



عمران مدرن
بازار نوین ارتباطات ساختمانی

نصب آسانسور و تهیه کلیه قطعات

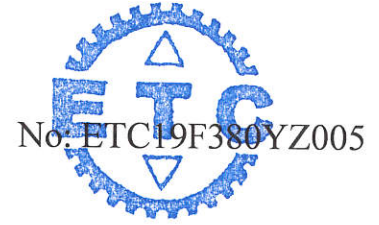
سراسر کشور



با قیمت استثنایی و اکیپ متخصص

برای مشاوره رایگان تماس بگیرید

02162999675



Special Equipment Type Test Report (Lifts)

Classification : Safety device
Varieties : Unintended car movement protection means
Product name : Unintended car movement protection means(Subsystem of stopping)
Product model : MEKB
Manufacturer : ZheJiang MATO Drive Equipment Co.,Ltd.
Applicant : ZheJiang MATO Drive Equipment Co.,Ltd.
Category of test : First verification
Test date : 2019-04-03

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、 The contact addresses of Shanghai Jiaotong University Elevator Test Center are as follows:

(1)Dongchuan Road Test Base

**Room B210, School of Mechanical Engineering, Shanghai Jiaotong University
No.800, Dongchuan Road, Minhang District, Shanghai, P.R. China**

Tel: +86-21-34207035/34207036

Fax: +86-21-34207035/34207036-814

Zip code: 200240

(2) Jindu Road Test Base

Room 1001, Comprehensive Building, South Urban Park

No.123, lane 1165, Jindu Road, Minhang District, Shanghai, P.R. China

Tel : +86-21-61267037

Fax : +86-21-61267037 to 812

Zip code: 201108



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Type Tests Report

No: ETC19F380YZ005

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Classification	Safety device	Varieties	Unintended car movement protection means
Product name	Unintended car movement protection means(Subsystem of stopping)	Product type	MEKB
Serial number	M5A18000358R	Date of manufacture completion	2018-11-05
Applicable product types	/		
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		
Address of manufacturing	workshops 1#, building 3, No.2688 West Nianfeng Road, Nanxun District, Huzhou City, Zhejiang Province		
Testing address	Shanghai Jiao Tong University Elevator Test Center		
Status of sample	OK	Test date	2019-04-03
Test conditions	OK	Test items	First verification
Test rules	TSG T7007-2016,GB7588-2003+XG1-2015、 EN 81-20:2014、 EN 81-50:2014		
Test conclusion	Tests passed		
Experimenter: 陈冲	Date: 2019-04-23	Approved certificate serial number: TS7610022-2021  Shanghai Jiao Tong University Elevator Test Center Date of issue: 2019-04-23	
Verifier: 洪荣凯	Date: 2019-04-23		
Approver: 张羽	Date: 2019-04-23		



1、 Main technical parameter and configuration

Applied environment		Indoors		Explosion-proof type		/					
System composition				Synchronous motor brake							
Subsystem of stopping	Scope of application	Range of system mass permitted		1350~3600(kg)		Range of rated load		320-1050(kg)			
		Range of balance coefficient		0.4~0.5		Range of weight of car		550~1500(kg)			
		Highest speed anticipated before deceleration occurs						1.84~2.40 (m/s)			
		Test traction ratio						2:1			
		Test-speed with relevant for Final Inspection use			≤ 0.50m/s		Verification distance of test-speed			≤0.5m	
		Name of stopping element		Synchronous motor brake		Driving mode		Traction			
		Acting position of stopping element				On the shaft of the traction sheave					
		Action method				Stopping when power supply loss					
		Response time		≤138ms		Maximum average retardation		2.5m/s ²			
		Actuator	Name		/		Type		/		
	Hardware model and version		/		Software model and version		/				
	Main component of hardware		/		Action method		/				
	Rated power		/		Working voltage		/				
	Synchronous motor brake	Name		Brake		Type		MEKB			
Manufacturer		ZheJiang MATO Drive Equipment Co.,Ltd.									
Type of structure		Block		Quantity		2					
Material of friction element		Asbestos-free carbon fibers		Type of elastic element		Compressed cylindrical helical spring					
Length of brake arm		/ m		Leverage ratio		/					
Diameter of brake wheel			Φ500mm		Spring of brake& quantity		Φ9.7×6×40 10 pieces				

