



Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 17/FEB/2018. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until 13/JUN/2018 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid 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.

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.

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.

Product Name: Mounting Devices for PCs and Monitors
Model Name(s): MS3030/3040

Presented to:

MARINER SYSTEMS UK LTD
OAKLANDS PARK
WOKINGHAM
United Kingdom

Intended Service:

Workstations for offshore and marine automation applications.

Description:

The mounting devices are for HP Z420, which consists of keyboard, mouse and internal network interface card. Two variants are available MS 3030 and 3040. The CPU used for these machines are all Intel processors up to and include Xeon E5-2600 & E5-1600 series with 3.66 GHz clock speed. Memory is 1600 MHz DDR3 un-buffered SDRAM with size up to 64 GB. SAS and SATA Hard Disk drives could be mounted internally. SAS drives are 300 GB and 600 GB. SATA drives are from 250 GB to 3 TB. The system also accepts 128 or 256 GB Solid State Drives. Either optical or Blu-Ray writers could be fitted as standard. Various operating systems may be installed including Microsoft Windows 7 and 8 professional or ultimate or SUSE and Red Hat Linux Enterprise. These machines could be cooled by air or liquid.

Ratings:

Voltage input: 100-240 VAC, 50-60 Hz

Service Restrictions:

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:

Not Applicable

Notes / Documentation:

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. Specification: HP Number CZC2171DV4 and Test Reports: TL13011-EMC and ENV, TL13012-EMC and ENV

Term of Validity:

This Product Design Assessment (PDA) Certificate 13-LD1020176-PDA, dated 14/Jun/2013 remains valid until 13/Jun/2018 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:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. The Rules applicable to this assessment are:

National Standards:

International Standards:

IEC 60945 (relevant sections) and IACS UR E10

Government Authority:

EUMED:

Others:

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	13-LD1020176-PDA	14/JUN/2013	13/JUN/2018



ABS Programs

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 was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. 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.