



Confirmation of Product Type Approval

Company Name: SCHNEIDER ELECTRIC FRANCE

Address: SITE HORIZON8 EME RUE - 70 METRESZI DE CARROS CARROS 06516 France

Product: Automation, Modular I/O System

Model(s): Modicon M340-M580-X80

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	24-0016448-PDA	24-JUN-2024	23-JUN-2029
Manufacturing Assessment (MA)	20-4548552	03-DEC-2020	02-DEC-2025
Product Quality Assurance (PQA)	NA	NA	NA

Tier

5 - Unit Certification Required

Intended Service

ABS Classed Vessels and Offshore Facilities in accordance with the listed ABS Rules and International Standards.

Description

Programmable control system for marine and offshore monitoring and control functions.

- Modicon M340: composed of one BMXP341000 standard model processors and six (6) performance models BMXP3420xxx or BMXP3420xxxCL; programmed and configured with Unity Pro small/medium/large or extra large, X bus connection.

- Modicon M580: BMEP581020, BMEP5820xx, BMEP5830xx, BMEP5840xx, BMEP5850xx and BMEP5860xx processors with Modicon X80 I/O platform, Highway Addressable Remote Transducer (HART) analog I/O modules and Ethernet backplane capable of X-bus and Ethernet connection.

Programmed and configured with Unity Pro software (for version please refer to catalogue).

See attachment for details.

Ratings

24 - 125 V DC

100 - 240 V AC

Operating temperature 0°C to +60°C degrees / -25°C to +70°C degrees according to product

Degree of protection: IP20

Service Restrictions

- Unit Certification is not required for the product or products covered in this certificate.

However, unit certification in accordance with Marine Vessels Rules 4-9-3/Table 5, Marine Vessels Rules 4-9-9/15.7 Table 2, Marine Vessels Rules 4-9-14/19.1.6 is required for the system, where this equipment is part of Category II or III computer-based systems as described in Marine Vessels Rules 4-9-3/7.1 Table 1 or part of systems that falls within the scope of Marine Vessels Rules 4-9-13/5

- Equipment may be installed in the bridge and deck zone except those marked with (*) that may be installed in the general power distribution zone only with mitigation measures in accordance with the Manufacturer's Instruction Sheet No. NHA3301400 as indicated in the attachment.

Comments

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

This approval is limited to the hardware only.

Each application/ installation and the used application software is to be specifically approved in conjunction with the relevant system in which the units are being used in accordance with Marine Vessels Rules 4-9-3, 4-9-13 and 4-9-14 and other application specific requirements.

Notes, Drawings and Documentation

Drawing No. 00, DCE_M340_M580_oct2023, Revision: 01, Pages:

See attached drawing list.

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 23/Jun/2029 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 (2024) – 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

Rules for Building and Classing Marine Vessels: 4-9-9/13, 4-9-9/15.7 Table 1

Rules for Conditions of Classification (2024) – Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

Rules for Building and Classing Mobile Offshore Units: 6-1-1/9

ABS Rules for Conditions of Classification (2024) – High Speed Craft 1-1-4/11.9, 1-1-A2, 1-1-A3, which cover the following:

Rules for Building and Classing High Speed-Craft: 4-7-9/15, 4-7-9/15.5 Table 9

International Standards

IEC 61131-2 Ed 4.0 (2017)

IEC 60947-5-2 Ed 4.0 (2019)

IEC 60870-5-101 Ed 2.1 (2015)

IEC 60870-5-104 Ed 2.1 (2016)

IEC 61000-6-2 Ed 3.0 (2016)

IEC 60945 Ed.4.0 (2002)

IACS UR E10 Rev.8

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in blue ink, appearing to read 'James J. White'.

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 11-Jul-2024 9:05

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.