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 EESF 20.0003X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 1	Issue 0 (2020-03-24)
Date of Issue:	2021-11-11		
Applicant:	**Atexor Oy** Puurtajantie 16 FI-60100 Seinäjoki **Finland**		
Equipment:	**Transformer SLAM TrafoEx 400 and distribution box SLAM SplitterEx**		
Optional accessory:			
Type of Protection:	**Ex db eb / Ex tb**		
Marking:	**SLAM® TrafoEx 400** Ex db eb IIC T4/T3 Gb Ex tb IIIC T90°C Db **SLAM® SplitterEx** Ex db eb IIC T4 Gb Ex tb IIIC T90°C Db		

Approved for issue on behalf of the IECEx Certification Body:	**Kari Koskela**
Position:	**Senior Expert**
Signature: (for printed version)	
Date:	2021-11-11

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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:

Eurofins Expert Services Oy
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Finland

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Certificate No.: **IECEx EESF 20.0003X**

Date of issue: 2021-11-11

Issue No: 1

Manufacturer: **Atexor Oy**
Puurtajantie 16
FI-60100 Seinäjoki
Finland

Additional manufacturing locations:

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 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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:

FI/EESF/ExTR20.0003/01

Quality Assessment Report:

FI/EESF/QAR18.0009/02

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

SLAM® TrafoEx 400 is a single-phase step down transformer and SLAM® SplitterEx is a distribution box. Both equipment are constructed within a certified enclosure with additional protective carry handles and are provided with a supply cable with PE-conductor. Both equipment also have up to four sockets for output. In SLAM® TrafoEx 400 one of these sockets can be for through-wiring purposes.

In potentially explosive gas atmospheres the equipment has Type of Protection Ex db eb. Marking Ex db is related to the separately certified sockets and fuse holder. These parts are not intended to be repaired.

See socket alternatives, rated values and ambient temperature ranges for temperature classes in the Annex of this Certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:
The allowed ambient temperature range of the equipment is -20 °C…+55 °C. For ambient temperatures above +39 °C (SLAM® TrafoEx 400) or +40°C (SLAM® SplitterEx) the permitted output current may be lower than 16A/8A depending on the socket type, see manufacturer's instructions.

The equipment may be moved when energized when plugs are not connected to the sockets. The equipment shall not be moved when plugs are connected.

The equipment shall not be used in areas affected by charge-producing processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
SLAM® SplitterEx model added.

Sockets alternatives were added.

Certification was extended to potentially explosive dust atmospheres with type of protection Ex tb.

Type of Protection “db” due to sockets and fuse holder has been added to the marking.

Annex:

Annex to IECEx EESF 20.0003X.pdf

Annex to Certificate IECEx EESF 20.0003X Issue 1

Socket alternatives:

Cooper Crouse-Hinds GmbH; CEAG GHG54*; IECEx BVS 14.0089U; Ex db eb IIC *Only for potentially explosive gas atmospheres*

Cooper Crouse-Hinds GmbH; GHG 5118 *; IECEX BVS 15.0088U; Ex db eb IIC Gb, Ex tb IIIC Db; Used only in SLAM® SplitterEx

MARECHAL ELECTRIC; DXN1; IECEx LCI 09.0005X; Ex db eb IIC T5 Gb, Ex tb IIIC T90°C Db

R. STAHL Schaltgeräte GmbH; 8572/15-***-*; IECEx PTB 16.0028U; Ex db eb IIC Gb, Ex tb IIIC Db

R. STAHL Schaltgeräte GmbH; 8573/15-***-*; IECEx PTB 16.0030U; Ex db eb IIC Gb, Ex tb IIIC Db

Rated values for SLAM® TrafoEx 400

Primary / input	Secondary / output		
Voltage (V)	Voltage (V)	Current (A) *	Power (VA)
230	48	8	384
230	24	16	384
230	12	16	192
110	48	8	384
110	24	16	384

*The maximum output current is the sum of the current in all sockets except the possible through-wiring socket. The maximum current is subject to de-rating depending on the ambient temperature. See manufacturer's instructions for safe use.

The primary circuit (not including possible through-wiring socket) has a fuse of 4 A and the secondary circuit has a fuse of 8 A or 16 A depending on the output voltage.

Frequency 50Hz/60Hz

Rated values for SLAM® SplitterEx

Voltage (V)	24-230 V (as marked on the rating plate)
Current (A) *	16 A
Frequency	50Hz/60Hz

*The maximum output current is the sum of the current in all sockets. The maximum current is subject to de-rating depending on the ambient temperature. See manufacturer's instructions for safe use.

SLAM® SplitterEx does not have a fuse.

Temperature class

SLAM® TrafoEx 400	SLAM® SplitterEx
-20°C ≤ T_{amb} ≤ +45 °C (T4)	-20°C ≤ T_{amb} ≤ +55 °C (T4)
+45°C < T_{amb} ≤ +55 °C (T3)	-20°C ≤ T_{amb} ≤ +55 °C (T90°C)
-20°C ≤ T_{amb} ≤ +55 °C (T90°C)	