGHAI POWER DISTRIBUTION ELEC. APP. CO, LTD
833 Kang Qiao Lu Pu Dong
201315 SHANGHAI
CHINA

6. MARKING OF PRODUCT:

According to IEC 60947 specifications.

7. OTHERS:

7.1 - It is **SCHNEIDER ELECTRIC INDUSTRIES SAS - ELECTROPOLE 38EQI** 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° 10738/D0 BV issued on 11 Jul 2017 by the Society.

*** END OF CERTIFICATE ***