



Report No. 2021AF0026

# Type -Examination Report of Special Equipment LIFT

Product Category	<u>Lift Safety Protection Device</u>
Equipment Type	<u>Lift Ascending Car Overspeed Protection Means</u> <u>(speed reducing element)</u>
Product Name	<u>Traction Machine Brake</u>
Model/Type	<u>BLB</u>
Manufacturer	<u>Shenyang Bluelight Drive Technology Co.,Ltd</u>
Applicant	<u>Shenyang Bluelight Drive Technology Co.,Ltd</u>

**TYPE-EXAMINATION REPORT of  
SPECIAL EQUIPMENT  
(LIFT)**

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## Notes

1.This report is obtained based in the type-examination compliance with Regulation for Type Tests of Elevators (TSG T7007-2016, Including No.1 amending list).

2.This report must be printed or filled out in fountain pens/sign pens with neat and clear handwriting, no alternation.

3.The report is invalid if not signed by signature, and it is also invalid without approval number of the type testing organization, special seal for report and paging seal.

4. There will be two versions of the report: electronic and printed formats. They are equal in authorities.

5.Any discrepancy about the report from applicant should be raised within 15 working days after receiving the report.

6. The report is responsible for the tested sample only.

Name of Type Test Organization: Shenzhen Institute of Special Equipment  
Inspection and Test

Address of Type Test Organization: 1032 Honggang Road, Luohu District,  
Shenzhen

Approval No. TS7610038-2021

Postcode: 518029

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**TYPE-EXAMINATION REPORT of  
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(LIFT)**

Equipment Name	Lift Ascending Car Overspeed Protection Means (speed reducing element)		
Product Name	Traction machine brake	Product Model	BLB
Product No.	S17A013301 / S17A013302	Manufacture Date	2-Dec-2020

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**1. Sample configuration and technical data**

Equipment Name		Lift ascending car overspeed protection means (speed reducing element)		
Product Name		Traction Machine Brake	Model/Type	BLB
Working condition		Indoor	Explosive-proof type	Not applicable
No-load system mass range		1400kg-12000kg	Rated load range	450kg-2500kg
Type of action Part		Traction machine brake	Car-side Mass Range	610kg-5375kg
Range of Balance Factor		0.4-0.5	Suspension Ratio	2:1
Tripping Speed Range of braked part		1.16m/s-7.66m/s	Using of Balance Chain or Rope	Yes
Overspeed Monitoring device	Name	Overspeed governor	Model	/
	Rated speed range	0.50m/s-3.0m/s	Triggering speed range	0.58m/s-3.83m/s
Traction machine brake	Type	BLB	Structure Type	Straightly driving electromagnetic drum
	Action part	Traction Sheave	Quantity	2
	Friction element material	Non-asbestos rubber carbon fiber	Triggering Mode	Electric Trigger
	Elastic element type	Cylindrical helical compression spring		
Car- means the sum of no-load car mass and the extra mass of in the car side; Extra mass refers to the total of the mass of trailing cable, suspension cable and possibly that of the compensation cable or chain.				

**2. Technical documents check and results**

No.	Item No.	Items	Results	Conclusions
1	Q5.1	Certificate and related technical documents	Completed	Passed
2	Q5.2	Technical data	Completed	Passed
3	Q5.3	Main design drawing	Completed	Passed

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**3. Sample check and test**

**1. Test item and results**

No.	item code and name	item contents and requirements	Results	Conclusi on
1	Q6.1 Action Part	Speed reducing element shall act: (1) to the car; or (2) to the counterweight; or (3) on the rope system(suspension or compensating); or (4) traction sheave (e.g.on the traction sheave directly or on the same shaft in the immediate vicinity of the sheave) Note: Instantaneous safety gear cannot be used as speed reducing element of Ascending Car Overspeed Protection Means.	Action part:: <u>(4)</u>	Passed
Stopping test should be performed to Q6.2.4 on the entire elevator or simulation such as test bed. The stopping test must meet the following requirements: 2.1 When speed monitoring element acts, speed reducing element shall cause the car to stop, or at least reduce its speed to that for which the counterw				

Q6.2

2 Stopping  
test

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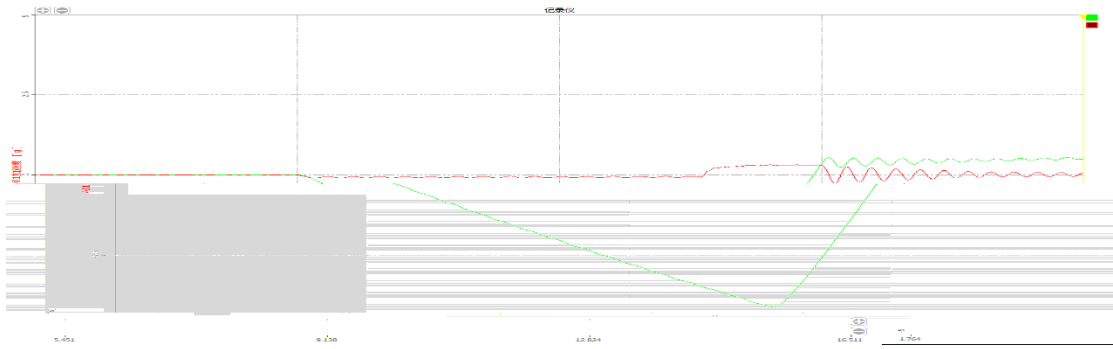
No.	item code and name	item contents and requirements	Results	Conclusion
3	Q6.3 External Energy	If the means requires external energy to operate, the absence of energy shall cause the lift to stop and keep it stopped. This does not apply for guided compressed springs.	Energy of the brake part <u>guided compressed spring</u>	Passed
4	Q6.4 Electric Safety Device	The means shall operate an electric safety device if it is engaged. Note Q-4: When counterweight overspeed governor-safety gear system is adopted, the electrical safety device can be installed on the counterweight overspeed governor. When traction machine brake is taken as speed reducing element of ascending car overspeed protection means, the electrical safety device can be installed on the speed monitoring element.	Meet the requirements	Passed
5	Q6.5 Release	The release of the means shall not require the access to the car or the counterweight.	Meet the requirements	Passed
6	Q6.6 Triggering Mode	If speed reducing element is applied to different trigger modes, it shall take 4 times of trigger action tests of trigger mechanism respectively for other trigger modes. Each test shall have normal and reliable action.	Not applicable	/
7	Q6.7 Reset Mode	If speed reducing element is applied to different reset modes, it shall take 4 times of reset action tests of reset mechanism complementally for other reset modes. Each test shall have normal and reliable action.	Not applicable	/
8	Q6.8 Triggering Force	When mechanical-trigger speed reducing element is acted by triggering, the required trigger force shall be no more than the value given by the test applicant. The test shall be carried out three times, each test shall meet the requirement.		



