



CERTIFICATE NUMBER	23-2450056-PDA
EFFECTIVE DATE	12-Oct-2023
EXPIRY DATE	11-Oct-2028
ABS TECHNICAL OFFICE	Houston ESD - Electrical

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

SCHNEIDER ELECTRIC USA, INC.

located at

12345 LEVETON DRIVE, , TUALATIN, OR, United States, 97062

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Filter, Harmonic
Model: PowerLogic AccuSine PCS+,
PowerLogic AccuSine PFV+,
PowerLogic AccuSine PCSn,
PowerLogic EVC+

Endorsements:
Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 11/Oct/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Soheni Haque

Soheni Haque, Sr. Managing Principal Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

SCHNEIDER ELECTRIC USA, INC.

12345 LEVETON DRIVE

TUALATIN OR

United States 97062

Telephone: (503) 587-5205

Fax: (503) 566-4099

Email: viren.javadekar@schneider-electric.com

Web: www.schneider-electric.com

Tier: 2 - PDA Issued

Product: Filter, Harmonic
Model: PowerLogic AccuSine PCS+,
PowerLogic AccuSine PFV+,
PowerLogic AccuSine PCSn,
PowerLogic EVC+

Endorsements:

Intended Service:

Marine & Offshore Application Harmonic Cancellation and/or Power Factor Correction / Active VAR Control System, for use on Steel Vessels and Offshore Units.

Description:

Active Harmonic Filter / Power Factor Compensation / Active VAR Control Device.

Rating:

Voltage: 208-480 VAC, 480- 600 VAC, 600-690 VAC
Electrical Systems: 3 Phase, 3 or 4 wires.

* PowerLogic (AccuSine) PCS+ and PFV+:

Enclosure Type: UL Type OPEN, UL Type 1, UL Type 2, UL Type 12, IP00, IP20, IP31, IP54

Correction Capacity per Unit:

208 to 480 V: 60A, 120A, 200A & 300 A

480 to 600 V: 47A, 94A, 157A & 235 A

600 to 690 V: 40A, 80A, 133A & 200 A

PCS+/PFV+ - Operating temperature of: 60 A, 120 A, and 200 A: IP00 (UL Type Open) and IP20 (UL Type N1 wall mount): 0...45 °C;

All others: 0...40 °C; Derate 2% per °C up to 50 °C.

* PowerLogic (AccuSine) PCSn:

Enclosure Type: IP00, IP20, UL Type OPEN, UL Type 1

Correction Capacity per Unit:

208 to 415 V: 20A, 30A, 50A & 60 A

PCSn - Operating temperature 0 °C to +45 °C (full performance, continuous operation without derating). Derate 2% per °C up to +50 °C

* PowerLogic EVC+:

Enclosure Type: UL Type OPEN, UL Type 1, UL Type 2, IP00, IP20, IP21, IP31, IP42

Correction Capacity per Unit: 208 to 480V: 75kVAR and 100kVAR

Operating Temperature 0 °C to +50 °C

Service Restriction:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

- The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- Intended for Safe Locations. Enclosures are to be suitable for the installation in the intended location.
- Approval for hardware only. Each specific installation is to be in accordance with applicable ABS Rules.
- Protection of harmonic filter circuit are to be in accordance with 4-8-2/9.22.4 and 4-8-2/9.23 of the ABS Marine Vessels Rules.

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Notes/Drawing/Documentation:

DeclarationOfConformityLetterRD_Sig_8, Declaration Of Conformity Letter, Revision: -, Pages: -
R18998_EVCP100KVAR, IP42 Test Report, Revision: -, Pages: 22

Supporting Documents (from previous tasks):

E207435-20210423, Certificate of Compliance, Revision: -, Pages: 1

GDE7126201, Cronos SM WM Base Unit, Revision: 00, Pages: 1

Schneider Electric Test Report No. A0364636-T3, Performace Test dated 20 February 2016, Revision 00

Schneider Electric Test Report No. A0364636-T45, Power Supply Test dated 6 January 2017, Revision 00

Dynamic Certification Lab Test Report No. 58000-1601, Vibration Test dated 29 November 2017

Schneider Electric Test Report No. No. A0364636-T789, Thermal Test dated 3 February 2016, Revision 00

Terms of Validity:

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This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:

Rules for Conditions of Classification, Part 1 – 2023 Marine Vessel Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

Marine Vessel Rules (2023): 4-8-3/1.5, 1.7, 1.11.1

Rules for Conditions of Classification, Part 1 – 2023 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

Mobile Offshore Units (2023): 6-1-7/9.11

National:

UL 508: 2018

CSA 22.2 No.14: 2018

International:

UNE EN 61439-1: 2011;

UNE EN 61000-6-4: 2007 Class A;

UNE EN 61000-6-2: 2006

Government:

NA

EUMED:

NA

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OTHERS:

NA