TYPE-EXAMINATION REPORT

Report No.2012AF0747 Page 1 of 5

Name of production Lift According to European Safety Rules

Model/Type EC-4026EF-100

Client Shenyang Bluelight Drive Technology Co.,Ltd.

Manufacturer Shenyang Bluelight Drive Technology Co.,Ltd.

SHENZHEN INSTITUTE OF SPECIAL EQUIPMENT INSPECTION AND TEST
GUANGDONG STATION OF ELEVATOR QUALITY SUPERVISION AND TEST

Name	Lift Ascending Car Overspeed Protection Means		
Type Code	EC-4026EF-100		
Sample No.	20120638	Date of manufacture	/
Reducing manner	Braking the shaft	Product No.	/
Type test suspension ratio	1:1	Speed monitoring unit	Overspeed governor
Balance factor	0.4-0.5	Tripping manner	electrical
Reset means	electrical	/	/
Type test suspension ratio 1:1			
Rated speed(m/s)	0.5-8.0	Tripping speed(m/s)	0.575-9.2
Rated load (kg)	1000-4000	Car-side mass(kg)	2800-4020
Counterweight-side mass(kg)	3300-6020	Permissible mass(P+W) (kg)	6100-10040
Explanation	Car-side mass is sum of car mass without any load and mass of some of additional mass at the same side. Counterweight side mass is sum of counterweight mass and mass of some of additional mass at the same side. Additional mass is sum of the mass of accompanied cable, ropes and compensation chains etc.		
Client	Name	Shenyang Bluelight Drive Technology Co.,Ltd.	
	Address	No.37 Shiji Road,Hunnan New Distrct,Shenyang,China	
Manufacturer	Name	Shenyang Bluelight Drive Technology Co.,Ltd.	
	Address	No.37 Shiji Road,Hunnan New Distrct,Shenyang,China	
Place of inspection	Shenyang Alpha Lift Co.,Ltd.	Sample condition	Normal
Date of inspection	2012-12-22	Type of inspection	Type-Examination
Condition of inspection	Temperature: 8.8℃, humidity: 44%RH	Inspection item	All suitable item.
Standard for inspection	TSG T7001-2005 Regulation for Type Tests of Elevators & Rules for the construction and installation of electric lifts (eqv. EN81-1:1998)		
Conclusion	By the Type-Examination, the product is confirmed to be in accordance with TSG T7001-2005 Regulation for Type Tests of Elevators & for the construction and installation of electric lifts (eqv. EN81-1:1998).		

(stamp)

Date of issued: 2012-12-26

Inspector: Approved by: Reviewed by:

1 Test Result

No.	Item No.	Item Description	Inspection result	Conclusion
1	1.1	The compose model of the ascending car overspeed protection means	overspeed governor + brake device	passed
2	1.2	The position where the deceleration element to grip	Braking the shaft	passed
3	2	The tripping speed of the speed monitoring unit	0.575m/s-9.2m/s	passed
4	3.1	The structure of the ascending car overspeed protection means	meet the requirement	passed
5		a. Check braking function	meet the requirement	passed

Explain: governor of the sample elevator.

2 Test data

2.1 Brake device should be tested four times with the rated speed 0.5m/s rated lo
(P+W)= 6100kg.

4	0.71	0.406	0.456	63

2.2 Brake device should be tested one time with the rated speed 4.0m/s, rated load 1250kg, (P+W)=

Test No.	The maximum tripping speed (m/s)	The average deceleration (g_n)	The maximum deceleration (g_n)	The braking distance(m)
1	5.62	0.251	0.286	7.64

2.3 Brake device should be tested four times with the rated speed 0.7m/s, rated load 4000kg, (P+W)=100040 kg.

Test No.	The maximum tripping speed (m/s)	The average deceleration (g_n)	The maximum deceleration (g_n)	The braking distance(m)
1	9.0	0.120	0.143	45.23
2	9.0	0.115	0.135	45.07
3	9.7	0.114	0.167	49.87
4	9.1	0.096	0.135	47.82

