



# CERTIFICATE

No. Z2B 015347 0531 Rev. 00

**Holder of Certificate:** **TORMAX**  
**A Division of LANDERT Group AG**  
Unterweg 14  
8180 Bülach  
SWITZERLAND

**Certification Mark:**



**Product:** **Power operated sliding doors**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 713300821

**Valid until:** 2029-08-05

**Date,** 2024-08-23

( Benedikt Pulver )

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<b>Model(s):</b>	<p>Automatic door system  TORMAX T2 Door Systems  TORMAX iMotion 2252.A Sliding Door  TORMAX iMotion 2252.A-IP68 Sliding Door  Retrofit for TSP Stardoor<sup>1</sup>  TORMAX iMotion 2352 Sliding Door  TORMAX iMotion 2351 Sliding Door  TORMAX iMotion 2351.IP68 Sliding Door  TORMAX iMotion 2451 Sliding Door  TORMAX iMotion 2451.IP68 Sliding Door</p> <p>Automatic door drive  TORMAX T2 Door Drives  TORMAX iMotion 2202.A Sliding Door Drive  TORMAX iMotion 2202.A-IP68 Sliding Door Drive  TORMAX iMotion 2202.A-RETRO-TSP Sliding Door Drive  TORMAX iMotion 2302 Sliding Door Drive  TORMAX iMotion 2301 Sliding Door Drive  TORMAX iMotion 2301.IP68 Sliding Door Drive  TORMAX iMotion 2401 Sliding Door Drive  TORMAX iMotion 2401.IP68 Sliding Door Drive</p> <p><sup>1</sup> <i>Discontinued Product, not in focus of certification.</i></p>
<b>Brand Name:</b>	<b>TORMAX</b>
<b>Parameters:</b>	see next pages
<b>Tested according to:</b>	<p>EN 16005:2012/AC:2015  EN 60335-1:2012/A16:2023  EN IEC 60335-2-103:2023/A11:2023  EN ISO 13849-1:2015</p>

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## Technical Data:

Sliding Door System	2252.A-IP68	-	2252.A	2352
Sliding Door Drive	2202.A-IP68	2202.A-RETRO-TSP	2202.A	2302
Application Door type / Profile type	Standard, curved or telescopic sliding doors: <b>TORMAX T2 contour: LR12, LR22B, LR22B.PBO, LR32THERM</b>			
	Standard sliding doors in escape routes with pivot fitting: <b>TORMAX T2 contour escape: LR22B.BO, LR22B.RBO</b>			
	<b>Third party / additional door leaf systems / profile systems with appropriate stability</b>			
No. of door leaves	1, 2		1, 2, 2 (Telescopic <sup>2</sup> ), 4 (Telescopic <sup>2</sup> )	
<b>Number of possible door leaves and door leaf weights</b>				
EB	2x 120 kg	2x 80 kg	2x 120 kg	2x180 kg
ER / EL	1x 130 kg	1x 80 kg	1x 130 kg	1x200 kg
TR / TL	-	-	2x 80 kg	2x120 kg
TB	-	-	4x 80 kg	4x100 kg
<b>Rated force</b>				
Max. Force	260 N			250 N
<b>Velocity</b>				
Opening movement	5 – 100 cm/s			
Closing movement	5 – 80 cm/s			
<b>Control unit</b>				
Name	MCU32-BASE-40-120-A; TID: 420472			
Firmware version	V10.50			
Performance level	d			
Category	2			
<b>Electrical ratings</b>				
No. of motors	1			
Rated voltage	230 V		230 / 115 V	
Rated frequency	50-60 Hz			
Rated current	1 A		1,6 / 3,2 A	
Rated power input	190 W		310 W	
Classification	I			
<b>Environmental conditions</b>				
Degree of protection	IP65 / 68	IP20		
Ambient temperature	-20 °C to +50 °C			

<sup>2</sup> Not to be used with TORMAX LR 22B.BO

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## Technical Data:

