









Report No.2018AF1309

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	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. 2018AF1309 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

Branch Name: QingHu Branch of Shenzhen Institute of Special Equipment Inspection and Test

Branch Address: No.6, Chuangye Lane, Shunchenji Industrial Park Nearby, Dahe Road, LongHua

District, Shenzhen, Guangdong Province

Postcode: 518109

Phone: 0755 28079821, 0755 28079351

Website: www.sise.org.cn Email: szlift@sise.org.cn

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Equipment Name	Driving machine						
Product Name	Lift traction machine	Product Model	WYT-T				
Maio Took sizel Date	Rated speed of driving machine	6.00	m/s				
Main Technical Data	Motor rated power	49.00	kW				
Product No.	/	Manufacture Date	/				
Name of Applicant	Shenyang Bluelight Drive Technology Co.,Ltd.	e Unified Social Credit 91210112715754447					
Registered Address of Applicant	NO.37, XINSHIJI ROAD, HUNNAN NEV	V DISTRICT, SHENYANG,	LiaoNing Prov. CHINA				
Manufacturer	Shenyang Bluelight Drive Technology	Co.,Ltd.					
Manufacturing Address	NO.37, XINSHIJI ROAD, HUNNAN NEV	V DISTRICT, SHENYANG,	LiaoNing Prov. CHINA				
Type of Examination	Initial Type-Examination	Inspection Date 27-Nov-2018					
Sample No.	20181256	0181256 Sample Status Normal					
Inspection Place	Qinghu branch, Shenzhen Institute of Special Equipment Inspection and Test						
Inspection Condition	Temperature:21°C; Humidity:65%RH; Voltage:380V						
Standard for Inspection	Regulation for Type Tests of Elevators (TSG GB 7588-2003 Safety Rules for the Construct (Including No.1 amending list) EN 81-20:2014 Safety rules for the construct persons and goods - Part 20: Passenger and EN 81-50:2014 Safety rules for the construct 50: Design rules, calculations, examinations	tion and Installation of Electr tion and installation of lifts - goods passenger lifts tion and installation of lifts -l	Lifts for the transport of Examinations and tests - Part				
Conclusion	With the Type-Examination, it is confirme Regulation for Type Test of Lifts (TSG T7007). The product is in compliance with related reconstruction and Installation of Electric Lifts rules for the construction and installation of 20: Passenger and goods passenger lifts and installation of lifts -Examinations and tests of lift components	7-2016). Egulations of GB 7588-2003 S S(Including No.1 amending lis I lifts - Lifts for the transport I EN 81-50:2014 Safety rules	afety Rules for the t) and EN 81-20:2014 Safety of persons and goods - Part for the construction and				
Notes	Document ID No. XPSQ2018110066AENBG.						
Inspected by] と Date: 27-Nov-2018	Agency Approval Numb	er: TS7610038-2021				
Reviewed by \mathcal{A} .	tg im Date: 27-Nov-2018		(stamp)				
Approved by 74	५ √ √ Date: 27-Nov-2018	Iss	ued Date: 27-Nov-2018				

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1. Sample configuration and technical data

Product nar	ne	Lift traction machine	Model/Type	WYT-T	
			7,7	3 phase AC permanent	
				magnet synchronous	
Working co	ndition	Indoor	Construction pattern	structure without	
WOI KIIIG CO	nation	Illuooi	Construction pattern		
				reduction device (shaft	
		5.00		supported by two point)	
	d of driving machine	6.00 m/s	Rated output torsion	1635 N·m 2500 kg	
Rated speed		3.00 m/s	Rated load of lift	2500 kg	
	adial load of the traction	7500 kg	Height of the center	330 mm	
sheave shaf		Nick coult calcie	(without speed reducer)	Not and book to	
Explosive-p		Not applicable	Explosive-proof type	Not applicable	
Hand windi	ng device	Yes	1	2 1 10	
				3 phase AC permanent	
	Type code	WYT—TE3.0G	Construction pattern	magnet synchronous	
				Outer rotor	
	Rated power	49.00 kW	Rated rotate speed	286 r/min	
Matau	Rated voltage	380 V	Rated current	107 A	
Motor	Rated frequency	71.5 Hz	Insulation grade	F	
	Duty cycle	S5	Shell protection grade	IP41	
	Overload protection	Overheating	Frequency of starter	240F/H	
	device				
	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 contact	ting surface on transmission pai	ir	Not applicable	
	Groove quantity	9	Groove shape	U shape with cut	
Driving	Haish waxaa diamaahay	10	Heat treatment for groove		
sheave	Hoist ropes diameter	10 mm	surface	/	
	Sheave pitch diameter	400 mm	Winding method	Single winding	
	Type code	BLB	Effect position	Traction sheave	
		Straightly driving			
	Quantity and	electromagnetic drum (Two	Insulation grade	F	
Brake	construction pattern	dividedly installed)	modification grade		
	Data da white a walta a a	dividedly installed			
	Rated working voltage	DC110 V	Explosion-proof sign	Not applicable	
	for electromagnet Brake drum diameter	610mm	<u> </u>	1	
	brake druin diameter		<u> </u>		
Driving	Speed control method	Variable voltage variable	Speed control device	Frequency converter	
system		frequency control			
•	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.	Meet the requirements	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 electro		the lowest suction d not exceed 80% of	59.00 V	Pass
9	voltage of electromagnet brake		brake electro	the highest release d not exceed 55% of	39.00 V	Pass	
	brake	Under the co voltage should			the lowest release voltage.	38.00 V	Pass
10	Y6.2.6 Brake responding time	The brake rest time to the time position is re- elevator drivir the brake elerthe responding manufacture a	ne that rated bached)shall ing machine whent of over- ng time shall	Meet the requirements	Pass		
11	Y6.2.7 Pressure resisting test of brake coil	For the coil von part applies 10 phenomenon.		Meet the requirements	Pass		
12	Y6.2.8 Use of belt	By using a belt the spare part least two belts	acted by elec	Not applicable	/		
13	Y6.2.9 Action test of the brake	millions time,	the testing after finishing	process shall	st for more than 2 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 not measurement sound level sha Rated torque N·m Noise dB(A) LPA For the elevated 3000N·m, the by the manu enterprise not 80dB(A)	surface averagall not exceed ≤700 70 or drive host onoise shall not facturer of the state of	Meet the requirements	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	0.06 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.				0.02 mm	Pass
17	Y6.3.3 Hardness of rope groove of traction wheel	The groove for hardness differences			shall uniform, the BW.	6.00 HBW	Pass

