



Certificate concerning the examination of conformity

Certificate No.:	KP 300
Certification Body:	TÜV SÜD Industrie Service GmbH Zertifizierungsstelle für Produkte der Fördertechnik Westendstraße 199, 80686 München – Germany
Applicant/ Certificate Holder:	Shenyang Bluelight Drive technology Co.Ltd No.37 Shiji Road, Hunnan New District, 110179, Shenyang, China.
Date of application:	2013-03-18
Manufacturer	Shenyang Bluelight Drive technology Co.Ltd No.37 Shiji Road, Hunnan New District, 110179, Shenyang, China.
Product:	Traction Machine for lifts
Type	WYT-Y
Test Laboratory:	TÜV SÜD Industrie Service GmbH Zertifizierungsstelle für Produkte der Fördertechnik Westendstraße 199, 80686 München – Germany
Date and number of test report:	2014-02-13 KP 300&301
Specifications:	- Directive 95/16/EC – Annex I - Standard EN 81-1:1998+A3:2009
Statement:	The traction machine fulfils the safety requirements of the specifications and the scope of application stated in the test report. This statement is valid as long as all the traction machines are in full compliance with the sample of this examination of conformity and there is no change of the requirements in the specifications referring to traction machines.
Validity:	This certificate is valid until 2019-03-12
Date of issue:	2014-03-13

Certification body for lifts and cranes

Chadi Noureddine

Chadi Noureddine





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Industrie Service

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Zertifizierungsstelle für Produkte der Fördertechnik
Westendstraße 199,
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**Applicant/
Certificate Holder:** Canny Elevator Co., Ltd
No. 888 Kangli Road, Fenhu Economic Development
Zone, Wujiang City, Jiangsu Province, China 215213.

Date of application: 2013-03-18

Manufacturer Shenyang Bluelight Drive technology Co.Ltd
No.37 Shiji Road, Hunnan New District, 110179,
Shenyang, China.

Product: Traction Machine for lifts

Type WYT-Y

Test Laboratory: TÜV SÜD Industrie Service GmbH
Zertifizierungsstelle für Produkte der Fördertechnik
Westendstraße 199,
80686 München – Germany

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KP 300&301

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Certification body for lifts and cranes

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Industrie Service

Test Report

No. KP 300&301

Choose certainty.
Add value.

**Applicant /
Customer:**

Shenyang Bluelight Drive technology Co.Ltd
No.37 Shiji Road, Hunnan New District, 110179,
Shenyang, China.

Canny Elevator Co., Ltd
No. 888 Kangli Road, Fenhu Economic Development
Zone, Wujiang City, Jiangsu Province, China 215213

Manufacturer:

Shenyang Bluelight Drive technology Co.Ltd
No.37 Shiji Road, Hunnan New District, 110179,
Shenyang, China.

Date of application:

2013-03-18

Test Laboratory:

TÜV SÜD Industrie Service GmbH
Prüflaboratorium für Produkte der Fördertechnik
Westendstr. 199
80686 München - Germany

Date: 2014-02-13

Our reference:
TÜV SÜD / IS/RE-LCC / WP

Document:
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This document consists of
5 Pages.
Page 1 of 5

Product:

Traction machine for lifts

Type:

WYT-Y

Testing order:

Examination of conformity with specifications

Specifications:

- Directive 95/16/EC of 29th of June 1995
- Standard EN 81-1:1998+A3:2009

Kind of examination:

- Examination on correspondence with the specifications
- Function test

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only be reproduced and used for
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express written approval of
TÜV SÜD Industrie Service GmbH.

The test results refer exclusively
to the units under test.

Test result:

The carried out tests have shown, that design, manufacturing and the measured values were in compliance with the specifications.

**Place and
date of examination:**

Shenyang, 2013-03-20 & 2014-02-12





1. Main Specifications and Configuration

Type: WYT-Y

Rated Turning:	318 rpm
Rated speed:	4.0 m/s
Traction ratio:	2:1
Diameter of the Traction sheave:	480 mm
Rated output Torque:	1650 Nm
Braking Torque:	2 * 2,062.5 Nm
Maximum radial load of traction sheave:	117.72 kN
Mode of wrapping:	Double
Rated Voltage:	AC 380 V
Rated current:	127A
Frequency:	53 Hz
Rated power:	54.9 kW
Efficiency of the Traction machine:	95.9%
Isolation class:	F
Protection class:	IP 41

2. Generally

The comparison will be done in table form with the following legend:

X:	fulfilled
XX:	shall be fulfilled in installation at jobsite
O:	not relevant in this case
F:	not fulfilled

The result of the test report is based on the documentation shown under point 4.

