

Report No. 2023AF0828

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 TECHNOLGY CO., LTD.
Applicant	SHENYANG BLUELIGHT DRIVE TECHNOLGY CO., LTD.

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

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Note and Contents

Notes

1. This report is obtained based in the type-examination compliance with *Regulation for Type Tests of Elevators (TSG T7007-2022)*

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. 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

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Approval No. TS7610038-2025

Postcode: 518029

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Main lift component	Equipment Name	Driving machine				
Lift traction machine	Product Model	WYT-T				
Rated speed of driving machine	5.	00 m/s				
Motor rated power	26	.10 kW				
S22B1189	22B1189 Manufacture Date Nov-2022					
SHENYANG BLUELIGHT DRIVE TECHNOLGY CO., LTD.	Unified Social Credit Identifier	91210112715754447D				
NO.37, XINSHIJI ROAD, HUNNAN NEV	V DISTRICT, SHENYANG, (CHINA				
SHENYANG BLUELIGHT DRIVE TECHNOLGY CO., LTD.	Unified Social Credit Identifier	91210112715754447D				
NO.37, XINSHIJI ROAD, HUNNAN NEV	V DISTRICT, SHENYANG, (CHINA				
NO.37, XINSHIJI ROAD, HUNNAN NEV	V DISTRICT, SHENYANG, (CHINA				
Consistency Verification	Inspection Date	16-Aug-2023				
20230557 Sample Status Normal						
LongHua QingHu Branch of Shenzhen Institute of Quality & Safety Inspection and						
Research						
Temperature:33 $^\circ\!\!\mathbb{C}$; Humidity:62 %RF	I; Voltage:380 V					
Regulation for Type Tests of Elevators (TSG T7007-2022)						
GB/T 7588.1-2020 Safety rules for the construction and installation of						
lifts—Part1:Passenger and goods passenger lifts						
GB/T 7588.2-2020 Safety rules for the construction and installation of lifts—Part2: Design						
rules, calculations, examinations and tests of lift components						
EN 81-20:2020 Safety rules for the construction and installation of lifts - Lifts for the						
tests - Part 50: Design rules, calculations, examinations and tests of lift components						
Pass						
Document ID No. XPSQ2023080006A	ENBG					
Date: 17-Aug-2023	Agency Approval Numb	er: TS7610038-2025				
Date: 17-Aug-2023		(stamp)				
17 jm Date: 17-Aug-2023		Issued Date: 17-Aug-2023				
	Lift traction machine Rated speed of driving machine Motor rated power S22B1189 SHENYANG BLUELIGHT DRIVE TECHNOLGY CO., LTD. NO.37, XINSHIJI ROAD, HUNNAN NEW SHENYANG BLUELIGHT DRIVE TECHNOLGY CO., LTD. NO.37, XINSHIJI ROAD, HUNNAN NEW NO.37, XINSHIJI ROAD, HUNNAN NEW Consistency Verification 20230557 LongHua QingHu Branch of Shenzher Research Temperature:33 °C; Humidity:62 %RH <i>Regulation for Type Tests of Elevators</i> <i>GB/T 7588.1-2020 Safety rules for the</i> <i>lifts—Part1:Passenger and goods pas</i> <i>GB/T 7588.2-2020 Safety rules for the</i> <i>rules, calculations, examinations and</i> EN 81-20:2020 Safety rules for the co transport of persons and goods - Part EN 81-50:2020 Safety rules for the co transport of persons and goods - Part EN 81-50:2020 Safety rules for the co transport of persons and goods - Part EN 81-50:2020 Safety rules for the co transport of persons and goods - Part EN 81-50:2020 Safety rules for the co transport of persons and goods - Part EN 81-50:2020 Safety rules for the co transport of persons and goods - Part EN 81-50:2020 Safety rules for the co tests - Part 50: Design rules, calculation Pass Document ID No. XPSQ2023080006A <i>T C</i> Date: 17-Aug-2023	Lift traction machineProduct ModelRated speed of driving machine5.1Motor rated power26S22B1189Manufacture DateSHENYANGBLUELIGHTDRIVETECHNOLGY CO., LTD.Unified Social CreditIdentifierIdentifierNO.37, XINSHIJI ROAD, HUNNAN NEW DISTRICT, SHENYANG, GSHENYANGBLUELIGHTDRIVEUnified Social CreditIdentifierIdentifierNO.37, XINSHIJI ROAD, HUNNAN NEW DISTRICT, SHENYANG, GNO.37, XINSHIJI ROAD, HUNNAN NEW DISTRICT, SHENYANG, GConsistency VerificationInspection Date20230557Sample StatusLongHua QingHu Branch of Shenzhen Institute of Quality & SaResearchTemperature:33 °C; Humidity:62 %RH; Voltage:380 VRegulation for Type Tests of Elevators (TSG T7007-2022)GB/T 7588.1-2020 Safety rules for the construction and installIffts—Part1:Passenger and goods passenger liftsGB/T 7588.2-2020 Safety rules for the construction and installrules, calculations, examinations and tests of lift componentsEN 81-20:2020 Safety rules for the construction and installatiotransport of persons and goods - Part 20: Passenger and goodsEN 81-50:2020 Safety rules for the construction and installatiotransport of persons and goods - Part 20: Passenger and goodsEN 81-50:2020 Safety rules for the construction and installatiotransport of persons and goods - Part 20: Passenger and goodsEN 81-50:2020 Safety rules for the construction and installatiotests - Part 50: Design rules, calculations, examinations and test				



