

# Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **61 001 - 13 HH**

Company **Precima Magnettechnik GmbH**  
**Röcker Str. 16**  
**31675 Bückeburg, GERMANY**

Product Description **Electromagnetic brakes**

Type **FDW, sizes 08 / 10 / 13 / 15 / 17 / 20 / 23 / 26 / 30**  
**FDX, sizes 26 / 30 / 40**

Environmental Category **H**

Technical Data /  
Range of Application **Service or Parking Brakes for dynamic or static braking**

**Voltage:** 24 V DC up to 360 V DC  
operated via rectifier PMG, PMEA, PMBA or DC Supply

**Duty type:** S1, S4-40 %

**Torque:** 5 Nm up to 1600 Nm

**Ambient temp.:** 45 °C

**Degree of protection:** IP 65, IP 66, IP 67

**Thermal class:** 155 (F)

Test Standard **Guidelines for the Performance of Type Approvals, VI-7-2, edition 2003**  
**DIN VDE 0580:2000-07**

Documents **Drawings: M98-169 dated 05.06.2013, M98-170 dated 06.06.2013**  
**Datasheet: T 90 - 22 dated 27.1.99 SiHSi-0, Fertigungskarte FM 004**  
**Test reports: Abnahmebericht FDW & FDX dated 13.08.2013,**  
**Report TÜV Nord Nr. 10 204 553873/01.04.2010, 13 993 121357/10.06.2013**

Remarks **None**

Valid until **2018-08-20**  
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Type Approval Symbol



**Germanischer Lloyd**

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