



Confirmation of Product Type Approval

Company Name: ROCKWELL AUTOMATION INC.

Address: 1201 SOUTH SECOND STREET WI 53204 United States

Product: Motor Control Center

Model(s): Bulletin 2500

| Certificate Type | Certificate Number | Issue Date | Expiry Date |
|---------------------------------|--------------------|-------------|-------------|
| Product Design Assessment (PDA) | 20-HS1956257-PDA | 13-MAR-2020 | 12-MAR-2025 |
| Manufacturing Assessment (MA) | 18-SB3590998 | 29-NOV-2018 | 28-NOV-2023 |
| Product Quality Assurance (PQA) | NA | NA | NA |

Tier

5

Intended Service

Marine & Offshore Applications

Description

The CENTERLINE 2500 Motor Control Center. Power Distribution Panel for Motor Loads, Non-Motor Loads and Control Equipment including fused and un-fused Switches, Magnetic Starters, Overload and Undervoltage Protectors

The CENTERLINE 2500 Motor Control Center is a floor mounted assembly of one or more enclosed vertical columns (sections) normally having a horizontal, common power bus and principally containing combination motor control center units.

The motor control center units are mounted in these vertical columns. These columns normally incorporate vertical power buses connected to the common power supply which feeds the individual units.

Power may be supplied to the individual units by bus bar connections or, if the vertical bus is omitted, by suitable cabling.

The column may be divided into sub-columns separated by a steel plate and provided with separate vertical buses which may be supplied by separate sources and not employing a horizontal bus.

A motor control center column is the vertical enclosure and assembly that is prevented by structural framework from being physically separated into smaller parts and is intended to receive individual combination motor control center units.

The function of the vertical column is to support the horizontal and vertical buses, units, covers and doors.

Ratings

Voltage Rating:

3 Phases, 3 or 4 Wire, 240V, 380V, 400V, 415V, 440V, 480V, 525V, 600V & 690V

Continuous Current Ratings:

Horizontal Power Bus Ratings: 800A, 1250A, 1600A, 2000A, 2500A, 3200A, 4000A

Continuous Current Vertical Power Bus Rating: 600A & 1200A

Bus Short Circuit Ratings:

Horizontal Bus Bar Bracing (Maximum Withstand Rating): 50kA, 65kA, 80kA & 100kA Symmetrical rms

Vertical Bus Bar Bracing (Maximum Withstand Rating): 50kA, 65kA, 80kA (Icc) & 100kA (Icc)
Symmetrical rms

Rated Frequency: 50/60 Hz

Ambient Operating Temperature: -5°C to 40°C (Average Temperature in any 24 Hour Period not to exceed 35°C)

IP Ratings: IP20, IP42, and IP54

Service Restrictions

Motor Control Centers of 100 kW (135 HP) and over for essential services is required to be Unit Certified, otherwise 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.

- 1) Equipment for Marine and Offshore Applications in Non Hazardous Areas.
- 2) Type of Enclosure rating (IP or NEMA) is to be selected in accordance with 4-8-3/1.11 and 4-8-4/9 of the MVR.
- 3) A maximum ambient temperature of 45 °C (113 °F) is to be used for engine rooms and 40 °C (104 °F) for other locations. Where ambient temperatures are in excess of these values the total rated temperature of equipment is not to be exceeded as per 4-8-3/1.17 of the MVR.
- 4) For each installation complete details of the line ups with schematics are to be submitted for review.
- 5) Disconnect device, overload ratings, etc are to be indicated for each application.

Comments

Duplicate PDA's resides with:

- a) Rockwell Automation SP ZOO - Katowice Poland,
- b) Rockwell Automation DO Brasil LTDA - Sao Paulo,
- c) Rockwell Automation Control Solution - Shanghai China;

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

Notes, Drawings and Documentation

Drawing No. PDA App, PDA Revalidation & DUP Application, Revision: 1, Pages: -

Drawing No. Doc Letter and PDA-DUP, PDA-DUP application and DoC Letter - 2500, Rev 0, Page: 1

DEKRA Certificate 2185541.01, dated 16 August 2016, at DEKRA Arnhem, Revision:-, Page: 1

DEKRA Certificate 2215875.02, dated 12 June 2018, at DEKRA Arnhem, Revision:-, Page: 1

DEKRA Certificate 2215875.100, dated 12 June 2018, at DEKRA Arnhem, Revision:-, Page: 1

DEKRA Certificate 2215883.02, dated 12 June 2018, at DEKRA Arnhem, Revision:-, Page: 1

DEKRA Certificate 2215883.100, dated 12 June 2018, at DEKRA Arnhem, Revision:-, Page: 1

DEKRA Certificate 2218492.02, dated 12 June 2018, at DEKRA Arnhem, Revision:-, Page: 1

DEKRA Certificate 2218492.100, dated 12 June 2018, at DEKRA Arnhem, Revision:-, Page: 1

2500-ct008B-EN-E, EU Declaration of Conformity, dated 08 March 2018, at Rockwell Milwaukee, Revision:-, Pages: 2

2500-ct009B-EN-E, EU Declaration of Conformity, dated 08 March 2018, at Rockwell Milwaukee, Revision:-, Pages: 2

Type Test Conformance Report MCC-0006-EN (25 March 2008)

Drawing No. 2500-SG001_-EN-P, Product Brochure/Cat, Revision: -, Pages: 1

Mfr's Pub 2500-SG001G-EN-P - March 2020;

Rockwell Automation Test Report EP-2522 dated 17 February 2010.

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 12/Mar/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

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

2020 Marine Vessels: 4-8-1/5.5.4, 4-8-2/9.1, 4-8-3/1.11, 4-8-3/1.17.1, 4-8-3/5.3, 4-8-3/5.7, 4-8-3/Table 2, 4-8-4/9 & 4-9-9/Table 1;

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

2020 Mobile Offshore Units: 4-3-1/15, 4-3-3/Table 1, 6-1-7/9.7, 6-1-7/9.9, 6-1-7/9.11 & 6-1-7/9.15.

International Standards

IEC/EN60439-1:1999 (Amend.1, 2007), IEC 60529, 2013;

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in dark ink, appearing to read "James J. Wilk".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 16-Apr-2020 3:42

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.