



CERTIFICATE NUMBER

10-LD638329-PDA

DATE

10 November 2010

ABS TECHNICAL OFFICE

London Engineering Services

CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of
COOPER CROUSE HINDS (UK) LTD - SHEERNESS

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Junction Boxes, Marine

MODEL: Ex-Cell Series Terminal, Control and Distributor Boxes Type "I", "T" and "C" XCL

ABS RULE: 2010 Steel Vessel Rules 1-1-4/7.7, 4-8-3/1.7, 4-8-3/1.11, 4-8-3/9.21, 4-8-3/13, 4-8-4/1.3; 2008 MODU Rules 4-3-1/15, 4-3-3/3.1.1, 4-3-3/5.33, 4-3-3/9

OTHER STANDARD IEC/EN 60079-0:2006, 60079-1:2004, 60079-7:2007, 60079-11:2007, 60079-18:2004, 61241-0:2006, 61241-1:2004;

AMERICAN BUREAU OF SHIPPING

Jean-Claude G. Dennemont
Engineering Type Approval Co-ordinator

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

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Web: www.enclosures-crouse-hinds.uk.com

Product: Junction Boxes, Marine

Model: Ex-Cell Series Terminal, Control and Distributor Boxes Type "I", "T" and "C" XCL

Intended Service:

Marine & Offshore Applications

Description:

Steel or Stainless Steel Terminal, Control and Distributor Boxes for use in Hazardous Locations Zone 1, Gas group IIC, Temperature Class T6, T5 or T4 and Dust environments, protected by enclosure, Temperature Class T 80C, T 95C or T 130C.

Ratings:

Rated voltage up to 690V, rated current up to 500A, 180A ("C" XCL) cable rated cross section max 240mm² (dependent on type of terminal and explosion proof components used), IP54 (minimum), IP66 (PUR sealing), Ambient Temperature, -20C to 40C (PUR sealing), -40C to 55C (polymer CR sealing), -55C to 55C (silicone sealing). Enclosure sizes from (HxWxD) 228x152x127mm to 1400x1000x400mm or 1600x200x350mm.

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:

Separately certified components for use in Zone 1 of types Ex d, Ex m and Ex e can be built-in to the enclosures. Certified components as detailed on accompanying ATEX certification may also be built into the enclosures. Built-in components can be suited for the temperature classes T6, T5 or T4. Installation requirements of accompanying ATEX certification are to be complied with.

Notes / Drawings / Documentation:

IECEX Certificates of Conformity IECEX BKI 08.0001U and IECEX BKI 08.0004. ATEX EC-Type-Examination Certificates PTB 02 ATEX 1014 and PTB 02 ATEX 1021U (enclosure only) and associated supplements.

Term of Validity:

This Product Design Assessment (PDA) Certificate 10-LD638329-PDA, dated 10/Nov/2010 remains valid until 09/Nov/2015 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.

STANDARDS

ABS Rules:

2010 Steel Vessel Rules 1-1-4/7.7, 4-8-3/1.7, 4-8-3/1.11, 4-8-3/9.21, 4-8-3/13, 4-8-4/1.3; 2008 MODU Rules 4-3-1/15, 4-3-3/3.1.1, 4-3-3/5.33, 4-3-3/9

National:

NA



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International:

IEC/EN 60079-0:2006, 60079-1:2004, 60079-7:2007, 60079-11:2007, 60079-18:2004, 61241-0:2006, 61241-1:2004

Government Authority:

NA

EUMED:

NA

Others:

NA

