

**HIMA PAUL HILDEBRANDT GMBH**

ALBERT-BASSERMANN-STR. 28

D-68782 BRUEHL BEI MANNHEIM

Germany

Telephone: +49(0)6202-709-0

Fax:

Email: info@hima.com

Web: www.hima.com

**Tier: 5 - Unit Certification Required**

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**Product: Programmable Logic Controller**

**Model: HIMax, HIMatrix, HIQuad, Planar4 and Accessory Devices**

**Intended Service:**

Programmable logic controllers that utilize a programmable memory for internal storage of commands and instructions for specific functions, such as logic, sequencing, counting, and controlling of several equipment via digital or analog inputs/outputs for ACC, ACCU, and ABCU Class Vessels, and offshore and industrial controls. The controllers can be used for process control, Burner Management System (BMS), emergency shut down and machinery, where the demand safe state is the de-energized state.

**Description:**

Safety Related Programmable Electronic System up to SIL 3 (IEC 61508, IEC 61511, EN 62061), Cat 4 and PL e (EN ISO 13849-1).

The components cover power supplies, central processing units, interfaces, accessories for input/ output, programming and diagnostic.

(Components list as attached)

**Rating:**

Power Supply: 24 V DC

Maximum operating temperature:

HIMax, HIMatrix, HIQuad: max Ta=60 deg. C

Planar4: max Ta=70 deg. C

Devices: max Ta=60 deg. C with exception of devices H4007 and H4116 with max Ta=50 deg. C

Certified: NI/ I / 2 / ABCD, T5 Ta = 60 deg C, NI/ I / 2 / ABCD, T4A Ta = 60 deg C, NI/ I / 2 / ABCD, T6 Ta = 60 deg C (FM Approval, 3033084); NI/ I / 2 / ABCD, T5 Ta = 60 deg C, NI/ I / 2 / ABCD, NI/ I / 2 / ABCD, T4 Ta = 60 deg C, NI/ I / 2 / ABCD, T\* Ta = 60 deg C (FM Approval 3015309)

**Service Restriction:**

Unit Certification is required for this product. This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

**Comments:**

- 1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- 2) This approval is for hardware only and each application of this product on an ABS classed vessel is to be reviewed for specific system requirements.
- 3) The required tests and documentation for system category II and III are to be in accordance with 4-9-3 of the Marine Vessels Rules.

**Notes/Drawing/Documentation:**

Drawing No. Test Report TUV 71368806a/b, 07.07.2010

Drawing No. Test Report EMV Rhein-Neckar 5200-347, 31.01.2014

**Terms of Validity:**

This Product Design Assessment (PDA) Certificate 19-GD1884000-PDA, dated 02/Aug/2019 remains valid until 01/Aug/2024 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.

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

**STANDARDS**

**ABS Rules:**

2019 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-9-3, 4-9-8/13, 4-9-8/Table 1 and 2  
2019 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-9-3, 4-9-9/13, 4-9-9/Table 1 and 2  
2019 Steel Vessel Under 90M in Length Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-7-2/9, 4-7-2/Table 1  
2019 Offshore Support Vessel Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-9-3, 4-9-8/13, 4-9-8/Table 1 and 2  
2019 High-Speed Craft Rules 1-1-4/11.9, 1-1-A2, 1-1-A3, 4-7-8, 4-7-9/15, 4-7-9/Table 9 and 10  
2019 Mobile Offshore Drilling Units Rules 1-1-4/9.7, 1-1-A3, 1-1-A4, 4-3-4/5, 6-1-1/9, 6-1-1/13  
2019 Mobile Offshore Units Rules 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-4/5, 6-1-1/9, 6-1-1/13

**National:**

NA

**International:**

IEC 61508 (2010)  
IEC 61511 (2017)  
EN 62061 (2005)

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA