

## EC 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 94/9/EC

EN 60079-0:2009 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, Ex d IIB T3

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

declare that the products:

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

- ATEX Directive 94/9/EC

IEC 60079-0:2007 Ed.5 / EN 60079-0:2009 Electrical Apparatus for Potentially Explosive Atmospheres - General Requirements and  
IEC 60079-31:2008 Ed. 1 / EN 60079-31:2009 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 3XXX and a Notification LCIE 13 ATEXQ XXX 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.



Terry M. Levin  
 Vice President & General Manager  
 April 24, 2013

**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 <sup>2</sup> ; 174 KSI	M5	steel	810 N/mm <sup>2</sup> ; 116 KSI
M44X	M5 x 0.8 x 16	steel	1200 N/mm <sup>2</sup> ; 174 KSI	M5	steel	810 N/mm <sup>2</sup> ; 116 KSI
M46X	M5 x 0.8 x 25	steel	1200 N/mm <sup>2</sup> ; 174 KSI	M5	steel	810 N/mm <sup>2</sup> ; 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 3kHz.

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.