

EU DECLARATION OF CONFORMITY

We,

Manufacturer: Elwood Corporation
195 west Ryan Road
Oak Creek, WI 53154

declare that the products:

"SX" Series DC Brushless (AC Servo) Hazardous Location Motors, Type: M43X, M44X and M46X, are designed and manufactured in conformity with the following applicable Directives and Standards:

- ATEX Directive 2014/34/EU

EN 60079-0:2012 Electrical Apparatus for Potentially Explosive Atmospheres – General Requirements and
EN 60079-1:2007 Electrical Apparatus for Potentially Explosive Atmospheres – Flameproof Enclosures 'd'

Ex II 2 G, EEx d IIB T3

For which an EC-Type Certificate LCIE 03 ATEX 6236X and QAN LCIE 03 ATEXQ 8028 have been obtained.

declare that the products:

"SX" Series DC Brushless (AC Servo) Hazardous Location Motors, Type: M43X-XXXX-BXXXX and M43X-XXXX-CXXXX are designed and manufactured in conformity with the following applicable Directives and Standards:

- ATEX Directive 2014/34/EU

EN 60079-0:2012 Electrical Apparatus for Potentially Explosive Atmospheres - General Requirements and
EN 60079-31:2014 Explosive Atmospheres – Equipment Dust Ignition Protection by Enclosure "t"

Ex II 2 D, Ex tb IIIC T135°C Db IP6X

For which an EC-Type Certificate LCIE 13 ATEX 3043 X, IECEx LCIE 13.0024X and QAN LCIE 03 ATEXQ 8028, QAR FR/LCIE/QAR120003/02 have been obtained.

The products comply to electrical safety requirements, as they are expressed in the Low Voltage Directive 73/23/EEC (modified by Directive 93/68/EEC).

- Electromagnetic Compatibility Directive 98/336/EEC Council Directive as amended by Council Directive 92/31/EEC

The Notified Body responsible for monitoring the ATEX Directive is LCIE 33 Avenue du General Leclerc, 92260 Fontenay-aux Roses, France. Its Identification Number is 0081.

Technical information is maintained at:

Elwood Corporation – High Performance Motors Group
2701 N. Green Bay Road
Racine, WI 53404

We, the undersigned, hereby declare that the products specified above conform to the listed Directives and Standards.



John Hoepfner
 General Manager
 March 29, 2016

Special Conditions for safe use as specified in EC Type Examination Certificate LCIE 03 ATEX 6236 X for Type M43X, M44X and M46X.

Motors are manufactured with permanently connected unterminated conductors and therefore marked with the X to indicate the need for appropriate protection of the free end of the conductors

If replacement of screws and/or lock nuts that secure the front endbell to the stator assembly is necessary, they must be replaced with screws and lock nuts having the following dimensions and minimum tensile strength:

Model	Screws	Material	Tensile Strength	Nuts	Material	Tensile Strength
M43X	M4 x 0.7 x 16	steel	1200 N/mm ² ; 174 KSI	M5	steel	810 N/mm ² ; 116 KSI
M44X	M5 x 0.8 x 16	steel	1200 N/mm ² ; 174 KSI	M5	steel	810 N/mm ² ; 116 KSI
M46X	M5 x 0.8 x 25	steel	1200 N/mm ² ; 174 KSI	M5	steel	810 N/mm ² ; 116 KSI

If replacement of the bolts that secure the rear endbell and the motor cover to the stator assembly is necessary, they must be replaced with M5 x 0.8-6g tie bolts. The bolts must be made of steel and have a minimum tensile strength of 58 KSI.

If replacement of the nuts that secure the motor cover to the stator assembly is necessary, they must be replaced with M5 x 0.8-6H lock nuts. The lock nuts must be made of steel and have a minimum tensile strength of 116 KSI.

The Motors must be excited with 3-phase sinusoidal currents in proper relationship to the motor's generated voltage or back electromotive force at each rotor position.

The pulse-width modulated switching frequency is specified at a minimum of 3 kHz.

Do not open the motor, serious injury may result if the motor is opened by unauthorized personnel.

The approval applies to equipment without cable glands. When mounting the flameproof enclosure in a hazardous area, only cable glands certified to EN 50018/EN 60079 may be used.

Special Conditions for safe use as specified in EC Type Examination Certificate LCIE 13 ATEX 3043 X for Type M43X-XXXX-BXXXX and M43X-XXXX-CXXXX.

Ambient operating temperature range: -25°C up to +40°C

Lead wires exiting the servomotor shall be protected against impact by fittings or conduit systems. The mounting shall guarantee the protection against light of the filling compound inside the threaded fitting welded to the motor enclosure.