170908000850

Type Test Certificate for Special Equipment (Lifts)

Certificate Number: TSX F38002220160076

Applicant	:	ShenYang Bluelight Automatic Technology Co., Ltd
Registered address of applicant	:	No. 37 Shiji Road, Hunnan New District, Shenyang, China
Manufacturer	:	ShenYang Bluelight Automatic Technology Co., Ltd
Address of manufacturer	:	No. 99 Chuangxin No 1 Road, Hunnan New District, Shenyang,China
Classification	:	Lift safety protection component
Varieties	:	Unintended car movement protection system
Product name	:	Unintended car movement self-monitoring subsystem
Product model	:	BL-ZJC
Type test report number	:	ETC16F380076、ETC18F380YZ050

Through the type test, the sample lift (the sample) meets the requirements of the Regulation for Type Test of Lifts (TSG T7007-2016), GB 7588-2003+XG1-2015, EN 81-20:2014 and EN 81-50:2014.

Product models covered by this certificate: BL-ZJC

For product parameters and configuration covered by this certificate, see the attached table.

(Stamp)

Date of issue: 2016-08-18

Date of chang: 2018-08-18

Deadline of next check: 2020-08-18

Shanghai Jiao Tong University Elevator Test Center

Note: 1. The applicant is responsible for confirming that the products comply with the regulation and related standard specifications and are in accordance with the sample for type test.

2. The certificate is valid before the deadline of next check.

3. Period of validity of this certificate is always calculated from the date of issue even if the certificate is modified per request.

Attached table:

Applicable Parameters and Configuration Table

<table>
<tr><td rowspan="5">1</td><td>Self-monitoring mode</td><td colspan="4">Verification of correct lifting or dropping of the mechanical means and check braking force during the periodic maintenance</td></tr>
<tr><td>Hardware composition</td><td colspan="4">Main control board + Detector switch</td></tr>
<tr><td>Model of self-monitoring element</td><td colspan="4">Main control board: MU-V61, BMU-V61, MU-V51, BL2000-STB, BL3000-STB, FR2000-STB, FR3000-STB, BL2000-BHT, BL2000-BKT, FR-V51, FC-M01-V2, ECS-ED5000.V6, ECS-MC3000, ECS-MC2000, SANYO-C-01, SANYO-C2, SM6400, SECE3000A, ASIAFUJICLSYS-H515, ALP2000, FJ-MB2 VER9, FA0211, FHJI5000, FujiElevatorFUJI2000, KY-ZMC-B9, MEC3000-STB, XW2000-STB, ALP3000, ECS-BL3000-STB, ES2000-MC-V9, EMISON3000-STB, FUJI-FA0211, FujiElevatorFUJI3000, FA3000FrenchAircar, NK3000-STB, SEC3000-STB, SY-3000, SANY-3000, SLDZ-3000, STDV3-C, LME66, RH5000, LHRHINE_LIFT_RH5000, SM-YK, FJ-MPU-V4.0, LME68;
Detector switch: Unlimited</td></tr>
<tr><td rowspan="3">Working environment</td><td rowspan="3">Indoors</td><td rowspan="3">Installation position and quantity of self-monitoring element</td><td>Element</td><td>Installation position</td></tr>
<tr><td>Main control board</td><td>In the control cabinet</td></tr>
<tr><td>Detector switch</td><td>On the brake</td></tr>
<tr><td rowspan="5">2</td><td>Self-monitoring mode</td><td colspan="4">Verification of correct lifting or dropping of the mechanical means & Braking force test</td></tr>
<tr><td>Hardware composition</td><td colspan="4">Main control board + Frequency converter+Encoder</td></tr>
<tr><td>Model of self-monitoring element</td><td colspan="4">Main control board:MU-V61, BMU-V61, MU-V51, BL2000-STB, BL3000-STB, FR2000-STB, FR3000-STB, BL2000-BHT, BL2000-BKT, FR-V51, FC-M01-V2, ECS-ED5000.V6, ECS-MC3000, ECS-MC2000, SANYO-C-01, SANYO-C2, SM6400, SECE3000A, ASIAFUJICLSYS-H515, ALP2000, FJ-MB2 VER9, FA0211, FHJI5000, FujiElevatorFUJI2000, KY-ZMC-B9, MEC3000-STB, XW2000-STB, ALP3000, ECS-BL3000-STB, ES2000-MC-V9, EMISON3000-STB, FUJI-FA0211, FujiElevatorFUJI3000, FA3000FrenchAircar, NK3000-STB, SEC3000-STB, SY-3000, SANY-3000, SLDZ-3000, STDV3-C, LME66, RH5000, LHRHINE_LIFT_RH5000, SM-YK, FJ-MPU-V4.0, LME68;
Frequency converter: BL6, BL3;
Encoder: Unlimited</td></tr>
<tr><td rowspan="4">Working environment</td><td rowspan="4">Indoors</td><td rowspan="4">Installation position and quantity of self-monitoring element</td><td>Element</td><td>Installation position</td></tr>
<tr><td>Main control board</td><td>In the control cabinet</td></tr>
<tr><td>Frequency converter</td><td>In the control cabinet</td></tr>
<tr><td>Encoder</td><td>On the machine</td></tr>
</table>

