CERTIFICATE NO FS/71/220/25/1777

ZERTIFIKAT NR.:

LICENCE HOLDER
GENEHMIGUNGSINHABER

Suzhou Inovance Technology Co., Ltd.
No. 52, Tian E Dang Road, Wuzhong District, 215104, Suzhou City, Jiangsu Province, P.R. China

MANUFACTURING PLANT
FERTIGUNGSSTÄTTE

Suzhou Inovance Technology Co., Ltd.
No. 52, Tian E Dang Road, Wuzhong District, 215104, Suzhou City, Jiangsu Province, P.R. China

PROJECT NO/-ID
PROJEKT-NR/-ID

V18F

LICENSED TEST MARK
GENEHMIGTES PRÜFZEICHEN

SGS TÜV SAAR
FUNKTIONALE SICHERHEIT GEPRÜFT
FUNCTIONAL SAFETY APPROVED

Technical REPORT NO.
TECHNISCHER BERICHT NR.

V18F0002, V18F0003, V18F0004, V18F0005, V18F0006

Tested according to
Geprüft nach

EN 61508:2010, EN ISO 13849-1:2023, EN ISO 13849-1:2015, EN 61800-5-2:2017, EN 61800-5-2:2007 , EN IEC 62061:2021

Certified product(s)
Zertifizierte(s) Produkt(e)

AC drive

Model(s)
Modell(e)

SV680F series

Technical Data and Parameter
Technische Daten und Parameter

The products fulfil the requirements of functional safety acc. to EN 61508:2010, EN IEC 62061:2021 in accordance with SIL 3, HFT=1 and EN ISO 13849-1:2015, EN ISO 13849-1:2023 PL e, Cat. 3 and the requirements acc. to EN 61800-5-2:2017, EN 61800-5-2:2007.

Specific Requirements
Spezifische Anforderungen

This certificate confirms the achievement of the requirements based on the following proof:
Proof that processes and methods are established at the manufacturer guaranteeing that unexceptionable processes in terms of design, production, validation, and quality management comply with the safety-related standards (refer to reports V18F0002, V18F0003, V18F0004, V18F0005, V18F0006)

Certification Body for Functional Safety SGS-TÜV Saar GmbH

The validation status is documented via SGS Certification Database.

The test mark regulation is an integral part of this certificate.

Munich, May 19d 2025

Robert Sammer

SGS-TÜV Saar GmbH, Benzstr. 28,
D-82178 Puchheim near Munich, Deutschland / Germany.

Website: www.sgs-tuv-saar.com/fs
E-Mail: fs@sgs.com

Referred to on Certificate No.: FS/71/220/25/1777
Product: AC Drive
Attachment:

No.	Size	Type designation	Remark
1	A	SV680FS1R6S(a)	SV680F drive series product variants with safety functions Safe Torque Off (STO) / Safe Brake Control (SBC) / Safe Stop 1 (SS1) / Safe Operating Stop (SOS) / Safe Stop 2 (SS2) / Safely-Limited Speed (SLS) / Safe Speed Monitor (SSM) / Safe Direction (SDI)
2	A	SV680FS2R8S(a)	
3	C	SV680FS5R5S(a)	
4	C	SV680FS7R6S(a)	
5	D	SV680FS012S(a)	
6	E	SV680FS018S(a)	
7	E	SV680FS022S(a)	
8	E	SV680FS027S(a)	
9	C	SV680FT3R5S(a)	
10	C	SV680FT5R4S(a)	
11	D	SV680FT8R4S(a)	
12	D	SV680FT012S(a)	
13	E	SV680FT017S(a)	
14	E	SV680FT021S(a)	
15	E	SV680FT026S(a)	
16	A	SV680FS1R6I(a)	SV680F drive series product variants with only safety function Safe Torque Off (STO)
17	A	SV680FS2R8I(a)	
18	C	SV680FS5R5I(a)	
19	C	SV680FS7R6I(a)	
20	D	SV680FS012I(a)	
21	E	SV680FS018I(a)	
22	E	SV680FS022I(a)	
23	E	SV680FS027I(a)	
24	C	SV680FT3R5I(a)	
25	C	SV680FT5R4I(a)	
26	D	SV680FT8R4I(a)	
27	D	SV680FT012I(a)	
28	E	SV680FT017I(a)	
29	E	SV680FT021I(a)	
30	E	SV680FT026I(a)	

Note:

a. All models listed in above table are all certified safety-relevant products, the customer may add an additional suffix (see note b) to these models. This suffix can serve as an extra customer identification and does not change the certified safety-relevant properties and designation of the models (refer to above table).

b. 'a' can be a space or suffix (alphanumeric characters, symbols)

Safety encoder of SV680F drive series

No.	Type Designation	Remark
1	EA33H6-B26M16-TH5N1T	Safety Function: Measures the incremental position of 1 to 512 grating lines within one revolution – named single turn.
2	EA45H8-B26M16-TH5N1T	
3	EA79R8-B26M16-TH5Y3-FS	