<b>IECEX</b>	а А	IECEx Certificate of Conformity	ą					
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com								
Certificate No.:	IECEx PTB 15.0033X	Page 1 of 5	Certificate history:					
Status:	Current	Issue No: 2	Issue 1 (2018-01-22) Issue 0 (2016-01-19)					
Date of Issue:	2021-05-10							
Applicant:	DREHMO GmbH Zum Eichstruck 10 57482 Wenden Germany	6 20						
Equipment:	Actuator type D **** - * - * Ex							
Optional accessory:	5° X							
Type of Protection:	"db", "eb"							
Marking:	Ex db eb IIC T4 Gb or Ex db eb II	IB T3 Gb						
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Approved for issue c Certification Body:	on behalf of the IECEx	DrIng. Detlev Markus						
Position:		Head of Department Explosion Protection ir	Energy Technology					
Signature:		D. Man his						
(for printed version)	2. 8	11.10.21						
Date:								
<ol><li>This certificate is no</li></ol>	schedule may only be reproduced in full, t transferable and remains the property of nenticity of this certificate may be verified b	the issuing body. by visiting www.lecex.com or use of this QR Code.						
Certificate issued	d by:	050	CTC					
Physikalisch-Te Bundesallee 10 38116 Braunsch Germany		Physikalisoh-Teo Braunschweig un	hnische Bundesanstalt nd Berlin					

<b>IECEX</b>	6	IECEx Certificate of Conformity
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Date of issue:	2021-05-10	Issue No: 2
Manufacturer:	DREHMO GmbH Zum Eichstruck 10 57482 Wenden Germany	а н о а 8
Additional manufacturing locations:	90 V	
IEC Standard list be found to comply with Rules, IECEx 02 and STANDARDS :	low and that the manufacturer's a the IECEx Quality system requ d Operational Documents as an any acceptable variations to it s	e(s), representative of production, was assessed and tested and found to comply with the quality system, relating to the Ex products covered by this certificate, was assessed and irrements.This certificate is granted subject to the conditions as set out in IECEx Scheme nended pecified in the schedule of this certificate and the identified documents, was found
IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Par	t 0: Equipment - General requirements
IEC 60079-1:2014-0 Edition:7.0	06 Explosive atmospheres - Par	t 1: Equipment protection by flameproof enclosures "d"
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres - Par	t 7: Equipment protection by increased safety "e"
	This Certificate <b>does not</b> other than the	indicate compliance with safety and performance requirements ose expressly included in the Standards listed above.
TEST & ASSESSM A sample(s) of the e	ENT REPORTS: equipment listed has successfull	y met the examination and test requirements as recorded in:
Test Reports:		
DE/PTB/ExTR15.00	038/02 DE/PT	B/ExTR15.0041/00
Quality Assessmen	t Report:	
DE/TPS/QAR15.00	04/04	* n.

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# IECEx Certificate of Conformity

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### EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

#### Description

The actuator, type D\*\*\*\*-\*-\* Ex, consists of the following components:

- Enclosure accommodating a planetary gear. The planetary gear does not form part of this type approval. (i-matic and standard)

- Flange-mounted motor of Flameproof Enclosure "db" type of protection. (i-matic and standard)

- Optionally a flange-mounted – separately certified – motor of Flameproof Enclosure "db" type of protection or Increased Safety "eb" type of protection. (i-matic and standard)

- Optionally motor terminal compartment of Increased Safety "eb" type of protection cast to the enclosure, with - separately certified - terminals

It is connected to the motor and the electronics compartment by means of - separately certified - wire bushings. (always on i-matic)

- Optionally an electronics compartment of Flameproof Enclosure "db" type of protection cast to the enclosure, provided with an inspection window. (always on i-matic)

- A terminal box of Increased Safety "e" type of protection, with - separately certified - terminals (i-matic and standard)

#### SPECIFIC CONDITIONS OF USE: YES as shown below:

Repair and overhaul of the flameproof gaps are only allowed according constructive information given from the original manufacturer. A repair according the values given in Table 1 or Table 2 of IEC 60079-1 is not permitted.

Danger due to electrostatic discharge. The actuator must be cleaned with a damp cloth only. Please refer to operation manual.

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#### Equipment (continued):

Date of issue:

- Optionally a – separately certified - plug connector type KP, KPH and KES in the type of protection Increased Safety "e" (IECEx DEK 12.0022X). (i-matic).

- Optionally a - separately certified - terminal compartment type KES-Exd in the type of protection flameproof enclosure "d" (IECEx DEK 12.0022X). (i-matic).

- Optionally a - separately certified - plug connector type K.Exe and K.Exd in the type of protection Increased Safety "eb" and Flameproof Enclosure "db" (IECEx DEK 17.0012U).

- Optionally an external control system. The control system may be outside the potentially explosive area (no ex-protection) or in the type of protection Increased Safety "eb" and Flameproof enclosure "db", inside the potentially explosive area. The electronics compartment of the actuator of Flameproof Enclosure type of protection will in this case be filled with packing material. (i-matic).

Technical data and Nomenclature see Annex.



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### DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

In the future the actuator may also be equipped with the brake motor type TB2-Ex.

Additionally a standard update has been carried out.

Annex:

Attachment to IECEx PTB 15.0033 X Issue 02.pdf



Attachment to Certificate IECEx PTB 15.0033 X, Issue No.2



Applicant:

DREHMO GmbH Zum Eichstruck 10 57482 Wenden Germany

## Technical data

Rated voltage	up to 690 V
Rated current	max. 27 A *)
Rated cross section	max. 16 mm <sup>2</sup>
Ambient temperatures	-25 °C to +40 °C (standard) -30 °C to +40 °C (IIC, T4) -30 °C to +60 °C (IIC, T4) -55 °C to +40 °C (IIC, T4 with heater) -30 °C to +65 °C (IIB, T3)
Ingress protection	IP66 in accordance with EN 60529

\*) may be higher for separately certified motors

The electrical data are based on the connected motor as well as the electric components accommodated in the electronics compartment.

### Nomenclature

D	*	iM*	*	*	<b></b>	*	-	*		Ex
1	2	3	4	5	6	7	8	9	10	11

Position	Range of values	Significance
1	D	DREHMO actuator
2		Multi-turn actuator
	P	Part-turn actuator
3	iM	Actuator with i-matic or i-matic C controls
4		Actuator for open-close operation, type of duty S2
	R	Actuator for modulating operation, type of duty S4
5	30 to 2000	Tripping torque in Nm for multi-turn actuator
	75 to 1800	Tripping torque in Nm for part-turn actuator
6	-	Dash
7		Without valve attachment (output drive)
	A, AF, B, B1, B2, B3, B3DO,	Valve attachment for multi-turn actuators according to EN ISO 5210
	B4, C, D, DO, DOU, DSTO, DSTU, E, EDO,	10 EN 150 5210
	B, V, W, L/D, H, FH, FW,	Valve attachment for part-turn actuators according to EN ISO 5211
8	-	Dash

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# Attachment to Certificate IECEx PTB 15.0033 X, Issue No.2



9	5 to 160 (50Hz)	Output speed in rpm (Multi-turn)
	6 to 192 (60Hz)	
	7 to 75 (50HZ)	Operating time for 90° in seconds (Part-turn)
	6 to 63 (60Hz)	2 (10)
10		Blank
11	Ex	Explosion-proof actuator