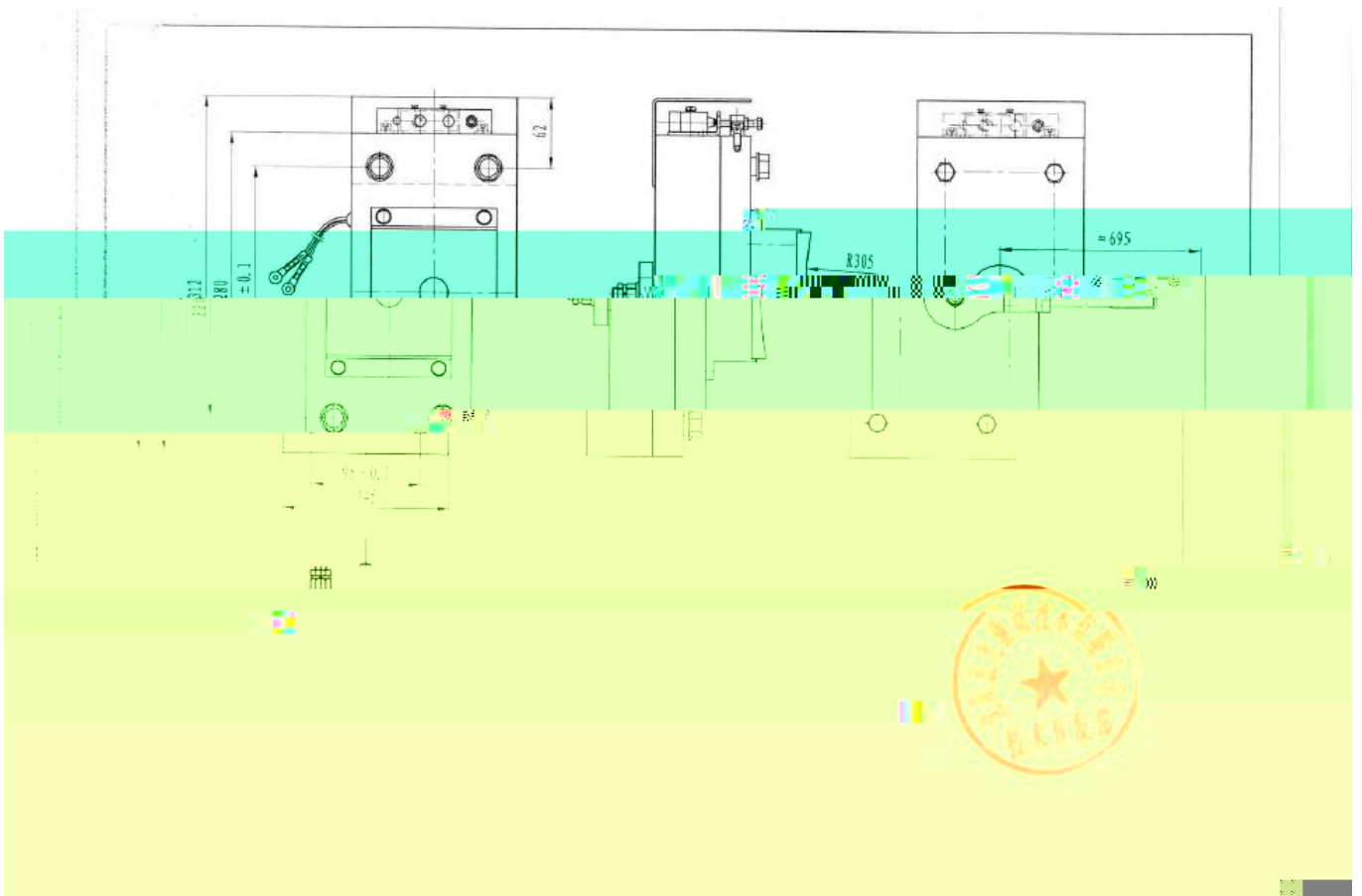


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**3. Sample Photo and drawing**



**4 .Additional Information**

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#### 4. Changes of The Type-Examination Report

If the name or address of the applicant ( or oversea manufacturer ) has any change, please submit a change request with related supporting evidence to the previous type-test agency. After confirmation, the agency will indicate the change on the change record page.

The change record see the attached page (If any).

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