3. Considered items

No.	No. of Sub-clause in standard EN 81-1: 1998+A3:2009	WYT-Y	Conclusion
1	9.2.1 The ratio between the pitch diameter (D) of sheaves, pulleys or drums and the nominal diameter (d) of the suspension ropes shall be at least 40, regardless of the number of strands.	X	X
2	9.7.1 For traction sheaves, pulleys and sprockets, provisions shall be made according to table 2 to avoid a) bodily injury b) the ropes leaving the pulleys (traction sheaves), if slack c) the introduction of objects between ropes and traction sheaves.	XX	XX
3	12.2.2 Use may be made of belts for coupling the motor or motors to the component on which the electro-mechanical brake operates. In this case a minimum of two belts shall be used	0	0

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4	<p>12.4.1.1 The lift shall be provided with a braking system, which operates automatically :</p> <p>a) in the event of loss of the mains power supply b) in the event of the loss of the supply to control circuits</p>	x	x
5	<p>12.4.2.1 This brake on its own shall be capable of stopping the machine when the car is travelling downward at rated speed and with the rated load plus 25 %. In these conditions the retardation of the car shall not exceed that resulting from operation of the safety gear or stopping on the buffer.</p> <p>All the mechanical components of the brake which take part in the application of the braking action on the drum or disk shall be installed in two sets. If one of the components is not working a sufficient braking effort to slow down the car, travelling downwards at rated speed and with rated load shall continue to be exercised. Any solenoid plunger is considered to be a mechanical part, any solenoid coil is not.</p>	x	x
6	<p>12.4.2.2 The component on which the brake operates shall be coupled to the traction sheave or drum or sprocket by direct and positive mechanical means.</p>	x	x
7	<p>12.4.2.3 To hold off the brake, in normal operation, shall require a continuous flow of current.</p>	x	x
8	<p>12.4.2.4 Any machine fitted with a manual emergency operating device (12.5.1) shall be capable of having the brake released by hand and require a constant effort to keep the brake open.</p>	x	x
9	<p>12.4.2.5 The brake shoe or pad pressure shall be exerted by guided compression springs or weights.</p>	x	x
10	<p>12.4.2.6 Band brakes shall not be used.</p>	0	0
11	<p>12.4.2.7 Brake linings shall be incombustible.</p>	x	x
12	<p>12.5.1 If the manual effort required to move the car in the upward direction with its rated load does not exceed 400 N the machine shall be provided with a manual means of emergency operation allowing the car to be moved to a landing with the aid of a smooth, spoke less wheel.</p>	Emergency electrical operation	Emergency electrical operation
13	<p>12.5.1.1 If the wheel is removable, it shall be located in an easily accessible place in the machine room. It shall be suitably marked if there is any risk of confusion as to the machine for which</p>	x	x

A.

	<p>it is intended.</p> <p>An electric safety device in conformity with 14.1.2 shall be actuated when the wheel is put on the machine at the latest.</p>		
14	<p>12.6 The speed of the lift car, half loaded, in downward motion, in mid-travel, excluding all acceleration and retardation periods, shall not exceed the rated speed by more than 5 %, when the supply is at its rated frequency, and the motor voltage is equal to the rated voltage of the equipment.</p> <p>This tolerance is also applicable for the speed in the case of :</p> <p>a) levelling (14.2.1.2 b) ; b) re- levelling (14.2.1.2 c) ; c) inspection operation (14.2.1.3 d) ; d) emergency electrical operation (14.2.1.4. e) ; e) docking operation (14.2.1.5 c).</p>	XX	XX
15	<p>12.11 Effective protection shall be provided for accessible rotating parts, which may be dangerous, in particular :</p> <p>a) keys and screws in the shafts ; b) tapes, chains, belts ; c) gears, sprockets ; d) projecting motor shafts ; e) fly-ball type over speed governors.</p> <p>Exception is made for traction sheaves with protections according to 9.7, hand winding wheels, brake drums and any similar smooth, round parts. Such parts shall be painted yellow, at least in part.</p>	XX	XX
16	<p>15.4.3.1 The direction of movement of the car shall be clearly indicated on the machine, close to the hand winding wheel.</p>	XX	XX

4. Summary

The traction machine fulfils the safety requirements of the specifications and the scope of application stated in the test report. This statement is valid as long as all the traction machines are in full compliance with the sample of this examination of conformity and there is no change of the requirements in the specifications referring to traction machines.

1.

5. Documents on which the test report is based

- |U1| Approval drawing no.WYT-Y2D.0 (1 page) dated 2013-02-18.
- |U2| Detailed drawing (12 pages) with TÜV SÜD stamp dated 2014-02-13.
- |U3| Main shaft analysis of WYT-Y series (1 Page)
- |U4| Application of traction machine from Shenyang Bluelight dated 2013-03-18.
- |U5| Application of traction machine from CANNY dated 2013-05-06.
- |U6| Declaration from Sheyang Bluelight dated 2013-06-09.

Prüflaboratorium für Produkte der Fördertechnik
Prüfbereich Aufzüge und Sicherheitsbauteile



Thoralf Mührel

Der Sachverständige



Wang Peng