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Applicant	
-Company Name	Lihong Safety Equipment Engineering (Shanghai) Co., Ltd.
-Company Address	1st Floor, Building 1, No. 2816 Yixian Road, Boashan District, Shanghai 201900, P.R. China
Manufacturer	
-Company Name	Same as the applicant
-Company Address	Same as the applicant
Machinery	
-Product Name	Safety programmable controller
-Representative Model	SPC-1000 (Original model: SPC-MC208400E4), SPC-SIO8 (Original model: SPC-IO08420000), SPC-SIO12 (Original model: SPC-EN0000S000)
-Serial No.	See marking plate
-Rating	See marking plate
-Serial Model(s)	N/A
Verifying specification	
-standard(s):	EN 61131-2:2007
-verification method:	Testing and engineer assessment
Possible verdicts	
-does not apply to the EUV:	N/A (Not Applicable)
-does meet the requirement:	P (Pass)
-does not meet the requirement:	F (Fail)
Date and Place of Verifying	Sep. 05-14, 2024, in Qingdao
Verification body	SGS-CSTC Industry Service-Product Certification
Result of Verification	Compliance with the requirements of above standards.
Reporting	
-Report No.:	QDINIPC2600189TF-E
-Verified by :(+signature)	Roxanne Wu 
-Approved by:(+signature)	Stephen Sun 
-Date of issue:	May 20, 2026



General remarks:

The results only respond to the sample and are invalidated as separately used.

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General Information

- This report is based on IN-QD-5805-TF230003-E1 issued at 2024-11-04, only changes the information of the applicant and the appearance of products for Co-License holder.
- The products have no change, only change models name as table below showed:

Original applicant Jining Keli models	New applicant Lihong models	Remark
SPC-MC1284ALEC	/	Do not apply
SPC-MC208400E4	SPC-1000	/
SPC-IO08420000	SPC-SIO8	/
SPC-EN0000S000	SPC-SIO12	/

Copy of marking plate

Below marking plate is draft version for reference only. It will be updated according to the final product information.

Safety programmable controller

SPC Model:SPC-SIO8
 Safety level:SIL 3,Cat.4,PL e
 Powered by the main module
 Power consumption:2.5W
 I1...I8:ON(13~28V),OFF(0~5V)
 O1...O4:DC 24V 300mA per channel
 Operating temperature:-25℃~60℃



Lihong Safety Equipment Engineering (Shanghai) Co., Ltd.

Safety programmable controller

SPC Model:SPC-1000
 Safety level:SIL 3,Cat.4,PL e
 Supply voltage:DC 24V (70%~125%)
 Power consumption:3.5W
 Input:I1...I20,ON(13~28V),OFF(0~5V)
 Output:O1...O8,DC 24V 300mA per channel
 Operating temperature:-25℃~60℃




Lihong Safety Equipment Engineering (Shanghai) Co., Ltd.

Safety programmable controller

SPC Model:SPC-SIO12
 Safety level:SIL 3,Cat.4,PL e
 Powered by the main module
 Power consumption:3W
 Encoder: x4
 Operating temperature:-25℃~60℃



Lihong Safety Equipment Engineering (Shanghai) Co., Ltd.

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1 Test Summary

Test	Test Requirement	Test Method	Class/Severity	Result
Electromagnetic Interference (EMI)				
Conducted Emission, 150kHz-30MHz	EN 61131-2:2007	CISPR 16-2-1:2017	Table 29 of EN 61131-2	N/A*
Radiated Emission, 30MHz-1000MHz	EN 61131-2:2007	CISPR 16-2-3:2016	Table 29 of EN 61131-2	Passed
Electromagnetic Susceptibility (EMS)				
Electrostatic discharge immunity (ESD)	EN 61131-2:2007	IEC 61000-4-2:2008	Contact discharge ±4kV Air discharge ±8kV Performance Criterion: B	Passed
Radio-frequency electromagnetic field Immunity (RS)	EN 61131-2:2007	IEC 61000-4-3:2006+ A1:2007+A2:2010	80MHz-1GHz 10V/m, 80% AM(1kHz) 1.4GHz-2.0GHz 3V/m, 80% AM(1kHz) 2.0GHz-2.7GHz 1V/m, 80% AM(1kHz) Performance criterion: A	Passed
Electrical fast transient immunity on DC power port (EFT)	EN 61131-2:2007	IEC 61000-4-4:2012	±2kV (Open circuit test voltage) 5/50 Tr/Th ns 5 kHz (Repetition frequency) Performance Criterion: B	Passed
Surge immunity on DC power port	EN 61131-2:2007	IEC 61000-4-5:2014	1,2/50 (8/20) Tr/Th µs ±0.5 kV line-line ±0.5 kV line-ground Performance Criterion: B	Passed
Immunity to conducted disturbances on DC power port (CS)	EN 61131-2:2007	IEC 61000-4-6:2013 +Cor1:2015	0,15 to 80 MHz 10V 80% AM (1kHz) Performance Criterion: A	Passed
Power-frequency Magnetic Fields Immunity (PFM)	EN 61131-2:2007	IEC 61000-4-8:2009	50,60Hz 30A/m Performance Criterion: A	Passed
Voltage dips	EN 61131-2:2007	IEC 61000-4-11:2020	0% during 0.5 cycle Performance Criterion: A 40% during 10/12 cycles 70% during 25/30 cycles Performance Criterion: C	N/A*
Short interruptions	EN 61131-2:2007	IEC 61000-4-11:2020	0% during 250/300 cycles Performance Criterion: C	N/A*
Remark: Products are specified working in zone B by manufacture in EN 61131-2:2007 8.3.1. *Only applicable to a.c. power port.				

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2 EUT Photographs

Photograph 1: the view of SPC-1000



Photograph 2: the view of SPC-SIO8



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Photograph 3: the view of SPC-SIO12



*****END OF THE REPORT*****