



No: ETC18F350YZ036

Special Equipment Type Test Report (Lifts)

Classification : Safety device

Varieties : Ascending car overspeed protection means

Product name : Ascending car overspeed protection means

Product model : MEKB

Manufacturer : ZheJiang MATO Drive Equipment Co.,Ltd.

Applicant : ZheJiang MATO Drive Equipment Co.,Ltd.

Category of test : First verification

Test date : 2018-06-08

Shanghai Jiao Tong University
Elevator Test Center



NOTICE

- 1、 The report is the result of the type test according to the “Regulation for type test of elevators”(TSG T7007-2016).
- 2、 The report is printed by computer and will be invalid with any modification.
- 3、 The report will be invalid without the signature of approve、 verify and compile person .It will also be invalid without the certification number、 the official and cross-page stamp of the testing unit.
- 4、 In the entrusted test, we are only responsible for the sample.
- 5、 It is forbidden to copy the report partly without the permission of the testing unit. The partly copied report will be invalid.
- 6、 Any dissent to the report must be put forward to the testing unit within 15 working days from receiving it, otherwise, it is considered that you have accepted the report.
- 7、 The sample will not be handed back because of normal wear, the others will be dealt with according to the regulation concerned.
- 8、 One of the quadruplicated reports is saved by the testing unit,the other three are saved by the applicant.
- 9、 Information for contacting to the testing unit:

Shanghai Jiao Tong University Elevator Test Center

**Room 210, No.B of Advanced manufacture Building, School of
Mechanical Engineering, No.800 of Dongchuan Road, Shanghai, P.R.
China**

Tel: 86-21-34207035/34207036

Fax: 86-21-34207035/34207036-814

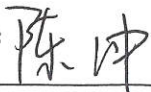

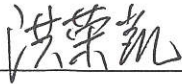



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Type Tests Report

No: ETC18F350YZ036

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Classification	Safety device	Varieties	Ascending car overspeed protection means
Product name	Ascending car overspeed protection means	Product model	MEKB
Product number	M051700989	Date of manufacturing	2018-03-15
Applicable product models	/		
Applicant	ZheJiang MATO Drive Equipment Co.,Ltd.		
Registered address of applicant	workshops 1#, building 3, No.2688 West Nianfeng Road, Nanxun District, Huzhou City, Zhejiang Province		
Manufacturer	ZheJiang MATO Drive Equipment Co.,Ltd.		
Registered address of manufacturer	workshops 1#, building 3, No.2688 West Nianfeng Road, Nanxun District, Huzhou City, Zhejiang Province		
Manufacturing address	workshops 1#, building 3, No.2688 West Nianfeng Road, Nanxun District, Huzhou City, Zhejiang Province		
Location of test	Shanghai Jiao Tong University Elevator Test Center		
Status of sample	OK	Test date	2018-06-08
Test conditions	OK	Category of test	First verification
Codes or rules compliant	TSG T7007-2016,GB7588-2003+XG1-2015,EN 81-20:2014,EN 81-50:2014		
Test conclusion	Tests passed		
Experimenter: 	Date: 20180608	Approved certificate serial number: TS7610022-2021 Shanghai Jiao Tong University Elevator Test Center  Date of issue: 2018-06-08	
Verifier: 	Date: 2018-06-08		
Approver: 	Date: 2018-06-08		

