

# Certificate

**Certificate**  
FSCO-00096

**Issue date**  
2024-05-24

**Expiration date**  
2029-05-23

**Report Reference**  
4790877089



This is to acknowledge that

## **EVER ELETTRONICA SRL**

Via Del Commercio 9/11 Lodi, LO, 26900  
Italy

has had

**SW5 A 9052 or 5080, SW5 A 9030, AW5 A  
91K5, SW5 D 3070, AW5 A 6750 or 9750, AW5  
D 3560**

evaluated and meets the requirements of the standard(s)

**ISO 13849-2, 2nd Ed., Issue Date: 2012-10-15; ISO 13849-1,  
Edition 3, Issue Date 2015-12-04**

### **General Conditions and Notes**

- 1) This certificate (in accordance with UL's Functional Safety Certificate Scheme) does not imply that UL has issued product-marking based safety certification (such as Listing, Recognition, or Classification) nor will the referenced report authorize the use of product safety certification marks or other references to UL on these products.
- 2) This certificate only covers the product version that is listed in the report reference. Any changes applied to the certified product are not covered by this Certificate.

### **Certification Program Owner:**

André Thieme

A handwritten signature in blue ink that reads 'André Thieme'.

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# FUNCTIONAL SAFETY CERTIFICATE OF COMPLIANCE

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## SW5 A 9052 or 5080

followed by L, H, E, M, C, P, T, I, R, S, N, followed by 2, followed by 2, E, G followed by 1, 2, followed by -, followed by 0, 1, 2, 3, followed by additional one alphanumeric digit for end use customization.

<b>HW Version Identification:</b>	<b>SW Version Identification:</b>
ISD00-05	STO based on HW only

The certified module provides the following safety ratings:

Safety Function/Goal	Maximum Safety Rating	PFH avg /h	DC %	MTTFd (years)	SRL	Cat.	CCF
STO	PL e	6.44E <sup>-9</sup>	99	100	NA	4	75

## SW5 A 9030

followed by L, H, E, M, C, P, T, I, R, S, N, followed by 2, followed by 2, E, G followed by 1, 2, followed by -, followed by 0, 1, 2, 3, followed by additional one alphanumeric digit for end use customization.

<b>HW Version Identification:</b>	<b>SW Version Identification:</b>
ISD05-01 ISD04-02 ISD04-01	STO based on HW only

The certified module provides the following safety ratings:

Safety Function/Goal	Maximum Safety Rating	PFH avg /h	DC %	MTTFd (years)	SRL	Cat.	CCF
STO	PL e	7.04E <sup>-9</sup>	99	100	NA	4	75

## AW5 A 91K5

followed by L, H, E, M, C, P, T, I, R, S, N, followed by 2, followed by 2, E, G followed by 1, 2, followed by -, followed by 0, 1, 2, 3, followed by additional one alphanumeric digit for end use customization

<b>HW Version Identification:</b>	<b>SW Version Identification:</b>
ISD00-05	STO based on HW only

The certified module provides the following safety ratings:

Safety Function/Goal	Maximum Safety Rating	PFH avg /h	DC %	MTTFd (years)	SRL	Cat.	CCF
STO	PL e	6.44E <sup>-9</sup>	99	100	NA	4	75

## SW5 D 3070

followed by L, H, E, M, C, P, T, I, R, S or N, followed by 4, followed by S or T, followed by 1 or 2, followed by -, followed by 0, 1, 2 or 3, followed by additional one alphanumeric digit for end use customization

<b>HW Version Identification:</b>	<b>SW Version Identification:</b>
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# FUNCTIONAL SAFETY CERTIFICATE OF COMPLIANCE

WSX00	STO based on HW only
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The certified module provides the following safety ratings:

Safety Function/Goal	Maximum Safety Rating	PFH avg /h	DC %	MTTFd (years)	SRL	Cat.	CCF
STO	PL e	7.04E <sup>-9</sup>	99	100	NA	4	75

**AW5 A 6750 or 9750**

**followed by L or H or E or M or C or P or T or I or R or S or N, followed by 2, followed by 2 or E or G followed by 1 or 2, followed by -, followed by 0 or 1 or 2 or 3, followed by additional one alphanumeric digit for end use customization.**

<b>HW Version Identification:</b>	<b>SW Version Identification:</b>
ISD05-01 ISD04-02 ISD04-01	STO based on HW only

The certified module provides the following safety ratings:

Safety Function/Goal	Maximum Safety Rating	PFH avg /h	DC %	MTTFd (years)	SRL	Cat.	CCF
STO	PL e	7.04E <sup>-9</sup>	99	100	NA	4	75

**AW5 D 3560**

**followed by L, H, E, M, C, P, T, I, R, S or N, followed by 4, followed by S or T, followed by 1 or 2, followed by -, followed by 0, 1, 2 or 3, followed by additional one alphanumeric digit for end use customization.**

<b>HW Version Identification:</b>	<b>SW Version Identification:</b>
WSX00	STO based on HW only

The certified module provides the following safety ratings:

Safety Function/Goal	Maximum Safety Rating	PFH avg /h	DC %	MTTFd (years)	SRL	Cat.	CCF
STO	PL e	7.04E <sup>-9</sup>	99	100	NA	4	75

The STO function DOES NOT protect the user from unexpected movements of permanent magnet motors in case of failure on the power output section (short-circuit on the output IGBT).

### Conditions of Safe Use of the Certified Product:

- The product must be installed, operated, and maintained as specified in:

Document Identifier	Revision	Issue Date	Title
Safety Manual_STO on SW5D3070-AW5D3056 Serie_GB_R00.docx	00	2023-06-14	Manual for Safety Function Safe Torque Off (STO)

- The manufacturer of the certified product shall keep record of the failure analysis for all returned products.

### Certificate Revision Records

Issue Date	Revised Date	Report Reference No	Summary of Change Records
2024-05-24	2024-05-24	4790877089	Initial approval



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