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

No.	Item number	Review item	Result	Conclusion
1	T5.1	Copies of certificates or test reports	Pass	Ok
2	T5.2	Technical documents	Pass	Ok
3	T5.3	Design documents in covered scope	Pass	Ok
4	--	Any other necessary	Inapplicability	/

3、 Examines and tests of the example

No.	Item number	Review item	Result	Conclusion
1	T6.1.1	Subsystem of stopping(Single mass or torque)	Pass	Ok
2	T6.1.2	Subsystem of stopping(Differentmass or torque)	Inapplicability	/
3	T6.1.3	Brake test	Pass	Ok
4	T6.1.4	Distance of test speed	Pass	Ok
5	T6.2	Subsystem of detection	Inapplicability	/
6	T6.3	Subsystem of self monitoring	Inapplicability	/
7	T6.4	Nameplate	Pass	Ok



Annex

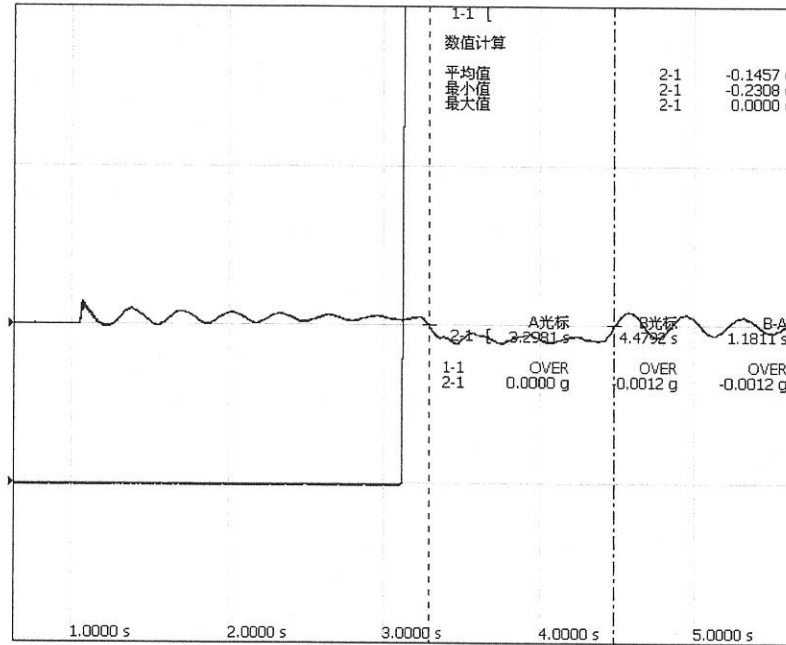
1.Data Sheet

Condition	Free fall acceleration (m/s ²)		Average deceleration (m/s ²)		Max deceleration (m/s ²)	Max speed (m/s)	Response time of braking element (ms)		Total distance travelled (mm)		
	Measurement	Average a ₂	Measurement	Average a ₃			Measurement	Average t ₂	Measurement	Average	Deviation (%)
Min mass: No load	/	/	/	/	/	/	/	/	/	/	/
	/		/		/	/	/				
	/		/		/	/	/				
	/		/		/	/	/				
	/		/		/	/	/				
Min mass: Full load	/	/	/	/	/	/	/	/	/	/	/
	/		/		/	/	/				
	/		/		/	/	/				
	/		/		/	/	/				
	/		/		/	/	/				
Max mass: No load	0.78	0.78	1.43	1.35	2.26	1.61	138	138	997	993	0.44
	0.78		1.38		2.12	1.61	138		998		0.55
	0.78		1.34		2.11	1.61	138		993		0.05
	0.78		1.33		2.16	1.61	138		980		-1.27
	0.78		1.29		2.10	1.61	138		995		0.23
Max mass: Full load	/	/	/	/	/	/	/	/	/	/	/
	/		/		/	/	/				
	/		/		/	/	/				
	/		/		/	/	/				
	/		/		/	/	/				
Test -speed	/	/	/	/	/	/	/	/	/	/	/
	/		/		/	/	/				
	/		/		/	/	/				