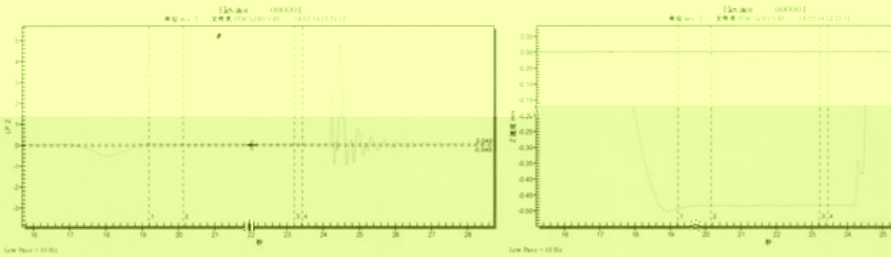
2.4 The car could be stopped after brake device has been released.

3 Test Graphs

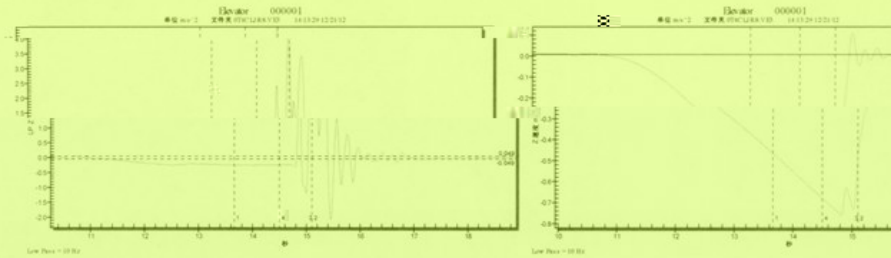
3.1 Brake device should be tested four times with the rated speed 0.7m/s, rated load 1

(P+W)= 6100kg.

