CNAS L0454

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(2011)国认监认字(134)号

Special Equipment Type Test Report

Report No. T3-F39-11-050

Category of Equipment: Safety Protection Component

Type of Equipment: Traction Machine

Name of Product: Permanent Magnet Synchronous Gearless Traction Machine

Model of Product: WYT-T

Applicant: Shenyang Bluelight Drive Technology Co., Ltd.

Manufacturer: Shenyang Bluelight Drive Technology Co., Ltd.

NETEC

National Elevator Inspection and Testing Center

NOTICE

1. Each type test certificate issued by National Elevator Inspection and Testing Center (abbreviation NETEC) is

Tel: 0316-2057334
Email: netec@chinaelevator.org
Web site: www.chinaelevator.org/center

NETEC

National Elevator Inspection and Testing Center

Type Test Report

No.: T3-0639-11-050

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Name of product	Permanent magnet synchronous gearless traction machine		
Model of product	WYT-T		
Serial No. of sample	201103769	Production date	2011-06-13

Main technical parameter	Rated speed	2.00m/s	Rated output torque	765N·m
	Motor rated power	15.4kW	Allowed radial load of traction sheave	3500kg
	Suspension ratio	2:1	Mode of wrapping	Single

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	2011-06-16	Sample state	No abnormal
Test category	Type test	Test item	All application
Test place	Shenyang Bluelight Drive Technology Co., Ltd.		
Test conditions	Comply with requirements		
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 Electric Lifts*		

items

of Lifts Part 1

SAMPLE'S MAIN TECHNICAL PARAMETERS AND CONFIGURATION

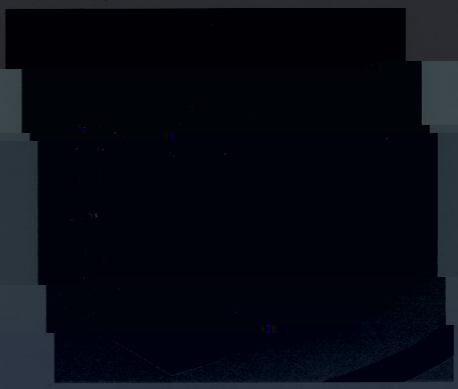
Model and name	WMT-[illegible] Permanent magnet synchronous gearless traction machine		
Applicable environment	Indoor	Structure type of traction machine	Permanent magnet synchronous gearless
Rated speed	2.00m/s	Rated output torque	765N·m
Rated load	1150kg	Allowed radial load of	3500kg

Test items and test results

No.	Items No.	Test items	Test results	Conclusions
1	1.1	Fastening and welding	Comply with requirements	Pass
2	2.1.2	Assembly of main parts	Comply with requirements	Pass
3	1.3	Paint marking	Comply with requirements	Pass
4	2.1.1	Ratio of pitch diameter of traction sheave (D) to diameter of traction ropes (d)	D = 400mm d = 10mm D/d = 40	Pass
5	2.2	Material of traction sheave and hardness deviation of groove (δ)	Material: QT600-3 1. HB239 2. HB230 3. HB225 4. HB229 5. HB10	Pass
6		Working surface roughness	Ra6.3μm	
7	2.3	Precision of groove of traction sheave	Working surface run-out in normal direction of the surface Working surface run-out in radial direction of the pitch-circle	0.14mm
8		Average gaps between the brakes and the brake sheave		
9		Working surface roughness of brake sheave		
11		Axial run-out of brake sheave working surface		
12	3.1	Manual brake release device when emergency		
13	3.2	Requirements for the belt transmission		

No.	Items No.	Test items	Test results	Conclusions
20	3.7	Withstand voltage test of brake coil	Comply with requirements	Pass
21	3.8	All the mechanical car components shall be installed on two sets	Comply with requirements	Pass
22	4	Manual means of emergency operation	Comply with requirements	Pass
23	5	Protection for traction sheave	Comply with requirements	Pass
24	6	Torque vibration	Rated speed: 2.00m/s Test speed: 192r/min Speed: 2.01m/s 100.5%V_{rated}	Pass
25	7	Speed		

Appendix Sample photo



Certificate of Type Test for Special Equipment

No. TX 5390 003 11 0050

Applicant's name and address:	Shenyang Bluelight Drive Technology Co., Ltd. No.37 Shiji Road, Hunnan New District, Shenyang, Liaoning
Manufacturer's name and address:	Shenyang Bluelight Drive Technology Co., Ltd. No.37 Shiji Road, Hunnan New District, Shenyang, Liaoning
Name of product (Type of equipment):	Permanent magnet synchronous gearless traction machine (traction machine)
Model and specifications:	WYT-T Rated speed: 2.00m/s (suspension ratio: 2:1) Rated power: 15.4kW
Configuration of product:	See annex
Type test equipment No.:	134-59-11-050

This certificate is valid for products of the models and specifications below (without change of the product configuration):

Rated speed: not more than 2.00m/s (suspension ratio: 2:1)

Rated power: not more than 15.4kW

After type test, this product is passed with the Rules of Type Test

Annex

Configuration of Traction Machine

No. TX-E390-003-11-0050

	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 of brake	Two sets, block type	Applicable environment	Indoor

Issue date: 2015-04

Issued date of the Chinese version: July 5, 2