



Marine & Offshore

Certificate number: 13826/D0 BV

File number: ACE 2/003/44

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 NT 06, 08, 10,12, 16 type H1 & H2 rated 630A to 1600A .

Masterpact NT 06, 08, 10 type L1 rated 630A to 1000A with Control Units Micrologic 2.0, 5.0, 6.0 and 7.0.

Requirements:

BV Rules for the Classification of Steel Ships.

IEC 60947-1:2007+AMD1:2010+AMD2:2014 CSV

IEC 60947-2:2016 +A1:2019

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: 12 Apr 2029

For Bureau Veritas Marine & Offshore,

At BV LYON, on 12 Apr 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.

The electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=9ggmdg3fmc>

BV Mod. Ad.E 530 June 2017

This certificate consists of 4 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

1.1 - Circuit breakers MASTERPACT NT 630 to 1600A

Product Type	Number of poles	Operational voltage AC(V)	Insulation voltage Ui AC(V)	Rated Current current (A) In at 40°C	Breaking capacity	
					Icu/Ics (kA)	Ue (V)
NT 06 H1	3-4	690	1000	630	42/42 42/42 42/42 42/42	240 415/440 525 690
NT 06 H2	3-4	690	1000	630	50/50 50/50 42/42 42/42	240 415/440 525 690
NT 06 L1	3-4	525	1000	630	150/150 150/150 130/130 100/100	240/400 415 440 525
NT 08 H1	3-4	690	1000	800	42/42 42/42 42/42 42/42	240 415/440 525 690
NT 08 H2	3-4	690	1000	800	50/50 50/50 42/42 42/42	240 415/440 525 690
NT 08 L1	3-4	525	1000	800	150/150 150/150 130/130 100/100	240 415 440 525
NT 10 H1	3-4	690	1000	1000	42/42 42/42 42/42 42/42	240 415/440 525 690
NT 10 H2	3-4	690	1000	1000	50/50 50/50 42/42 42/42	240 415/440 525 690
NT 10 L1	3-4	525	1000	1000	150/150 150/150 130/130 100/100	240 415 440 525
NT 12 H1	3-4	690	1000	1250	42/42 42/42 42/42 42/42	240 415/440 525 690
NT 12 H2	3-4	690	1000	1250	50/50 50/50 42/42 42/42	240 415/440 525 690
NT16 H1	3-4	690	1000	1600	42/42 42/42 42/42 42/42	240 415/440 525 690
NT 16 H2	3-4	690	1000	1600	50/50 50/50 42/42 42/42	240 415/440 525 690

1.2 - 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:

According to Document filed in ACE 02/003/44.

- CB Test Certificate No. FR_710011 dated 23/12/2020
- Catalog No. LVPED208008EN_Web2_2015
- Masterpact NT et NW, Catlog_LVPED208008FR

3. TEST REPORTS:

- 3.1 - SCHNEIDER ELECTRIC INDUSTRIES test reports N° 31028 (witnessed by a BV Surveyor)
 - 3.2- ASEFA Test declarations N°s 31 027, 31028, 31 030, 31031, 31032.
 - 3.3 - ASEFA Certificate of conformity N°s 140-04BT, 141-04BT, 142-04BT, 143-04BT, 144-04BT, 145-04BT, 146-04BT,
 - 3.4 - ASEFA Test reports N°K11-335-04, F01.04.06, F01.04.07, F01.04.09, F01.04.08, F01.04.10, F01.04.11, VIBR 040060A, K11-336-04, VIBR040108A, VIBR 040061A, F03-CLIM040066-1Aa, F03-CLIM040066-2Aa.
 - 3.5 - ASEFA Test Report N°F01 2007-0871-00 Masterpact NT H2 with Micrologic 5.0A dated October 2007.
 - 3.6 - ASEFA Test Report N°201006761_006 Masterpact NT12 type H2 with electronic trip micrologic 5.0 dated December 2010.
- Test Report No. 2011990020 dated 2020-10-26
 - Test Report No. 2266478.01-INC dated 18 July 2022.
 - Test Report No. 2266490.0501-EMC dated 2022-07-11

4. APPLICATION / LIMITATION:

BUREAU VERITAS Rules for the Classification of Steel Ships and IEC 60947 Series.

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The above products 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 - **SCHNEIDER ELECTRIC INDUSTRIES SAS** has declared to Bureau Veritas the following production sites:

**Schneider Electric France-
MASTERTech
70 Rue de la Grange Batie Zone
Industrielle Centr' ALP
38430 MOIRANS - France**

**Schneider Shanghai Power Distribution Elec.
APP. CO, LTD
833 Kang Qiao
Lu Pu Dong
201315 SHANGAI - China**

**Schneider Electric Alpes
Voie Isaac Newton, ZI Alpespace
73800 FRANCIN - France**

6. MARKING OF PRODUCT:

- Maker's name or trade mark.
- Serial number of the units.
- Equipment type number or model identification under which it was type-tested.

7. OTHERS:

- 7.1 - It is **SCHNEIDER ELECTRIC INDUSTRIES SAS's** 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 No. 13826/C0 BV issued on 18/01/2018 by the Society.

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