

EU TYPE EXAMINATION CERTIFICATE

Nr: LDsq08-0607-0134-22

METROPLAST ASANSÖR MALZEMELERİ İMALAT LTD. ŞTİ.

İ.D.O.S.B Tabakhane Cad. No:3 YC-10 Özel Parsel – TUZLA, İSTANBUL, TURKEY

D KARE GÖZETİM TEST VE BELGELENDİRME TİC. LTD. ŞTİ.;

Evaluated and approved that the safety component for lifts manufactured by the company stated above meets the essential health and safety requirements of the Lifts Directive 2014/33/EU Annex I.

2014/33/EU Annex IV/A EU-type examination of safety components for lifts (Module B)

PRODUCT;

Description	: Overspeed Limitation Device according to Annex III clause III of 2014/33/EU
Name	: Overspeed Governor
Trade Mark	: METROPLAST
Type	: MOMENT 250
Type Variants	: Detailed annex of this certificate
Technical Details	: Rated speed :From 0,4 m/s up to 2,50 m/s Max. Tripping speed :From 0,70 m/s up to 3,22 m/s Other specifications are at detailed annex of this certificate

Re-evaluation should be performed by D KARE if any change occur on the design of the types stated in annex of this certificate or any change occur on the relevant harmonised standard.

This certificate is issued according to the findings stated in final report Nr. LDsq08-0606-0134-22 dated 06/06/2022

Inspection and test methods stated in harmonised standards EN 81-20:2020 ve EN 81-50:2020 has been applied during conformity assesment process.

Selcan GÖRMÜŞ

Director



Issue Date : June 08, 2022

Valid to : June 07, 2027



LIFTS-2528-2200102



ANNEX OF EU TYPE EXAMINATION CERTIFICATE

Nr: LDsq08-0607-0134-22

Product Description: Overspeed Limitation Devices – Lifts Directive 2014/33/EU Annex III.

Intended Use:

- ✓ Machine Room (MR) Elevator With pre-triggering coil for UCM(Unintended car movement) type: ; MOMENT 250 I
- ✓ Machine Room (MR) Elevator type: MOMENT 250 II
- ✓ Machine Room (MR) Elevator With pre-triggering coil for UCM(Unintended car movement) and remote control type ; MOMENT 250 III
- ✓ Machine Room-less (MRL) elevator with remote control type: MOMENT 250 MRL I
- ✓ Machine room and machine roomles remote control type: MOMENT 250 MRL II

Maximum and minimum rated speed of elevators for governors: range of 0.40 m/s to 2.5 m/s see the table below (Table 1, Table 2, Table 3)

Running Up Speed of Safety Component : See the table below (Table-1, Table-2, Table-3)

Rope Diameter for governors: 6 mm spiral steel wire rope.

Tensile Forces that measured during test: See the table below (Table-1, Table-2, Table-3)

Tensile Force that determined with calculation ($\mu = 0,09$): See the table below (Table-1, Table-2, Table-3)

Minium Tensile Forces: See the table below (Table-1, Table-2, Table-3)

Safety compenents can be execute these four safety features.

- In case of descending car overspeed, It precipiate safety gear as mechanically and electrically
 - In case of ascending car overspeed, It precipiate safety gear as mechanically and electrically
 - In case of ascending car overspeedfor lifts equipped with ACOP, OSG trigger ACOP electrically.
 - It precipiate the safety gear as mechanically with the help of UCM device when the car perform levelling operation with doors open if uninted car movement has been detected.
- Allowed speeds for overspeed limitation safety device. See the table below (Table-1, Table-2, Table-3)

Type	MOMENT 250 I RG040 MOMENT 250 II RG040 MOMENT 250 III RG040 MOMENT 250 MRL I RG040 MOMENT 250 MRL II RG040	MOMENT 250 I RG050 MOMENT 250 II RG050 MOMENT 250 III RG050 MOMENT 250 MRL I RG050 MOMENT 250 MRL II RG050	MOMENT 250 I RG063 MOMENT 250 II RG063 MOMENT 250 III RG063 MOMENT 250 MRL I RG063 MOMENT 250 MRL II RG063	MOMENT 250 I RG080 MOMENT 250 II RG080 MOMENT 250 III RG080 MOMENT 250 MRL I RG080 MOMENT 250 MRL II RG080
Rated Speed	0,40 m/s (*)	0,50 m/s (*)	0,63 m/s (*)	0,80 m/s (*)
Max. Tripping Speed	0,70 m/s	0,70 m/s	0,85 m/s	1,05 m/s
Diameter of The Pulleys	250 mm	250 mm	250 mm	250 mm
Diameter of The Ropes	6 mm	6 mm	6 mm	6 mm
Rope Properties	spiral steel wire rope	spiral steel wire rope	spiral steel wire rope	spiral steel wire rope
Min. Tensile Force	300 N	300 N	300 N	300 N
Measured Force	>300 N	>300 N	>300 N	>300 N
Electrical safety switch type	GLORIOUS CLS	GLORIOUS CLS	GLORIOUS CLS	GLORIOUS CLS

