









中国认可 国际互认 检测 TESTING CNAS L0916

Report No.2019AF0732

TYPE-EXAMINATION REPORT OF SPECIAL EQUIPMENT (LIFT)

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

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

TYPE-EXAMINATION REPORT of SPECIAL EQUIPMENT

(LIFT)

Report No. 2019AF0732 **Note and Contents**

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

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Equipment Name	Driving machine					
Product Name	Lift traction machine Product Model WYT-V					
Main Tachnical Data	Rated speed of driving machine	2.50	m/s			
Main Technical Data	Motor rated power 20.30		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 Shiji Road,Hunnan New Distrct	,Shenyang,China				
Manufacturer	Shenyang Bluelight Drive Technology	Co.,Ltd.				
Manufacturing Address	No.37 Shiji Road, Hunnan New Distrct	,Shenyang,China				
Type of Examination	The First Verification	Inspection Date	24-Jul-2019			
Sample No.	20190582	Sample Status	Normal			
Inspection Place	Qinghu branch, Shenzhen Institute of	Special Equipment Inspe	ection and Test			
Inspection Condition	Temperature:31 $^{\circ}$; Humidity:75%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					
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Inspected by	」 フェ Date: 24-Jul-2019	Agency Approval Numb	er: TS7610038-2021			
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Approved by 74	リ ス・ / i Date: 24-Jul-2019	lss	ued Date: 24-Jul-2019			

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1. Sample configuration and technical data

Product name		Lift traction machine	Model/Type	WYT-V	
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	2.50 m/s	Rated output torsion	2020 N·m	
Rated speed	d of lift	2.50 m/s	Rated load of lift	1250 kg	
Allowable ra	adial load of the traction	10000 kg	Height of the center (without speed reducer)	465 mm	
Explosive-pi	roof grade	Not applicable	Explosive-proof type	Not applicable	
Hand windi	ng device	Yes	-1	-	
	Type code	WYT-V2.5CS50	Construction pattern	3 phase AC permanent magnet synchronous Outer rotor	
	Rated power	20.30 kW	Rated rotate speed	96 r/min	
	Rated voltage	380 V	Rated current	46.5 A	
Motor	Rated frequency	24.0 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	12 mm	Heat treatment for groove surface	1	
	Sheave pitch diameter	500 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	670mm			
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.	8.30 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	78.00 V	Pass
9	voltage of electromagnet brake	Under the co voltage of the the rated volta	brake electroi	34.00 V	Pass		
	Diake	Under the co voltage should		33.00 V	Pass		
10	Y6.2.6 Brake responding time	The brake responsition is relevator drivir the brake eler the responding manufacture a	ne that rated bached)shall rang machine who ment of over-sag time shall	0.21 s	Pass		
11	Y6.2.7 Pressure resisting test of brake coil				orake, the conductive n without puncturing	Meet the requirements	Pass
12	Y6.2.8 Use of belt	-	acted by elec		notor is connected to all brake. There are at	Not applicable	/
13	Y6.2.9 Action test of the brake	The brake shimillions time, maintenance; still satisfy the	the testing after finishing	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				57.90 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 grooves of the than 0.10 mm.	traction whe	0.03 mm	Pass		
17	Y6.3.3 Hardness of rope groove of traction wheel	The groove for hardness differences			l 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	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	Y6.5.1 Temperature rise test	lasting rate, the coil in the drivereducer boxer requirements: (1) The temperand the brake	ndition of species starting (braking machine (if achieve the shall be satisfied trature rise of tools shall not ex	Motor stator winding: F,74.86K Brake coil: F,57.97K	Pass			
		·	adopting B grad				,-	
20		85°C	perature or the	reduction	JII DUX SIIA	ii iiot exceed	Not applicable	/
21		(3) The elevat	or driving mac ise test	hine can	normally	run after the	Meet the requirements	Pass
22	Y6.5.2 Driving host noise	at no load u measurement sound level shade and	rator driving ho nder the rated surface average all not exceed the Rated speed M/S Gear-free drive host Gear drive host or drive host of a shall not be murer of the election of the electio	d power e value LF ne follow ≤2.5 62 70 which rat nore than levator of	supply free PA of the A Ing provision >2.5 ≤4 65 80 ed speed is the thresh Iriving hos	equency, the weight noise ons: >4 ≤8 68 - s more than 8 hold given by t; when the	46.40 dB(A)	Pass
23		enterprise not gives the threshold index, the threshold index of the 8 m/s elevator driving host is judged. 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					0.13 mm/s	Pass
24	Y6.5.3 Idle vibration speed of elevator driving host	be not more the (2) The maxim value at the the shall not be more	nan 0.5 mm/s um value of the raction wheel o ore than 4.5 mn	e torque v of the ge	vibrating sp ar elevator	eed effective driving host	Not applicable	/
25		8m/s, the vibi manufacturer;	evator driving ration speed car if there is not a elevator driving	nnot exce given lim	ed the limi	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			rated voltage and frequency, the linear velocity of the driving wheel must be in the range from 92% of rated speed to 105% 2.53 m 101.20		Pass
27		The oil level in the reducer box should be observed easily.	Meet the requirements	/		
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		

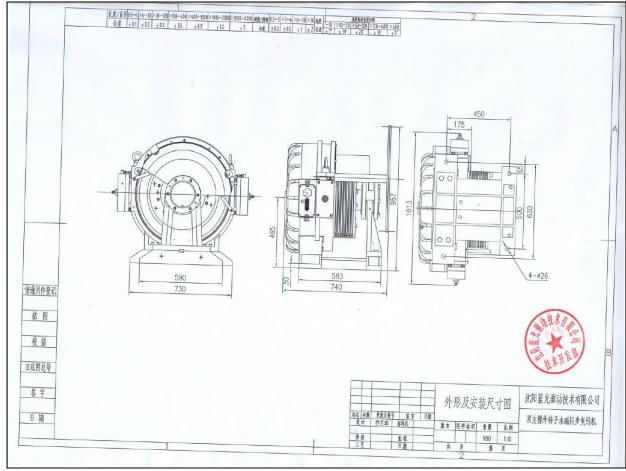
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3.2 Sample Drawing

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4. Changes of The Type-Examination Report