Sliding Door System	2351.IP68	2451.IP68	2351	2451
Sliding Door Drive	2301.IP68	2401.IP68	2301	2401
Application Door type / <b>Profile type</b>	Standard, curved or telescopic sliding doors: <b>TORMAX T2 contour: LR12, LR22B, LR22B.PBO, LR32THERM</b>			
	Standard sliding doors in escape routes with pivot fitting: <b>TORMAX T2 contour escape: LR22B.BO, LR22B.RBO</b>			
	<b>Third party / additional door leaf systems / profile systems with appropriate stability</b>			
No. of door leaves	1, 2		1, 2, 2 (Telescopic <sup>2</sup> ), 4 (Telescopic <sup>2</sup> )	
<b>Number of possible door leaves and door leaf weights</b>				
EB	2x 130 kg	2x 300 kg	2x 130 kg	2x 300 kg
ER / EL	1x 150 kg	1x 450 kg	1x 150 kg	1x 450 kg
TR / TL	-	-	2x 100 kg	2x120 kg
TB	-	-	4x 80 kg	4x100 kg
<b>Rated force</b>				
Max. Force	260 N	400 N	250 N	400 N
<b>Velocity</b>				
Opening movement	5 – 100 cm/s	4 – 70 cm/s	5 – 100 cm/s	4 – 100 cm/s
Closing movement	5 – 80 cm/s	4 – 70 cm/s	5 – 80 cm/s	4 – 80 cm/s
<b>Control unit</b>				
Name	MCU32-BASE-40-200-A; TID: 407556			
Firmware version	V10.50			
Performance level	d			
Category	2			
<b>Electrical ratings</b>				
No. of motors	1			
Rated voltage	230 / 115 V			
Rated frequency	50-60 Hz			
Rated current	1.1 A / 2.2 A	1.7 A / 3.4 A	1 A / 2 A	1,6 / 3,2 A
Rated power input	240 W	340 W	190 W	310 W
Classification	I			
<b>Environmental conditions</b>				
Degree of protection	IP65 / 68		IP20	
Ambient temperature	-20 °C to +50 °C			
<sup>2</sup> Not to be used with TORMAX LR 22B.BO				

## Performance:

Door drives	<b>Endurance EN 16005</b> Tested cycles
2202. A / 2202.A-IP68 / 2202.A-RETRO-TSP 2302 / 2301 / 2301.IP68 2202.A-RETRO-TSP	Min. 1.000.000 cycles at 4000 cycles/day
Door leaf types / <b>Profile types</b>	<b>Endurance EN 16005</b> Tested cycles
T2 contour escape: LR22B.BO, LR22B.RBO, LR22B.PBO	Min. 2'500 break out cycles

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## Condition of acceptability:

The equipment shall be supplied with the specified rated voltages according to the user manual.  
The equipment fulfils the requirements of the tested standards only, if it is operated according to the user manual.  
The equipment fulfils the requirements of the tested standards only, if it is operated with a certified overcurrent protection device according to the manual and the tested standards.  
The disconnection device for the equipment is part of the end application and has to fulfil the requirements of the tested standards.

## Supplemented Standards:

The product meets the requirements of DIN 18650-1:2010, DIN 18650-2:2010 and AutSchR:1997.

## Classification table according to DIN 18650-1:

Classification DIN18650-1	TORMAX iMotion 2202.A Sliding Door Drive TORMAX iMotion 2202.A-IP68 Sliding Door Drive TORMAX iMotion 2202.A-RETRO-TSP Sliding Door Drive TORMAX iMotion 2302 Sliding Door Drive TORMAX iMotion 2301 Sliding Door Drive TORMAX iMotion 2301.IP68 Sliding Door Drive TORMAX iMotion 2401 Sliding Door Drive TORMAX iMotion 2401.IP68 Sliding Door Drive	
Figure	Number	
1	2	Sliding door system
2	3	1.000.000 cycles at 4000 cycles/day
3	2	Sliding door
4	0	No protection against fire
5	1	Force limitation
	2	External safety device
6	1	In escape routes with break out
7	1	Compliance with the safety distances
	2	With finger protection
	4	With presence sensor
8	4	-20°C to +50°C

The classification is given on the nameplate. For drive units the empty spaces should be filled in by the installer of the system after installation.