

Report No. T14-B370-23-228

# Special Equipment Type Test Report (Lift)

Category of equipment: Lift major component

Type of equipment: Driving machine

Name of product: Lift traction machine

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Manufacturer: Shenyang Bluelight Drive Technology Co., Ltd.

Category of type test: First test

of *National Elevator Inspection and Testing Center*, the abbreviation and  
NETEC Inspection and Testing (Beijing) Co., Ltd. (*National  
Elevator Inspection and Testing Center*) both are NETEC.

3. Type test report is invalid without signatures of test, verification, approval,  
without approval certificate of type test institute number or is

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1 Technical parameters and configuration of the sample

Name of product	Lift traction machine
Model of product	WYT-Y
Structure type of driving machine	Horizontal type, no reducer device, driving sheave cantilever support, the output shaft is supported in two points
Rated speed	8.00 m/s
Rated output torque	1650 N·m
Allowed radial load of driving sheave shaft	12000 kg
Centerline height of output shaft (applicable to machine without gear reducer)	330 mm
Manual emergency operation device	Releasing brake handle + hand winding wheel





## 1 Technical parameters and configuration of the sample (continued)

Brake	Model	DZE
	Action position	Traction sheave
	Numbers and structure type	2 sets, brake arm drum type
	Insulation grade	F
	Rated working voltage of electromagnet	DC 200 V
	Diameter of brake sheave or inner and outer diameter of friction part of brake disc	620 mm
	Explosion protection type	/
	Explosion protection grade	/
	Rated working pressure of hydraulic brake release device	/
	Rated sustaining voltage/current of electromagnet	DC 100 V
Applicable driving system	Speed control mode	AC variable frequency control
	Type of speed controller	Frequency inverter
	Type of speed feedback device	Rotary encoder

## 2 Check the technical documents

No.	Items No.	Check items	Check results	Conclusion
1	X5.1	Conformity certificate document and relative technical documents	Comply with requirements	Pass
2	X5.2	Calculation documents	Comply with requirements	Pass
3	X5.3	Major design drawings	Comply with requirements	Pass

Check and test items

No.	Item No.	Check and test items	Check and test results	Conclusion
1	X6.2.1	Insulation resistance of stator winding	Comply with requirements	Pass
2	X6.2.2	Withstand voltage test	Comply with requirements	Pass
3	X6.2.3	Type of the braking system	Comply with requirements	Pass
4	X6.2.2	All mechanical components of the brake installed at least in two sets	Comply with requirements	Pass
5	X6.2.3	Braking pressure of the braking system	Comply with requirements	Pass
6	X6.2.4	Braking torque of lift machine	Comply with requirements	Pass
			Rated voltage: DC 200 V Activating voltage: DC 86 V, 43.0%U <sub>rated</sub> Comply with requirements	
7	X6.2.5	Activating and releasing voltage of electromagnet brake	Maximum releasing voltage: DC 32 V, 16.0%U <sub>rated</sub> Comply with requirements Minimum releasing voltage: DC 29 V, 14.5%U <sub>rated</sub> Comply with requirements	Pass
8	X6.2.6	Response time of activating		



No.	Items No.	Check and test items	Check and test results	Conclusion
14	X6.3.1	Working surface run-out in normal direction of the surface of the traction sheave	Comply with requirements	Pass
15	X6.3.2	The pitch diameter difference of each groove of the traction sheave	Comply with requirements	Pass
16	X6.3.3			Pass
17	X6.4			
18	X6.5.1	Temperature rise of the motor stator winding and brake coil	Motor stator winding temperature rise: 86.6 K Brake coil temperature rise: 53.7 K Comply with requirements	Pass
19	X6.5.2	Running noise of the drive machine	Running noise dB(A): Front: 60.7 Back: 59.6	Pass
20	X6.5.3	Vibration speed with no load of the lift machine for traction lift	Comply with requirements	
21	X6.5.4	Speed	Rated speed $V_{rated}$ Running speed: 8.015 100.2% $V_{rated}$ Comply with requirements	
22	X6.5.5	Appearance	Comply with requirements	
23	X6.5.6	Vm6 n 5		



