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Type Test Certificate for Special Equipment (Lift)

Certificate No. TSX F38001420230146

Applicant: Shenyang Bluelight Drive Technology Co., Ltd.
Address of applicant: NO.37 Shiji Road, Hunnan New District, Shenyang, China
Manufacturer: Shenyang Bluelight Drive Technology Co., Ltd.
Address of manufacturer: NO.37 Shiji Road, Hunnan New District, Shenyang, China
Category of equipment: Lift safety protection component
Type of equipment: Unintended car movement protection means
Name of product: Traction machine brake
Model of product: DZE
Type test report No.: T14-F380-23-146

After type test, it is confirmed that the product complies with the requirements of *Regulation for Type Test of Lifts* (TSG T7007—2022), GB/T 7588.1—2020, GB/T 7588.2—2020, EN 81-20: 2020 and EN 81-50: 2020.

Applicable product model of the certificate: DZE.

See appendix for applicable product parameters and configuration of the certificate.

Issue date: 2023-08-14

Review date: before 2027-08-14

NETEC Inspection and Testing (Beijing) Co., Ltd.
National Elevator Inspection and Testing Center

Note:

1 The applicant has responsibilities to ensure that the products conform to the requirements of the safety technical specifications and relative standards, and to ensure that the quality and safety performance of products are consistent with the tested sample mentioned above.

2. This certificate is not applicable to product manufactured after the review date.

Appendix

Applicable Parameters Range and Configuration of Unintended Car Movement Protection Means (Traction Machine Brake)

Structure type		Brake arm drum type
Number		2 sets
Material of friction element		Non asbestos rubber sheet carbon fiber
Type of elastic element		Helical spring
System mass range		1400 kg~7800 kg
Rated load range		450 kg~2000 kg
Type of stopping parts		Traction machine brake
Drive mode		Traction drive
Action site		Traction sheave
Tripping mode		Trigger when losing power
Anticipated highest speed before deceleration occurs		≤ 1.32 m/s
Response time		≤ 200 ms
Test speed for final inspection		0.25 m/s
Response time of detecting subsystem		≤ 40 ms
Hardware composition of trigger device (except when electromechanical service brake is used as braking part)		/
The distance limit corresponding to the test speed under the condition that the moving distance of the lift car does not more than 0.8 m, 1.0 m and 1.2 m	Not more than 0.8 m	Not considered
	Not more than 1.0 m	≤ 0.102 m (stopping distance, excluding moving distance before deceleration); Or: ≤ 0.200 m (including the moving distance within the response time of the cut-off brake power supply device); Or: ≤ 0.210 m (including the moving distance within the response time of the detecting subsystem and the cut-off brake power supply device).
	Not more than 1.2 m	≤ 0.126 m (stopping distance, excluding moving distance before deceleration); Or: ≤ 0.224 m (including the moving distance within the response time of the cut-off brake power supply device); Or: ≤ 0.234 m (including the moving distance within the response time of the detecting subsystem and the cut-off brake power supply device).
Range of inclination angle applicable to electric lifts with inclined path		/
<p>Note 1: The suspension ratio during type testing is 2:1. When used for other suspension ratios, the applicable system mass and lift rated load capacity can be converted based on the actual suspension ratio using the following formula: (1) System quality application range=Type test system quality range×Actual suspension ratio÷Type test suspension ratio; (2) Applicable range of rated load capacity=Type test rated load capacity range×Actual suspension ratio÷Type test suspension ratio.</p> <p>Note 2: The power supply device for cutting off the brake can be a contactor, a safety circuit containing electronic components, etc., and its response time should be ≤ 60 ms.</p> <p>Note 3: The method of triggering the braking component at the test speed during the final inspection: the lift goes up with no load, and when the lift reaches the test speed used for the final inspection, the power supply to the brake electromagnet is cut off, triggering the traction machine brake.</p> <p>Note 4: The permissible movement distance corresponding to the test speed is the calculated value for the empty upward working condition of the car, excluding the distance between the detection device and the installed landing station.</p>		

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