



**SEW**  
**EURODRIVE**

SEW-EURODRIVE GmbH & Co KG  
P.O. Box 3023  
76642 Bruchsal/Germany  
Phone +49 7251 75-0  
Fax +49 7251-1970  
sew@sew-eurodrive.com

→ [www.sew-eurodrive.com](http://www.sew-eurodrive.com)

## Data sheet



Functional Safety

**Characteristic Safety Values of MOVISAFE® DCS31B**

## 1 Data Sheet

### INFORMATION



This data sheet does not replace the following other applicable documents<sup>1)</sup>:

- "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 of MOVISAFE® DCS31B

Apply to MOVISAFE® DCS31B with part number 28200985.

	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)	$2.24 \times 10^{-9}$ 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"> <li>• STO, SS1, SS2, SOS, SLA, SAR, SLS, SSR, SLP, SLI, SDI, SCA, SSM according to IEC 61800-5-2</li> <li>• Safe digital inputs/outputs</li> <li>• Safe logic processing</li> </ul>	

You find the characteristic safety values for MOVISAFE® DCS31B with part number 18209580 in the "MOVIDRIVE® MDX61B Safety Option Module DCS21B/31B" manual, edition 04/2012.