**1、 Main technical parameters and configurations**

Applied environment		Indoors	Explosion-proof type	/
Range of system mass permitted		1350~3600(kg)	Range of rated load	320~1050(kg)
Style		Traction machine brake	Range of weight of car	550~1500(kg)
Range of balance coefficient		0.4~0.5	Test traction ratio	2:1
The speed range of the brake member during operation		/	Use of balance Chain or rope	Can be used
Speed reducing elements	Name	Overspeed governor	Model	/
	Rated speed	≤2.5m/s	Acted speed	≤3.55m/s
Rope gripper	Model	/	Acted position	/
	Elastic element type	/	Elastic component specifications	/
	Tripping method	/	Released method	/
	Friction element shape	/	Friction element material	/
	Style of rope and applied standard	/	Number of ropes	/
Safety gear installed in car or counterweight	Name	/	Model	/
	Type	/	Material of guide	/
	Pulling way	/	Elastic element type	/
	Clamping (brake) element type	/	Material of clamping (braking) elements	/
	Number of clamping (braking) elements	/	Friction surface dimensions of clamping (braking) elements	/
	Hardness of guide rails' surface(HB)	/	Width of guide rails' guiding surface (mm)	/
	Processing method of the guide rails' surface	/	Condition of the guide rails' surface	/
Brakes acted on the traction sheave	Model	MEKB	Structure	Block
	Acted position	On the shaft of the traction sheave	Number	2
	Friction element material	Asbestos-free carbon fibers MTA469C1	Tripping method	Act in the event of supply loss
	Elastic element type	Cylindrical coil spring	Diameter of brake wheel	Φ500mm

**2、 Technical documents review of the example**

No.	Item number	Items	Results	Conclusion
1	Q5.1	Copies of certificates or test reports	Pass	Ok
2	Q5.2	Technical Parameters	Pass	Ok
3	Q5.3	Main design pattern	Pass	Ok
4	--	Applicable product technical information	Inapplicability	/

3、 Reviews for technical documents of the sample

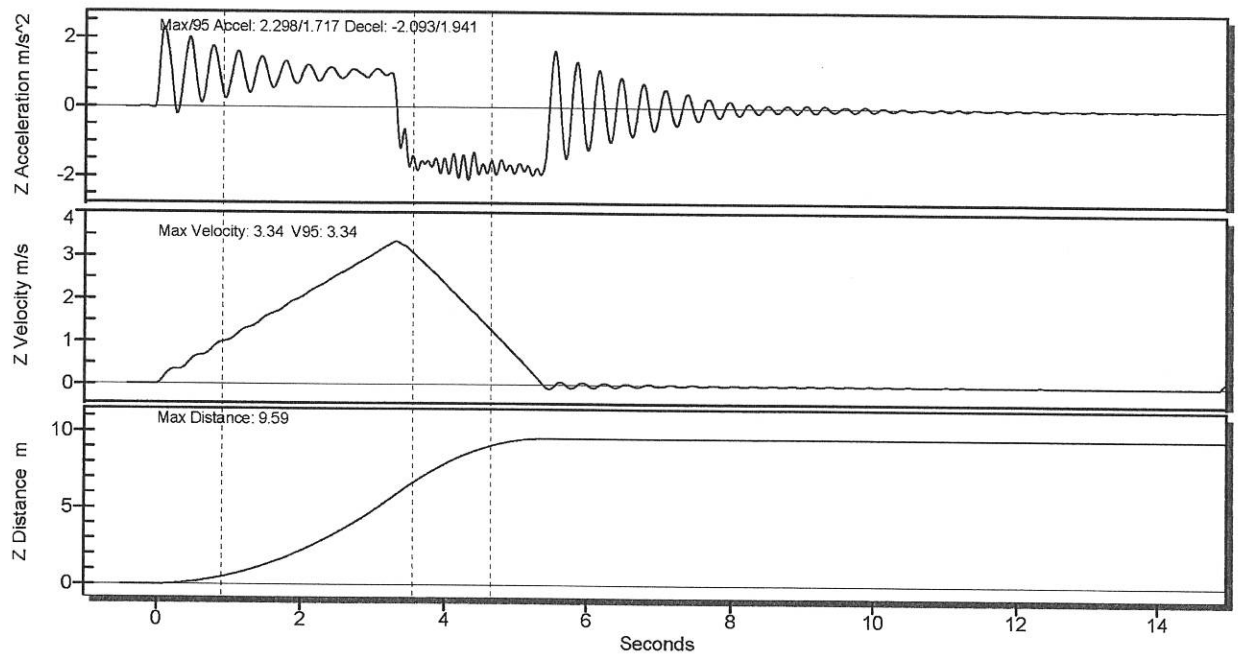
No.	Item number	Items	Results	Conclusion
1	Q6.1	Acted position	On the shaft of the traction sheave	Ok
2	Q6.2.1	Stop test	Pass	Ok
3	Q6.3	External energy to operate	Pass	Ok
4	Q6.4	Electric safety device	Pass	Ok
5	Q6.5	Release after tests	Pass	Ok
6	Q6.6	Tripping method	Electrical trigger	/
7	Q6.7	Released method	Automatic reset	/
8	Q6.8	Tripping force(N)	Electrical trigger	/
9	Q6.9	Tripping distance(mm)	Electrical trigger	/
10	Q6.10	Nameplate	Pass	Ok

