



Marine & Offshore

Certificate number: 49261/B2 BV

File number: AP1

Product code: 2638H

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

SWITCH-DISCONNECTORS
Switch disconnector Masterpact MTZ series.

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships & Offshore Units.

EC Code: 41.

IEC 60947-1:2007 (ed.5) + A1:2010 + A2:2014

IEC 60947-3:2008 (ed.3) + A1:2012 + A2:2015

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 Jun 2025

For Bureau Veritas Marine & Offshore,

At BV LYON, on 02 May 2023,

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.veristarp.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=1oviqqe14i>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

The **MASTERPACT MTZ1-MTZ2-MTZ3 series** are switch disconnectors for Marine and Offshore applications.

1.1 - Specifications:

Number of poles	3-4
Rated insulation voltage, U_i (V)	1000
Impulse withstand voltage, U_{imp} (kV)	12
Rated frequency (Hz)	50-60

1.2 - Approval range:

	Type	I _{th}	I _e AC23A	U _e	I _{cm}	I _{cw}	
						1s	3s
MTZ1	HA	630A to 1600A	630A to 1600A	690V	75kA	36kA	20kA
MTZ2	NA	800A to 1600A	800A to 1600A	690V	88kA	42kA	N/A
	HA	800A to 2000A	800A to 2000A	690V	145kA	66kA	36kA
		2500A to 4000A	2500A to 4000A	690V	145kA	66kA	55kA
	HF	800A to 4000A	800A to 4000A	690V	187kA	85kA	75kA
	HH	2000A to 4000A	2000A to 4000A	440V	220kA	100kA	75kA
MTZ3	HA	4000A to 6300A	4000A to 6300A	690V	187kA	85kA	85kA

2. DOCUMENTS AND DRAWINGS :

Specification ref. QGH4904800, dated 24 Feb 2017.
 Specification ref. GDE5514200, rev. 0, dated 22 Nov 2019.
 Catalog 2020 ref. LVPED216026EN, dated Dec 2019.

3. TEST REPORTS :

LCIE:

- CB Scheme certificate ref. FR_697055/A3, dated 27 Feb 2017.
- CB Scheme certificate ref. FR_700253, dated 21 Feb 2017.
- CB Scheme certificate ref. FR_697053/A3, dated 27 Feb 2017.
- Tests report ref. 141610-685260-C Version 02, dated 17 Feb 2017.
- CB Scheme certificate ref. FR_706955, dated 30 Oct 2019.
- CB Scheme certificate ref. FR_707730/A1, dated 25 Feb 2020.

Volta:

- Tests report ref. 201504917_082, dated 25 Jan 2017.
- Tests report ref. 20154917_105_v1, dated 12 Jan 2017.
- Tests report ref. 20154917_108_v1, dated 12 Jan 2017.
- Tests report ref. 20154917_099_v2, dated 12 Jan 2017.
- Tests report ref. 20154917_110_v1, dated 12 Jan 2017.
- Tests report ref. 20154917_084, dated 25 Jan 2017.
- Tests report ref. 201605195_011, dated 25 Apr 2017.
- Tests report ref. 201605195_013, dated 21 Feb 2017.
- Tests report ref. 201605195_017, dated 03 Mar 2017.
- Tests report ref. 201605195_051, dated 07 Feb 2017.

ENVIRONNE"TECH:

- Test report ref. RENV-ENN-16-400870-3/A, dated 08 Dec 2016.
- Test report ref. RENV-ENN-16-400870-4/A, dated 08 Dec 2016.

Zhejiang Fangyuan Test Group CO., Ltd.:

- Tests report ref. 1911990010, dated 25 Sep 2019.
- Tests report ref. 1911990016, dated 27 Dec 2019.
- Tests report ref. 1911990018, dated 09 Jan 2020.

4. APPLICATION / LIMITATION :

- 4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships and Offshore Units.
 4.2 - BUREAU VERITAS Environmental Category, **EC Code: 41.**
 4.3 - The equipment fulfils the EMC requirements for installation in General Power Distribution Zones.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above products are to be supplied by **SCHNEIDER ELECTRIC INDUSTRIE 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 INDUSTRIE 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 INDUSTRIE SAS - ELECTROPOLE 38EQI** 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 ELECTRIC ALPES
Voie Isaac Newton
ZI Alpespace
73800 Francin
FRANCE**

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

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

6. MARKING OF PRODUCT :

6.1 - Trade name.

6.2 - Date of manufacture and serial number.

6.3 - Equipment type or model identification under which it was type-tested

7. OTHERS :

7.1 - It is **SCHNEIDER ELECTRIC INDUSTRIE SAS - ELECTROPOLE 38EQI**'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. 49261/B1 BV issued on 03 Aug 2022 by the Society.

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