Attached table:

<table>
<tr><td rowspan="5">3</td><td>Self-monitoring mode</td><td colspan="4">Verification of correct lifting or dropping of the mechanical means & Braking force test</td></tr>
<tr><td>Hardware composition</td><td colspan="4">Main control board + Detector switch+ Frequency converter+Encoder</td></tr>
<tr><td>Model of self-monitoring element</td><td colspan="4">Main control board:MU-V61，BMU-V61，MU-V51，BL2000-STB，BL3000-STB，FR2000-STB，FR3000-STB，BL2000-BHT，BL2000-BKT，FR-V51，FC-M01-V2，ECS-ED5000.V6，ECS-MC3000，ECS-MC2000，SANYO-C-01，SANYO-C2，SM6400，SECE3000A，ASIAFUJICLSYS-H515，ALP2000，FJ-MB2 VER9，FA0211，FHJI5000，FujiElevatorFUJI2000，KY-ZMC-B9，MEC3000-STB，XW2000-STB，ALP3000，ECS-BL3000-STB，ES2000-MC-V9，EMISON3000-STB，FUJI-FA0211，FujiElevatorFUJI3000，FA3000FrenchAircar，NK3000-STB，SEC3000-STB，SY-3000，SANY-3000，SLDZ-3000，STDV3-C，LME66，RH5000，LHRHINE_LIFT_RH5000，SM-YK，FJ-MPU-V4.0，LME68；
Detector switch: Unlimited ；
Frequency converter:BL6，BL3；
Encoder: Unlimited</td></tr>
<tr><td rowspan="5">Working environment</td><td rowspan="5">Indoors</td><td rowspan="5">Installation position and quantity of self-monitoring element</td><td>Element</td><td>Installation position</td></tr>
<tr><td>Main control board</td><td>In the control cabinet</td></tr>
<tr><td>Detector switch</td><td>On the brake</td></tr>
<tr><td>Frequency converter</td><td>In the control cabinet</td></tr>
<tr><td>Encoder</td><td>On the machine</td></tr>
</table>

Note to attached table:

1. When the parameter or configuration listed in the attached table has been changed, the type test must be done again.
2. Detector switch should be selected which have passed the 2 million action reliability test and can be provided the test reports issued by special equipment type test institution.

中国认可
国际互认
检测
TESTING
CNAS L1061

170908000850

No.: ETC18P380YZ050

Type Test Report for Special Equipment (Lifts)

Classification	:	Lift safety protection component
Varieties	:	Unintended car movement protection system
Product name	:	Unintended car movement self-monitoring subsystem
Product model	:	BL-ZJC
Manufacturer	:	ShenYang Bluelight Automatic Technology Co., Ltd
Applicant	:	ShenYang Bluelight Automatic Technology Co., Ltd
Type test category	:	First Verification of Conformance
Type test date	:	2018-08-14

Shanghai Jiao Tong University
Elevator Test Center

上海交通大学电梯检测中心
检验报告专用章

SJTUETC

Type Tests Report

Classification	Lift safety protection component	Varieties	Unintended car movement protection system
Product name	Unintended car movement self-monitoring subsystem	Product model	BL-ZJC
Product number	/	Date of manufacturing	/
Covered scope	/		
Applicant	ShenYang Bluelight Automatic Technology Co., Ltd		
Registered address of applicant	No. 37 Shiji Road, Hunnan New District, Shenyang, China		
Manufacturer	ShenYang Bluelight Automatic Technology Co., Ltd		
Registered address of manufacturer	No. 37 Shiji Road, Hunnan New District, Shenyang, China		
Address of manufacturing	No. 99 Chuangxin No 1 Road, Hunnan New District, Shenyang,China		
Test place	No. 99 Chuangxin No 1 Road, Hunnan New District, Shenyang,China		
Status of the sample lift (the sample)	Normal	Test Date	2018-08-14
Test Conditions	OK	Type test category	First Verification of Conformance
Regulation of testing	*Regulation for Type Test of Lifts* (TSG T7007-2016)、GB7588-2003+XG1-2015、EN 81-20:2014、 EN 81-50:2014		
Test Conclusion	Type Tests Passed		

Tester: 张骁 Date : 2018-08-18

Verifier: 吴安宗 Date : 2018-08-18

Approver: 张凤峰 Date : 2018-08-18

Approval No. of Notified Body:

TS7610022-2021

Shanghai Jiao Tong University
Elevator Test Center

Date of issue: 2018-08-18

1. The Configuration and Specifications of the Sample Lift (sample)

The main technical parameters and configuration sheet

<table>
<tr><td colspan="2">Name</td><td>Unintended car movement self-monitoring subsystem</td><td>Model</td><td colspan="4">BL-ZJC</td></tr>
<tr><td colspan="2">Applicable working environment</td><td>Indoors</td><td>Applicable explosion-proof type</td><td colspan="4">/</td></tr>
<tr><td rowspan="5">1</td><td>Hardware version</td><td>/</td><td>Software version</td><td colspan="4">V0</td></tr>
<tr><td>Self-monitoring mode</td><td colspan="5">Verification of correct lifting or dropping of the mechanical means and check braking force during the periodic maintenance</td></tr>
<tr><td>Hardware composition</td><td>Main control board + Detector switch</td><td>Component monitored and the structure</td><td colspan="4">Brake</td></tr>
<tr><td rowspan="3">Model of self-monitoring element</td><td rowspan="3">Main control board: MU-V61
Detector switch: Z-15GD-B</td><td rowspan="3">Installation position and quantity of self-monitoring element Element</td><td>Element</td><td>Quantity</td><td>Installation position</td></tr>
<tr><td>Main control board</td><td>1</td><td>In the control cabinet</td></tr>
<tr><td>Detector switch</td><td>2</td><td>On the brake</td></tr>
<tr><td rowspan="5">2</td><td>Hardware version</td><td>/</td><td>Software version</td><td colspan="4">V0</td></tr>
<tr><td>Self-monitoring mode</td><td colspan="5">Braking force test</td></tr>
<tr><td>Hardware composition</td><td>Main control board + Frequency converter+Encoder</td><td>Component monitored and the structure</td><td colspan="4">Brake</td></tr>
<tr><td rowspan="4">Model of self-monitoring element</td><td rowspan="4">Main control board:MU-V61
Frequency converter: BL6
Encoder: OIH100-2048C/T-S 5-5V</td><td rowspan="4">Installation position and quantity of self-monitoring element Element</td><td>Element</td><td>Quantity</td><td>Installation position</td></tr>
<tr><td>Main control board</td><td>1</td><td>In the control cabinet</td></tr>
<tr><td>Frequency converter</td><td>1</td><td>In the control cabinet</td></tr>
<tr><td>Encoder</td><td>1</td><td>On the machine</td></tr>
</table>

<table>
<tr><td rowspan="6">3</td><td>Hardware version</td><td>/</td><td>Software version</td><td colspan="3">V0</td></tr>
<tr><td>Self-monitoring mode</td><td colspan="5">Verification of correct lifting or dropping of the mechanical means & Braking force test</td></tr>
<tr><td>Hardware composition</td><td>Main control board + Detector switch+ Frequency converter+Encoder</td><td>Component monitored and the structure</td><td colspan="3">Brake</td></tr>
<tr><td rowspan="5">Model of self-monitoring element</td><td rowspan="5">Main control board: MU-V61
Detector switch: Z-15GD-B
Frequency converter: BL6
Encoder: OIH100-2048C/T -S5-5V</td><td rowspan="5">Installation position and quantity of self-monitoring element Element</td><td>Element</td><td>Quantity</td><td>Installation position</td></tr>
<tr><td>Main control board</td><td>1</td><td>In the control cabinet</td></tr>
<tr><td>Detector switch</td><td>2</td><td>On the brake</td></tr>
<tr><td>Frequency converter</td><td>1</td><td>In the control cabinet</td></tr>
<tr><td>Encoder</td><td>1</td><td>On the machine</td></tr>
</table>

2. Review on technical documents of the sample lift (the sample)

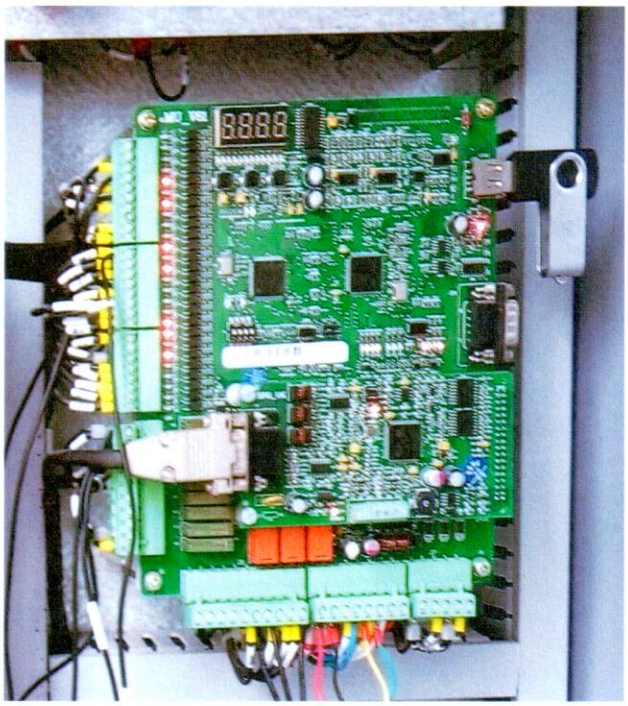
No.	Item Number	Review Items	Results	Conclusions
1	T5.1	Certificate of conformity and relevant technical material	Pass	Ok
2	T5.2	Key design parameter	Pass	Ok
3	T5.3	Application scope and design documents	Pass	Ok
4	--	Any other necessary	Inapplicability	/

3. Check and test of the sample lift (the sample)

No.	Item Number	Test Items	Results	Conclusions
1	T6.3	Self-monitoring subsystem	Pass	Ok

Attached:

1. Photograph of the sample



Main control board:MU-V61

2. The changing record of this type test report

No