Annex

1.Data plot

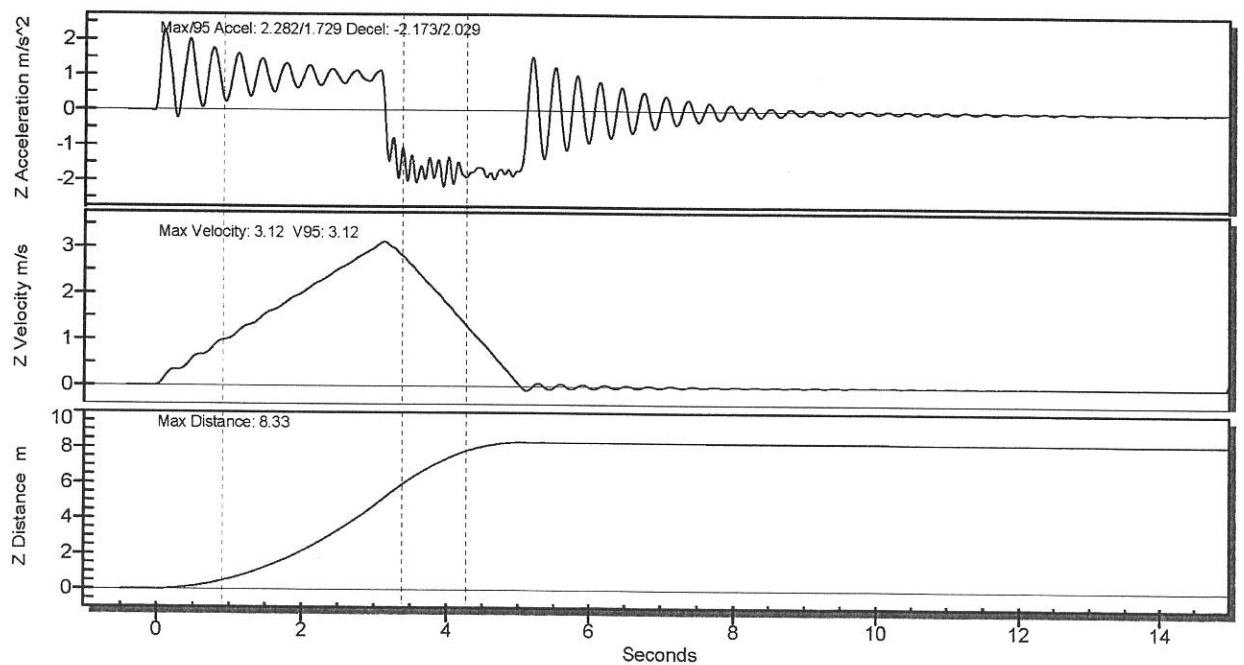
Plot of deceleration for the 1st free fall test

(Traction ratio 2:1, car mass 1500kg, counterweight 2000kg corresponding rated load 1050kg and rated speed 2.5m/s)



