





Report No. 2021AF1190

TYPE-EXAMINATION REPORT OF SPECIAL EQUIPMENT (LIFT)

Product category	Main lift component
Equipment Type	Driving machine
Product name	Lift traction machine
Model/Type	WYT-Y
Manufacturer	Shenyang Bluelight Drive Technology Co.,Ltd.
Applicant	Shenyang Bluelight Drive Technology Co., Ltd.

SHENZHEN INSTITUTE OF QUALITY & SAFETY INSPECTION AND RESEARCH GUANGDONG STATION OF ELEVATOR QUALITY SUPERVISION AND TEST (SHENZHEN)



(LIFT)

Note and Contents

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Notes

1. This report is obtained based in the type-examination compliance with Regulation for Type

Tests of Elevators (2016)(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 body, 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. According to the provisions of TSG T7007-2016 Regulation Type Test of Lifts, the name or

logo of the type test body shall be marked on the product nameplate of the main parts and safety

parts of the elevator. The name of our type test organization is "Shenzhen Institute of Quality & Safety

Inspection and Research", and the logo is "SIQS".

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

Name of Institution: Shenzhen Institute of Quality & Safety Inspection and Research

Address of Institution: Agricultural Science and Technology Building, No. 1085, south of

ChaGuang Road, XiLi street, NanShan District, Shenzhen, Guangdong Province, China

Office Address of Type Test Body: TeJian Building, 1032 HongGang Road, Luohu District,

Shenzhen, Guangdong Province, China

Approval No. TS7610038-2025

Postcode: 518029

Branch Name of Type Test Body: LongHua QingHu Branch of Shenzhen Institute of Quality &

Safety Inspection and Research

Branch Address of Type Test Body: 50 QingCui Road, QingHu, LongHua Block, LongHua

District, Shenzhen, Guangdong Province, China

Postcode: 518109

Phone: 0755 28079821 0755 28079351

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Equipment Name	Driving machine				
Product Name	Lift traction machine	Product Model WYT-Y			
Main Tankainal Data	Rated speed of driving machine	8.00 m/s			
Main Technical Data	Motor rated power	54.90 kW			
Product No.	/	Manufacture Date /			
Name of Applicant	Shenyang Bluelight Drive Technology Co.,Ltd.	Unified Social Credit 91210112715754447			
Registered Address of Applicant	NO.37, Xinshiji Road, Hunnan New Di	strict, Shenyang, Liaonin	g Prov. China		
Manufacturer	Shenyang Bluelight Drive Technology	Co.,Ltd.			
Manufacturing Address	NO.37, Xinshiji Road, Hunnan New Di	strict, Shenyang, Liaonin	g Prov. China		
Type of Examination	Consistency Verification	Inspection Date	3-Nov-2021		
Sample No.	20211066	Sample Status Normal			
Inspection Place	LongHua QingHu Branch of Shenzhen Instit	stitute of Quality & Safety Inspection and Research			
Inspection Condition	Temperature:27°C; Humidity:60%RI	RH; Voltage:380V			
Standard for Inspection	GB 7588-2003 Safety Rules for the Co (Including No.1 amending list) EN 81-20:2014 Safety rules for the co transport of persons and goods - Part EN 81-50:2014 Safety rules for the co	ests of Elevators (TSG T7007-2016) (Including No.1 amending list) Rules for the Construction and Installation of Electric Lifts ding list) rules for the construction and installation of lifts - Lifts for the and goods - Part 20: Passenger and goods passenger lifts rules for the construction and installation of lifts -Examinations and rules, calculations, examinations and tests of lift components			
Conclusion	Conclusion Pass				
Notes Document ID No. XPSQ2021100036AENBG.					
Inspected by Date: 3-Nov-2021 Agency Approval Number: TS7610038-202					
Reviewed by \mathcal{N} .	፲፰ 'my Date: 3-Nov-2021	21 (stamp)			
Approved by 74	叭 (建 Date: 3-Nov-2021	e: 3-Nov-2021 Issued Date: 3-Nov-2021			



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1. Sample configuration and technical data