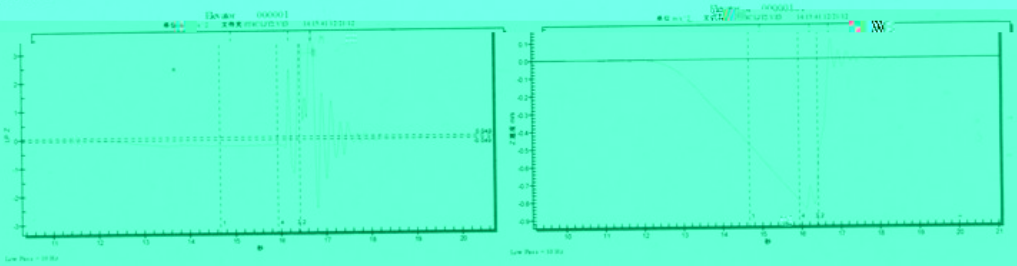
The first time



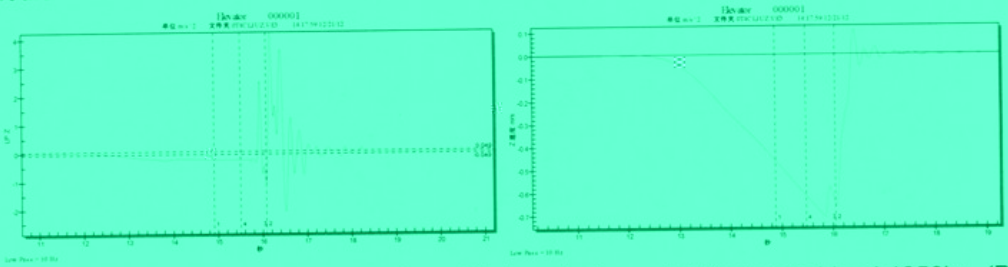
The second time



The third time

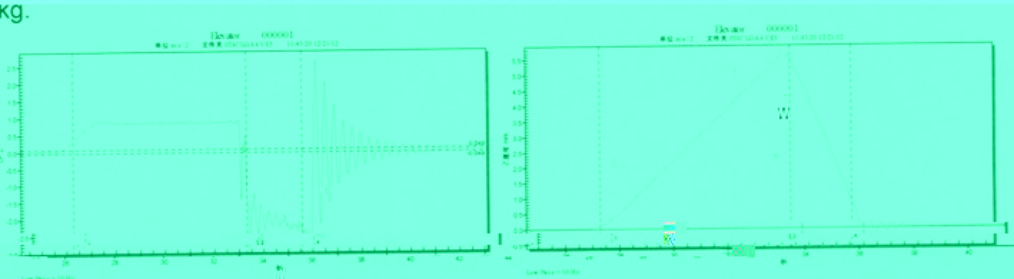


The fourth time



3.2 Brake device should be tested one time with the rated speed 40m/s rated load 1250kg (P+W)

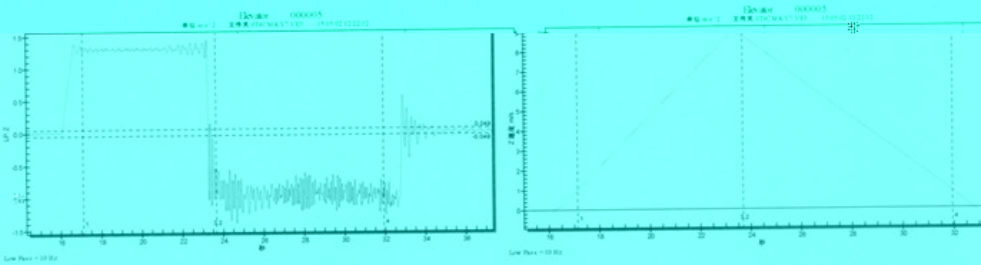
4000kg.



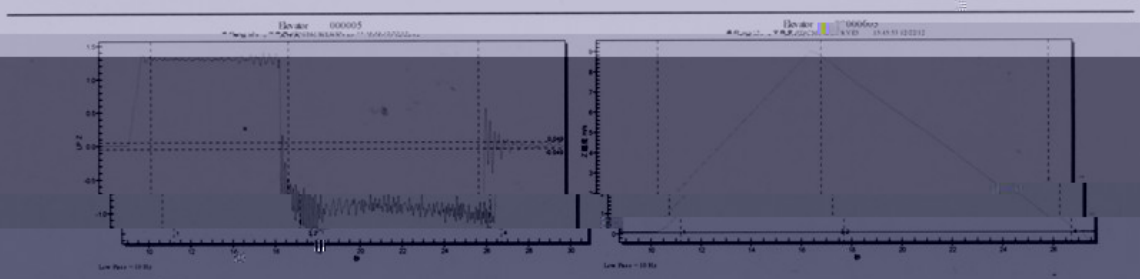
3.3 Brake device should be tested for two times with the rated speed 40m/s rated load 4000kg

(P+W)=4000+40 kg.

