EU TYPE-EXAMINATION CERTIFICATE
According to Directive 2014/33/EU, (Module B, Annex IV A)

Certificate Number	: **LS-B-N 0116 / 26**
Identification Number of Notified body	: 2729
Name of Certificate Holder / Address	: Shenyang Bluelight Drive Technology Co., Ltd. No.37 Shiji Road, Hunnan New District, Shenyang, China
Manufacturer / Address	: Shenyang Bluelight Drive Technology Co., Ltd. No.37 Shiji Road, Hunnan New District, Shenyang, China
Date of Submission for EU Type-Examination	: 09.10.2025
Definition of Safety Component	: Traction Machine Brake
Model	: BLS
Applicable Directive/ Standards	: 2014/33/EU EN 81-20:2020, EN 81-50:2020
Examination Period	: March
Test Laboratory & place	: NETEC Inspection and Testing (Beijing) Co., Ltd. 61 Jinguang Ave., Guangyang District, Langfang, Hebei 065000, P.R.China
No. & Date of laboratory Report	: INT NET 25-071 - 2026-04-07
Documents annexed	: Drawings and User Manual
Field of application	: ANNEX 1, ANNEX 2, ANNEX 3

Date of Issue : 11.06.2026
Date of validity : 10.06.2031

Conformities / Additional Instructions:
The certificate holder must inform the certification body of all changes in materials, drawings and production assembly methods. The safety equipment enclosure must have a label with the required information.

Declaration and Conclusion of the Review:
We certify that the above-mentioned product type meets the basic requirements of the relevant norms for the specified field of application. Only the products detailed in the test report were subjected to the tests.

General Manager
Sebahattin ÇAY
Digitally signed.

TÜRKAK
Ürün
TS EN ISO/IEC 17065
AB-0106-U

GCNTR Uluslararası Belgelendirme Gözetim Eğitim ve Dış Tic. Ltd. Şti.
Kocaeli Kobi OSB 18. Cad. No:15 Dilovası – Kocaeli / TÜRKİYE
Tel: 0262 502 05 20 Fax: 0262 502 05 31 www.gcnturk.com / info@gcnturk.com

ANNEX 1

It belongs to certificate number LS-B-N 0116 / 26

Main technical parameter and configuration of the product

Name of product	Traction machine brake
Model of product	BLS
System total mass range	900 kg~14400 kg
Rated load range	320 kg~3000 kg

Traction machine brake	Structure type	Disc type
	Action position	Traction sheave shaft
	Quantity	2 sets
	Diameter of brake wheel (disc)	361 mm
	Pitch diameter of traction sheave	400 mm
	Rated braking torque	2×2500 N·m

Ascending car overspeed protection means	Rated speed range	0.50 m/s~3.50 m/s

Unintended car movement protection means	Anticipated highest speed before deceleration occurs	1.33 m/s
	Response time of stopping elements	≤210 ms
	Response time of detecting subsystem	≤60 ms
	Response time of the cut-off brake power supply device	≤68 ms
	Test speed for final inspection	0.25 m/s
	The distance limit corresponding to the test speed under the condition that the moving distance of the lift car does not more than 1.0 m	≤0.092 m (stopping distance, excluding moving distance before deceleration); or: ≤0.192 m (including the moving distance within the response time of the cut-off brake power supply device); or: ≤0.207 m (including the moving distance within the response time of the detection subsystem and the cut-off brake power supply device).

ANNEX 1(continued)
It belongs to certificate number LS-B-N 0116 / 26

Note 1: The suspension ratio during type testing is 2:1. When used for other suspension ratios, the applicable system mass, rated load and rated speed can be converted based on the actual suspension ratio using the following formula:
(1) Application range of system total mass =Type test system total mass range ×Actual suspension ratio÷Type test suspension ratio;
(2) Rated load range =Type test rated load range ×Actual suspension ratio÷Type test suspension ratio.
(3) Application range of rated speed = rated speed range of type test ÷ actual suspension ratio × type test suspension ratio.
Note 2: The traction machine brake is equipped with an action status monitoring switch, which can be used to verify the correct lifting or releasing of each set of brake mechanical devices in the self-monitoring function.
Note 3: When calculating the anticipated highest speed before deceleration occurs, the distance between the selected detection device and the installed landing station is 0.12 m, which refers to the distance the car leaves the landing station when unexpected movement is detected;
Note 4: The allowable response time of detecting subsystem does not include the response time of the cut-off brake power supply device;
Note 5: The cut-off brake power supply device can be of the types of contactors, safety circuits containing electronic components that cut off the brake current, etc.
Note 6: 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.

Average UCMP type test values according to EN 81-50:2020, 5.8

Maximum system mass representing an empty car in up direction

Rated braking torque	/	V_{max}	t_{10}	t_{50}	t_{90}
2×2500 N·m	Arithmetic mean	1.344	0.153	0.228	0.441

