CERTIFICADO ◆ 인증서 ◆ CERTIFICATO ◆ 認証書 ◆ CERTIFICATE ◆ 认证证书 ◆ ZERTIFIKAT

C E R T I F I C A T E

No. Z10 092835 0452 Rev. 00

Holder of Certificate: **Suzhou Inovance Technology Co., Ltd.**
No. 52, Tian E Dang Road, Wuzhong District
215104 Suzhou City, Jiangsu Province
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:

Product: **Safety components**
Power Drive System

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: SS106054C

Valid until: 2031-05-21

Date, 2026-06-03

(Dr.-Ing. Volker Schneider)

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Parameters:

Ambient temperature	0°C ... +55°C
Humidity	max. 90% RH
Altitude	max. 2000m above sea level
Safety functions	Safe Torque Off (STO)/Safe Brake Control (SBC)/ Safe Stop 1 (SS1) Safe Stop 2 (SS2)/Safe Operating Stop (SOS) / Safe Limit Speed (SLS) Safe Direction (SDI)/ Safe Speed Monitor (SSM)

The report listed below is a mandatory part of the certificate.

Safety Concept with Safety Encoder:
- Safe Torque Off (STO), STO triggered by STO Input: SIL 3, PL e, Cat. 3
- Safe Torque Off (STO), STO triggered by DI / FSoE: SIL 2, PL d, Cat. 2
- Safe Brake Control (SBC): SIL 2, PL d, Cat. 2
- Safe Stop 1 time monitored (SS1-t): SIL 2, PL d, Cat. 2
- Safe Stop 1 ramp monitored (SS1-r): SIL 2, PL d, Cat. 2
- Safe Stop 2 (SS2): SIL 2, PL d, Cat. 2
- Safe Operating Stop (SOS): SIL 2, PL d, Cat. 2
- Safe Limit Speed (SLS): SIL 2, PL d, Cat. 2
- Safe Direction (SDI): SIL 2, PL d, Cat. 2
- Safe Speed Monitor (SSM): SIL 2, PL d, Cat. 2

Safety Concept with Standard Encoder (Non-Safety) Encoder
- Safe Torque Off (STO), STO triggered by STO Input: SIL 3, PL e, Cat. 3
- Safe Torque Off (STO), STO triggered by DI / FSoE: SIL 2, PL d, Cat. 2
- Safe Brake Control (SBC): SIL 2, PL d, Cat. 2
- Safe Stop 1 time monitored (SS1-t): SIL 2, PL d, Cat. 2
- Safe Stop 1 ramp monitored (SS1-r): SIL 2, PL d, Cat. 2 *Limitations apply
- Safe Limit Speed (SLS): SIL 2, PL d, Cat. 2 *Limitations apply
- Safe Direction (SDI): SIL 2, PL d, Cat. 2 *Limitations apply
- Safe Speed Monitor (SSM): SIL 2, PL d, Cat. 2 *Limitations apply

*Please refer to SS1016053T

Tested according to:

IEC 61508-1:2010
EN 61508-1:2010
IEC 61508-2:2010
EN 61508-2:2010
IEC 61508-3:2010
EN 61508-3:2010
IEC 62061:2021
EN IEC 62061:2021
ISO 13849-1:2023
EN ISO 13849-1:2023
IEC 61800-5-2:2016
EN 61800-5-2:2017
EN 61800-5-2:2007

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C E R T I F I C A T E

No. Z10 092835 0452 Rev. 00

Model(s): **SV670/SV680 Series**

Nomenclature and Identification of Power Drive System SV670 Series

SV670	N	S	1R6	S	-INT	(a)
I	II	III	IV	V	VI	VII

Key	No.	Content
Product Series	I	SV670: SV670 general-purpose servo drive
Product Type	II	N: EtherCAT communication type
Voltage Levels	III	S: 220V or 200V T: 380V or 400V
Rated output current	IV	S: 220V or 200V 1R6: 1.6A 2R8: 2.8A 5R5: 5.5A 7R6: 7.6A 012: 12.0A 018: 18.0A 022: 22.0A 027: 27.0A T: 380V or 400V 1R4: 1.4A 2R3: 2.3A 3R5: 3.5A 5R4: 5.4A 8R4: 8.4A 012: 12.0A 017: 17.0A 021: 21.0A 026: 26.0A
Model configuration	V	S: Safety model (SIL2 level functional safety)
Model configuration	VI	INT: International Edition Blank: Domestic Edition
Suffix	VII	10 digits, can be blank or combination of any alphanumeric and/or symbols that represents customer identity.

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C E R T I F I C A T E

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Nomenclature and Identification of Power Drive System SV680 Series

SV680	N	S	2R8	S	-SINT	(a)
I	II	III	IV	V	VI	VII

Key	No.	Content
Product Series	I	SV680: SV680 general-purpose servo drive
Product Type	II	N: EtherCAT communication type
Voltage Levels	III	S: 200V T: 400V
Rated output current	IV	S: 200V 1R6: 1.6A 2R8: 2.8A 5R5: 5.5A 7R6: 7.6A 012: 12.0A 018: 18.0A 022: 22.0A 027: 27.0A T: 400V 1R4: 1.4A 2R3: 2.3A 3R5: 3.5A 5R4: 5.4A 8R4: 8.4A 012: 12.0A 017: 17.0A 021: 21.0A 026: 26.0A
Model configuration	V	S: Safety model
Model configuration	VI	SINT: SIL2 international version
Suffix	VII	10 digits, can be blank or combination of any alphanumeric and/or symbols that represents customer identity.

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List of Compatible Encoder Types:

Product Series	Encoder communication type	Compatible Encoder
SV680N****S-SINT(a)	Inovance Communication Encoder	Safety encoder (S6)
	Inovance Communication Encoder	Standard encoder (A6, V6, A3, V3, A1, U3, ELMI head)
	ABZ Incremental Encoder (TTL Signal)	Standard encoder (ELOI head, LC10IC001AB20P00, LC10IC001AB05F00)
SV670N****S-INT(a)	Inovance Communication Encoder	Standard encoder (A3, V3, A1, U3, ELMI head)
	ABZ Incremental Encoder (TTL Signal)	Standard encoder (ELOI head, LC10IC001AB20P00, LC10IC001AB05F00)
SV670N****S(a)	Inovance Communication Encoder	Standard encoder (A3, V3)