



Marine & Offshore

Certificate number: 54206/A0 BV

File number: ACE2/8/44

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)
 EasyPact MVS NA type and MVS HA type

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships
 IEC 60947-3 (2008)+AMD1 (2012)+AMD2 (2015)

EC Code: 31/41

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: 30 Nov 2023

For Bureau Veritas Marine & Offshore,

At BV LYON, on 30 Nov 2018,

Florian Aulen



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 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Switch-disconnectors **EasyPact MVS NA type and MVS HA type.**

1.1 - Switch-disconnector EasyPact MVS NA type 630 to 1600A:

		MVS06NA	MVS08NA	MVS10NA	MVS12NA	MVS16NA
Rated current	In	630A	800A	1000A	1250A	1600A
Poles		3 & 4 Poles				
Rated operational voltage	Ue	440V				
Rated insulation voltage	Ui	1000V				
Rated impulse withstand voltage	Uimp	12kV				
Rated frequency		50/60 Hz				
Rated short-time making capacity	Icm	75kA				
Rated short-time withstand current	Icw	35kA / 0.5s				
Utilization category		AC-23A				

1.2 - Switch-disconnectors EasyPact MVS HA type 2000 to 4000A:

		MVS20HA	MVS25HA	MVS32HA	MVS40HA
Rated current	In	2000A	2500A	3200A	4000A
Poles		3 & 4 Poles			
Rated operational voltage	Ue	690V			
Rated insulation voltage	Ui	1000V			
Rated impulse withstand voltage	Uimp	12kV			
Rated frequency		50/60 Hz			
Rated short-time making capacity	Icm	143kA			
Rated short-time withstand current	Icw	65kA / 1s			
Utilization category		AC-23A			

2. DOCUMENTS AND DRAWINGS :

- MVS04-16N-NA - Descriptive File, dated 06/2018
- MVS06-40H-HA - Descriptive File, dated 06/2018

3. TEST REPORTS :

LCIE:

- CB Scheme certificate ref. FR_702998, dated 30/05/2018
- Tests report ref. 1811990003, dated 16/05/2018
- CB Scheme certificate ref. FR_703393, dated 24/07/2018
- Tests report ref. 1811990020, dated 03/07/2018

KEMA:

- CB Scheme certificate ref. NL-37739, dated 24/11/ Nov 2015
- Tests report ref. 3303048.50, dated 30 Aug 2012
- Tests report ref. 3308446.50, dated 01 Dec 2015

Zhejiang Fangyuan Test Group Co. Ltd.:

- Environmental test report ref. 1811990005, dated 25 May 2018
- Environmental test report ref. 1811990006, dated 24 May 2018

4. APPLICATION / LIMITATION :

- 4.1 - BUREAU VERITAS Rules and Regulations for the Classification of Steel Ships.
- 4.3 - BUREAU VERITAS Environmental Category, **EC Code: 31/41.**

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The circuit-breakers **EasyPact 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

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 :

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.

*** END OF CERTIFICATE ***