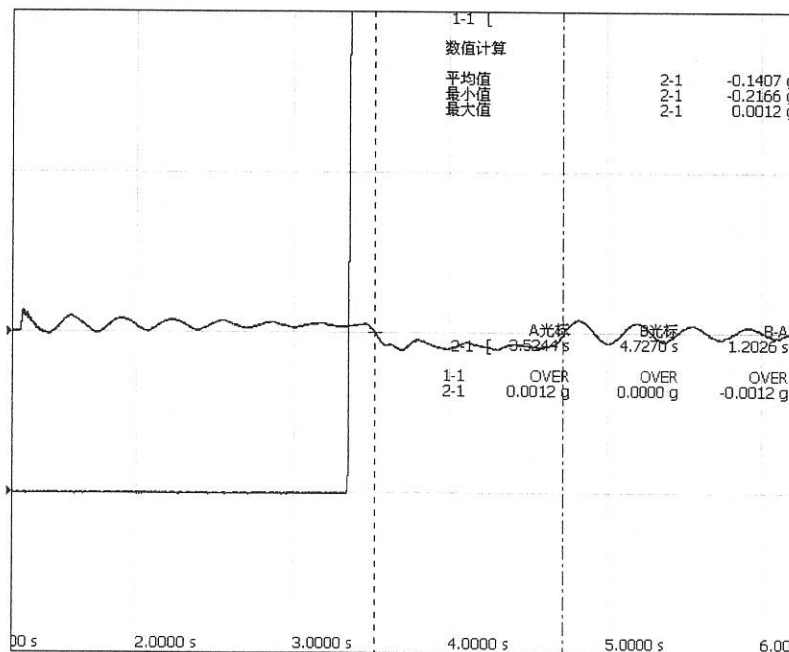


2. Test curve

2.1 Traction ratio 2:1, System mass 3600kg, car mass 1500kg, counterweight 2000kg, corresponding rated load 1050kg, No load 1st:

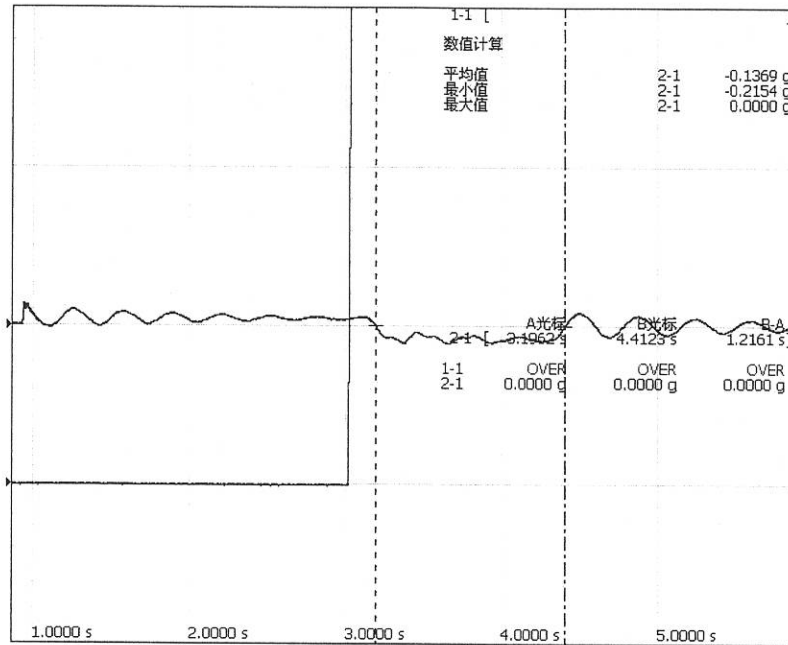


2.2 Traction ratio 2:1, System mass 3600kg, car mass 1500kg, counterweight 2000kg, corresponding rated load 1050kg, No load 2nd:

