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TYPE-EXAMINATION REPORT

Report No. ZC-ZAF07408

Page 1 of 1

Product category Safety protection devices of lift

Product name Lift traction machine

Product type SCYLH

Model Shenyang Blueight Drive Technology Co., Ltd.

Manufacturer Shenyang Blueight Drive Technology Co., Ltd.



SHENZHEN INSTITUTE OF SPECIAL EQUIPMENT INSPECTION AND CERTIFICATION
QUALIFICATION OF ELEVATOR QUALITY SUPERVISOR

Explanation..

1. The Laboratory is authorized by the State Administration for Market Regulation for elevator type examinations.

2. The Laboratory, General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China, with certificate number TS7610038-2011.

3. The Laboratory has obtained the authorization from the China National Accreditation Service for Conformity Assessment (CNAS), with the certificate number: 0036.

4. The report, if without the appropriate seal for inspection stamped by the Laboratory, shall be invalid.

5. The report, if without the signatures by specific inspector(s), reviser(s) and approver(s), shall be invalid.

6. Any incomplete copy of the report shall be invalid.

7. Any altered version of the report shall be invalid.

8. The inspection department and the inspector(s) shall undertake the responsibility for the inspection results concerning the regulated items.

9. The inspection results shall only apply to the inspected sample.

- Honggang Home Office

Name of Address: Shenzhen Institute of Special Equipment Inspection and Test Technology Building No. 1032, Honggang Road, Luohu District, Shenzhen, China

- Elevator Component Laboratory

Name & Address: China National Institute of Special Equipment Inspection and Test

No. 6, Chuanqiang Road, Minhu Industrial Area, East Side To Hafei, Luohu District, Shenzhen, China

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China National Institute of Special Equipment Inspection and Test

| | | | |
|-------------|-----------------------|---------------------|----------|
| Product | Lift traction machine | | |
| Type code | WYT-H | Sample No. | 20120637 |
| Product No. | / | Date of manufacture | / |

General technical data

Maximum rated speed
Maximum rated load 16000kg

Client

Name Shenyang Bluelight Drive Technology Co.,Ltd.
Address No.37 Shiji Road, Hunnan New District, Shenyang, China

Manufacturer

Name Shenyang Bluelight Drive Technology Co.,Ltd.
Address No.37 Shiji Road, Hunnan New District, Shenyang, China

Sample condition

Normal

Place of inspection

Huangsu Alpha Lift Co.,Ltd.

Date of inspection

2012/12/21

Type of inspection

Type-Examination

Condition of inspection

Ambient temperature: 5.0℃
Humidity: 44% Voltage: 407V

Inspection item

All suitable item

Standard for inspection

TSG T7001-2005 Regulation for Type Tests of Elevators
GB 7588-2003 Safety rules for the construction and installation of electric lifts (eqv. EN81-1:1998)

By the Type-Examination, the product is confirmed to be in accordance with TSG T7001-2005 Regulation for Type Tests of Elevators & GB 7588-2003 Safety rules for the construction and installation of electric lifts (eqv EN81-1:1998).

Conclusion

December 26, 2012

(stamp)
Date of issued: December 26, 2012

Approved by: [Signature] Reviewed by: [Signature] Inspected by: [Signature]

1. General technical data table

| | | | |
|---|--|-------------------------------|---|
| Type code | V&YT-H... | Apply the environment | Indoor |
| Rated speed | 800r/min | Rated output torque | 3625 N·m |
| Product No. | / | Date of manufacture | / |
| Construction pattern | Feedless | Reduction ratio | 1:1 |
| Rated load | 1600 kg | Hand winding device | With |
| Allowable total load on the traction sheave shaft | 35000kg | | |
| Type code | V&YT-H8.0E1 | Product No. | / |
| Rated power | 1.071kW | Rated rotate speed | 215rpm |
| Rated voltage | 240V | Rated current | 177.27A |
| Rated coil current | 6A | Overload protective device | thermistor |
| Material | | Rated frequency | 50/60Hz |
| | | Working frequency | / |
| | | Carrier frequency | / |
| | | Insulation class | F |
| | | Protection class | IP41L |
| | | Construction style | Outer |
| | | Working form | S5 |
| | | Frequency of starter | 240/h |
| | | Manufacturer | Shenyang BlueLight Drive Technology Co., Ltd. |
| | | Reduction style | / |
| | | Reduction ratio | / |
| Reduction ratio | 3:1 | Reduction style | / |
| Reduce load | / | Weight between center | / |
| Groove quantity | 16 | Shape of groove | / |
| Hoist ropes diameter | 12.5mm | Driving sheave pitch diameter | / |
| Hardness of the surface | HVB 240-276 | Heat treatment requirements | / |
| Round the rope method | Double wrap | Type code | EL-4025E1-10U |
| Function position | | Function position | |
| Service Brake | Insulation class | F | Brake drum diameter |
| Activate voltage | DC90V | Maintain voltage | / |
| Variable speed system | Variable voltage variable frequency control system | | |
| Driving system | Control | Frequency converter | |
| | Speed feedback | Rotary encoder | |

