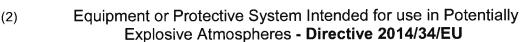


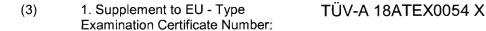


## Certificate

 SUPPLEMENT to EU - TYPE EXAMINATION (1)

acc. Directive 2014/34/EU Annex III figure 6





(4)Product AC capacitor motor of the type ERM 25 Ex e and ERM 25 Ex t and the fan of the type ERM 25 Ex e and ERM 25 Ex t

Maico Elektroapparate-Fabrik GmbH (5)Manufacturer:

(6)Address: Steinbeisstraße 20, 78056 Villingen-Schwenningen, Germany

This 1st supplement certificate extends EU – Type Examination Certificate No. (7) TÜV-A 18ATEX0054 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.

TÜV AUSTRIA SERVICES GMBH, Notified Body number 0408, in accordance with Article 17 of (8)Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplement 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.

The examination and test results are recorded in confidential Report No.: PB\_TÜV-A 18ATEX0052-54-55\_REV00\_ERM 18 22 25\_NT

- (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 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplement 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 April 2016
- (12)The marking of the product shall include the following:



II 2G Ex eb IIB + H2 T3 Gb II 2G Ex h IIB + H<sub>2</sub> T3 Gb II 2D Ex tb IIIB T200°C Db IP64 II 2D Ex h IIIB T200°C Db

Filderstadt Place

14.10.2020 Date

Michael Reuschel **Notified Body 0408** 

TÜV AUSTRIA SERVICES GMBH

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(13)

## Schedule

(14)

# 1. SUPPLEMENT to EU - TYPE EXAMINATION TÜV-A 18ATEX0054 X

### (15) Description of the variation to the Product:

The fan is already certified and has the vertificate number "TÜV-A 18ATEX0054 X". The following additions have been made to this type examination:

- Rated voltage extended to 100-250V AC
- Product addition with category 2D (Dust)
- Increasing the IP protection to IP64
- Mains frequency extended to 50/60 Hz
- Alternative use of a capacitor with 12 μF (originally 16 μF)
- Addition of the model ERM 25 Ex t

These changes now result in the following technical data:

Technical Data ERM 25 Ex e/t Type of product	Semi-radial pipe fan		
Rated voltage	100-250 V AC		
Voltage type	Alternating current		
Mains frequency	50/60 Hz		
Nominal power	300 W		
Cosφ	0,93		
I <sub>Nenn</sub>	1,4 A		
I <sub>max</sub> bei U <sub>Nenn</sub>	1,4 A		
Type of protection	IP 64		
Thermal class	F		
Mains supply wire	3/ 1,5 mm²		
Mounting position	Vertical / horizontal		
Speed	2820 1/min		
Promotional volume	870 m³/h		
Housing material	Plastic		
Weight	7,4 kg		
Nominal width	250 mm		
la/ln	3,5		
Time t <sub>E</sub>	19 Seconds		
Operating mode	S1		
Temperature class	T3		
Thermal class of unsulating materials Th. Cl.	155 (F)		
Impeller type	Semi-radial		

#### (16) **Test report**

PB\_TÜV-A 18ATEX0052-54-55\_REV00\_ERM 18 22 25\_NT

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#### (17)**Specific Conditions of Use**

The "Specific Conditions" of the certificate of origin shall be preserved. In addition to these conditions, the following "Specific Conditions" now also apply:

Only operate the fan at the rated voltage indicated on the nameplate.

Never use the fan to convey explosive dusts or solid or liquid particles.

Ensure the degree of protection by properly inserting the lines into the terminal box.

The motor must be used with the installed capacitor.

In addition to the voltages intermediate values are also permissible. The corresponding currents must be converted from the reciprocal ratio of the voltages.

#### **Essential Health and Safety Requirements**

Covered by the application of following standards:

EN 60079-0:2012/corr. 2013	EN 60079-31:2016	
EN ISO 80079-36:2016	EN ISO 80079-37:2016	

#### **Drawings and documents**

Datei	Rev	Datum	Bezeichnung
TÜV-A 18ATEX0054	00	29.06.2018	Baumusterprüfbescheinigung
Ex ZB Maico 001 Rev. 3.pdf	3	05.11.2019	Zündgefahrenbewertung
2019_10_22_Messprotokoll_ERM 25 Ex e_Kondensator.docx	1	22.10.2019	Messprotokolle ERM 25
0157.1557.0000_Kondensator_16μF_ Ex_eV01.pdf	2	19.10.2018	Technische Zeichnung Kondensator 16µF
0157.1558.0000_Kondensator_12μF_ Ex_eV01.pdf	1	24.08.2018	Technische Zeichnung Kondensator 12µF

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