



(1) **Supplementary EU - Type Examination Certificate No.2**

(2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

(3) EU - Type Examination Examination Certificate number:

FTZÚ 07 ATEX 0304X

(4) Product: **Electrical Actuator type MOED EEx 52120.xxxxED (F)**

(5) Manufacturer: **ZPA Pečky a.s.**

(6) Address: **tř. 5. května 166, 289 11 Pečky, Czech Republic**

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 07 ATEX 0304X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

(9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.

(10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013; EN 60079-1:2014

(11) The marking of the product shall include the following:

	II 2G	Ex db IIC T4 Gb	-25°C ≤ Ta ≤ +55°C
		Ex db IIB T4 Gb	-50°C ≤ Ta ≤ +55°C
		Ex db IIB T4 Gb	-60°C ≤ Ta ≤ +55°C

(12) The certificate is valid till: **25.09.2022**

Responsible person:

Date of issue: 25.09.2017

Dipl. Ing. Lukáš Martinák
Head of Certification Body

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This certificate is granted subject to the general conditions of the FTZÚ, s.p.

This certificate may only be reproduced in its entirety and without any change, schedule included.



Physical-Technical Testing Institute
Ostrava - Radvanice

(13) **Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 2
to FTZÚ 07 ATEX 0304X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Evaluation according to the new edition of the standard: EN 60079-0:2012+A11:2013 and EN 60079-1:2014.
- Prolongation of certificate validity.

Technical parameters and construction of the product remain unchanged.

(16) Report Number.: 07/0304/2 dated: 25.09.2017

(17) Specific Conditions of Use:

1. Verified values of the maximum gaps and minimum constructional length of flameproof joints of the enclosure are different from relevant minimum and maximum values mentioned in standard. To obtain information about joints dimension it is necessary to contact the manufacturer.

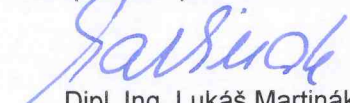
(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate. Non-electric part of the equipment – mechanical gearbox is not covered by this certificate.

(19) Drawings and Documents:

Number	Issue	Sheets	Date	Description
29050310b	c	1	24.07.2017	Drawing
MOED EEx types 52120 - 51125	-	55	01/2017	Instruction for use

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 25.09.2017

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EC-Type Examination Certificate

(1)
(2)

Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC

(3) EC-Type Examination Certificate Number:

FTZÚ 07 ATEX 0304X

(4) Equipment: **Electrical Actuator, type MOED EEx 52120.xxxxED (F)**

(5) Manufacturer: **ZPA Pečky a.s.**

(6) Address: **Tř. 5. května 166, 289 11 Pečky, Czech Republic**

(7) This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°

07/0304 dated 6 October 2008

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:

EN 60079-0:2006; EN 60079-1:2007

(10) If the sign „X“ is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include following:



II 2G

Ex d IIC T4

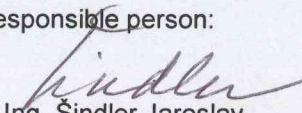
- 25°C ≤ Ta ≤ 55°C

Ex d IIB T4

- 50°C ≤ Ta ≤ 55°C

This EC-Type Examination Certificate is valid till: **21. 10. 2013**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: **21 of October 2008**

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Number of pages: 3

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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14) EC-Type Examination Certificate N° FTZÚ 07 ATEX 0304X

(15) Description of Equipment:

The electrical actuators, type series MOED EEx 52120 are electronic controlled devices intended for automatic adjustment of fixtures with reciprocating rotation movement. The electrical actuator consists of electrical and mechanic parts. The electrical part consists of control and terminal housing with type of protection – flameproof enclosure (d) and electric motor, also with type of protection – flameproof enclosure. Inside of control housing are installed control unit with position sensor, torque unit, heating resistors and alternatively other electronic circuits. The terminal housing serves also as instrument housing and there are installed: source unit, switching relay, contactors or contactless switches, electronic brake and/or other electrical and electronic circuits necessary for control, signalling, communication and protection. Alternatively, the electrical actuator is equipped with local control unit with magnetic switches and plastic sight glass in enclosure wall. The enclosures are connected via one purpose multi-conductor bushing. The cable entry into terminal compartment provides Ex cable glands approved for direct entry into flameproof enclosure. The electric motors and mechanical part of actuator, that consists of countershaft and gear box, are separately assessed devices of the actuator assembly.

The electrical actuators for ambient temperature $-50^{\circ}\text{C} \leq T_a \leq 55^{\circ}\text{C}$ has in type marking additional letter F.

Basic technical parameters:

Type: MOED EEx 52 120.	xx1xED	xx2xED	xx3xED	xx4xED	xx5xED	xx6xED
electric motor: AVM	71MK04	71M04	71MK04	71M04	71M04	71MK04
Type: MOED EEx 52 120.	xxAxED	xxBxED	xxCxED	xxDxED	xxExED	xxFxED
electric motor: 4KTC	71A-4	71B-4	71A-4	71B-4	71B-4	71A-4
Control gear: (alternative apparatus)	Power supply: AC 230 V, 3AC 400 V, 50Hz Input max.: 30 VA Output signals: analog circuitry: 0-20mA, 4-20mA contacts relay: 250 V AC 3A Input signals: max. 20mA, max. 60 V AC/DC					
Switch off torque M_{dov} : [N m]	20-40	20-40	40-63	40-63	63-100	80-125
Output speed: [min^{-1}]	25	40	25	40	25	11
Duty type:	S2 ($M_{av}=0,6 M_{dov}$), S4 25% ($M_{av}=0,4 M_{dov}$), max. 1200 cyklů za hodinu					
Electric motor output: [W]	250	370	250	370	370	250
Electric motor supply:	3 AC 400 V, 50Hz					
Ambient temperature:	$-25^{\circ}\text{C} \leq T_a \leq 55^{\circ}\text{C}$ (Ex d IIC T4), $-50^{\circ}\text{C} \leq T_a \leq 55^{\circ}\text{C}$ (Ex d IIB T4)					

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 21 of October 2008

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 07 ATEX 0304X**

(16) Report No. : 07/0304 (37 pages 15 annexes)

(17) Special conditions for safe use:

Verified values of design joints of flameproof enclosure are given in drawing No. 29050310. The values differ from relevant minimum or maximum values given in technical standard.

(18) Essential Health and Safety Requirements:

They are included in standards, which are mentioned in clause (9) of this certificate and in manufacturer documentation. The product was approved in accordance with above mentioned standards. Non-electrical part of equipment – mechanical gearbox is not cover by this certificate.

(19) List of documentation:

Technical description No.: MOED EEx t.č. 52120	31.08.2007
Approval assembly drawing No. 29050310	12.11.2007
Drawings No.:	
23465232	10.05.2007
23354379	26.11.2007
21465304	02.08.2007
22354361	14.08.2007
26152003	26.11.2007
21253460	04.02.2008
21253421	04.02.2008
21354286	12.07.2007
22354297	17.05.2007
22354330	17.05.2007
Technical specification No. TP 12-02/97 with annexes No. 1 and No. 2	07/2007
Instruction for use MOED EEx t.č.52120 až 52125	09/2008

Responsible person:

Dipl. Ing. Sindler Jaroslav
Head of certification body



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