

CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

21-2194531-PDA 25-Jan-2022 24-Jan-2027

Hamburg Engineering Department

CERTIFICATE OF

Product Design Assessment

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

PRECIMA MAGNETTECHNIK GMBH

located at

Roeckerstr. 16, D-31675 Bueckeburg, 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: FDW 08 through 30

Endorsements:

Tier: 5 - Unit Certification Required

This Product Design Assessment (PDA) Certificate remains valid until 24/Jan/2027 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

Efstratios Maliatsos, 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)

PRECIMA MAGNETTECHNIK GMBH

Roeckerstr. 16

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Tier: 5 - Unit Certification Required

Product: Brake, Electromagnetic Motor Brake

Model: FDW 08 through 30

Endorsements:

Intended Service:

Brakes for electric motors of hoisting and pulling machinery.

Electromagnetic fully capsulated spring-set brakes, fail safe.

Application field:: deck machinery, anchor/ mooring winches, hoist and cranes. The heating devise is an option.

Nominal brake torque: 5 Nm to 600 Nm, Power supply: 24V DC to 360V DC, Duty cycle: S1, Insulation class: F, Degree of protection: IP66.

Ambient temperature -20°C up to +40°C

Inclination angle: any

Service Restriction:

Unit certification is required for this product when used for Jacking applications (2022 MOU 6-1-9/Table 2). However, Unit Certification is not required for this product except for winches installed on facilities with CRC Class

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.

1. The brakes are to be operated in line with manufacturer's recommendations/manuals.

2. Brake suitability shall be determined by the required torque rating to counteract the maximum rated load, and the method in which the brake is engaged.

Notes/Drawing/Documentation:

See Attached FIle.

Terms of Validity:

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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.

STANDARDS

PRECIMA MAGNETTECHNIK GMBH

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ABS Rules:

2022 Rules for Condition of Classification: 1-1-4/7.7, 1-1-A3 and 1-1-A4, which covers the following: 2022 Rules for Building and Classing Marine Vessel Rules: 4-5-1/1.5, 4-8-3/1.7/1.11.1/1.17

2021 Guide for Certification of Lifting Appliances: 3-4/1, 3-4/3, 3-6/1, 2-6/15, 2-6/17, 2-6/19.5, 2-6/21, 2-6/27.3, 2-7/5.7, 2-10/5, 2-10/7

National:

DIN VDE 0580: 2011-11 2006/42/EG 2014/35/EU RoHS Richtlinien 2011/65/EU UI 508 17th: 2002-03 CSA C22.2 No. 14-05: 2009 Verordnung (EG) Nr.1907-2006 Reach

International:

DIN EN ISO 12100: 2011-03 DIN EN 60529: 2014-09

Government:

NA

EUMED:

NΔ

OTHERS:

NA

21-2194531 -PDA

Attachment to 21-2194531 PDA covering Brake, Electromagnetic Motor Brake

Models: FDW 08 through 30 Issuance Date: 25-January-2022 Expiry Date: 24-January-2027

Intended Service:

Brakes for electric motors of hoisting and pulling machinery.

Drawing List

Engineering Office:	Hamburg Engineering Department	
Submitter:	PRECIMA MAGNETTECHNIK GMBH (518673)	
Drawing No	Revision No	Drawing Title
Declaration of Conformity_Precima	-	Declaration of Conformity_Precima
ActOnForm	-	ActOnForm
3 M100-002_Massblatt_ FDW08-30		3 M100-002_Massblatt_ FDW08-30

Drawing List as per 16-HG1531883-PDA (June 2016)

- Drawing No. None 1, fdw english 04, Revision: -, Pages: 6
- Drawing No. None 10, FMEA--FDW Brake, Revision: -, Pages: 14
- Drawing No. None 11, Material Inspection Certificate, Revision: -, Pages: 3
- Drawing No. None 2, Instructions FDW 05, Revision: -, Pages: 23
- Drawing No. None 3, M100-002 dimension FDW08-30, Revision: 01, Pages: 1
- Drawing No. None 4, Precima Magnettechnik QM english, Revision: -, Pages: 1
- Drawing No. None 5, PB 13 993 121357 TUEV IP-Test, Revision: -, Pages: 7
- Drawing No. None 6, TypeApprovalForm R1 4, Revision: -, Pages: 2
- Drawing No. None 7, CCS certification short version 24 02 14, Revision: -, Pages: 5
- Drawing No. None 8, DNV und GL Zertifikat FDW und FDX 2015_11_13_11_22_59 low dissolution, Revision: -, Pages: 1
- Drawing No. None 9, CCSAus-Zertifikat-052010, Revision: -, Pages: 3