TYPE-EXAMINATION REPORT

Report No.: 2022AP0740

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Product category: Safety protection devices of lifts

Product name: Lift traction machine

Model/Type: WWTH

Client: Shenyang Bluelight Drive Technology Co., Ltd.

Manufacturer: Shenyang Bluelight Drive Technology Co., Ltd.

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

Explanation

1. The Laboratory is a legal inspection body for elevator type examinations authorized by General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China, with certificate number TS7610038-2011.

2. The Laboratory has obtained the authorization from the China National Accreditation Service for Conformity Assessment (CNAS), with the certificate number [illegible].

3. The report, if without the appropriative seal for inspection stamped by the Laboratory, shall be invalid.

4. The report, if without the signatures by specific inspector(s), reviser(s) and approver(s), shall be invalid.

5. Any incomplete copy of the report shall be invalid.

6. Any altered version of the report shall be invalid.

7. The inspection department and the inspector(s) shall undertake the tech responsibility for the inspection results concerning the regulated ins items.

8. The inspection results shall only apply to the inspected samples.

- Honggang Home Office
  Name & Address: Shenzhen Institute of Special Equipment Inspection and Test Tejiao Building, No. 1032, Honggang Road, Luohu District, Shenzhen, China
- Elevator Component Laboratory
  Name & Address: Longhua Branch Office of Shenzhen Institute of Special Equip and Test
  No. 6, Chuangye Road, Qinghu Industrial Area, East Side to Dabe Road, Longh

TYPE-EXAMINATION REPORT

Product	Lift traction machine		
Type code	WYT–H	Sample No.	20120637
Product No.	/	Date of manufacture	/
General technical data	Maximum rated speed	8.0 m/s	
	Maximum rated load	1600kg	
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	
Sample condition	Normal		
Place of inspection	Jiangsu Alpha Lift Co.,Ltd.		
Date of inspection	2012/12/21	Type of inspection	Type-Examination
Condition of inspection	Ambient temperature:8.6℃ Humidity:44% Voltage:407V	Inspection item	All suitable item
Standards for inspection	TSG T7001-2005 *Regulation for Type Tests of Elevators* GB7588-2003 *Safety rules for the construction and installation of el* *(eqv. EN81-1:1998)*		
Conclusion	By the Type-Examination, the product is confirmed to be in acc *TSG T7001-2005 Regulation for Type Tests of Elevators &* G *Safety rules for the construction and installation of electric lifts (eqv EN*		

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B7588-2003
81-1:1998).

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cember 26th 2012

Date of issued: De

by

Approved by

Reviewed by

Inspected

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TYPE EXAMINATION REPORT

Report No.:2012AE0[illegible]6

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1、General technical data table

Type code	WYT-H	Apply the environment	Indoor
Rated speed	[illegible]	Rated output torque	3625 N·m
Product No.	/	Date of manufacture	/
Construction pattern	Gearless	Traction ratio	1:1
Rated load	1600 kg	Hand winding device	With
Allowable radial load of the traction sheave shaft	35000kg		

Motor	Type code	WYT-H8.0E1	Product No. /
	Rated power	[illegible]kw	Rated rotate speed 215rpm
	Rated voltage	[illegible]	Rated current [illegible]A
	No-Load current	6A	Overload protective device thermistor
	Rated frequency	[illegible]Hz	Working frequency /
	Carrier frequency	/	Insulation class F
	Protection class	IP41	Construction style Outer ro
	Working form	S5	Frequency of starter 240/h
	Manufacturer	Shenyang Bluelight Drive Technology Co.,Ltd.	
Reducing device	Reduction style	/	Reduction ratio /
	Construction	/	Lubricating oil /

2、Item Description and inspection result

No.	Items		Technical requirements	Test results	Comment
1	1 Fastening, welding and fixing condition	1.1 Fixing parts	All fasteners should be locked up correctly. No abnormity should occur to the splicing and riveting positions. The appearance of the welding position should be smooth and even. Cracks, welded burls or any other defects are not permitted.	meet the requirements	pass
2		1.2 Assembly adjustment	Each component should be correctly adjusted and fixed. Movable parts can be turned flexibly. Each adjustment device can be reliably locked up.	meet the requirements	pass
3		1.3 Notices and markings	Brake releasing spanner should be painted red. Rotary parts and hand wheels should be painted yellow.	meet the requirements	pass
4	2 Traction sheave	2.1 Rope diameter ratio	The pitch circle diameter of the traction sheave should not be less than 40 times of the diameter of the traction rope.	44	pass
		2.2 Pulley	Ductile cast iron should be adopted, of which the abrasion resistance should not be less than QT600-3 The material should be	meet the	

