Confirmation of Product Type Approval

Company Name: PT. SCHNEIDER ELECTRIC MANUFACTURING BATAM

Address: JL. BERINGIN LOT. 208, BIP MUKAKUNING, KEL. MUKA KUNING, KEC. SUNGAI BEDUK, BATAM, Indonesia

Product: Motor Controller, Variable Speed Drives

Model(s): Altistart 22

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	21-2104296-PDA-DUP	30-MAR-2021	29-MAR-2026
Manufacturing Assessment (MA)	19-BD3675902	18-JUN-2019	13-JUN-2021
Product Quality Assurance (PQA)	NA	NA	NA

Tier
3 - Type Approved, unit certification not required

Intended Service
Marine & Offshore Application - Starting, Stopping, and Protection of Three Phase Industrial AC Induction Motors for multiple applications on board ABS Classed Vessels, Offshore Rigs and Platforms, and other MODUs or Facilities.

Description
Altistart 22 is an open type solid state soft Starter dedicated to Starting or Stopping smoothly 3 Phase Induction Motors. It also provides MotorThermal Protection.

Ratings
Altistart 22:

Three Phase Power Supply Voltage:

230V to 440V, 50/60Hz

208V to 600V, 50/60Hz

Altistart 22 Power Ratings cover 4 to 400 kW Range

Refer to Altistart 22 user manual for additional details.

Service Restrictions
1. Unit Certification is required for this product when used as:

(a) Motor controller of 100 kW (135 hp) and over motor intended for essential services (Marine Vessel

Rules 4-8-1/7.3 Table 1 & 2) or for services indicated in 4-8-3/Table 7 as per 4-8-3/1.5 and 4-8-3/5.11 of the Marine Vessel Rules.

(b) Motor controller of 100 kW (135 hp) and over motor intended for essential services (Mobile Offshore Units Rules 4-1-1/ Table 3 & 4) or for services related to additional optional notations requested for the offshore unit as per 6-1-7/9.1.1(b) and 6-1-7/19.7 of the MOU Rules.

2. 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
Duplicate PDA resides with PT Schneider Electric Mfg Batam (855744) - BATAM RIAU, and SCHNEIDER (WUXI) DRIVES CO., LTD.

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

1. Motor Controller Enclosure IP/UL/NEMA rating to be based on 4-8-3/Table 2 of the Marine Vessel Rules.

2. All Units are equipped with an Integrated Bypass.

3. Wiring schematics & assembly drawings to be submitted for each installation.

4. Type of enclosure is to be selected in accordance with the 4-8-3/1.11 and 4-8-3/Table 2 of the Marine Vessel Rules and 4-3-3/Table 1 of the Mobile Offshore Unit Rules as applicable.

5. If the disconnecting device is not within sight of both motor and controller, or if it is more than 15.25 m (50 ft) from either, it is to be arranged for locking in the open position as per 4-8-4/9.3.2 of the Marine Vessel Rules and 4-3-3/3.13.2(c) of the Mobile Offshore Units Rules.

Notes, Drawings and Documentation
Drawing No. E184727 Vol1-5-20200428-Description, E184727 Vol1-5-20200428-Description, Revision: -, Pages: -

CNPP Test Report No: LM 08 00 54 (Dated 27 Oct 08), LM 09 00 52 (Dated 06 Nov 09), LM 09 0045 (Dated 11 Sept 09)

L2E: Schneider Electric Test Reports for ATS22

Schneider Test Report Proj: 08CA58635, 10NK02378

Schneider Non-Accessibility Test IP20, Ref ATS22_LTR_80597 dated 13 October 2008

Schneider Electric Technical Construction File: ST02041 (Dated 12 May 2010)

Term of Validity
This Product Design Assessment (PDA) Certificate remains valid until 29/Mar/2026 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.

ABS Rules

Rules for Conditions of Classification, Part 1 - 2021: 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

Marine Vessel Rules 2021, 4-8-3/1.11.1, 5.1, 5.3.1, 5.7.8.7.4

Rules for Conditions of Classification, Part 1 - 2021 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

Mobile Offshore Units Rules 2021, 4-3-1/15, 4-3-3/3.13.

International Standards
IEC 60068-2-6, Ed. .0, 2007

IEC 61000-4-4, Ed. 3.0, 2012

IEC 61000-4-5, Ed. 3.1, 2017

IEC 60529, Ed. 2.2: 2013

IEC 60947-1, Ed 6.0, 2020

IEC 60947-4-2, Ed. 4.0, 2020

EU-MED Standards
NA

National Standards
UL 508, Standard for Industrial Control Equipment, 18th Edition, 2018

CAN/CSA C22.2 No. 0.4-17, 2017 - Bonding of Electrical Equipment

CAN/CSA C22.2 No. 14-18, 2018 - Industrial Control Equipment

Government Standards
NA

Other Standards
NA

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 19-May-2021 9:17

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

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 prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations

regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.