Product nar	ne	Lift traction machine	Model/Type	WYT-Y		
Working condition		Indoor	Construction pattern	3 phase AC permanent magnet synchronous structure without reduction device (output shaft supported by two point)		
Rated speed of driving machine (linear velocity of Traction sheave)		8.00 m/s	Rated output torsion	1650 N·m		
Traction rat	e	2: 1	Height of the center (without speed reducer)	330 mm		
Allowable ra	adial load of the traction	12000 kg	Hand winding device	Yes		
Explosive-p	roof grade	Not applicable	Explosive-proof type	Not applicable		
	Type code	WYT-Y4.0F2	Construction pattern	3 phase AC permanent magnet synchronous Inner rotor		
	Rated power	54.90 kW	Rated rotate speed	318 r/min		
	Rated voltage	380 V	Rated current	123.00 A		
Motor	Rated frequency	53.0 Hz	Insulation grade	F		
Motor	Duty cycle	S5-40%	Shell protection grade	IP41		
	Overload protection device	Overheating Frequency of starter		240F/H		
	Explosion-proof sign	Not applicable	Name of manufacturer	Shenyang Bluelight Drive Technology Co.,Ltd.		
	Structure pattern	Not applicable	Reduction radio	Not applicable		
Reduction	Reduce level	Not applicable	Width between centers	Not applicable		
device	Crossed axis angle	Not applicable Lubricating oil specification		Not applicable		
	Material grade of contac	ting surface on transmission pair		Not applicable		
	Groove quantity	12	Groove shape	U shape with cut		
Driving sheave	Hoist ropes diameter	12 mm	Heat treatment for groove surface	1		
	Sheave pitch diameter	480 mm	Winding method	Compound winding		
	Type code	DZE	Effect position	Traction sheave		
Brake	Quantity and construction pattern	External—contacting electromagnetic drum (Two dividedly installed)	Insulation grade	F		
	Rated working voltage for electromagnet	DC200 V	Explosion-proof sign	Not applicable		
	Brake drum diameter	620 mm				
Driving	Speed control method	VVVF control	Speed control device	Frequency converter		
system	Speed feedback device	Rotary encoder				



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2. Technical documents check and results

No.	Project code	Items	Results	Conclusion
1	Y5.1	Certificate and related technical data	Information Complete	Pass
2	Y5.2	Calculation data	Information Complete	Pass
3	Y5.3	Main design drawing	Information Complete	Pass

3. Sample check and test

3.1. Test projects and results

No.	Project code and name	Project contents and requirements	Results	Conclusion
1	Y6.1.1 Insulation resistor of stator winding	When the insulation resistance of the stator winding is in heat condition or the temperature rise test is finished, it shall not be less than 0.5 M Ω ; the cold-state insulation resistance is not less than 5 M Ω .	Meet the requirements	Pass
2	Y6.1.2 Pressure resisting test	The three-phase leading-out terminal and machine shall earth are applied with double power voltage and 1000 V test voltage; the temperature sensor and the machine shell earth, the three-phase leading-out terminal of the elevator driving host are applied with 500 V test voltage; the test lasting time is 60s, the leakage current is not more than 100mA.	9.90 mA	Pass
3	Y6.2.1 Brake system type	The brake system shall be provided with an electromechanical brake (frictional type) and keep release state under the continuously charging state. The braked part shall be rigidly connected with the traction wheel, the winding cylinder or the chain wheel in machine manner.	Meet the requirements	Pass
4		The band type brake cannot be applied in driving machine.	Meet the requirements	Pass
5	Y6.2.2 Packet set of brake system	For driving machine, All the brake mechanical part participated in applying brake force to the brake wheel (disk) shall be assembled by two groups. The action state of every group of mechanical part must be monitored Note: The core in the magnetic coil is regarded as mechanical parts, but the coil itself is not.	Meet the requirements	Pass
6	Y6.2.3 Brake pressure of brake system	Pressure of brake gate tile or cushion shall be applied by a directive compression spring or a heavy weigh. If the brake is released by hand, a continuous force must be exerted to keep it open.	Meet the requirements	Pass
7	Y6.2.4	The rated moment of the elevator driving host shall be negotiated with the elevator driving host user according to GB 7588§12.4.2.1, or is 2.5 times of the rated torque.	Meet the requirements	Pass
8	Braking torque of driving machine	If there is one group of part incapable of taking effect, the driving machine must stop working, and the rest brake shall be provided with enough brake force to enable the carriage loaded with the rated load to descend at reducing speed, namely, it should be greater than the rated torque.	Meet the requirements	Pass

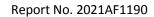




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No.	Project code and name		Project content	s and requirem	ents	Results	Conclusion
	Y6.2.5	Under the condition of satisfying 3.2.4, the lowest suction voltage of the brake electromagnet should not exceed 80% of the rated voltage.				141.00 V	Pass
9	Start and release voltage of electromagnet brake		ndition of sati brake electron age.	74.00 V	Pass		
	Diake		ndition of sati I not less than 1	43.00 V	Pass		
10	Y6.2.6 Brake responding time	The brake res time to the tir position is re elevator drivir the brake eler the respondir	ponding time one that rated by ached) shall none machine who ment of over-spag time shall so the same time	0.20 s	Pass		
11	Y6.2.7 Pressure resisting test of brake coil	For the coil vo	oltage resisting 100 V to the gro	Meet the requirements	Pass		
12	Y6.2.8 Use of belt		t, one or multip acted by elect s.	Not applicable	/		
13	Y6.2.9 Action test of the brake	millions time,	all perform th the testing pafter finishing requirement.	Meet the requirements	Pass		
14	Y6.2.10 brake noise test	measurement sound level sha Rated torque N·m Noise dB(A) LPA For the elevate 3000N·m, the by the manu	oise should be surface average all not exceed the ≤700 70 or drive host of noise shall not facturer of the gives the three	57.40 dB(A)	Pass		
15	Y6.3.1 Normal direction jumping of rope groove face of traction wheel		rection jumping roove is 1/200	0.07 mm	Pass		
16	Y6.3.2 Difference of pitch diameters of every rope groove of the traction wheel		e between the e traction whee	0.03 mm	Pass		





