



Confirmation of Product Type Approval

Company Name: DEIF A/S

Address: FRISENBORGVEJ 33 DK-7800 Denmark

Product: Protection Relay

Model(s): MVR-200 Series

| Certificate Type | Certificate Number | Issue Date | Expiry Date |
|---------------------------------|---------------------------|-------------------|--------------------|
| Product Design Assessment (PDA) | 20-2011865-PDA | 09-JUL-2020 | 08-JUL-2025 |
| Manufacturing Assessment (MA) | 18-EG3574567 | 25-OCT-2018 | 27-NOV-2023 |
| Product Quality Assurance (PQA) | NA | NA | NA |

Tier

3

Intended Service

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

Description

Multi-function relay for protection, control and monitoring of generators, transformers, motors and/or feeders.

MVR series consist of:

F201, F205, F210, F215, F255 (feeder applications)

G215, G257 (generators applications)

M210, M215, M255, M257 (motors applications)

T215, T216, T256, T257 (transformers applications)

V211 (busbar applications)

Ratings

Power supply: 24/48 VDC +30/-25 % and 100 to 110 VDC \pm 10 %

Power consumption: 20 W to 30 W

Degree of protection: IP 54 (front), IP 20 (back)

Operating temperature: -25 deg C to +60 deg C

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

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.

Notes, Drawings and Documentation

Drawing No. 730_01, EPC 0730-01 MVR 21x series A tests, Revision: A, Pages: 1

Drawing No. 730_02, EPC 0730-01 MVR 25x series A tests, Revision: A, Pages: 1

Drawing No. 730_03, EPC 730-01 MVR 21x series B tests, Revision: A, Pages: 1

Drawing No. 730_04, EPC 730-01 MVR 25x series B tests, Revision: A, Pages: 1

Drawing No. 730_05, EPC 730-01 MVR 21x series C tests, Revision: A, Pages: 1

Drawing No. 730_06, EPC 730-01 MVR 25x series C tests, Revision: A, Pages: 1

Drawing No. 730_07, MVR tests Witnessed BV 2019-09-03, Revision: A, Pages: 1

Drawing No. 730_08, MVR tests witnessed DNV GL signed 2019-01-31, Revision: A, Pages: 1

Drawing No. 730_09, MVR tests Witnessed DNV GL signed 2019-06-25,26, Revision: A, Pages: 1

Drawing No. 730_10, MVR-200 Data sheet 4921240605C UK, Revision: A, Pages: 1

Drawing No. 730_11, LR LR2002017TA UK, Revision: A, Pages: 1

Drawing No. Correspondence, email 12 jun 2020 new PDA request, Revision: -, Pages: 1

Drawing No. Correspondence, ABS London Plan Approval Request Form (Rev 6), Revision: -, Pages: 1

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 08/Jul/2025 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

2020 Rules for Conditions of Classification, Part 1, 1-1-4/7.7, 1-1-A3 & A4, which covers the following:

2020 Marine Vessel Rules: 4-8-2/9.11, 9.13, 9.17, 9.19; 4-9-5/3; 4-9-6/3; 4-9-9/13; 4-9-9/15.7, Table 1

2020 Rules for Conditions of Classification, Part 1 - Offshore Units and Structures: 1-1-4/9.7, 1-1-A2 & A3, which covers the following:

2020 Mobile Offshore Units Rules: 4-3-2/9.3, 9.5, 9.7, 9.13, 9.15; 6-1-7/9.11

International Standards

IEC 60255-1:2009
IEC 60255-26:2013
IEC 60255-27:2013

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: 04-Sep-2020 7:25

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.