Plot of deceleration for the 2nd free fall test

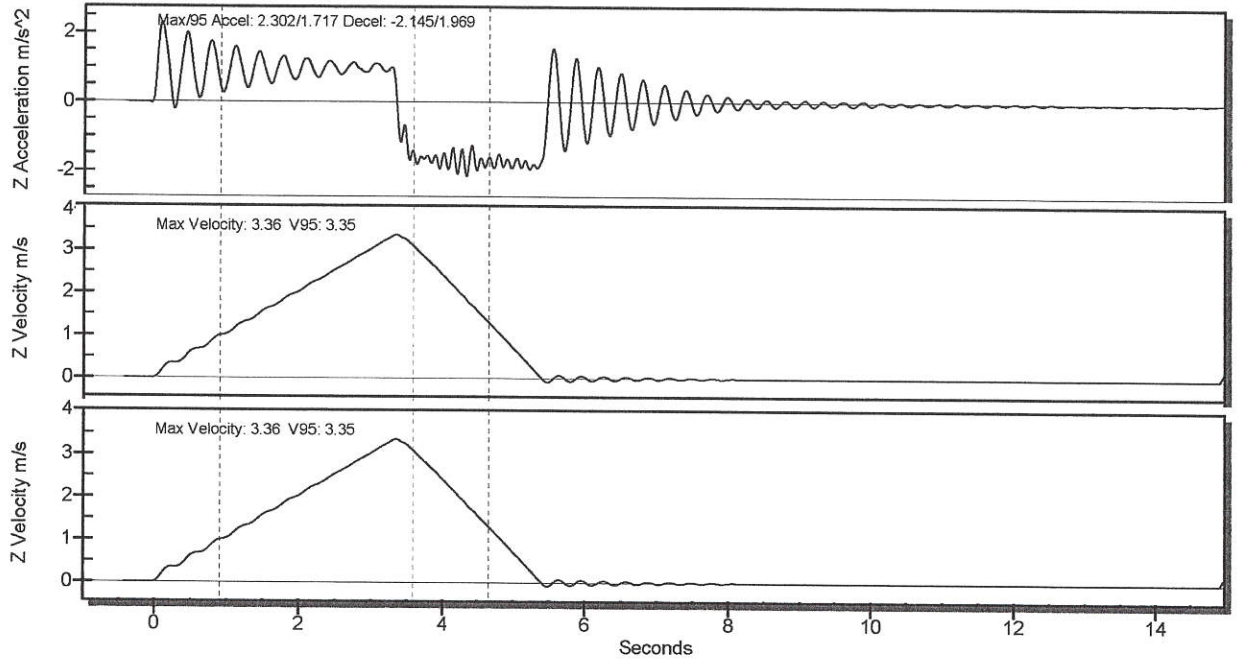
(Traction ratio 2:1, car mass 1500kg, counterweight 2000kg corresponding rated load 1050kg and rated speed 2.5m/s)