2. Item Description and Inspection Results

| No. | Items | Technical requirements | Test results | Comment |
|-----|---|---|-----------------------|---------|
| 1 | Welding joints, welds, and fixing condition | Welding joints should be covered up correctly. No cracks should be found in the splicing and welding positions. The splicing and welding position should be smooth and even. There should be no any other design anomalies phenomena. | | |
| 2 | 1.2 Assembly adjustment | Each component should be correctly adjusted and fixed. Movable parts can be turned flexibly. Each adjustment device can be reliably locked up. | meet the requirements | pass |
| 3 | 1.3 Notices and warnings | Brake releasing spanner should be painted yellow and hand wheels should be painted yellow. | meet the requirements | pass |
| 4 | 2.1 Rope diameter ratio | The pitch circle diameter of the traction sheave should not be less than 40 times of the diameter of the traction rope. | 44 | pass |
| | 2.2 Pulley | Ductile cast iron should be adopted, of which the abrasion resistance should not be less than 10% of the original weight. | | |

| | | | | |
|----|--------------------------------------|---|-----------------------|------|
| | 3.3 Connection of the components | The component on which the brake operates shall be coupled to the rotation of brake drum or sprocket by direct and positive connection means. Early brakes shall not be tested. | meet the requirements | pass |
| 14 | 3.4 Pressure on the brake shoe | The brake shoe load pressure shall be exerted by guided compression springs or weights. | meet the requirements | Pass |
| 15 | 3.5 Working state | To hold off the brake, it should not be required in normal operation. | meet the requirements | Pass |
| 16 | 3.6 Starting and release voltages | Respectively, the minimum starting voltage of the brake should not exceed 80% of the rated voltage of the solenoid. | DC 48V | Pass |
| 17 | | Respectively, the maximum release voltage should not exceed 55% of the rated voltage of the solenoid. | DC 300V | Pass |
| 18 | | The delayed time of the operation of the brake should not exceed 0.5s. | | |
| 19 | 3.7 Pressure resistance | Tests should be conducted for the pressure resistance of the brake coil. The voltage applied over the coil should not cause any puncture should occur. | meet the requirements | |
| 20 | 3.8 Brake setting | All the mechanical components of the brake which take part in the application of the braking action on the drum or disc shall be installed in two sets. | meet the requirements | |
| 21 | 4 Manual emergency operation devices | If the manual effort required to move the car in the upward direction with its rated load does not exceed 400N the machine shall be provided with a means of emergency operation allowing the car to be moved with the aid of a smooth and spokeless wheel. | meet the requirements | |
| 22 | | Measures should be taken to prevent the wire rope from getting off the groove in case of loosening. | meet the requirements | |



沈阳市特种设备安全检验研究院
Shenyang Institute of Special Equipment Safety Inspection
TS7610038-202011



TYPE-EXAMINATION CERTIFICATE

沈阳特种设备安全检验研究院 TS7610038-202011

Page 1 of 2

Product & type: Lift gearless traction machine, WYT - H

Name and address of certificate Holder: Shenyang BlueLight Drive Technology Co., Ltd.

No.37 Shiji Road, Hunnan New District, Shenyang, China

Manufacturer's name & address: Shenyang Jiyuan Elevator Co., Ltd.

No.37 Shiji Road, Hunnan New District, Shenyang, China

Date of Submission for Type-Examination: 2012-12

Test place: Shenyang Jiyuan Elevator Co., Ltd.

Inspection Report No. 2012AF0746

Date of Inspection: 20121221

The following documents, bearing the type-examination number shown above

This certificate inspection report No. 2012AF0746

Applicable standards/information: see the appendix TS7610038-202011

This certificate covers the following different construction products of the same

- of the product type WYT-H gearless traction machine whose motor speed of the traction sheave ≤ 8.0 m/s.

Certificate issued on the basis of the following requirements:

TSG T7001-2005 Regulation for Type Tests of Elevators

GB7588-2003 Safety rules for the construction and installation of electric

By the TSG

Product configuration table

| | | | | | | | |
|----------------------------------|--|----------------------------------|--|--|--|---------------------------|--|
| Product type | | WYT-H | | Environment applied to | | Indoor | |
| Max. rated power (kW) | | 81.7 | | Max. line speed of the traction sheave (m/s) | | 8.0 | |
| Construction pattern | | | | | | | |
| AC three-phase outer-rotor motor | | | | | | | |
| Brake | | | | | | | |
| Construction pattern | | AC three-phase outer-rotor motor | | Construction pattern | | Electromagnetic disc type | |
| Motor | | Height of the centre (mm) | | Function position | | Motor shaft | |
| | | 595 | | | | | |
| Reduction device | | Reduction style | | Supporting style | | Two-side support | |
| | | / | | | | | |
| | | Width between centres (mm) | | Traction sheave | | Shape of groove | |
| | | / | | | | R shape | |
| | | Reduce level | | | | Method of wrapping rope | |
| | | / | | | | Double wrap | |

Conversion principle of lift traction machine:

For the same type-series to the test traction machine, the certificate covers products whose motor rated power and line speed of the traction sheave are no more than the test sample. The client should list parameters of all covered products when submission. *The same type-series means: the whole construction pattern, style and width between centres of the reduction box construction pattern of the motor and brake are the same.

Lift rated speed and lift rated load are determined by the following formula:

Lift rated speed = line speed of the traction sheave / Traction rate

Lift rated load = Rated load of the traction machine * Traction rate