



America

CERTIFICATE

No. U10 015347 0525 Rev. 01

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

Certification Mark:



C US

Product: **Power operated sliding doors**

Tested according to: UL 325:2017/R:2023-02
CAN/UL 325:2023

This product was voluntarily tested to the relevant safety requirements referenced on this certificate. It can be marked with the certification mark above. The mark must not be altered in any way. The certificate holder shall not transfer this certificate to third parties. This product certification system operated by TÜV SÜD America Inc. most closely resembles system 3 as defined in ISO/IEC 17067. Certification is based on the TÜV SÜD "Testing, Certification, Validation and Verification Regulations (TCVVR)". For Canadian standards TÜV SÜD America Inc. is accredited by the Standards Council of Canada to ISO/IEC 17065.

Test report no.: 713300818

Date, 2024-06-26

(Benedikt Pulver)



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Model(s):

Automatic door system
TORMAX T2 Door Systems
TORMAX 2151 Sliding Door
TORMAX 2151.IP68 Sliding Door
TORMAX 2253 Sliding Door
TORMAX 2253.HB Sliding Door

Automatic door drive
TORMAX T2 Door Drives
TORMAX 2101 Sliding Door Drive
TORMAX 2101.IP68 Sliding Door Drive
TORMAX 2203 Sliding Door Drive
TORMAX 2203.HB Sliding Door Drive
TORMAX 2203.UL Sliding Door Drive
TORMAX 2203.HB-UL Sliding Door Drive

Brand Name(s):

TORMAX

Parameters:

see next pages



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Technical Data:

| | | | | |
|---|---|---------------------------------|-------------------------------------|---------------------------------|
| Sliding Door System | TORMAX 2151 | | TORMAX 2151.IP68 | |
| Sliding Door Drive | TORMAX 2101 | | TORMAX 2101.IP68 | |
| Application Door type / Profile type | Standard or curved sliding doors: TORMAX T2 contour: LR12, LR22B, LR22B.PBO, LR32THERM | | | |
| | Standard sliding doors in escape routes with pivot fitting: TORMAX T2 contour escape: TORMAX LR22B.BO, TORMAX LR22B.RBO | | | |
| | Third party / additional door leaf systems / profile systems with appropriate stability | | | |
| No. of door leaves | 1, 2 | | | |
| Number of possible door leaves and door leaf weights | | | | |
| | <i>Trolley with 1 roller¹</i> | <i>Trolley with 2 rollers</i> | <i>Trolley with 1 roller</i> | <i>Trolley with 2 rollers</i> |
| EB | 2x70 kg | 2x100 kg | - | 2x100 kg |
| ER / EL | 1x70 kg | 1x100 kg | - | 1x100 kg |
| Velocities | | | | |
| | <i>Door weight ≤ 2x70 kg/100 kg</i> | <i>Door weight > 2x70 kg</i> | <i>Door weight ≤ 2x70 kg/100 kg</i> | <i>Door weight > 2x70 kg</i> |
| Opening movement | 2 – 70 cm/s | 2 – 50 cm/s | 2 – 70 cm/s | 2 – 50 cm/s |
| Closing movement | 2 – 33 cm/s | | | |
| Control unit | | | | |
| Name | MCU42-BDM-B; TID: 420194 | | | |
| Firmware Version | V03.00 | | | |
| Performance Level | d | | | |
| Category | 2 | | | |
| Electrical ratings | | | | |
| No. of motors | 1 | | | |
| Rated voltage | 230 V | 230 V/115 V | 230 V | |
| Rated frequency | 50-60 Hz | | | |
| Rated current | 0.95 A | 0.95 A / 1.9 A | 0.95 A | |
| Rated power input | 190 W | | | |
| Classification | I | | | |
| Environmental conditions | | | | |
| Degree of protection | IP20 | | IP65 / IP68 | |
| Ambient temperature | -20 °C bis +50 °C | | | |

¹ Not to be used with TORMAX LR 22B.BO



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| | | | | |
|--|---|----------------|----------------------------------|-------------------|
| Sliding Door System | TORMAX 2253 | TORMAX 2253.HB | - | - |
| Sliding Door Drive | TORMAX 2203 | TORMAX 2203.HB | TORMAX 2203.UL | TORMAX 2203.HB-UL |
| Application Door type / Profile type | Standard, curved or telescopic sliding doors: TORMAX T2 contour: LR12, LR22B, LR22B.PBO, LR32THERM | | Standard sliding door drives / - | |
| | Standard sliding doors in escape routes with pivot fitting / TORMAX T2 contour escape: LR22B.BO, LR22B.RBO | | | |
| | Third party / additional door leaf systems / profile systems with appropriate stability | | | |
| No. of door leaves | 1, 2, 2 (Telescopic) ,4 (Telescopic) | | | |
| | Number of possible door leaves and door leaf weights | | | |
| EB | 2x120 kg | | | |
| ER / EL | 1x130 kg | | | |
| TB | 4x80 kg | | | |
| TR / TL | 2x80 kg | | | |
| | Velocities | | | |
| Opening movement | 10 – 80 cm/s | | | |
| Closing movement | 10 – 80 cm/s | | | |
| | Control unit | | | |
| Name | MCU42-BDM-F; TID: 504849 | | | |
| Firmware Version | V02.24 | | | |
| Performance Level | c | | | |
| Category | 2 | | | |
| | Electrical ratings | | | |
| No. of motors | 1 | | | |
| Rated voltage | 230 V / 115 V | | | |
| Rated frequency | 50-60 Hz | | | |
| Rated current | 1.1 A / 2.2 A | | | |
| Rated power input | 230 W | | | |
| Classification | I | | | |
| | Environmental conditions | | | |
| Degree of protection | IP20 | | | |
| Ambient temperature | -20 °C bis +50 °C | | | |

Performance:

| Door drives | Endurance EN 16005 Tested cycles |
|---|--|
| 2101 / 2101.IP68 | Min. 1.000.000 cycles at 4000 cycles/day |
| 2203 / 2203.HB / 2203.UL / 2203.HB-UL | Min. 2.000.000 cycles at 4000 cycles/day EB: 2x100kg / EL/ER: 1x120kg / TL/TR: 2x80kg |
| | Min. 1.000.000 cycles at 4000 cycles/day EB: 2x120kg / EL/ER: 1x130kg / TL/TR: 4x80kg |
| Door leave types / Profile types | Endurance EN 16005 Tested cycles |
| T2 contour escape: LR 22B.BO | 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 2151 Sliding Door TORMAX 2151.IP68 Sliding Door TORMAX 2253 Sliding Door TORMAX 2253.HB Sliding Door | |
| 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 2 | Force limitation External safety device |
| 6 | 1 | In escape routes with break out |
| 7 | 1 2 4 | Compliance with the safety distances With finger protection With presence sensor |
| 8 | 2 | -15°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.