



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX INE 25.0030X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2026-03-31
Applicant: **SCHNEIDER Electric Industries SAS**
35, rue Joseph Monier
Rueil Malmaison 92500
France
Equipment: **STO Safety function of the variable speed drives product ranges ATH630/650**
Optional accessory:
Type of Protection: **Associated safety device**
Marking: [Ex Gb] [Ex Db] [Ex Mb]

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:
(for printed version)



Thierry HOUEIX

Ex Certification Officer

2026-03-31

Signé électroniquement
Digitally signed by
Thierry HOUEIX
Ex Certification Officer
Délégué Certification

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

INERIS
Institut National de l'Environnement Industriel et des Risques
BP n2 / Parc Technologique ALATA
F-60550 Verneuil-en-Halatte
France



controlling risks
for sustainable development



IECEX Certificate of Conformity

Certificate No.: **IECEX INE 25.0030X**

Page 2 of 3

Date of issue: 2026-03-31

Issue No: 0

Manufacturer: **SCHNEIDER Electric Industries SAS**
35, rue Joseph Monier
Rueil Malmaison 92500
France

Manufacturing locations: **PT SCHNEIDER ELECTRIC MANUFACTURING BATAM**
JL Beringin Lot 4 and 208 Batamindo Industrial Park Muka Kuning, BATAM INDONESIA, 29433
Indonesia

SCHNEIDER WUXI DRIVES Co., Ltd. // (SWD Wuxi)
No.20, Hanjiang Road, Wuxi, Jiangsu Wuxi
China

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC TS 60079-42:2019](#) Explosive atmospheres - Part 42: Electrical Safety Devices for the control of potential ignition sources from Ex-Equipment
Edition:1.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[FR/INE/ExTR25.0029/00](#)

Quality Assessment Report:

[FR/INE/QAR24.0004/03](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX INE 25.0030X**

Page 3 of 3

Date of issue: 2026-03-31

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The basic fail-safe function (STO) purpose is to bring the motor into a no torque condition.

The variable speed drive ATH630/650 integrates the STO (Safe Torque Off) safety function which shuts off the motor torque safely. The use of the STO safety function allows the drive to be installed as a part of the safety-related electrical, electronic and programmable electronic control systems, dedicated to the safety of a machine or an industrial process.

The use of the STO safety function is required for the variable speed drive ATH630/650 to control and command motors installed in explosive atmospheres.

The STO input(s) is (are) connected to the switching system which is embedded in the thermal sensor of the Ex motor (or connected to the switching system of the control system if Ex sensors of PTC type are used).

The variable speed drive ATH630/650 shall be installed only outside potentially explosive atmospheres.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The safety device must be located outside of explosive atmospheres or must be protected by a standardized type of protection.

The other conditions of use are stipulated in the instructions.

Annex:

[IECEX INE 25.0030X-00_Annex.pdf](#)



IECEX Certificate of Conformity

Certificate No.: IECEx INE 25.0030X

Issue No.: 0

Page 1 of 3

Annex: IECEx INE 25.0030X-00_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

Firmware: Safety Kernel MC V1.1

Hardware:

- Version STM32H725VGT3 for safe microcontroller
- See below for commercial ranges
- Power range: 0,75 KW to 250 KW
- Voltage supply: 400 Vac

The level of SIL, category, PL, SIL CL depends on the connecting schemes for the STO safety function as defined hereafter. The wiring certified configurations are identified in the safety manual and in the certification report identified previously.

Safety calculations and SFF for STO safety function are:

Function	Standard	Input	STO input
STO	IEC 61508 EN 61508	SFF	99,03%
		PFD _{AVG}	$3,33 \cdot 10^{-5}$
		PFH	$9,23 \cdot 10^{-10}/h$
		PTI	1 year
		Type	A
		HFT	1
		SIL	2 / 3
		SIL capability	3
	IEC 62061 EN IEC 62061	SIL CL	2 / 3
	IEC 60204-1 EN 60204-1	Category stop category	0
	EN ISO 13849-1 ISO 13849-1	Performance Level	d / e
		Category	3
		DC _{AVG}	96,9%
		MTTFd	> 30 years
	Lifetime		10 years
	Hypothesis	MRT = 8h MTTR = 8h	

Table 1: Safety classification of STO safety function for ATH630/650 22 kW to 250 kW 400V



