

### **IECEx Certificate** of Conformity

### INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.	IECEx SIR 13.0139X	issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2014-08-15	Page 1 of 4	
Applicant:	Exlar Corporation 18400 West 77th Street Chanhassen MN 55317 United States of Ameri	ica	
Electrical Apparatus: Optional accessory:	EL 100 Linear Actuator		
Type of Protection:	Flameproof		
Marking:	Ex d IIB+H <sub>2</sub> T3 Gb IP66 Ta = -29°C to +93°C		
Approved for issue on be Certification Body:	half of the IECEx	C Ellaby	
Position:		Deputy Certification Manager	
Signature: (for printed version)		C. L	
Date:		2014-08-	18
2. This certificate is not tr	nedule may only be reproduct cansferable and remains the uticity of this certificate may l	ced in full. property of the issuing body. be verified by visiting the Official	IECEx Website.

Certificate issued by:

**SIRA Certification Service** Rake Lane **Eccleston** Chester CH4 9JN United Kingdom





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Manufacturer:

**Exlar Corporation** 18400 West 77th Street

Chanhassen MN 55317

**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 electrical 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

Explosive atmospheres - Part 0: General requirements

Edition: 6.0

IEC 60079-1: 2007-04

Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Edition: 6

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: GB/SIR/ExTR14.0191/00

Quality Assessment Report:

CA/CSA/QAR09.0021/02



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#### **Schedule**

#### **EQUIPMENT:**

Equipment and systems covered by this certificate are as follows:

The EL100 Linear Actuator consists of an enclosure assembly, incorporating a resolver, stator, terminal blocks, thermal switch and rear brake. The enclosure assembly incorporates a roller screw mechanism within the armature of a brushless servo motor. The EL100 Linear is connected to a servo drive controller which commutates the motor and controls the torque, speed and position of the actuator. This rotary motion is translated into linear motion by an internal planetary roller screw mechanism. The actuator and a controller combine to provide a complete motion control system. The electrical to mechanical power conversion and position feedback devices are contained in the actuator.

24-120 V dc - 25 A Max, 2420 W Max 115-460 V ac, 50 / 60 Hz, 25 A Max, 2420 W Max

All bolt fasteners are zinc plated carbon steel to ISO 4017, grade 10.9

Refer to EQUIPMENT (continued) for additional description and Conditions of Manufacture.

#### CONDITIONS OF CERTIFICATION: YES as shown below:

#### Conditions of certification

The user/installer shall comply with the following:

- At the cable entry point the surface temperature may reach up to 125°C, therefore, supply cable and entries shall be selected accordingly.
- 2. The maximum voltage and current ratings marked on the equipment shall not be exceeded.
- In accordance with clause 5.1 of IEC 60079-1:2007, any maintenance of the critical dimensions of the flamepaths shall not be undertaken without seeking guidance from the manufacture of the equipment.



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#### **EQUIPMENT(continued):**

#### **Model Code information**

EL100-06-x-a-x-x-x-2-b-8-c-x-T3-x

a - denotes Connections, where:

T = Terminal Strip with %" NPT housing access, Two Rows
S = Terminal Strips with %" NPT housing access, Single Row

b = denotes Voltage Rating, where:

A = 24 V dc B = 48 V dc

C = 120 V dc 1 = 115 V rms

3 = 230 V rms 5 = 400 V rms 6 = 460 V rms

X = Special Voltage Rating - Not to Exceed 460 V rms

c - denotes Optional Mechanical and Speed Designations, where:

RB = Rear Brake

1-99 = Speed (RPMx100) PF = Preloaded Follower

AR = External Anti Rotate Assembly

XT = Special Travel Options XL = Special Lubricant

x - denotes Options Not Affecting Safety

#### Conditions of manufacture

The Manufacturer shall comply with the following:

- The maximum voltage and current ratings marked on the equipment shall not contradict the 2420 W
  maximum power rating allowed for this equipment, in addition, the products that incorporate Allen Bradley
  1492-LMJ3 terminal shall be limited to 20 A and marked accordingly.
- Any greases applied to the flamepaths shall not harden, contain evaporating solvents and do not cause corrosion to the joint surfaces can be utilised.