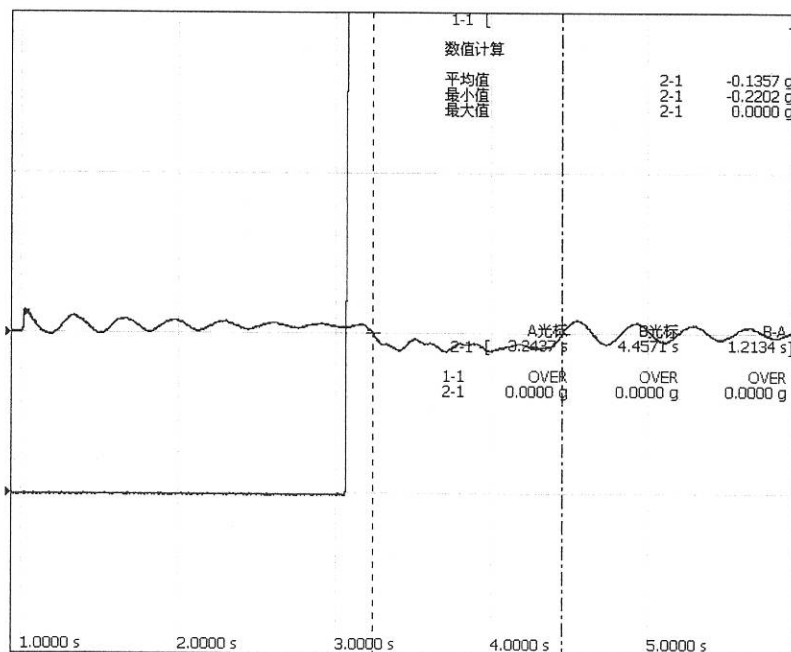




2.3 Traction ratio 2:1, System mass 3600kg, car mass 1500kg, counterweight 2000kg, corresponding rated load 1050kg, No load 3rd:



2.4 Traction ratio 2:1, System mass 3600kg, car mass 1500kg, counterweight 2000kg, corresponding rated load 1050kg, No load 4th:





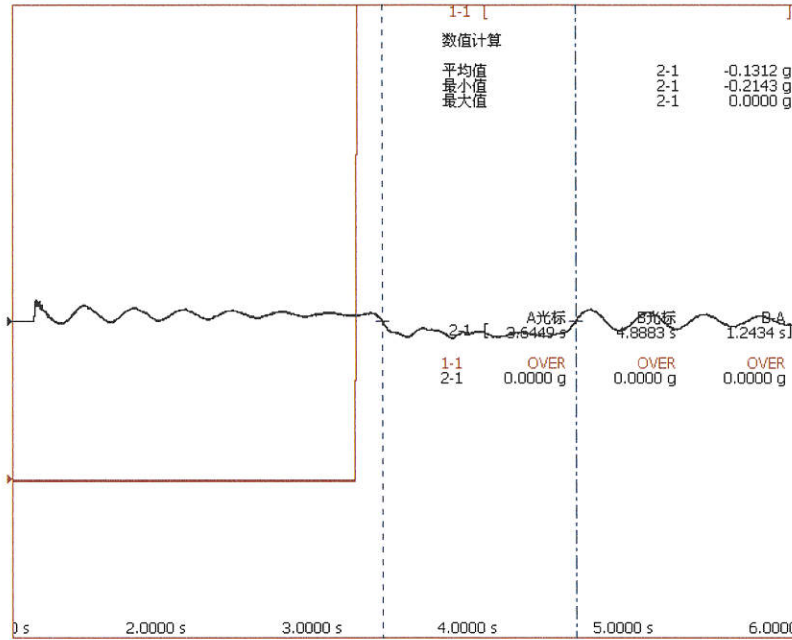
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Type Tests Report

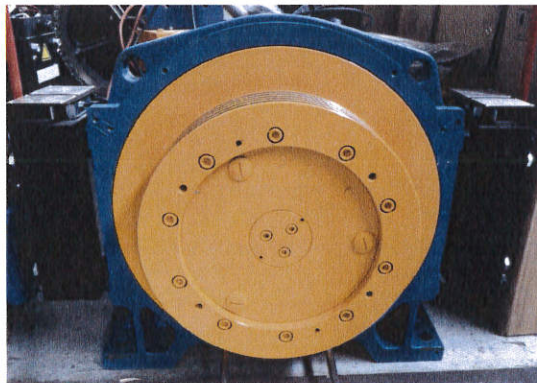
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2.5 Traction ratio 2:1, System mass 3600kg, car mass 1500kg, counterweight 2000kg, corresponding rated load 1050kg, No load 5th:



3. Photograph of the sample



4. Note:

4.1 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.

4.2 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.