Data Sheet

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Functional Safety

Safety Characteristics for MOVISAFE® DCS21B

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1 Data sheet

INFORMATION

This data sheet does not replace the following other applicable documents[1]:

- "MOVIDRIVE® MDX60B/61B" operating instructions
- "MOVIDRIVE® MDX61B Safety Module Option MOVISAFE® DCS21B/22B/31B/32B" manual

1) We reserve the right to make technical changes.

1.1 Characteristic safety values for MOVISAFE® DCS22B

	Characteristic values according to	
	EN 62061/IEC 61508	**EN ISO 13849-1**
Safety class/underlying standards	SIL 3 according to IEC 61508	PL e
System structure	1oo2D	2 channels (corresponds to category 4)
Type of operating mode	"High demand" according to IEC 61508	
Probability of dangerous failure per hour (PFHd value)	2.24×10^{-9} 1/h	
Mission time/service life	20 years	
Proof test interval	20 years	–
Safe condition	Value "0" for all safety-related F-DO process values (output disabled)	
Safety function	• STO, SS1, SS2, SOS, SLA, SLS, SSR, SDI, SSM according to IEC 61800-5-2 • Safe digital inputs/outputs • PROFIsafe communication	

INFORMATION

The respective failure probability of PROFIsafe gateways approved by SEW-EURODRIVE is integral part of the safe communication profile and is therefore not taken into account separately when determining the achievable performance level (PL).

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