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**Schedule**  
**EC-TYPE EXAMINATION CERTIFICATE No.**  
**DEMKO 08 ATEX 0726988X**  
**Report: 08NB50979**

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Description of Equipment or protective system

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.

Nomenclature for type EX, SGX, SG2X and SG3X:

EX                      -230/460                      -5                      -003  
I                                      II                                      III                                      IV

I – Series Designation

EX - Ex series  
SGX - SGX series  
SG2X - SG2X series  
SG3X – SG3X series

II – Supply Voltage Rating

-215/220 - 215/220 VAC  
-230/240 - 230/240 VAC  
-380/400 - 380/400 VAC  
-415 - 415 VAC  
-440 - 440 VAC  
-460/480 - 460/480 VAC  
-575/600 - 575/600 VAC  
-690 - 690/700 VAC

III – Frequency Rating

-5 – 50 Hertz  
-6 – 60 Hertz

IV - ATEX Certified Designation

-003 - Constant

Temperature range

Ambient Temperature Range, °C	Current, A	Temperature Class
-20 to 55	5.2	T3
-20 to 40	8.7	T3

Electrical data

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

Installation instructions

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

The approval applies to equipment without cable glands. All cable entry devices and blanking elements shall be ATEX certified in type of explosion protection flameproof enclosure "d", suitable for the conditions of use and correctly installed.

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

Mounting instructions

Mounting instructions are provided in the manufacturer's Maintenance and Operating Manual, MOM EXSGX-03/08, MOM SG2X-03/08 and MOM SG3X-03/08.

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Routine tests

Routine tests according to EN 60079-1:2007, cl. 16 are not required, as the enclosures have been successfully tested at four times the reference pressure.

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Documents:

Number	Date	Description
12730-00, rev. 12	2008-03-21	EX Motor Case
12732-00-002	2003-11-24	EX Motor Shaft
12737-00, rev. 5	2008-03-21	EX Explosion Proof Seal for EX Motor
12739-00, rev. 5	2007-04-02	Junction Box Cover
12740-00-002, rev. 7	2004-11-30	EX Motor Assembly (Exp. Proof) Flame Patch Sketch
12743-00-001, rev. 1	2005-01-04	Labyrinth Ring for EX Motor For Use On EX Motor Shaft 12732-00-002
14270-00, rev. 4	2008-03-21	Explosion Proof Seal for SGX Motor
14273-00, rev. 7	2008-03-21	SGX Motor Case
14274-00, rev. 5	2004-12-14	SGX Motor Case Assembly (Explosion Proof)
14274-00-001, rev. 3	2004-12-14	SGX Motor Assembly Flame Path Sketch
15762-00, rev. 3	2004-12-30	SG2X Motor Flame Path Sketch
15876-00, rev. 5	2008-03-21	Junction Box Cover with Integrated Elbow
16420-00, rev. 2	2007-09-19	SG3X Motor Assembly
16421-00, rev. 1	2006-12-07	SG3X Motor Flame Path Sketch
16422-00, rev. 2	2008-03-21	SG3/SG3X Motor Case
16423-00, rev. 1	2006-12-07	SG3X Motor Shaft
1673-00-013, rev. 1	2008-03-12	Motor Nameplate Tag (Flameproof) For "Demko/ATEX" Motors
11006-00-001, rev. 9	2008-03-18	Ex-Proof Junction Box Insulated Wire Connecting Plate Instructions & Bill of Material
12740-00-001, rev. 7	2005-12-20	EX Motor Assy
14271-00-001	2004-03-26	SGX Motor Shaft
14268-00, rev. 5	2007-02-26	Labyrinth Ring
15589-00-001, rev. 4	2008-03-21	SG2X Motor Case
15044-00-001, rev. 2	2005-12-15	Motor Sight Glass
15042-00, rev. 4	2005-12-15	Retainer for Sight Glass
15042-00-001	2007-04-05	Oil Reservoir Cover Plate
15305-00-001	2004-07-01	SG2X Motor Shaft for Use with Rotor 15842-00
15533-00-001, rev. 3	2007-03-30	Junction Box Cover
15559-00-001	2007-04-05	Oil Reservoir & Cover
15559-00, rev. 8	2007-02-26	SG2X Oil Reservoir & Cover
15566-00-001, rev. 3	2007-03-30	XProof Seal
15567-00, rev. 4	2007-04-05	SG2X Motor Assembly
15759-00, rev. 2	2004-05-27	Junction Box O-Ring SG2X
15757-00, rev. 3	2006-09-08	Bearing Housing O-Ring SG2X
15758-00, rev. 3	2007-03-30	Explosion Proof Seal O-Ring
01522-00-002, rev. 5	2008-04-06	Recommended Wiring Schematic For Industrial Vibrating Motors
MOM EXSGX-03/08, rev. 0	2008-03	Maintenance and Operating Manual for EX and SGX Motors
MOM SG2X-03/08, rev. 3	2008-03	Maintenance and Operating Manual for SG2X Motor
MOM SG3X-03/08, rev. 0	2008-03	Maintenance and Operating Manual for SG3X Motor

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Special conditions for safe use:

- See Schedule Drawing 16421-00 for Model SG3X flameproof joints. See Schedule Drawing 15762-00 for Model SG2X flameproof joints. See Schedule Drawing 14274-00-001 for Model SGX flameproof joints. See Schedule Drawing 12740-00-002 for Model EX flameproof joints.

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Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Ex standards only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

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Additional information

All devices have in addition passed the tests for Ingress Protection to IP 56 in accordance with EN60529:1991/A1 2001.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

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**Certification Manager**  
Jan-Erik Storgaard



**Date of issue** [2008-12-01]

**Certification Body**

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