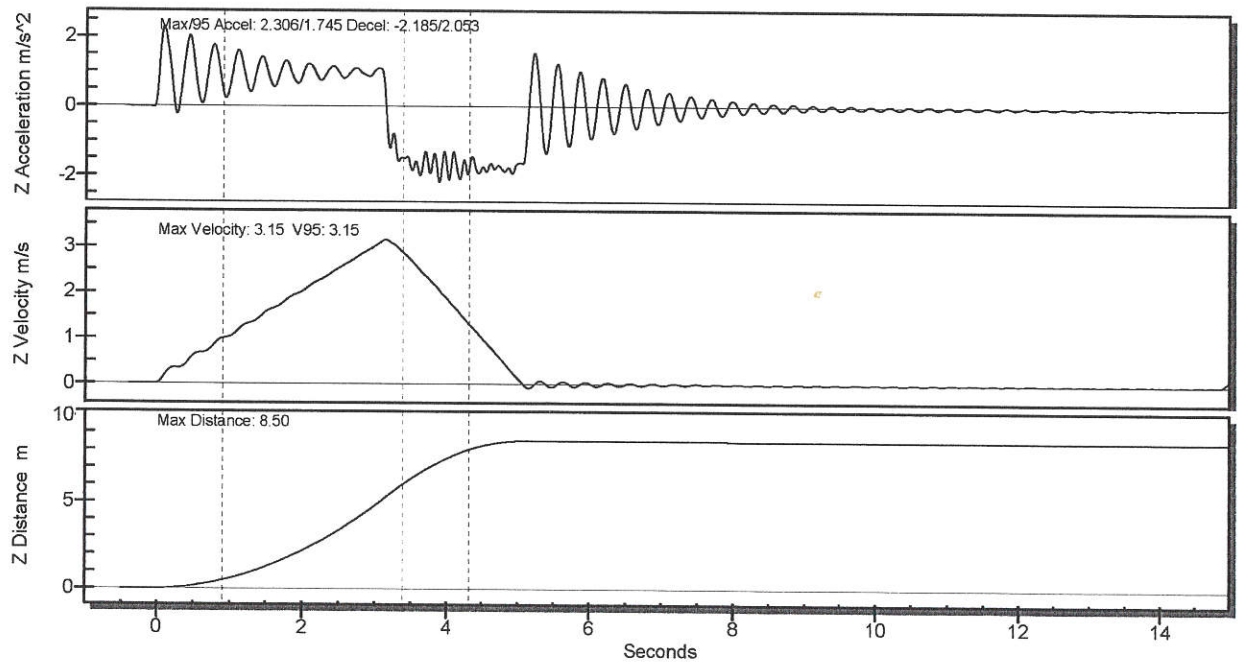
Plot of deceleration for the 3rd free fall test

(Traction ratio 2:1, car mass 1500kg, counterweight 2000kg corresponding rated load 1050kg and rated speed 2.5m/s)



Plot of deceleration for the 4th free fall test

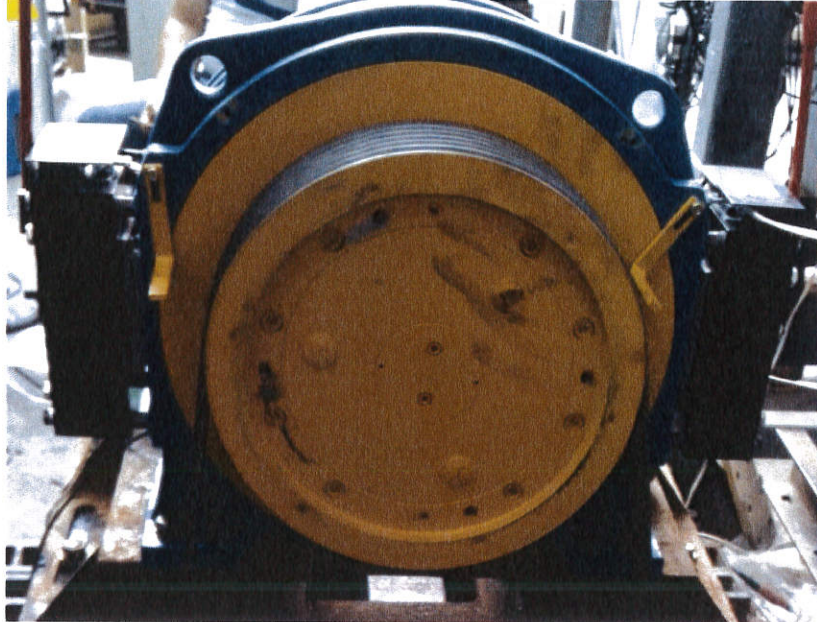
(Traction ratio 2:1, car mass 1500kg, counterweight 2000kg corresponding rated load 1050kg and rated speed 2.5m/s)



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2. Photograph of the sample



3. Note:

3.1 The system mass includes not only the mass of the car and the counterweight, but also the mass of traction rope, compensation chain /rope and traveling cable. In the test, their total mass are 100kg.

3.2 The figures of displacement and velocity, not responses of direct tests, are the results of deceleration's integral.

3.3 This type is a consistency verification, selected the rules of elevator type test(TSG T7007-2016).The provisions of part of the project were tested.

5. Explanation of modification: No.