	3.3 Connection of the components braked	The [illegible] component on which the brake operates shall be coupled to the traction sheave or drum or sprocket by direct and positive mechanical means. Belts or chains shall not be used.	meet the requirements	pass
14	3.4 Pressure on the brake shoe	The brake shoe or pad pressure shall be exerted by guided compression springs or weights.	meet the requirements	Pass
15	3.5 Working state	To hold off the brake, a continuous power current is required in normal operation.	meet the requirements	Pass
16	3.6 Starting and release voltages	Respectively, the minimum starting voltage of the brake should not exceed 80% of the rated voltage of the solenoid.	DC 48V	Pass
17		Respectively, the maximum release voltage should not exceed 55% of the rated voltage of the solenoid.	DC 30V	Pass
18		The delayed time of the open of the brake should not exceed 0.5s.	0.5s	pass
19	3.7 Pressure resistance	Tests should be conducted for the pressure resistance of the brake coil. The voltage [illegible] between the earth is 1000V, and during 1min, no puncture should occur.	meet the requirements	pass
20	3.8 Brake setting	All the mechanical components of the brake which take part in the application of the braking action on the drum or disk shall be installed in two sets.	meet the requirements	pass
21	4 Manual emergency operation devices	If the manual effort required to move the car in the upward direction with its rated load does not exceed 400N the machine shall be provided with a manual means of emergency operation allowing the car to be moved with the aid of a smooth and spokeless wheel.	meet the requirements	pass
22		Measures should be taken to prevent the wire rope from getting off the groove in case of loosence.	meet the requirement	pass

			When rated voltage and rated frequency is exerted on the driving machine, with the car empty, the linear speed of the pitch circle diameter of the traction sheave should be in the range of 92%-105% of the rated speed of the traction machine.	Linear speed Reversal linear speed Linear speed tolerance	7.70m/s 7.70m/s 96.3%	
7	Linear speed of pitch circle diameter of traction sheave	26				pass
8	No-load operating noise	27	For traction machine in no-load operation at its rated speed, the following requirements should be met when measuring the average noise value at the A-weighted sound pressure level, and the noise value in the low-speed condition should be lower than that in high-speed condition: 1) For traction machine with a blower, the maximum is 70 dB (A); for traction machine without a blower, the maximum is 68 dB (A).	high speed, no-load noise Low speed noise (with low speed winding)	68dB(A)	pass
		28				
pass		29	No malfunction should occur during the test process.			meet the requirements
/		30	The oil temperature of the reduction box should not exceed 85℃ when the test is over.			/
pass	9 Trouble-free and temperature-rise test	31	When B-, or F-class insulation is adopted in the motor, the temperature rise of the electromotor stator winding should not exceed 80K and 105K, respectively.	temperature rise F-class insulation temperature rise		11.4K
pass		32	For the temperature rise and the highest temperature of the brake coil, the following requirements should be met: for A-,E-,B- and F-classes insulation, respectively, they should not exceed 65K, 80K, 90K or 105K and 100℃, 115℃, 125℃ or 150℃.	F-class insulation highest temperature		12.5K
		33				25℃
/	10 Overall efficiency	34	When necessary, tests may be conducted for the overall efficiency. The results should be determined by the efficiency indication given by the applicant.			/
/	11 Requirements under special circumstances	35	For outdoor elevators, appropriate measures should be adopted which are fit for the operating circumstances and in accordance with the project requirements.			
/		36	For explosion-proof elevators, relevant protection measures should be adopted and a risk evaluation should be conducted to verify the safety of the product performance under explosion-protection circumstance.			

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深圳市特种设备安全检验研究院

TS7610038-2020

TYPE-EXAMINATION CERTIFICATE

Certificate No.: [illegible] 0657

Product & type: Lift gearless traction machine, WYT□-H

Name and address of certificate holder:

Product configuration table

Product type	WYT–H	Environment applied to	Indoor		
Max. rated power（kW）	81.7	Max. line speed of the traction sheave（m/s）	8.0		
Construction pattern	AC Permanent-magnet synchronous without reduction device				
Motor	Construction pattern	AC three-phase outer-rotor motor	Brake	Construction pattern	Electromagnetic disc type
	Height of the centre（mm）	595		Function position	Motor shaft
Reduction device	Reduction style	/	Traction sheave	Supporting style	Two-side support
	Width between centres（mm）	/		Shape of groove	R shape
	Reduce level	/		Method of wrapping rope	Double wrap

Covering principle of lift traction machine:

For the same type-series to the test traction machine, the certificate covers products whose motor rated power and line speed of the traction sheave are no more than the test sample. The client should list parameters of all covered products when submission. “The same type-series” means: the whole construction pattern, style and width between centres of the reduction box, construction pattern of the motor and brake are the same.

Lift rated speed and Lift rated load are determined by the following formula:

Lift rated speed=Line speed of the traction sheave/Traction rate

Lift rated load=Rated load of the traction machine*Traction rate

Note: “Rated load of the traction machine” means Lift rated load when Traction rate i

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