

# CERTIFICATE

Registered No.:  
**CER-IND 1102822211007001**

Date of expired  
30 March 2028

Assessment report No.  
CR-IND 1102822211007001

Date of issue  
31 March 2023

Revision:  
0

This is to certify that the following company comply with the relevant requirements of mentioned safety standards:

**Applicant:** Suzhou Shihlin Electric & Engineering Co., Ltd.  
**Address:** No.88, Guangdong St., Suzhou New District,  
Jiangsu, P.R. China

**Product:** SDC-E Series AC Servo Drivers  
SIL2 (HFT=1), PL d, Cat.3

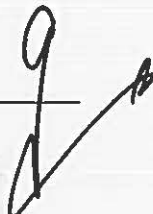
**Scope:** IEC 61508: 2010, (Part 1~7)  
ISO 13849-1: 2015  
IEC62061: 2021  
Safety Function: Safety Torque Off.

**Remark:** PFD<sub>avg</sub> and Architecture Constraints must be verified for each application.

IEC 61800-5-2: 2016 was referred in the assessment.

The unit must be properly integrated into a Safety Instrumented function per the requirements in Safety Manual.

Mr. Jeffery Fan  
Name and Signature



Issued at Shanghai  
Place, Stamp



Approval and signed after  
the first annually  
surveillance audit:

Approval and signed after  
the second annually  
surveillance audit:



# APPENDIX

## of certificate No.: CER-IND1102822211007001

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<b>Product:</b>	<b>SDC-E Series AC Servo Drivers</b>	
<b>Specific of product:</b>	Type:	Type B Element
	Route:	1 <sub>H</sub>
	DC: ( Diagnostic coverage )	36.63 %
	$\lambda_d$ Dangerous Failure Rate	8.09E-08
	$\lambda_{du}$ (Dangerous Undetected Failure Rate)	5.13E-08
	$\lambda_{dd}$ (Dangerous Detected Failure Rate)	2.97E-08
	$\lambda_s$ Safe Failure Rate	1.57E-04
	Proof test intervals:	4380 Hours (Half Year)
	MTTR: ( Mean Time to Repair )	8 Hours
	$\beta$ : ( Fraction of common cause )	10%
PFH @ 1oo2: (Average Frequency of dangerous Failure[h-1])	5.13E-09	

Approval and signed after the first annually surveillance audit:

Approval and signed after the second annually surveillance audit: