



Special Equipment Type Test Report

Report No. TGF06121002

Category of Equipment: Safety Protection Component

Type of Equipment: Traction Machine

Name of Product: Permanent Magnet Synchronous Gearless Traction Machine

Model of Product: WYT-S

Applicant: Shenyang Bluelight Drive Technology Co., Ltd.

Manufacturer: Shenyang Bluelight Drive Technology Co., Ltd.

NETEC

National Center for Quality Supervision and Inspection

NOTICE

1. Each type test certificate issued by National Elevator Inspection and Testing Center (abbreviation NETEC) is corresponding to one type test report. The issue of type test certificate is based on the test conclusions of type test report.

2. Type test report is invalid without stamping the Test Report Specialized Stamp or issue date.

3. Type test certificate is invalid without stamping the Test Report Specialized Stamp or issue date.

4. Type test report is invalid without signatures of test, verification and approval.

5. Type test report is invalid without stamping the Test Report Specialized Stamp, without written approval of NETEC.

6. Type test certificate including annex is invalid

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Chinese version, while the English version

Langfang City, 065000 Hebei, P. R. China
Tel: 0316-2311414

netec.org
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Quality Supervision Inspection and
Republic of China.

10. It should be subject to the Chinese
version is for reference only.

Address: 61 Jinguang Avenue, Langfang
Tel: 0316-2311414, 2311411
Fax: 0316-23157334
Email: netec@chinaelevat
Web site: www.chinaelevat

Name of product		Permanent magnet synchronous gearless traction machine	
Model of product		WYT-9L	
Serial No. of sample		20118903	Production date
Main technical parameter	Rated speed	2.50m/s	Rated output torque
	Rated output power	1502kW	Allowed radial load
	Suspension ratio	2:1	Mode of wrapping
Applicant		Name: Shenyang BlueLight Drive Technology Co., Ltd. Address: No. 37 Shiji Road, Hunnan New District, Shenyang, Liaoning	
Manufacturer	Name	Shenyang BlueLight Drive Technology Co., Ltd.	
	Address	No. 37 Shiji Road, Hunnan New District, Shenyang, Liaoning	
Receiving date		/	Sample No.
Test date		20120120	Sample state
Test category		Type test	Test item
Test place		Shenyang BlueLight Drive Technology Co., Ltd.	
Test conditions		Ambient temperature: 16.0℃, 20℃, 25℃, 28℃, 30℃, 35℃, 40℃, 45℃, 50℃, 55℃, 60℃, 65℃, 70℃, 75℃, 80℃, 85℃, 90℃, 95℃, 100℃	
Test basis		Rules for Type Test of Elevators (tryout), Rule for Type Test of Lift Traction Machine (tryout) EN 81-1:1998 Safety Rules for the Construction and Installation of Electric Lifts	
Test conclusion		The type test is successful.	
Issue date		2012.1.22	

Reported by: [Signature] Verified by: [Signature] Issued

SAMPLE'S MAIN TECHNICAL PARAMETERS AND CONFIGURATION

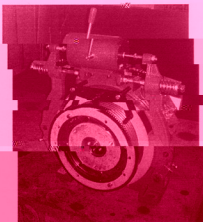
Model and name	WYT-SL Permanent magnet synchronous gearless traction machine					
Applicable environment	Indoor	Structure type	Permanent magnet synchronous gearless traction machine			
Rated load	1150kg	Allowed radial load of traction sheave	5500kg			
Mode of wrapping	Single	Suspension ratio	2:1			
Manual emergency operating device	Releasing brake handle, handwinding wheel					
Motor	Model	WYT-S2.5E	Rated power	19.2kW	Rated current	40A
	Rated voltage	380V	Insulation grade	F		
	Rated frequency	40Hz	Protection degree	IP41		
	Duty	S ₃	Allowed start times	240F/h		
	Structure type	Permanent magnet synchronous outer rotor				
Gear reducer	Mode of over-load protection		Over-heat protection			
	Manufacturer		Shenyang Blueight Drive Technology Co., Ltd.			
	Structure type		Reduction gear ratio			
	Lubricating oil		/			
	Number of grooves		5	Type of grooves		
Traction sheave	Diameter of ropes		10mm	Heat treatment		
	Pitch diameter of traction sheave		400mm	Mode of wrapping		
	Model		DBZ	Action position		
Brake	Structure type		Two sets, block type	Diameter of brake sheave		
	Rated voltage		AC 380V	Insulation grade		
	Speed control mode		AC variable frequency control			
Applicable driving system	Speed controller		Frequency inverter			
	Feedback device of speed		Rotary encoder			

