



Marine & Offshore

Certificate number: 36833/B0 BV

File number: ACE2/167/1

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 USA Inc.**

Cedar Rapids - UNITED STATES OF AMERICA

*for the type of product***CIRCUIT BREAKERS (LOW VOLTAGE)**

PowerPact H-, J-, L- series

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: 26 Nov 2023****For Bureau Veritas Marine & Offshore,**At BV PORT EVERGLADES CENTRE, on 29 Mar 2021,
Flavio Rosas

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=zfyum1quyq>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

PowerPact H-, J- and L- are frame circuits breakers designed to protect electrical systems from damage caused by overloads and short circuits. H-, and J- are mounted with a thermal-magnetic protection, L- with an electronic trip unit protection.

1.1 - Product range:

Circuit breaker		H- Frame					J- Frame					L- Frame					600A L- Frame				
Type		HD	HG	HJ	HL	HR	JD	JG	JJ	JL	JR	LD	LG	LJ	LL	LR	LD	LG	LJ	LL	LR
Number of poles		2, 3		3			2, 3		3			3, 4			3, 4						
Rated current (A)		15 - 150					150 - 250					70 - 400					200 - 600				
Breaking Capacity (kA)	220/240 (Vac)	25	65	100	125	150	25	65	100	125	150	25	65	100	125	150	25	65	100	125	150
	380/415 (Vac)	18	35	65	100	125	18	35	65	100	125	18	35	65	100	125	18	35	65	100	125
	440/480 (Vac)	18	35	65	100	125	18	35	65	100	125	18	35	65	100	125	18	35	65	100	125
	500/525 (Vac)	14	18	25	50	75	14	18	25	50	75	14	18	25	50	75	14	18	25	50	75
	690 (Vac)	-	-	-	-	20	-	-	-	-	20	-	-	-	-	20	-	-	-	-	20
	250 (Vdc)	-	-	-	-	20	20	20	20	-	-	-	-	-	-	-	-	-	-	-	-
	500 (Vdc)	-	-	-	-	20	20	20	20	-	-	-	-	-	-	-	-	-	-	-	-
Operational voltage (Vac)		690																			
Insulation voltage (Vac)		750																			

Notes:

- Only the circuit-breaker marked with suffix "YA" in catalog are approved for marine application.
- H- & J- type to be used only with thermal-magnetic protection
- L- type to be used with the following Micrologic Electronic Trip Units:

Type	Function	Trip Unit
Standard	LI	3.3
Standard	LSI	3.3S
Ammeter	LSI	5.3A
Energy	LSI	5.3E
Ammeter	LSIG	6.3A
Energy	LSIG	6.3E

2. DOCUMENTS AND DRAWINGS

General information document dated 24/10/24, provided by the manufacturer.
Dimensions drawings all dated 01/2013, provided by the manufacturer.

3. TEST REPORTS:

CB Scheme:

- Tests report N°28247623 001, dated 04/12/2018
- Tests report N°28247624 001, dated 04/12/2018
- Tests report N°28220272 001, dated 10/12/2013

Environmental tests report N°20131466-01, dated 25/10/2013.

4. APPLICATION / LIMITATION:

4.1 - BUREAU VERITAS Rules and Regulations for the Classification of Steel Ships.

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - BUREAU VERITAS Environmental Category, **EC Code: 31**

4.4 - Equipment covered by this Type Approval certificate can be installed on ships contracted for construction before 1 January 2022. On or after this date of 1 January 2022, equipment is to comply with IACS UR E10 Rev 7.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **Schneider Electric USA Inc.** 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 USA Inc.** 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 USA Inc.** has declared to Bureau Veritas the following production site(s):

**Schneider Electric USA Inc.
4800 Paris Rd
65202 Columbia
UNITED STATES OF AMERICA**

**SCHNEIDER INDUSTRIAL TLAXCALA S A DE C V
Via Corta Santa Ana - Puebla Km. 17.5
Acuamanala 90860
Tlaxcala
MEXICO**

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 USA Inc.**'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 N° 36833/A1 BV issued on 15/04/2014 by the Society.

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