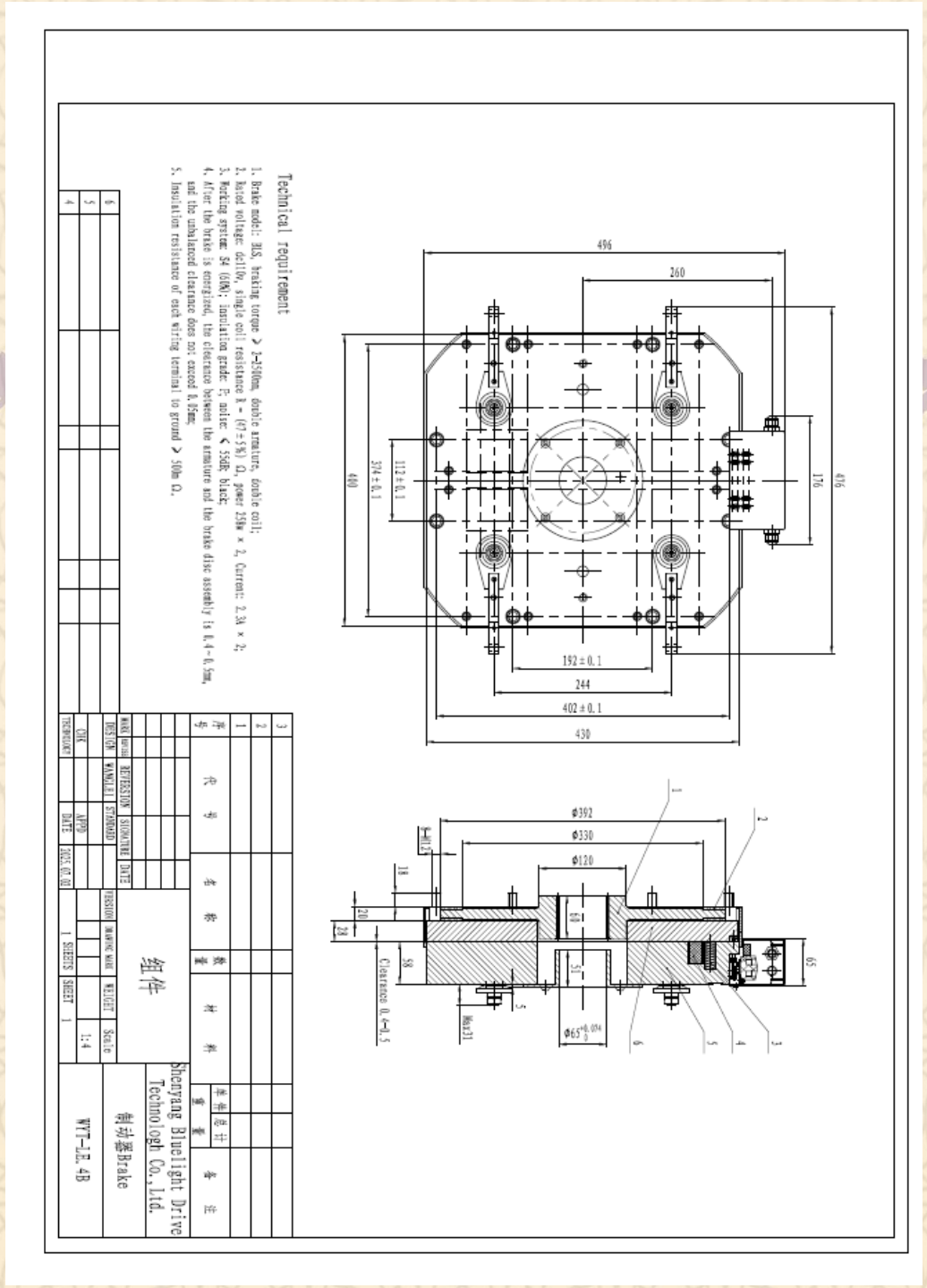
Maximum system mass representing a car carrying the rated load in down direction

Rated braking torque	/	V_{max}	t_{10}	t_{50}	t_{90}
2×2500 N·m	Arithmetic mean	1.345	0.155	0.239	0.603

Vmax Highest speed, m/s
t_{10}: Time between the drop of the braking power until establishing 10% of the nominal brake torque, s
t_{50}: Time between the drop of the braking power until establishing 50% of the nominal brake torque, s
t_{90}: Time between the drop of the braking power until establishing 90% of the nominal brake torque, s

ANNEX 2

It belongs to certificate number LS-B-N 0116 / 26



GLOBAL CERTIFICATION NETWORK

ANNEX 2

It belongs to certificate number LS-B-N 0116 / 26

GCNTR Uluslararası Belgelendirme Gözetim Eğitim ve Dış Tic. Ltd. Şti.
Kocaeli Kobi OSB 18. Cad. No:15 Dilovası – Kocaeli / TÜRKİYE
Tel: 0262 502 05 20 Fax: 0262 502 05 31 www.gcnturk.com / info@gcnturk.com

ANNEX 3

It belongs to certificate number LS-B-N 0116 / 26

Field of Application and Intended Use:

The safety component “Traction Machine Brake – Model BLS” is intended to be used as a braking element acting on the traction sheave shaft and as part of lift safety functions. It is used as part of the ascending car overspeed protection means in accordance with EN 81-20 §5.6.6 and as part of the unintended car movement protection means (UCMP) in accordance with EN 81-20 §5.6.7.

The component shall be used, where applicable, in combination with a speed monitoring device for overspeed protection and/or with a detection and control subsystem for unintended car movement protection, forming a complete safety function. The permitted application range is defined in ANNEX 1.

Compliance with Essential Health and Safety Requirements (EHSR):

The product complies with the relevant Essential Health and Safety Requirements of Directive 2014/33/EU. Compliance is demonstrated through EU Type Examination (Module B - Annex IV A) and Test Report No. INT NET 25-071.

Reference to Harmonised Standards and Traceability:

Compliance is based on EN 81-20:2020 and EN 81-50:2020. Verification has been performed according to EN 81-20 §5.6.6 and §5.6.7, and EN 81-50 §5.7 and §5.8, as detailed in Test Report No. INT NET 25-071.

Limitations and Conditions of Use:

The component shall be used within the limits defined in this certificate and shall not be used as a standalone safety function without integration into a complete safety system. The complete safety function depends on correct system integration. Installation, adjustment and maintenance shall be performed in accordance with the manufacturer’s instructions.