IECEX Certificate of Conformity

Certificate No.: IECEx INE 25.0030X

Issue No.: 0

Page 2 of 3

Annex: IECEx INE 25.0030X-00_Annex.pdf

Function	Standard	Input	STO input
STO	IEC 61508 EN 61508	SFF	98,9%
		PFD_{AVG}	$6,72 \cdot 10^{-6}$
		PFH	$1,03 \cdot 10^{-9}/h$
		PTI	1 year
		Type	A
		HFT	1
		SIL	2 / 3
		SIL capability	3
	IEC 62061 EN IEC 62061	SIL CL	2 / 3
	IEC 60204-1 EN 60204-1	Category stop category	0
	EN ISO 13849-1 ISO 13849-1	Performance Level	d / e
		Category	3
		DC_{AVG}	92,8%
		MTTFd	> 30 years
	Lifetime		10 years
	Hypothesis	MRT = 8h MTTR = 8h	

Table 2: Safety classification of STO safety function for ATH630/650 0.75 kW to 18.5 kW 400V

MARKING

Marking must be readable and indelible; it has to include the following indications:

- Schneider Electric Industries SAS
- FR- 92500 Rueil Malmaison ⁽¹⁾
- ATH630 ⁽²⁾ or ATH650 ⁽²⁾
- IECEx INE 25.0030X
- (Serial Number) ⁽³⁾
- [Ex Gb] [Ex Db] and/or [Ex Mb]

⁽¹⁾ This address may be given on a document delivered with the product

⁽²⁾ References list: see below

⁽³⁾ Available through a specific code

ROUTINE EXAMINATIONS AND TESTS

None.

REFERENCES LIST

The list of references covered by the present certificate is provided hereafter:



IECEX Certificate of Conformity

Certificate No.: IECEx INE 25.0030X

Issue No.: 0

Page 3 of 3

Annex: IECEx INE 25.0030X-00_Annex.pdf

Size	Voltage Range [V]	Power Range [kW]	Commercial reference
0 / A0	400	0.75	ATH630U07N4 / ATH650U07N4
			ATH630U07N4Z
			ATH650U07N4C
		1.5	ATH630U15N4 / ATH650U15N4
			ATH630U15N4Z
			ATH650U15N4C
2.2	ATH630U22N4 / ATH650U22N4		
	ATH630U22N4Z		
	ATH650U22N4C		
1 / A1	400	3	ATH630U30N4 / ATH650U30N4
			ATH630U30N4Z
			ATH650U30N4C
		4	ATH630U40N4 / ATH650U40N4
			ATH630U40N4Z
			ATH650U40N4C
5.5	ATH630U55N4 / ATH650U55N4		
	ATH630U55N4Z		
	ATH650U55N4C		
2A / A2	400	7.5	ATH630U75N4 / ATH650U75N4
			ATH630U75N4Z
			ATH650U75N4C
		11	ATH630D11N4 / ATH650D11N4
ATH630D11N4Z			
ATH650D11N4C			
2B / A2	400	15	ATH630D15N4 / ATH650D15N4
			ATH630D15N4Z
			ATH650D15N4C
		18.5	ATH630D18N4 / ATH650D18N4
ATH630D18N4Z			
ATH650D18N4C			
3 / A3	400	22	ATH630D22N4 / ATH650D22N4
			ATH630D22N4Z
			ATH650D22N4C
			ATH650D22N4U
4	400	30	ATH650D22N4CU
			ATH630D30N4 / ATH650D30N4
			ATH630D30N4Z
			ATH650D30N4C
		37	ATH650D30N4U
			ATH650D30N4CU
			ATH630D37N4 / ATH650D37N4
			ATH630D37N4Z
		45	ATH650D37N4C
			ATH650D37N4U
			ATH650D37N4CU
			ATH630D45N4 / ATH650D45N4
5	400	55	ATH630D45N4Z
			ATH650D45N4C
			ATH650D45N4U
		75	ATH650D45N4CU
			ATH630D55N4 / ATH650D55N4
			ATH630D55N4Z / ATH650D55N4U
90	ATH630D75N4 / ATH650D75N4		
	ATH630D75N4Z / ATH650D75N4U		
	ATH630D90N4 / ATH650D90N4		
6	400	110	ATH630D90N4Z / ATH650D90N4U
			ATH630C11N4Z
			ATH630C13N4Z
7A	400	132	ATH630C16N4Z
			ATH630C22N4Z
			ATH630C25N4Z
7B	400	250	ATH630C22N4Z