Test items and test results

No.	Items No.	Test items	Test results	Conclusion
1	1.1	Fastening and welding	Comply with requirements	Pass
2	1.2	Assembly of all parts	Comply with requirements	Pass
3	1.3	Paint marking	Comply with requirements	Pass
4	2.1	Ratio of pitch diameter of traction ropes (D)	D = 400mm	Pass
		Working surface roughness of pulley	Ra = 40	
		Material of pulley	Material: QT600-3	
		Working surface roughness of sheave	Ra = 3.2	
		Working surface roughness of groove	Ra = 3.2	
		Working surface roughness of flange	Ra = 3.2	
		Working surface roughness of groove in radial direction of the pitch-circle	0.025mm	
		Average gap between the brakes and the brake sheave	0.20mm	
		Working surface roughness of brake sheave	Ra3.2μm	
		Average run-out of brake sheave working surface	0.02mm	
		Manual brake release device when emergency	Comply with requirements	Pass

No.	Items No.	Test items	Test results	Conclusions
20	3.7	Without using test of brake coil	Comply with requirements	Pass
21	3.9.0	All the mechanical components shall be installed in two sets	Comply with requirements	Pass
22	4	Manual means of emergency operation	Comply with requirements	Pass
23	5	Protection for traction cable	Comply with requirements	Pass
24	6	Torque vibration		
25	7	Speed	Rated speed: 2.50m/s Test speed: 239.0r/min Speed: 2.503m/s 100.1%V _{rated}	Pass
26	8	No-load running noise	Noise dBA: Front: 56.8 Back: 57.0 Left: 57.0 Right: 57.0 Upside: 57.5 Background: 41.0	Pass
27		Oil temperature	Stator winding temperature rise: 66.4K Before test-running Air temperature: 12.5℃	
28		Stator winding temperature rise	Stator winding coil resistance: 0.862Ω After test-running Air temperature: 10.6℃ Stator winding coil resistance: 0.835Ω	
29	9	Fault-free running and temperature	Brake coil temperature rise: 64.1K Brake coil highest temperature: 74.7℃ Before test-running Air temperature: 12.5℃ Brake coil resistance: After test-running Air temperature: 10.6℃ Brake coil resistance: 0.835Ω	Pass
30	10	Machine efficiency		No doubt about without
31	11.1	Special preparation for the lift to the outdoor environment		
32	11.2	Special preparation for the explosion protection lift		

Appendix Sample photo





检测
CNAS J10454



2017年07月02日



20317061 质量监督检验检疫总局



Certificate of Type Test for Special Equipment

No. TX F390-003-12 0002

Applicant's name and
address:

Shenyang Zhongyuan Technology Development Co., Ltd.
No.37 Shiji Road, Hunnan New District, Shenyang,
Liaoning

Annex

Construction of Permanent Magnet Machine

№: 4739020312002

Structure type of machine	Permanent magnet synchronous gearless	Structure type of motor	Permanent magnet synchronous outer rotor
Center distance of gear reducer	/	Structure type of gear reducer	/
Structure type or brake	Two sets, block type	Application environment	indoor

Issue date: 2015-04-16

Issue date of the Chinese version: 2015-04-16

