SPECIAL EQUIPMENT TYPE TEST CERTIFICATE

No. TSX 3110037202300044

Applicant:	FUJI ELEVATOR CO., LTD.
Address of applicant:	18th Floor, Xinyuan Center, Fenghe Road, Xi'an, China
Manufacturer:	FUJI ELEVATOR CO., LTD.
Address of manufacturer:	18th Floor, Xinyuan Center, Fenghe Road, Xi'an, China
Equipment category:	Traction and positive drive lifts
Equipment type:	Traction drive passenger lifts
Name of product:	Traction drive passenger lift
Model:	APN
Number of type test report:	See Table 3

According to the type test, it is confirmed that the sample complies with the following safety technical specifications and standards:

Regulation for Type Test of Lifts (TSG T7007—2022)
GB/T 7588.1-2020 (except 5.10.1.1.3), GB/T 7588.2-2020
ISO 8100-1:2019 (except 5.10.1.1.3), ISO 8100-2:2019
EN 81-20:2020 (except 5.10.1.1.3), EN 81-50:2020

Applicable product model(s): APN, APB, APNO

The limits of parameter and configuration are annexed to this certificate.

(Stamp of type test institution)

Date of issue: 2023/03/31

Date of alteration: /

Guangdong Institute of Special Equipment Inspection and Research
National Elevator Quality Inspection and Testing Center (Guangdong)

NOTE 1 The applicant is responsible for ensuring that the product complies with the safety technical specifications and related standards, as well as the consistency with the quality and safety performance of the type test sample.

NOTE 2 The content of this certificate is consistent with the content of the Chinese version of the certificate with the same certificate number.

Table 1 — Limits of parameter range and configuration

Equipment category:	Traction and positive drive lifts		
Equipment type	Traction drive goods passenger lifts		
Name of product	Traction drive goods passenger lift		
Model	AF		
Rated speed (m/s)	Upward ≤ 1.0 Downward ≤ 1.0	**Rated load (kg)**	≤ 5000
Equipment protection level	/	**Explosion-proof level**	/
Speed control mode	VVVF	**Type of drive**	Traction
Speed control devices manufacturer	See table 2		
Control devices manufacturer	See table 2		
Arrangement and location of lift machine	Overhead type M/C room		
Lift machine manufacturer	See table 2		
Reeving factor	4：1	**Reeving mode**	Single wrap
Quantity of car(s)	1	**Quantity of guide rails**	≥ 2 rows
Arrangement of devices for emergency and test operations	/		
Link between multiple cars	/		
Type of ascending car overspeed protection means	Driving machine brakes		
Type of unintended car movement protection means	Acting on a tractor wheel or a tractor axle with only two supports (traction driving machine brake)		
Explosion-proof type	/		
Explosion-proof environment	/		
PESSRAL settle	Applicable, See function page of PESSRAL for details		
Product for special purpose	/		
Model of cladded belts/cladded steel ropes	/		
Specification of cladded belts/cladded steel ropes	/		
Manufacturer of cladded belts/cladded steel ropes	/		
Pitch diameter of traction sheaves (mm)	/		

Surface claddings of cladded belts/cladded steel ropes	/
Pitch diameter of guide pulleys (mm)	/
Pitch diameter of diverter pulleys (mm)	/

Table 2 – Manufacturer of control devices, speed control device and lift machine

Speed control devices manufacturer	01	Suzhou Inovance Technology Co., Ltd.
	02	Hangzhou Optimax Tech. Co., Ltd.
	03	/
	04	/
	05	/
Control devices manufacturer	01	Suzhou Inovance Technology Co., Ltd.
	02	Hangzhou Optimax Tech. Co., Ltd.
	03	/
	04	/
	05	/
Driving machines manufacturer	01	Zhejiang Xizi Forvorda Electrical Machinery Co., Ltd.
	02	Suzhou Mona Drive Equipment Co., Ltd.
	03	Suzhou Torin Drive Equipment Co., Ltd.
	04	GOSHIN ELEVATOR TECHNOLOGY CO., LTD.
	05	Kinetek De Sheng Motor (FOSHAN SHUNDE) Co., Ltd.

Function page of PESSRAL

Function	Detection of unintended car movement with open doors (minimum SIL 2)
	Check on levelling, re-levelling and preliminary operations (minimum SIL 2)
	Safe Torque Off (STO) function (minimum SIL 3, hardware failure margin is at least 1)
Manufacturer	Suzhou Inovance Technology Co., Ltd.

Table 3 — Type test report corresponding to this certificate

Number of reports	Content
TSX 3120T3720200011	Initial test
TSX 3120T5620230142B01	Additional test basis the renew TSG T7007-2022 Additional test added basis GB/T 7588.1—2020, GB/T 7588.2—2020, ISO 8100-1:2019, ISO 8100-2:2019, EN 81-20:2020, EN 81-50:2020
TSX 3120T5620230142B02	Additional test added Suzhou Torin Drive Equipment Co., Ltd. as driving machines manufacturer
TSX 3120T5620230142B03	Additional test added GOSHIN ELEVATOR TECHNOLOGY CO., LTD. as driving machines manufacturer
TSX 3120T5620230142B04	Additional test added Kinetek De Sheng Motor (FOSHAN SHUNDE) Co., Ltd. as driving machines manufacturer
TSX 3120T5620230142B05	Additional test added Hangzhou Optimax Tech. Co., Ltd. as control devices manufacturer Additional test added Hangzhou Optimax Tech. Co., Ltd. as speed control devices manufacturer
TSX 3120T5620230142B06	Additional test added Suzhou Mona Drive Equipment Co., Ltd. as driving machines manufacturer