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Product name		Lift traction machine Model/Type		WYT-T
Product No.		S22B1189	Manufacture Date	Nov-2022
Working condition		Indoor	ndoor Structure pattern	
	d of driving machine city of Traction sheave)	5.00 m/s	Rated output torsion	1040 N·m
Traction rat	e	2:1	Height of the center (without speed reducer)	270 mm
	adial load of the traction `t (without speed reducer)	5500 kg	Hand winding device	Release Wrench & Hand winding crank
	Type code	WYT-TD2.5H	Structure pattern	3 phase AC permanent magne synchronous Outer rotor
	Rated power	26.10 kW	Rated rotate speed	240 r/min
	Rated voltage	380 V	Rated current	55.A
	Rated frequency	60 Hz	Insulation grade	F
Motor	Duty cycle	s5-40%	Shell protection grade	IP41
	Overload protection device	Overheating & Frequency converter	Frequency of starter	240 F/h
	Explosive-proof type	Not applicable Explosive-proof grade		Not applicable
	Name of manufacturer	SHENYANG BLUELIGHT DR		
	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 contacting	surface on transmission pai	r	Not applicable
	Number of suspensions device used	7	Groove shape	U shape with cut
Driving sheave	Nominal diameter of suspension device (rope)	10 mm	Heat treatment for groove surface	Annealing or aging treatment
	Sheave pitch diameter	400 mm	Winding method	Single winding
	Type code	BLB	Effect position	Traction sheave
Brake	Quantity and structure pattern	Straightly driving electromagnetic drum (Two dividedly installed)	Insulation grade	F
	Rated working voltage for electromagnet	DC110 V	Brake drum diameter	500 mm
	Hydraulic release device rated working pressure	Not applicable	Electromagnet rated maintenance voltage/current	DC110 V/1.6 A
	Explosive-proof type	Not applicable	Explosive-proof grade	Not applicable
Driving	Speed control method	VVVF control	Speed control device	Frequency converter
system	Speed feedback device	Rotary encoder		



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2. Tec	2. Technical documents check and results						
No.	Project code	Items	Results	Conclusion			
1	X5.1	Certificate and related technical data	Information Complete	Pass			
2	X5.2	Calculation data	Information Complete	Pass			
3	X5.3	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	X6.1.1 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	X6.1.2 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.	leakage current: ≪9.70 mA	Pass
3	X6.2.1	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	Brake system type	Brake system type The band type brake cannot be applied in driving machine.		Pass
5		In the vicinity of the brake, there should be warning information (such as inspection method, replacement conditions, etc.) on the replacement of brake liner wear.	Meet the requirements	Pass
6	X6.2.2 Packet set of brake system	For driving machine, all mechanical parts of the brake (including electromagnet moving iron core) which are involved in applying braking force to the brake wheel (disc) shall be assembled in at least two parts. For electromechanical brakes used in passenger elevators and freight elevators, electromagnet coils, static iron cores and parts guiding the moving iron cores shall also be assembled in at least two parts. In the normal operation of the elevator, two sets of brakes should not lose their braking function at the same time due to the brake grouping structure problem	Meet the requirements	Pass
7		Proper lifting (or release) of the brake should be monitored or its braking force verified.	Meet the requirements	Pass



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No.	Project code and name		Project content	s and requirem	ents	Results	Conclusion
8	X6.2.3 Brake pressure of brake system		-	or cushion shal or a heavy weig	Meet the requirements	Pass	
9	X6.2.4	negotiated wit	h the elevator		ng host shall be er according to GB ted torque.	Meet the requirements	Pass
10	Braking torque of driving machine	Meet the requirements	Pass				
	X6.2.5		brake electrom		he lowest suction not exceed 80% of	DC68.00V	Pass
11	Start and release voltage of electromagnet brake		brake electrom		e highest release not exceed 40% of	DC25.00V	Pass
	DIAKE			fying X6.2.4, t .0% of rated vol	he lowest release tage.	DC24.00V	Pass
12	X6.2.6 Brake responding time	time to the tin position is re- elevator drivin the brake eler the respondin	bonding time o ne that rated bu ached)shall n ng machine wh ment of over-sp g time shall s t the same time	0.18 s	Pass		
13	X6.2.7 Pressure resisting test of brake coil	For the coil vo	Itage resisting 100 V to the gro	Meet the requirements	Pass		
14	X6.2.8 Use of belt		acted by elect		or is connected to rake. There are at	Not applicable	/
15	X6.2.9 Action test of the brake	millions time, maintenance;	all perform th the testing p and the brake hing the test, t nt.	Meet the requirements	Pass		
		The brake no measurement sound level sha	oise should b surface average	e value LPA of t he following tab	dependently, the he A weight noise ble:		
16	X6.2.10 brake noise test	Rated torque N·m Noise dB(A) LPA	≤700 70	>700 ≤1500 75	>1500 80	58.40 dB(A)	Pass
		3000N·m, the by the manu	noise shall not facturer of th	be more than tl e elevator dri	rque is more than he threshold given ving host; if the can be judged by		



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No.	Project code and name	Project contents and requirements	Results	Conclusion
17		When the emergency operation of vertical elevator occurs, it shall be able to open all brakes of driving machine by continuous manual operation; Manual release brake failure shall not result in failure of braking function.	Meet the requirements	Pass
18	X6.2.11 brake released by hand	Mechanical parts used for manual mechanical (such as lever) brake release, should have measures to prevent its abnormal shift or jammed, in the normal operation of the elevator should not be due to its abnormal shift or jammed lead to two sets of brakes at the same time accidental release.	Meet the requirements	Pass
19		It shall be possible to test each brake set independently from outside of the well.	Meet the requirements	Pass
20	X6.3.1 Normal direction jumping of rope groove face of traction wheel	For the Lift traction machine ,the normal direction jumping of the groove face of the traction wheel rope groove is 1/2000 of the pitch diameter of the traction wheel	0.06 mm	Pass
21	X6.3.2 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
22	X6.3.3 Hardness of rope groove of traction wheel	The groove face of the traction wheel shall uniform, the hardness difference is not more than 15 HBW.	6.00 HBW	Pass
23	X6.4 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	/
24	24	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, 77.45 K P Brake coil: F, 57.23 K	Pass
	X6.5.1 Temperature rise test	 (1) The temperature rise of the electric motor stator winding and the brake coil shall not exceed 80 K or 105 K respectively in the process of adopting B grade or F grade insulation 		
25		(2)The oil temperature of the reduction box shall not exceed 85 $^\circ\!\!\mathbb{C}$	Not applicable	/
26		(3) The elevator driving machine can normally run after the temperature rise test	Meet the requirements	Pass



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No.	Project code and name		Project contents	Results	Conclusion			
		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 						
27	X6.5.2 Driving host noise	Noise dB(A) LPA	m/s Gear-free drive host Gear drive host	62 70	65 80	68	52.16 dB(A)	Pass
		m/s, the noise the manufact enterprise not	or drive host of e shall not be m urer of the el gives the thresl ator driving hos	nore than evator d nold index	the thresh riving hos , the thres	nold given by t; when the		
28	X6.5.3	satisfy the foll (1)When the g by the rated p	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					Pass
29	Idle vibration speed of elevator driving host	(2) The maximum value of the torque vibrating speed effective value at the traction wheel of the gear elevator driving host shall not be more than 4.5 mm/s					Not applicable	/
30		8m/s, the vib manufacturer;	(3) For the elevator driving host whose rated speed is over 8m/s, the vibration speed cannot exceed the limit given by the manufacturer; if there is not a given limit, the judgment criteria follows 8m/s elevator driving host.					/
31	X6.5.4 Speed	For the elevate rated voltage a wheel must be	or driving host, wand frequency, t and frequency, t e in the range fro c rated voltage a	5.03 m/s, 100.60 %	Pass			
32		The oil level in	the reducer box	k should b	oe observe	d easily.	Not applicable	/
33	X6.5.5 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
34	X6.5.6 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) manufacturer name and manufacturing address; (3) Type-examination certificate No.; (4) rated speed (or elevator rated speed); (5) rated power; (6) rated voltage; (7) rated current; (8) rated frequency; (9) rated output torque (or rated load weight); (10) protection grade; (11) product No. (12)manufacturing date					Meet the requirements	Pass

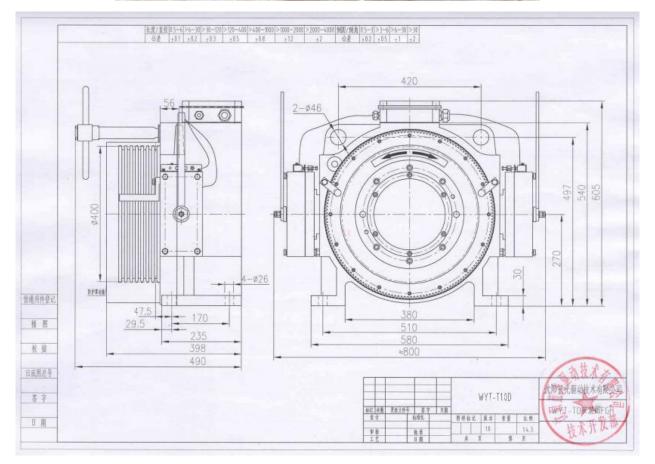


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3.2 Sample Photo or Drawing





3.3 Additional Information

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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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