



CERTIFICATE NUMBER 19-HG1893688-PDA  
EFFECTIVE DATE 13-Sep-2019  
EXPIRATION DATE 12-Sep-2024  
ABS TECHNICAL OFFICE Hamburg Engineering Department

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## CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

**PINTSCH BUBENZER GMBH**

located at

**FRIEDRICHSHUETTENSTR. 1, D-57548 KIRCHEN-WEHBACH, Germany**

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.

**Product Brake, Electromagnetic Motor Brake**

**Model SFB 6.3, 10, 16, 25, 40, 63, 100, 160, 250, 400, 630, 1000**

This Product Design Assessment (PDA) Certificate remains valid until expiration date 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.

American Bureau of Shipping

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Dimitrios Nikolakis  
Engineer/Consultant

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 ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

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**Tier: 5 - Unit Certification Required**

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**Product:** Brake, Electromagnetic Motor Brake  
**Model:** SFB 6.3, 10, 16, 25, 40, 63, 100, 160, 250, 400, 630, 1000  
**Intended Service:**  
Brakes for electric motors of hoisting and pulling machinery.

**Description:**  
Watertight electromagnetic spring-set disk brakes, fail safe.

**Rating:**  
Nom. dyn./ stat. brake torque (Nm) : 63/ 69 - 10000/ 11000.  
Power supply: 110V, DC.  
Duty cycle: S1.  
Degree of protection: IP 67.

**Service Restriction:**  
Unit Certification is not required for this product. If the manufacturer or purchaser's 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.

**Notes/Drawing/Documentation:**  
Drawing No. Declaration of Conformity, Declaration of Conformity, Revision: -, Pages: -  
Drawing No. PDA rev request, PDA rev request, Revision: -, Pages: -  
Drawing No. 000 598 950-951, Seawater-protected electromagnetic-brake SFB 6.3 Standard Flange, Revision: -, Pages: 1  
Drawing No. 000 597 450-951, Seawater-protected electromagnetic-brake SFB 10 Standard Flange, Revision: -, Pages: 1  
Drawing No. 000 595 950-951, Seawater-protected electromagnetic-brake SFB 16 Standard Flange, Revision: -, Pages: 1  
Drawing No. 000 594 350-951, Seawater-protected electromagnetic-brake SFB 25 Standard Flange, Revision: -, Pages: 1  
Drawing No. 000 590 150-951, Seawater-protected electromagnetic-brake SFB 40 Standard Flange, Revision: -, Pages: 1  
Drawing No. 000 585 950-951, Seawater-protected electromagnetic-brake SFB 63 Standard Flange, Revision: -, Pages: 1  
Drawing No. 000 586 650-951, Seawater-protected electromagnetic-brake SFB 100 Standard Flange, Revision: -, Pages: 1  
Drawing No. 000 588 350-951, Seawater-protected electromagnetic-brake SFB 160 Standard Flange, Revision: -, Pages: 1  
Drawing No. 000 579 650-951, Seawater-protected electromagnetic-brake SFB 250 Standard Flange, Revision: -, Pages: 1  
Drawing No. 000 579 950-951, Seawater-protected electromagnetic-brake SFB 400 Standard Flange, Revision: -, Pages: 1  
Drawing No. 000 592 550-951, Seawater-protected electromagnetic-brake SFB 630 Standard Flange, Revision: -, Pages: 1  
Drawing No. 000 617 150-951, Seawater-protected electromagnetic-brake SFB 1000 Standard Flange, Revision: -, Pages: 1  
Drawing No. 214001E, Mounting and Service Instructions SFB Series, Revision: -, Pages: 8  
Drawing No. 000 560 301-960, Work Capacity SFB Series, Revision: -, Pages: 5  
Drawing No. 001 133 002-953, Electromagnetic Two-Disc Spring-Set Brake SFB (Data Sheets SFB Series), Revision: -, Pages: 2

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**Tier: 5 - Unit Certification Required**

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**Terms of Validity:**

This Product Design Assessment (PDA) Certificate 19-HG1893688-PDA, dated 13/Sep/2019 remains valid until 12/Sep/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.

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:**

ABS Rules for Building and Classing Steel Vessels 2019: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/1.7, 4-8-3/1.11, 4-8-3/1.17.

ABS Rules for Building and Classing Marine Vessels 2019: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/1.7, 4-8-3/1.11, 4-8-3/1.17.

ABS Rules for Building and Classing Mobile Offshore Drilling Units 2019: 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-1/11, 6-1-1/9, 6-1-1/13.

ABS Rules for Building and Classing Mobile Offshore Units 2019: 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-1/11, 6-1-1/9, 6-1-1/13.

ABS Rules for Building and Classing Steel Vessels Under 90 meters (295 feet) in Length 2019: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-6-1/11.

ABS Rules for Building and Classing Offshore Support Vessels 2019: 1-1-4/7.7, 1-1-A3, 1-1-A4.

**National:**

NA

**International:**

NA

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA