









中国认可 国际互认 检测 TESTING CNAS L0916

Report No.2020AF0001

TYPE-EXAMINATION REPORT OF SPECIAL EQUIPMENT (LIFT)

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

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

TYPE-EXAMINATION REPORT of SPECIAL EQUIPMENT

Report No. 2020AF0001

Note and Contents

(LIFT)

Notes

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

Tests of Elevators (TSG T7007-2016)

2. The 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.

THE INFORMATION OF TYPE TEST ORGANIZATION:

Name: Shenzhen Institute of Special Equipment Inspection and Test

Address: 1032 Honggang Road, Luohu District, Shenzhen, Guangdong Province

Approval No. TS7610038-2021

Postcode: 518029

Branch Name: LongHua QingHu Branch of Shenzhen Institute of Special Equipment Inspection

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Equipment Name	Driving machine					
Product Name	Lift traction machine	Product Model	WYT-T			
Main Tank sinal Data	Rated speed of driving machine	riving machine 5.00				
Main Technical Data	Motor rated power	kW				
Product No.	/	Manufacture Date	/			
Name of Applicant	Shenyang Bluelight Drive Technology Co.,Ltd.	Unified Social Credit Identifier	91210112715754447D			
Registered Address of Applicant	NO.37, Xinshiji Road, Hunnan New Di	strict, Shenyang, Liaoning	g Prov. China			
Manufacturer	Shenyang Bluelight Drive Technology	Co.,Ltd.				
Manufacturing Address	NO.37, Xinshiji Road, Hunnan New Di	strict, Shenyang, Liaoning	g Prov. China			
Type of Examination	Initial Type-Examination Inspection Date 2-Jan-2020					
Sample No.	20191225 Sample Status Normal					
Inspection Place	LongHua QingHu Branch of Shenzhen Institute of Special Equipment Inspection and Test					
Inspection Condition	Temperature:21 $^{\circ}$; Humidity:69%RF	H; Voltage:380V				
Standard for Inspection	Regulation for Type Tests of Elevators (TSG T7007-2016) GB 7588-2003 Safety Rules for the Construction and Installation of Electric Lifts (Including No.1 amending list) EN 81-20:2014 Safety rules for the construction and installation of lifts - Lifts for the transport of persons and goods - Part 20: Passenger and goods passenger lifts EN 81-50:2014 Safety rules for the construction and installation of lifts -Examinations and tests - Part 50: Design rules, calculations, examinations and tests of lift components					
Conclusion	With the Type-Examination, it is confirmed that the product is compliance with the regulations of Regulation for Type Test of Lifts (TSG T7007-2016). The product is in compliance with related regulations of GB 7588-2003 Safety Rules for the Construction and Installation of Electric Lifts(Including No.1 amending list) and EN 81-20:2014 Safety rules for the construction and installation of lifts - Lifts for the transport of persons and goods - Part 20: Passenger and goods passenger lifts and EN 81-50:2014 Safety rules for the construction and installation of lifts - Examinations and tests - Part 50: Design rules, calculations, examinations and tests of lift components					
Notes	Document ID No. XPSQ2019120055AENBG					
Inspected by	l Date: 2-Jan-2020	Agency Approval Numb	er: TS7610038-2021			
Reviewed by			(stamp)			
Approved by 74 47 1/2 Date: 2-Jan-2020 Issued Date: 2-Jan-2020						

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1. Sample configuration and technical data

Product nar	ne	Lift traction machine	Model/Type	WYT-T	
Working condition		Indoor	Construction pattern	3 phase AC permanent magnet synchronous structure without reduction device (output shaft supported by two point)	
Rated speed	d of driving machine	5.00 m/s	Rated output torsion	1040 N·m	
Rated speed	l of lift	f lift 2.50 m/s Rated load of lift		1600 kg	
Allowable ra	adial load of the traction	5500 kg	Height of the center (without speed reducer)	270 mm	
Explosive-pi	oof grade	Not applicable	Explosive-proof type	Not applicable	
Hand windi	ng device	Yes			
	Type code	WYT-TD2.5H	Construction pattern	3 phase AC permanent magnet synchronous Outer rotor	
	Rated power	26.10 kW	Rated rotate speed	240 r/min	
	Rated voltage	380 V	Rated current	55.0 A	
Motor	Rated frequency	60.0 Hz	Insulation grade	F	
	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 mm	
device	Crossed axis angle	Not applicable	Lubricating oil specification	Not applicable	
	Material grade of contac	ting surface on transmission pa	air	Not applicable	
	Groove quantity	7	Groove shape	U shape with cut	
Driving sheave	Hoist ropes diameter	10 mm	Heat treatment for groove surface	1	
	Sheave pitch diameter	400 mm	Winding method	Single winding	
	Type code	BLB	Effect position	Traction sheave	
Brake	Quantity and construction pattern	Straightly driving electromagnetic drum (Two dividedly installed)	Insulation grade	F	
	Rated working voltage for electromagnet	DC110 V	Explosion-proof sign	Not applicable	
	Brake drum diameter	500mm			
Driving	Speed control method	Variable voltage variable frequency control	Speed control device	Frequency converter	
system					

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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.	10.70 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 conten	ts and require	ements	Results	Conclusion
	Y6.2.5 Start and release		brake electroi		the lowest suction d not exceed 80% of	68.00 V	Pass
9	voltage of electromagnet brake		brake electroi	the highest release d not exceed 55% of	24.00 V	Pass	
	Diake	Under the co voltage should		23.00 V	Pass		
10	Y6.2.6 Brake responding time	The brake restime to the tin position is relevator driving the brake elerthe responding manufacture a	ne that rated bached)shall rang machine who ment of over-sag time shall	0.18 s	Pass		
11	Y6.2.7 Pressure resisting test of brake coil	For the coil vo part applies 10 phenomenon.		Meet the requirements	Pass		
12	Y6.2.8 Use of belt	_	acted by elec	notor is connected to il brake. There are at	Not applicable	/	
13	Y6.2.9 Action test of the brake	millions time,	the testing after finishing	st for more than 2 I be free from any e V3.2.4-V3.2.6 shall	Meet the requirements	Pass	
14	Y6.2.10 brake noise test	The brake noise should be detected independently, the measurement surface average value LPA of the A weight noise sound level shall not exceed the following table: Rated torque N⋅m ≤700 ≤1500 >1500 Noise dB(A) TO T5 80 For the elevator drive host of which rated torque is more than 3000N⋅m, the noise shall not be more than the threshold given by the manufacturer of the elevator driving host; if the enterprise not gives the threshold index, it can be judged by				59.90 dB(A)	Pass
15	Y6.3.1 Normal direction jumping of rope groove face of traction wheel	The normal dir wheel rope g traction wheel	roove is 1/20	0.07 mm	Pass		
16	Y6.3.2 Difference of pitch diameters of every rope groove of the traction wheel	The difference between the pitch diameters of every two grooves of the traction wheel rope grooves shall not be more than 0.10 mm.				0.03 mm	Pass
17	Y6.3.3 Hardness of rope groove of traction wheel	The groove for hardness differences			I shall uniform, the BW.	6.00 HBW	Pass

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No.	Project code and name		Project content	Results	Conclusion			
18	Y6.4 Reducer box	driving host s During the to	ng face and the shall be tightly emperature ris d of the reduc	Not applicable	/			
19	Y6.5.1	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 requirements shall be satisfied:					Motor stator winding: F,72.99K	Pass
	Temperature rise test	and the brake	erature rise of t coil shall not ex adopting B grad	ceed 80 k	or 105 K r	espectively in	Brake coil: F,55.26K	
20		(2)The oil tem 85℃	perature of the	e reduction	on box sha	ll not exceed	Not applicable	/
21		(3) The elevat	tor driving mac	hine can	normally r	un after the	Meet the requirements	Pass
		When the elevator driving host on the test platform operates at no load under the rated power supply frequency, the measurement surface average value LPA of the A weight noise sound level shall not exceed the following provisions:		equency, the weight noise				
		Project	Rated speed m/s	≤2.5	>2.5 ≤4	>4 ≤8		
22	Y6.5.2 Driving host noise	Noise dB(A) LPA	Gear-free drive host Gear drive	62 70	65 80	68	58.40 dB(A)	Pass
		host 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	satisfy the foll (1)When the g by the rated p	of the traction owing requirem gear-free elevate power supply fr speed effective nan 0.5 mm/s	0.12 mm/s	Pass			
24	Idle vibration speed of elevator driving host	value at the t	raction wheel of the ore than 4.5 mm		Not applicable	/		
25		(3) For the el 8m/s, the vib manufacturer;	evator driving ration speed car if there is not a elevator driving	host who nnot exce given lim	ed the limit	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.	4.98 m/s, 99.60%	Pass
27		The oil level in the reducer box should be observed easily.	Not applicable	/
28	Y6.5.5 Hand winding crank shall be partly or completely yellow. The Appearance 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 Efficiency test data and graphs

序号	输出转速	输出转矩	输出功率	输入功率	电流	功率因	效率	视在功率	无功功率
万与	rpm	N∙m	kW	kW	Α	数	%	KVA	kVar
1	238.66	106.97	2.673	3.564	7.473	0.995	75.010	3.581	0.495
2	238.62	219.42	5.483	6.472	13.491	0.991	84.730	6.529	0.862
3	238.60	314.03	7.846	8.938	18.577	0.986	87.790	9.069	0.586
4	238.55	416.68	10.409	11.664	24.176	0.978	89.240	11.923	0.753
5	238.55	521.06	13.016	14.483	29.960	0.969	89.870	14.940	3.667
6	238.56	633.65	15.830	17.586	36.317	0.959	90.010	18.342	5.210
7	238.55	735.06	18.362	20.419	42.147	0.948	89.930	21.542	6.863
8	238.53	838.15	20.936	23.342	48.191	0.936	89.690	24.943	8.794
9	238.45	937.87	23.419	26.230	54.192	0.923	89.290	28.404	10.899
10	238.45	1052.00	26.268	29.610	61.251	0.908	88.710	32.601	13.640

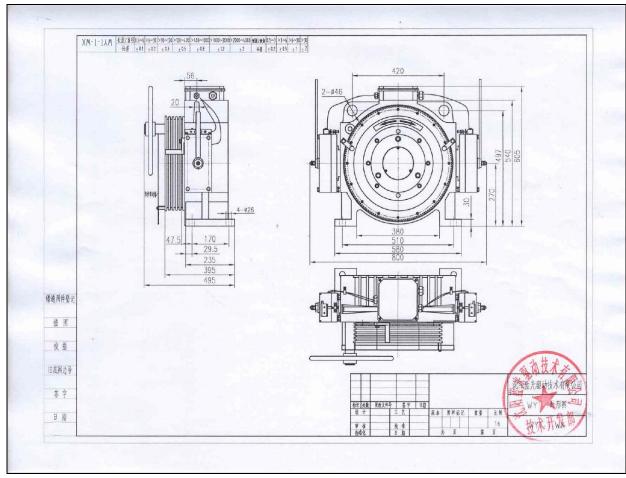
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3.3 Sample Drawing

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4. Changes of The Type-Examination Report

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