Certificate No.
10.03.5383

Date of Issue
22/04/2025

Valid From
22/04/2025

The Certificate is valid until
21/04/2035

EU TYPE-EXAMINATION CERTIFICATE FOR SAFETY COMPONENTS ACCORDING TO EUROPEAN LIFT DIRECTIVE 2014/33/EU ANNEX IV (MODULE B)

Applicant/Certificate Holder (Name & Address):	Suzhou Mona Drive Equipment Co., Ltd. No.66 Changfengdang Road, Lili Town, Wujiang District, Suzhou City, Jiangsu Province, China.
Manufacturer (Name & Address):	Same as applicant
Date of Submission:	14/02/2025
Test Laboratory (Name & Address):	National Elevator Inspection and Testing Center 61 Jinguang Ave., Guangyang District, Langfang, Hebei, P.R. China
Date and Number of test report:	13/04/2025 No. 10.03.5383TR
Description of Product:	Braking device as part of the Unintended Car Movement Protection (UCMP) means and Ascending Car Overspeed Protection (ACOP) means.
Application of product:	Acting on the traction sheave shaft, as part of the protection device against unintended car movement and as part of the ascending car overspeed protection.
Model:	EMM600 (Technical Description Attached) Annex A: Technical Specifications Annex B: Design Drawings
Drawing Number:	M250014037
Standard(s):	EN81-50:2020
Reference Standard(s)	EN81-20:2020

EUROCERT SA, aforementioned notified body with identification number 1128,
ascertains and certifies that above safety component satisfy the safety requirements of the European Directive 2014/33/EU.
The manufacturer is authorized to provide the safety component described above with the CE Mark as displayed below:

CE 1128

Preconditions:
It is required that the above safety equipment must always come with a declaration of conformity and the relevant instructions of use.

On behalf of EUROCERT S.A.,
GEORGE N. SIFAKIOS
Director of International Markets

INSPECTOR
CHAD WANG

The data of this certificate were gathered with every possible thoroughness.
This certificate reflects the findings of the time and place of the audit.
Reproduction of this document is strictly forbidden.
Check the validity of the Certificate by scanning the QR code at right.

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ANNEX A

CERTIFICATE No.: 10.03.5383

TECHNICAL SPECIFICATIONS

Product Model	:	EMM600
Application of Product:	:	Acting on the traction sheave shaft, as part of the protection device against unintended car movement and as part of the ascending car overspeed protection.
Material of Friction Element	:	Asbestos free
Action Method	:	Action when electrical power supply is off
Spring Type and Number	:	Cylindrical helical compression spring (mm): 4.0×14.5×50.0, quantity: 2×9
Inner/ Outer Diameter of Brake Wheel	:	Φ195 / Φ255 (mm)
Nominal Brake Torque	:	2×637.5 (Nm)
Max. Working Airgap	:	0.35 (mm)

1. Braking device as part of the Ascending Car Overspeed Protection (ACOP) Means

Permissible System Total Mass (empty car mass + counterweight e.t.c.)	:	1280 – 10250 (kg)
Permissible Rated Load with Suspension Ratio of 2:1	:	450- 2500 (kg)
Range of Balance Coefficient	:	0.4 – 0.5
Rated Speed	:	0.15 – 2.5 (m/s)
Tripping Speed	:	0.17 – 3.22(m/s)

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2. *Braking device as part of the Unintended Car Movement Protection (UCMP) Means*

Permissible System Total Mass (empty car mass + counterweight e.t.c.)	:	1280 – 10250 (kg)
Permissible Rated Load with Suspension Ratio of 2:1	:	450- 2500 (kg)
Range of Balance Coefficient	:	0.4 – 0.5
Max. Brake Response Time	:	200(ms)
Max. Response time for T10	:	114(ms)
Max. Response time for T90	:	289(ms)

Note:

The suspension ratio of the sample during the type test is 2:1. When used for other suspension ratios, the applicable system mass, rated load and rated speed can be converted according to the actual suspension ratio according to the following formula:

(1) System quality application range = type test system quality range × actual suspension ratio ÷ suspension ratio of type test;

(2) Application range of rated load = rated load range of type test × actual suspension ratio ÷ suspension ratio of type test;

(3) Application range of rated speed = rated speed range of type test ÷ actual suspension ratio × type test suspension ratio.

Conditions:

1) Since the brake device represents only a part of the protection device against overspeed for the car moving in upwards direction an overspeed governor as per EN 81-20, paragraph 5.6.2.2.1 must be used to monitor the upward speed as well as the downward speed and the brake device must be triggered (engaged) via the overspeed governor's electric safety device.
2) Since the brake device represents only a part of the protection device against the unintended car movement. The complete system, apart from the stopping element, also consists of detection element and activation element. These components are subjected to their own type examination. Only the combination of the three parts can create a system which fulfills the requirement for protection against UCM in accordance with EN 81-20 paragraph 5.6.7.
3) The mechanical movement of each brake circuit is to be monitored separately and directly. If a brake circuit fails to engage (close) while the lift machine is at standstill, next movement of the lift must be prevented.
4) In cases where the lift machine moves despite the brake being engaged (closed), the lift machine must at the latest be stopped and the next movement of the lift must be prevented.

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ANNEX B

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DESIGN DRAWINGS