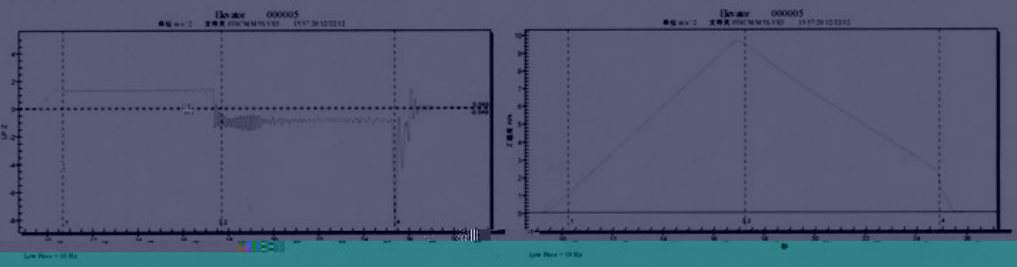
The first time



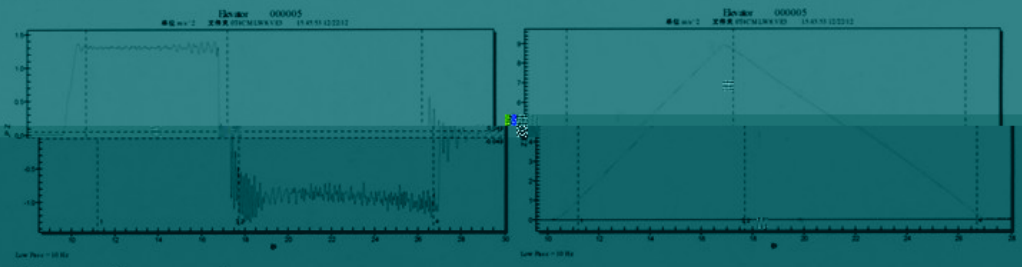
The second time



The third time



The fourth time



4 Photo of the sample



5 The

SISE
深圳市特种设备安全检验研究院
TS7610038-2011

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有效期至2013年12月5日

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TESTING
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TYPE EXAMINATION CERTIFICATE

Certificate No. TX F350-038-12 0658 Page 1 of 2

Product type: Limit Switch for Overspeed Protection Means, FC-40

Name and address of certificate Holder: Shenyang Bluelight Drive Technology Co.,Ltd.

No.37, Shiji Road, Hunnan New District, Shenyang, China

Manufacturer's name & address: Shenyang Bluelight Drive Technology Co.,Ltd.

No.37, Shiji Road, Hunnan New District, Shenyang, China

Date of Submission for Type Examination: 2012-12-15

Test place: Jiangsu Alpha Lift Co.,Ltd.

Inspection Report No.: 2012ZH0747

Date of Inspection: 2012-12

Table of main parameters

Name	Lift Ascending Car Overspeed Protection Means		
Type code	EC-4026EF-100	Reducing manner	Braking the shaft
Speed monitoring unit	overspeed governor	Type test suspension ratio	1:1
Balance factor	0.4-0.5	Tripping manner	electrical
Reset means	electrical	/	/
Type test suspension ratio 1:1			
Rated speed(m/s)	0.5-6.0	Tripping speed(m/s)	0.75-9.2
Rated load(kg)	1000-4000	Car-side mass(kg)	2600-4020
Counterweight-side mass(kg)	5300-6020	Permissible mass(P+W) (kg)	6100-10040
Explain	The max. tripping speed 9.2m/s is the nominal value on the nameplate of the overspeed governor of the sample elevator.		

Principles of coverage for traction machine brakes:

Brakes of the same series of specification are tested in accordance with the applicable ranges of the system mass, rated speed, brake time and speed. The series of specification means the same terms of the construction of the brake, the components relevant to the amount of the braking force, the action manner, permissible location for assembly and applicable operation environment, and are identical with each other.

Applicable range of system mass, car side mass, counterweight side mass, rated load and rated speed of units with different ratios of suspension are determined by the following formula:

Applicable range of system mass = range of system mass in type test × actual suspension ratio ÷ type test suspension ratio

Applicable range of car side mass = range of car side mass in type test × actual suspension ratio ÷ type test suspension ratio

Applicable range of counterweight side mass = counterweight side mass in type test × actual suspension ratio ÷ type test suspension ratio

Applicable range of rated load = range of rated load in type test × actual suspension ratio ÷ type test suspension ratio

Applicable range of rated speed = range of rated speed in type test × actual suspension ratio ÷ type test suspension ratio

Additional remarks

Notes: car-side mass is the sum of the mass of the car, the extra mass in the car side, and half of the counterweight plus the extra mass in the counterweight side.

Counterweight side mass is the sum of the mass of the counterweight plus the extra mass in the counterweight side.

Extra mass refers to the total of the mass of trailing cable, suspension cable and possibly that of the compensation cable or chain.

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GUANGDONG STATION OF QUALITY SUPERVISION AND TESTING

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