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NETEC
建研检测

Report No. T14-F350-23-137

Special Equipment Type Test Report (Lift)

Category of equipment: Lift safety protection component

Type of equipment: Ascending car overspeed protection means
(Speed reducing elements)

Name of product: Traction machine brake

Model of product: DZE

Applicant: Shenyang Bluelight Drive Technology Co., Ltd.

Manufacturer: Shenyang Bluelight Drive Technology Co., Ltd.

Category of type test: First test

Test date: 2023-07-25

NETEC Inspection and Testing (Beijing) Co., Ltd.
National Elevator Inspection and Testing Center

NOTICE

1. Type test report is based on the *Regulation for type tests of lifts* (TSG T7007—2022).
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4. Each type test certificate (hereinafter referred to as the certificate) issued by NETEC is corresponding to at least one type test report with the test conclusion is certificated.
5. Certificate is invalid without stamping the *Test Report Specialized Stamp* or issue date.
6. All contents of the test report and certificate issued by NETEC shall be printed out by computer except for the signature of the person in charge. Handwriting or any alteration is invalid, and any partial copy is also invalid.
7. Type test report is only valid for the sample. Applicant is responsible for the authenticity of the information and technical documents of the sample.
8. Different opinions about type test conclusion should be reported to NETEC in writing within 15 workdays since receiving of type test report or certificate.
9. Paper version of the test report and certificate issued by NETEC in triplicate, NETEC files one, applicant keeps the other two.
10. Type test report and certificate should be subject to the Chinese version, while the English version is for reference only.

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Category of equipment	Lift safety protection component		
Type of equipment	Ascending car overspeed protection means (Speed reducing elements)		
Name of product	Traction machine brake	Model of product	DZE
Product number	S23042000	Manufacturing date	2023-04-21
Unified social credit code of applicant		91210112715754447D	
Applicant	Shenyang Bluelight Drive Technology Co., Ltd.		
Address of applicant	NO.37 Shiji Road, Hunnan New District, Shenyang, China		
Unified social credit code of manufacturer		91210112715754447D	
Manufacturer	Shenyang Bluelight Drive Technology Co., Ltd.		
Address of manufacturer	NO.37 Shiji Road, Hunnan New District, Shenyang, China		
Manufacturing address	NO.37 Shiji Road, Hunnan New District, Shenyang, China		
Test place	NETEC		
Receiving date	2023-05-04	Sample No.	Y2023-0501
Sample state	No abnormal	Category of type test	First test
Test date	2023-07-25		
Test condition	Ambient temperature: 29.6 ℃, relative humidity: 35%		
Test basis	Regulation for Type Tests of Lifts (TSG T7007—2022) GB/T 7588.1—2020, GB/T 7588.2—2020 EN 81-20:2020, EN 81-50:2020		
Test conclusion	The type test is certificated.		
Reported by: 杨国栋	Approval certificate of type test institute No. TS7610014—2025 Issue date: 2023-08-14		
Verified by: 王红格			
Issued by: 李列			

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1 Technical parameters and configuration of the sample

Name of product	Traction machine brake	Model of product	DZE
Type of the brake components	Traction machine brake	Anti-mechanical spark measures	Nothing
System total mass range	1400 kg~7800 kg	Rated load range	450 kg~2000 kg
Balance coefficient range	0.40~0.50	Car mass range	600 kg~3400 kg
Speed range of the braked components when the means acts	46 r/min~403 r/min	Suspension ratio	2:1
Range of inclination angle applicable to inclined lift	/	Use of compensation chains or ropes	Compensation chain or rope can be used
Speed monitoring element	Name	Overspeed governor	
	Model	Unlimited	
	Rated speed range	0.50 m/s~4.00 m/s	
	Tripping speed range	0.58 m/s~5.06 m/s	
Traction machine brake	Model	DZE	
	Structure type	Brake arm drum type	
	Action position	Traction sheave	
	Quantity	2 sets	
	Diameter of brake wheel (disc)	620 mm	
	Pitch diameter of traction wheel	480 mm	
	Material of friction element	Non asbestos rubber sheet carbon fiber	
	Tripping mode	Trigger when losing power	
	Type of elastic element	Helical spring	

2 Check the technical documents

No.	Items No.	Check items	Check results	Conclusion
1	Q5.1	Conformity certificate document and relative technical document	Comply with requirements	Pass
2	Q5.2	Technical document for main construction parameter	Comply with requirements	Pass
3	Q5.3	Application range and design document	Comply with requirements	Pass

3 Check and test the sample

No.	Items No.	Check and test items	Check and test results	Conclusion
1	Q6.1	Position acted on by the speed reducing element	Acting on traction sheave Comply with requirements	Pass
2	Q6.2.1	General requirements	Maximum deceleration: 8.914 m/s ² Comply with requirements	Pass
3	Q6.2.2	Safety gear	/	/
4	Q6.2.3	Wire rope brake	/	/
5	Q6.2.4	Traction machine brake	Comply with requirements	Pass
6	Q6.3	Requirements for the means requiring external energy to operate	Compression spring with guide Comply with requirements	Pass
7	Q6.4	Electric safety device	Comply with requirements	Pass
8	Q6.5	Environment of explosion proof	/	/
9	Q6.6	Tripping tests for different tripping modes	/	/
10	Q6.7	Reset tests for different reset modes	/	/
11	Q6.8	Tripping force	/	/
12	Q6.9	Tripping travel	/	/
13	Q6.10	Nameplate	Comply with requirements	Pass

4 Sample photo



5 Change information of type test report

When the name or address of the applicant and the overseas manufacturer changed, the applicant should submit the change application and the corresponding supporting information to NETEC. After confirmation, NETEC should indicate the change on the attached page “change information of type test report”, take back the original type test certificate and issue a new one.