Table-1 Properties of Overspeed Governer's Types

Type	MOMENT 250 I RG100 MOMENT 250 II RG100 MOMENT 250 III RG100 MOMENT 250 MRL I RG100 MOMENT 250 MRL II RG100	MOMENT 250 I RG120 MOMENT 250 II RG120 MOMENT 250 III RG120 MOMENT 250 MRL I RG120 MOMENT 250 MRL II RG120	MOMENT 250 I RG160 MOMENT 250 II RG160 MOMENT 250 III RG160 MOMENT 250 MRL I RG160 MOMENT 250 MRL II RG160
Rated Speed	1,00 m/s	1,20 m/s	1,60 m/s
Max. Tripping Speed	1,50 m/s	1,71 m/s	2,16 m/s
Diameter of The Pulleys	250 mm	250 mm	250 mm
Diameter of The Ropes	6 mm	6 mm	6 mm
Rope Properties	spiral steel wire rope	spiral steel wire rope	spiral steel wire rope
Min. Tensile Force	300 N	300 N	300 N
Measured Force	>300 N	>300 N	>300 N
Electrical safety switch type	GLORIOUS CLS	GLORIOUS CLS	GLORIOUS CLS

Table-2 Properties of Overspeed Governor's Types

Type	MOMENT 250 I RG175 MOMENT 250 II RG175 MOMENT 250 III RG175 MOMENT 250 MRL I RG175 MOMENT 250 MRL II RG175	MOMENT 250 I RG200 MOMENT 250 II RG200 MOMENT 250 III RG200 MOMENT 250 MRL I RG200 MOMENT 250 MRL II RG200	MOMENT 250 I RG250 MOMENT 250 II RG250 MOMENT 250 III RG250 MOMENT 250 MRL I RG250 MOMENT 250 MRL II RG250
Rated Speed	1,75 m/s	2,00 m/s	2,50 m/s
Max. Tripping Speed	2,33 m/s	2,62 m/s	3,22 m/s
Diameter of The Pulleys	250 mm	250 mm	250 mm
Diameter of The Ropes	6 mm	6 mm	6 mm
Rope Properties	spiral steel wire rope	spiral steel wire rope	spiral steel wire rope
Min. Tensile Force	300 N	300 N	300 N
Measured Force	>300 N	>300 N	>300 N
Electrical safety switch type	GLORIOUS CLS	GLORIOUS CLS	GLORIOUS CLS

Table-3 Properties of Overspeed Governor's Types

(*) The specified values are based on the use of progressive safety gear, 1.50 m/s in the case of the use of progressive safety gear, 1.00 m/s in the case of the use of roller-type safety gear in the case of the use of instantaneous braking type safety gear should be limited to 0.80 m/s

- Usage as part of a protection device unintended car movement (UCM).
Using without detection system (activation for every start up*)

In case of car doors has been opened at all landings UCM coil that located on overspeed governor has locked the governor and protect this situation until door closed. The coil keeps governor in locked position and safety gear can stop the car in case of unintended car movement when doors open. For execute completely function of UCM , lift should be equipped with a safety gear that has been already approved as stopping device of UCM.

Minimum Possible Reaction Time* :250mm

* Reaction Distance : 250mm Max. The distance at which the lift can move away from the descending position after the restraining device has been activated, resulting from delay and/or other distance losses in the overspeed governor until the tensile force is established.

Terms and Conditions

- Safety component that specified above is only part of ascending overspeed car and overspeed protection system for unintended car movement. It can be work coordinately with safety gear as a system, this system can be perform the requirements and It must be limited only own Type Examination
- Speed monitoring system of Overspeed Protection device which has type examination has been stamp after calibrate by manufacturer, Remove te stamp except for manufacturer is prevent safe usage of compenent.
- Safety component should be placed on the market with an EU Declaration of Conformity and user manual.
- These safety compenent also can use for Counter-weight with allowable speed range which specified in this certificate.
- EU Type Examination must be update if approved drawings revised and/or In case of using differrent electrical switch except of stated switch. EU Type Examination cerificate can be use for allowable products that the informations has given in this annex
- Placing on the market of the product and notified body number's usage with CE marking must do with choosing one of the methods that be stated on 2014/33/EU Lift Directive Article 18 paragraph 1.

CEM ÇELİK

Technical Regulation Chief

Issue Date : June 08, 2022

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