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No.	Project code and name		Project contents	Results	Conclusion			
17	Y6.3.3 Hardness of rope groove of traction wheel	_	ace of the tra	10.00 HBW	Pass			
18	Y6.4 Reducer box	The box cutting face and the eye cover of the gear elevator driving host shall be tightly connected without oil leakage. During the temperature rise test, the oil leakage of the extending end of the reduction box shaft shall not exceed 25cm ²					Not applicable	/
19	V6.5.4	lasting rate, the coil in the driv	Under the condition of specified working system, the load lasting rate, the starting (brake) time, when the electric motor coil in the driving machine (if no reducer box)or the oil in the reducer box achieve thermal stability, the following					Pass
	Y6.5.1 Temperature rise test	and the brake	rature rise of t coil shall not ex adopting B grad	ceed 80 k	or 105 K r	espectively in	Brake coil: F,61.7 K	
20		(2)The oil tem 85℃	perature of the	Not applicable	/			
21		(3) The elevat	or driving mac	hine can	normally i	run after the	Meet the requirements	Pass
		at no load u measurement	vator driving ho nder the rated surface average all not exceed the Rated speed m/s	d power e value LF	supply fre	equency, the weight noise		
22	Y6.5.2 Driving host noise	Noise dB(A) LPA	Gear-free drive host Gear drive host	62 70	65 80	68	64.40 dB(A)	Pass
		For the elevator drive host of which rated speed is more than 8 m/s, the noise shall not be more than the threshold given by the manufacturer of the elevator driving host; when the enterprise not gives the threshold index, the threshold index of the 8 m/s elevator driving host is judged.						
23	Y6.5.3	The vibration of the traction type elevator driving host shall satisfy the following requirements: (1)When the gear-free elevator driving host is in idle operation by the rated power supply frequency, the maximum value of the vibration speed effective value of the detecting part shall be not more than 0.5 mm/s					0.19 mm/s	Pass
24	Idle vibration speed of elevator driving host	(2) The maximum value of the torque vibrating speed effective					Not applicable	/
25		(3) For the el 8m/s, the vibing manufacturer;	evator driving ration speed car if there is not a elevator driving	host who nnot exce given lim	ed the limit	t given by the	Not applicable	/



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No.	Project code and name	Project contents and requirements	Results	Conclusion
26	Y6.5.4 Speed	For the elevator driving host, when it is running without load at rated voltage and frequency, the linear velocity of the driving wheel must be in the range from 92% of rated speed to 105% rated speed at rated voltage and frequency.	8.07 m/s, 100.86 %	Pass
27		The oil level in the reducer box should be observed easily.	Not applicable	/
28	Y6.5.5 Appearance	Hand winding crank shall be partly or completely yellow. The manual lock loosing spanner of the elevator driving host brake shall be red.	Meet the requirements	Pass
29	Y6.5.6 Nameplate of elevator driving host	The product nameplate shall be located at the obvious position, the nameplate should be permanent and should at least notify the following contents: (1) Product name, model; (2) rated speed (or elevator rated speed); (3) rated power; (4) rated voltage; (5) rated current; (6) rated frequency; (7) rated output torque (or rated load weight); (8) protection grade; (9) product No. (10)manufacturing date; (11) manufacturer name and manufacturing address; (12) Name or logo of the type-test agency	Meet the requirements	Pass

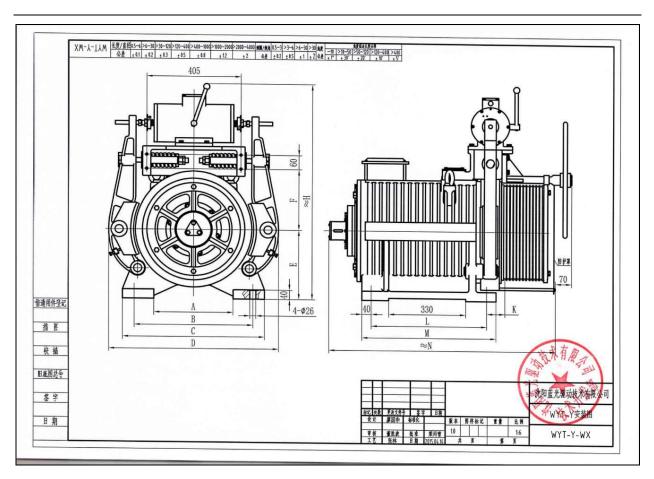
3.2 Sample Drawing





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3.3 Additional Information

No.

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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