

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No .:	IECEx UL 13.0086X	Issue	Certificate history:
Status:	Current	Page 1	Issue No. 6 (2018-09-27) Issue No. 5 (2016-10-31) Issue No. 4 (2016-08-29)
Date of Issue: Applicant:	2018-09-27 Derrick Mfg. Corporation 590 Duke Road	Faye	Issue No. 3 (2015-03-18) Issue No. 2 (2014-07-14) Issue No. 1 (2014-03-27)
	Buffalo, NY 14225 United States of America		Issue No. 0 (2014-03-03)
Equipment: <i>Optional accessory:</i>	Flameproof Electric Vibrating Motors - EX, SGX	, SG2X &, SG3X	
Type of Protection:	Flameproof "db"		
Marking: E	x db IIB T3 Gb		
-2	20°C to +40°C; -20°C to +55°C		
Approved for issue on I Certification Body:	behalf of the IECEx	Katy A. Holdredge	
Position:		Senior Staff Engineer	
Signature: (for printed version)		Katy a. Helbulge	
Date:		2018-09-27	
1. This certificate and s	- chedule 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 the Official IECEx Website.

Certificate issued by:

UL LLC 333 Pfingsten Road Northbrook IL 60062-2096 United States of America





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Manufacturer:	Derrick Mfg. Corporation 590 Duke Road Buffalo, NY 14225 United States of America	

Additional Manufacturing location(s):

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 apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

This Certificate does not indicate compliance with electrical 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:

US/UL/ExTR13.0098/06

Quality Assessment Report:

US/UL/QAR14.0003/03



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The series EX, SGX, SG2X and SG3X motors are totally enclosed non-ventilated industrial flameproof vibrating motors intended for continuous operation. They are provided with integral mounting pads and self-contained eccentric weights which cause the motor to produce the desired vibration of the equipment to which the motor is mounted.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Flameproof joints are other than those specified in Table 1 of IEC 60079-1. Contact Derrick for joint dimensions.
- Warning To minimize the risk of electrostatic discharge, adequate grounding must be maintained.
- For motors for use with a frequency converter, use of the 145 ± 5°C thermostat is mandatory for appropriate direct thermal protection

and marking of T3 temperature code.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):			
Issue 1: Nomenclature and minor dra	awing changes not affecting the safety of the device.		
Issue 2: Revisions to drawings not affecting the safety of the device.			
Issue 3: Minor drawing corrections and additional cover bolts added.			
Issue 4: Addition of variable frequency rating from 30 Hz through 60 Hz and revised IP rating from IP56 to IP66.			
Issue 5: Minor drawing revisions. No construction changes made as a part of this revision.			
Issue 6: Updated to the latest edition of IEC 60079-1 and drawing revisions.			

Annex:

Annex to IECEx UL 13.0086X Issue 6.pdf



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TYPE DESIGNATION

Nomenclature for type EX, SGX, SG2X and SG3X:

	EX I	<u>-230/460</u> II	<u>-5</u> III	<u>-003</u> IV	
I – Seri	es Designation EX - Ex series SGX - SGX se SG2X - SG2X SG3X – SG3X	eries series			
II – Suț	oply Voltage Ra -215/220 - 215/22 -230/240 -230 -380/400 -380 -400 - 380/40 -415 - 415 VA -440 - 440 VA -460 - 440/46 -460/480 - 460 -500/525 - 50 -575/600 - 575 -690 - 690/700	5/220 VAC 0/230/240 VAC 0/240 VAC 0/400 VAC 0/415 VAC C C 0/480 VAC 0/480 VAC 0/480 VAC 0/480 VAC 5/600 VAC			
III – Fre	-5 – 50 Hertz S	(50 Hz or 60 Hz or Sinusoidal Power o Sinusoidal Power o	r 30-60 Hz Cc	onstant Torque	

IV - Certified Designation
-003 - ATEX Constant
-014 - NEC/ATEX/IECEx Constant

PARAMETERS RELATING TO THE SAFETY

215/220 VAC, 8.7 A Max 215/220/230/240 VAC, 8.7 A Max 230/240 VAC, 8.7 A Max 380/400 VAC, 8.7 A Max 380/400/415 VAC, 8.7 A Max 415 VAC, 8.7 A Max 440 VAC, 8.7 A Max 440/460/480 VAC, 8.7 Max 460/480 VAC, 8.7 A Max 500/525 VAC, 8.7 A Max 575/600 VAC, 8.7 A Max 690/700 VAC, 8.7 A Max



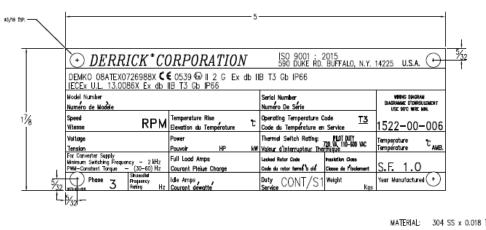
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MARKING

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



ATERIAL: 304 SS x 0.018 THICK NOTES: 1) ALL DIMENSIONS TYP. U.O.N. 2) PROTECTIVE PAPER 3) HELMETICA RED BOLD TEXT

Installation Instructions

Before opening the enclosure in a flammable atmosphere the circuits must be interrupted.

The certification applies to equipment with and without cable glands and cables. All cable entry devices, elbows, and blanking elements shall be IECEx certified in type of explosion protection flameproof enclosure "db", suitable for the conditions of use and correctly installed.

Unused apertures shall be closed with IECEx certified suitable blanking elements.

Vibrators having IECEx Certification may be repaired only to the extent that the repair does not compromise the flameproof safety aspects of the enclosure. Consequently, repair is limited to parts external to the flameproof enclosure. All other repairs shall be performed at Derrick Corporation or a Derrick approved IECEx authorized repair facility.