

MANUFACTURER'S DECLARATION

SIL 1 according to IEC 61508-2:2010
Functional safety of electrical / electronic /
programmable electronic safety-related systems

We hereby verify the accuracy of the following information.

1. General

Regarding electromechanical DREHMO® actuators of the Standard series:

D*1)_.*_****

1) not include: 75, 150, 299, 300, 450, 600, 900, 1200, 1800, 2000

Safe state:

The safe state is defined as correct indication of the torque or position signal.

Device type according to IEC 61508-2:2010:

A (basic component)

Operating mode:

Low Demand Mode

Type of evaluation (by report no.):

Evaluation by FMEDA according to IEC 61508-2
(DREHMO 10/08-017 R003 V1R0)

Service life:

The failure rates apply to the specified endurance according to EN 15714-2 and for a service life of typically up to 10 years (the first attained criterion counts).

2. FMEDA (Failure Modes, Effects, and Diagnostic Analysis)

Safe state	Torque measuring	Position measuring
Safe failures λ_s [FIT]	0	0
Dangerous detectable failures λ_{DD} [FIT]	0	0
Dangerous non detectable failures λ_{DU} [FIT]	82	131
No effect failures [FIT]	2	6
Failures outside the safety function [FIT]	377	323

Wenden, 2016-08-30



Management