



Confirmation of Product Type Approval

Company Name: HORNER APG, LLC

Address: 59 S. STATE AVE. IN 46201 United States

Product: Programmable Logic Controller

Model(s): XL Plus Series: Models HE-XP7E0, HE-XP7E2, HE-XP7E3, HE-XP7E4, HE-XP7E5, HE-XP7E6

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	18-HS1788402-PDA	01-NOV-2018	31-OCT-2023
Manufacturing Assessment (MA)	19-JE3665058	30-APR-2019	11-MAY-2024
Product Quality Assurance (PQA)	NA	NA	NA

Tier

5

Intended Service

Marine & Offshore Applications - Applications include machine control and monitoring.

Description

Programmable Logic Controller for use in automation.

Ratings

Primary Power Range: 10 - 30 VDC

Operating Temperature: -10 °C to +60 °C

Humidity (non-condensing): 5 to 95%

Hazardous Area Rating: Class I, Division 2 Groups A, B, C & D; Class II, Division 2, Groups F and G; Class III

Service Restrictions

- Unit certification in accordance with 4-9-3 (as referred to by 4-8-3/15) of the ABS Steel Vessels Rules is required if this product is used for control, monitoring or safety functions.

- 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.

- Not to be used in Control, Monitoring and Safety Systems of Propulsion Systems (Machinery, Boilers, and Vital Auxiliary Pumps) for ACC and ACCU Classed Vessels .

- PLC is not approved for use Category II or III systems defined in 4-9-3 of the ABS Steel Vessels Rules.

Comments

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

- Tests and approval are for hardware only. Each particular application and installation is to be specifically approved in conjunction with the relevant system in which the components are used.

- Controller to be installed in appropriate enclosure in accordance with 4-8-3/Table 2 of the ABS Steel Vessels Rules.

Notes, Drawings and Documentation

Supporting Data:

UL file No. E180220, Project 4787944447, issued 28 September 2017;

HE-XP7E0 XL+ OCS Datasheet, dated 04/25/2018, 4 pages;

HE-XP7E2 XL+ OCS Datasheet, dated 04/25/2018, 7 pages;

HE-XP7E3 XL+ OCS Datasheet, dated 04/25/2018, 6 pages;

HE-XP7E4 XL+ OCS Datasheet, dated 04/25/2018, 7 pages;

HE-XP7E5 XL+ OCS Datasheet, dated 04/25/2018, 7 pages;

HE-XP7E6 XL+ OCS Datasheet, dated 04/25/2018, 8 pages;

XL+ Bill of Materials;

Schematic packages of PLC020 Carrier Board, Rev. R3.0, dated 08/03/2018, 19 sheets;

Dwg. No. PCBADP044, ADP044.DSN, XL-Plus Display Adapter Board, Rev. 3.0, dated 10/05/2017, 2 sheets;

Intertek EMC Report Number: 103005919LAX-001, issued 17 April 2017;

Term of Validity

This Product Design Assessment (PDA) Certificate 18-HS1788402-PDA, dated 01/Nov/2018 remains valid until 31/Oct/2023 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

ABS Rules

Rules for Conditions of Classification, Part 1 - 2018 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

Steel Vessels 4-8-3/1.11.1, 4-8-3/13.1, 4-8-4/27.5.1

Rules for Conditions of Classification, Part 1 - 2018 Offshore Units and Structures 1-1-4/9.7, 1-1-A2,

1-1-A3, which covers the following:
Mobile Offshore Drilling Units 4-3-3/9.1.1

International Standards
NA

EU-MED Standards
NA

National Standards
NA

Government Standards
NA

Other Standards
NA



A handwritten signature in blue ink, appearing to read "Joseph W. ...".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 18-Jul-2019 9:03

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.