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No.	Project code and name		Project content	s and req	uirements		Results	Conclusion
18	Y6.4 Reducer box	driving host s During the to	ng face and the hall be tightly emperature ris d of the reduc	Not applicable	/			
19	Y6.5.1 Temperature rise	lasting rate, the coil in the drivereducer boxer requirements (1) The tempers	ndition of species starting (braking machine (if achieve the shall be satisfied trature rise of tool shall not ex	Motor stator winding: F,81.33K Brake coil:	Pass			
	test		adopting B grad				F, 56.74K	
20		(2)The oil tem 85℃	perature of the	e reduction	on box sha	II not exceed	Not applicable	/
21			or driving mac	hine can	normally	run after the	Meet the requirements	Pass
22	Y6.5.2 Driving host noise	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: Rated speed Project					Meet the requirements	Pass
		the 8 m/s elev The vibration satisfy the follo	gives the threst ator driving hos of the traction owing requirem ear-free elevato	Meet the				
23	Y6.5.3	by the rated properties the vibration of the beautiful to the state of	oower supply fr speed effective nan 0.5 mm/s	requirements	Pass			
24	speed of elevator driving host	value at the t shall not be m	um value of the raction wheel o ore than 4.5 mn	of the ge n/s	ar elevator	driving host	Not applicable	/
25		8m/s, the vib 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	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.	6.02 m/s, 100.33%	Pass
27	Y6.5.5 Appearance	The oil level in the reducer box should be observed easily. 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
28	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

No	Rotate speed	Torque	Output power	Input power	Current	Power	Efficiency	Apparent power	Unactive power
No.	rpm	Nm	kW	kW	А	factor	%	KVA	kVar
1	285.89	170.92	5.117	7.228	14.312	0.997	70.800	7.252	0.583
2	285.82	333.56	9.984	12.160	23.963	0.997	82.110	12.202	1.009
3	285.84	496.63	14.866	17.148	33.658	0.995	86.690	17.230	1.680
4	285.87	662.18	19.823	22.252	43.527	0.993	89.080	22.416	2.703
5	285.89	822.34	24.619	27.235	53.133	0.990	90.390	27.524	3.976
6	285.85	991.72	29.686	32.547	63.349	0.985	91.210	33.029	5.620
7	285.83	1163.60	34.760	37.968	73.774	0.981	91.550	38.720	7.594
8	285.81	1314.30	39.338	42.790	83.002	0.976	91.930	43.852	9.590
9	285.88	1476.60	44.204	48.022	93.023	0.970	92.050	49.499	12.002
10	285.84	1640.20	49.097	53.346	103.230	0.964	92.040	55.342	14.731

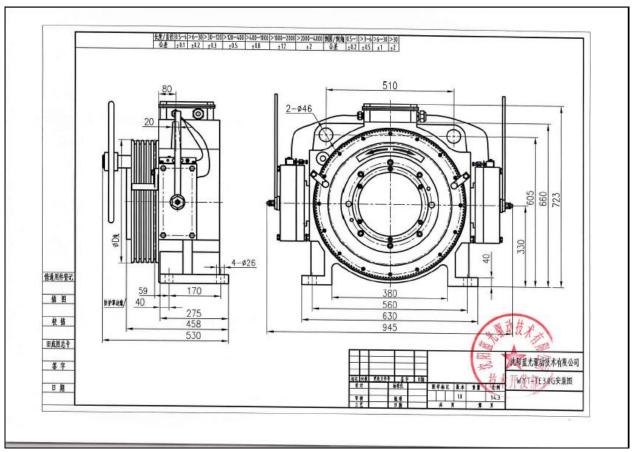
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3.3 Sample Drawing

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4. Changes of The Type-Examination Report

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).
The reminder of this page is intentionally left blank

If the name or address of the applicant (or oversea manufacturer) has any change, please submit a change request with