

ANNEX OF EU TYPE EXAMINATION CERTIFICATE

Nr: LDsq08-0724-0035-20

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

Intended Use:

- ✓ Machine Room-less Elevator (MKL-MD-1, MKL-MD-2, MKL-MD-3, MKL-MD-4, MKL-MD-5, MKL-MD-6, MKL-MD-7 Models - Types for MRL)
- ✓ Machine Room Elevator (MKL-CH-1, MKL-CH-2, MKL-CH-3, MKL-CH-4, MKL-CH-5, MKL-CH-6, MKL-CH-7 Models – Types for MR)
- ✓ Machine Room – With pre-triggering coil for UCM(Unintended car movement). (MKL-A3-1, MKL-A3-2, MKL-A3-3, MKL-A3-4, MKL-A3-5, MKL-A3-6, MKL-A3-7 Models – Types for MR)

Maximum and minimum rated speed of elevators for governors: range of 0.63 m/s to 2.5 m/s see the table below (Table 1, Table 2, Table 3)

Product Types: OSG with UCM Coil, OSG without UCM coil, OSG with remote testing coil, OSG without remote testing coil.

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 components 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	MKL-A3-1	MKL-A3-2	MKL-A3-3	MKL-A3-4	MKL-A3-5	MKL-A3-6	MKL-A3-7
Rated Speed	0,63 m/s	0,80 m/s	1,00 m/s	1,20 m/s	1,60 m/s	2,00 m/s	2,50 m/s
Max. Tripping Speed	0,95 m/s	1,20 m/s	1,50 m/s	1,70 m/s	2,15 m/s	2,60 m/s	3,22 m/s
Diameter of The Pulleys	320 mm	320 mm	320 mm	320 mm	320 mm	320 mm	320 mm
Diameter of The Ropes	6 mm	6 mm	6 mm	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	spiral steel wire rope	spiral steel wire rope	spiral steel wire rope
Min. Tensile Force	300 N	300 N	300 N	300 N	300 N	300 N	300 N
Measured Force	>300 N	>300 N	>300 N	>300 N	>300 N	>300 N	>300 N

Electrical safety switch type	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100
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Table-1 Properties of Overspeed Governor's Types

Type	MKL-MD-1	MKL-MD-2	MKL-MD-3	MKL-MD-4	MKL-MD-5	MKL-MD-6	MKL-MD-7
Rated Speed	0,63 m/s	0,80 m/s	1,00 m/s	1,20 m/s	1,60 m/s	2,00 m/s	2,50 m/s
Max. Tripping Speed	0,95 m/s	1,20 m/s	1,50 m/s	1,70 m/s	2,15 m/s	2,60 m/s	3,22 m/s
Diameter of The Pulleys	320 mm	320 mm	320 mm	320 mm	320 mm	320 mm	320 mm
Diameter of The Ropes	6 mm	6 mm	6 mm	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	spiral steel wire rope	spiral steel wire rope	spiral steel wire rope
Min. Tensile Force	300 N	300 N	300 N	300 N	300 N	300 N	300 N
Measured Force	>300 N	>300 N	>300 N	>300 N	>300 N	>300 N	>300 N
Electrical safety switch type	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100

Table-2 Properties of Overspeed Governor's Types

Type	MKL-CH-1	MKL-CH-2	MKL-CH-3	MKL-CH-4	MKL-CH-5	MKL-CH-6	MKL-CH-7
Rated Speed	0,63 m/s	0,80 m/s	1,00 m/s	1,20 m/s	1,60 m/s	2,00 m/s	2,50 m/s
Max. Tripping Speed	0,95 m/s	1,20 m/s	1,50 m/s	1,70 m/s	2,15 m/s	2,60 m/s	3,22 m/s
Diameter of The Pulleys	320 mm	320 mm	320 mm	320 mm	320 mm	320 mm	320 mm
Diameter of The Ropes	6 mm	6 mm	6 mm	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	spiral steel wire rope	spiral steel wire rope	spiral steel wire rope
Min. Tensile Force	300 N	300 N	300 N	300 N	300 N	300 N	300 N
Measured Force	>300 N	>300 N	>300 N	>300 N	>300 N	>300 N	>300 N
Electrical safety switch type	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100	MOMENTUM MLP 25212, MOMENTUM 25100

Table-3 Properties of Overspeed Governor's Types

- 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.

Terms and Conditions

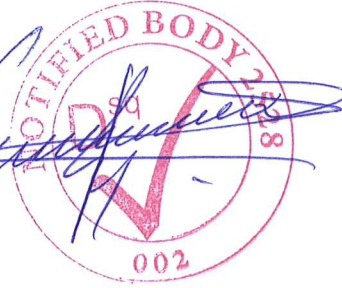
- Safety component that specified above is only part of ascending overspeed car and overspeed protection system for unintended car movement. It can be work coordinately with safety gear as a system, this system can be perform the requirements and It must be limited only own Type Examination
- Speed monitoring system of Overspeed Protection device which has type examination has been stamp after calibrate by manufacturer, Remove te stamp except for manufacterer 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

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A – Product Drawings

