



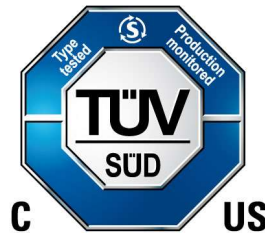
America

CERTIFICATE

No. U8V 015347 0517 Rev. 00

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

Certification Mark:



Product: **Automatic door drives**

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. 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 and Certification Regulations". TÜV SÜD America Inc. is an OSHA recognized NRTL and a Standards Council of Canada accredited Certification body.

Test report no.: 713161883

Date, 2020-12-03

(Benedikt Pulver)



America

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Model(s): TORMAX 1102 Swing Door Drive / TTX 1102
TORMAX 1201 Swing Door Drive

Brand Name: TORMAX

Tested according to: UL 325:2017/R:2020-02
CSA C22.2 no. 247:2014

Production Facility(ies): 090192, 091848

Parameter:

Type:	1102 / TTX 1102	1102 / TTX 1102	1201	1201
Rated voltage:	115 V	230 V	230 V	115 V
Rated frequency:	60 Hz	50 Hz ... 60Hz		60 Hz
Rated power input max.:	210 W		235 W	
Rated current max.:	2.1 A	1.05 A	1.15 A	2.3 A
Protection class:	I			
Degree of protection:	IP20			
Number of door leaves:	1			
Weight of door leaf max.:	125 kg		250 kg	
Width of door leaf max.:	1.2 m		1.4 m	
Moment of inertia max.:	35 kgm ²		65 kgm ²	
Temperature range:	-20 °C ... +50°C			
Performance Level:	c			
Category:	2			
Firmware version:	V04.00			
Classification:				
1 kind of drive	1: Swing door drive			
2 durability	3: 1.000.000 cycles			
3 leaf construction	*)			
4 fire protections door	*)			
5 safety devices	1: Force limitation			
	2: External safety devices, optional			
	3: Low energy, optional			
6 special requirements	0: no special requirements			
7 safety at the door system	*)			
8 ambient temperature	4: manufacturers data -20°C - +50°C			
*) The system installer has to determine the numbers not stated and has to ensure that by that selection the normative requirements are fulfilled. Fire door set properties were not part of this test.				

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT



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Conditions of Acceptability (CoA)

- When installing the equipment, all requirements of the standards and the manufacturer's specifications must be met.
- The product is for building in with doors and external entrapment protections at final installation site.
- External entrapment is not supplied by the manufacturer and shall be connected, installed, setup with the controller at the installation site for correct operation prior to use.
- The maximum investigated branch circuit rating is 20 A.
- The product was investigated for indoor use only.
- The product was investigated for Pollution Degree 2.
- Upon installation the clearance and creepage distance between the hazardous voltage parts and accessible parts shall meet the standards' requirements.
- Evaluated as Protection Class I (earthed equipment). Proper and reliable ground bonding to the main protective earthing terminal is required at final installation.
- This operator is equipped for permanent wiring.
- The operators are to be installed only by trained service personal according to manufacturer installation instructions.
- All installation and setup requirements from the manufacturer shall be followed at the final installation location. Failure to follow these instructions could result in severe injury or death to persons.
- All external labelling, warning signs and placards must be installed where visible in the area of door per manufactures instructions.