









中国认可 国际互认 检测 TESTING CNAS L0916

Report No.2019AF1240

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.	_
Annlicant	Shenyang Bluelight Drive Technology Co. Ltd	

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

TS7610038-2021

TYPE-EXAMINATION REPORT of SPECIAL EQUIPMENT

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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

and Test

Branch Address: 50 QingCui Road, QingHu, LongHua Block, LongHua District,

Shenzhen, Guangdong Province

Postcode: 518109

Phone: 0755 28079821, 0755 28079351

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Equipment Name	Driving machine					
Product Name	Lift traction machine	Product Model	WYT-Y			
Maio 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 9121011271575444				
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	Consistency Verification	Inspection Date 28-Nov-2019				
Sample No.	20190978	Sample Status Normal				
Inspection Place	LongHua QingHu Branch of Shenzhen Institute of Special Equipment Inspection and Test					
Inspection Condition	Temperature:20℃; Humidity:60%RF	H; 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 -E	Lifts for the transport of Examinations and tests - Part			
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. XPSQ2019070008AENBG.					
Inspected by] と Date: 28-Nov-2019	Agency Approval Numb	er: TS7610038-2021			
Reviewed by 人樣.	「鬼」my Date: 28-Nov-2019 (stamp)					
Approved by 74	५ √√. Date: 28-Nov-2019	(stamp) Issued Date: 28-Nov-2019				

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1. Sample configuration and technical data

Product nan	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	d of driving machine	8.00 m/s	Rated output torsion	1650 N·m
Rated speed	l of lift	4.00 m/s	Rated load of lift	2000 kg
Allowable ra	adial load of the traction	12000 kg	Height of the center (without speed reducer)	330 mm
Explosive-pr	oof grade	Not applicable	Explosive-proof type	Not applicable
Hand windir	ng device	Yes	-	
	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	123.0 A
Motor	Rated frequency	53.0 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 contact	ting surface on transmission p	air	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	620mm		
Driving	Speed control method	Variable voltage variable frequency control	Speed control device	Frequency converter
system		1		

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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.	8.50 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 requirer	nents	Results	Conclusion
	Y6.2.5		brake electror		the lowest suction not exceed 80% of	147.00 V	Pass
9	Start and release voltage of electromagnet brake		brake electror	he highest release not exceed 55% of	78.00 V	Pass	
	Drake		ndition of sat I not less than 1		the lowest release oltage.	77.00 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 be ached)shall rated machine whe ment of over-s	0.19 s	Pass		
11	Y6.2.7 Pressure resisting test of brake coil		-	ake, the conductive without puncturing	Meet the requirements	Pass	
12	Y6.2.8 Use of belt	By using a belithe spare part least two belts		Not applicable	/		
13	Y6.2.9 Action test of the brake	millions time,	the testing after finishing	process shall	for more than 2 be free from any V3.2.4-V3.2.6 shall	Meet the requirements	Pass
14	Y6.2.10 brake noise test	measurement sound level sh. Rated torque N·m Noise dB(A) LPA For the elevate 3000N·m, the by the manu	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:				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		
17	Y6.3.3 Hardness of rope groove of traction wheel	_	ace of the tra		shall uniform, the W.	7.00 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 I of the reduc	t oil leakage. akage of the	Not applicable	/		
19	Y6.5.1 Temperature rise test	lasting rate, the coil in the drivereducer boxer requirements: (1) The temper	ndition of species starting (braking machine (if achieve the shall be satisfied trature rise of tooil shall not ex	Motor stator winding: F,85.10K Brake coil: F,59.82K	Pass			
	test	the process of	adopting B grad	de or F gr	ade insulat	ion	F,39.02N	
20		(2)The oil tem 85℃	perature of the	e reduction	on box sha	II not exceed	Not applicable	/
21		(3) The elevat	or driving mac	hine can	normally	run after the	Meet the requirements	Pass
	V6 E 2	at no load u measurement	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 22.5 24 28					
22	Y6.5.2 Driving host noise	Noise dB(A) LPA	Gear-free drive host Gear drive host	62 70	65 80	-	67.60 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	satisfy the follo (1)When the g by the rated p	of the traction owing requirem ear-free elevate ower supply fr speed effective nan 0.5 mm/s	0.17 mm/s	Pass			
24	Idle vibration speed of elevator driving host	(2) The maxim value at the t	um value of the raction wheel o ore than 4.5 mn	of the ge			Not applicable	/
25		(3) For the el 8m/s, the vibi manufacturer;	evator driving ration speed car if there is not a levator driving	host who 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.	8.03 m/s, 100.38%	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 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
片写	rpm	N∙m	kW	kW	А	数	%	KVA	kVar
1	317.77	167.53	5.575	6.614	14.106	0.993	84.280	6.659	0.767
2	317.72	334.96	11.145	12.264	26.043	0.994	90.870	12.339	1.357
3	317.69	504.27	16.776	18.003	38.238	0.990	93.190	18.192	2.612
4	317.77	677.76	22.553	23.965	51.013	0.982	94.110	24.393	4.554
5	317.71	830.47	27.630	29.236	62.475	0.973	94.510	30.037	6.888
6	317.78	998.16	33.216	35.084	75.376	0.961	94.680	36.525	10.160
7	317.69	1160.90	38.622	40.845	88.343	0.945	94.560	43.208	14.092
8	317.67	1324.90	44.075	46.654	101.650	0.928	94.470	50.279	18.745
9	317.62	1493.50	49.676	52.739	115.870	0.908	94.190	58.114	24.409
10	317.65	1668.40	55.499	59.129	131.150	0.884	93.860	66.886	31.264

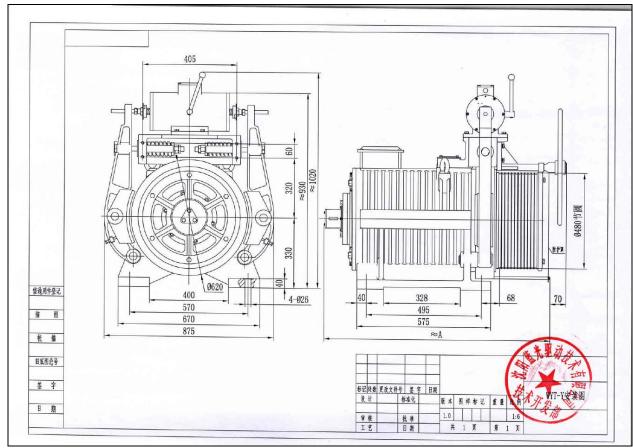
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3.3 Sample Drawing

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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