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Data sheet



Functional Safety

Characteristic Safety Values of MOVISAFE® DCS21B

1 Data Sheet

INFORMATION



This data sheet does not replace the following other applicable documents¹⁾:

- "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® DCS21B

Apply to MOVISAFE® DCS21B with the following part numbers:

- DCS21B with prefabricated cable DAE34B: 28200993
- DCS21B for replacement (without DAE34B): 28200977

	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	<ul style="list-style-type: none"> • STO, SS1, SS2, SOS, SLA, SAR, SLS, SSR, SLP, SLI, SDI, SCA, SSM according to IEC 61800-5-2 • Safe digital inputs/outputs • PROFIsafe communication 	

You find the characteristic safety values for MOVISAFE® DCS21B with part number 18203922 in the "MOVIDRIVE® MDX61B Safety Option Module DCS21B/31B" manual, edition 04/2012.

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).