



Certificate

(1) 1. SUPPLEMENT to EU - TYPE EXAMINATION



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

(2) Equipment or Protective System Intended for use in Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) 1. Supplement to EU - Type Examination Certificate Number: TÜV-A 18ATEX0055 X

(4) Product

- AC capacitor motor of the type ERM 22 Ex e and ERM 22 Ex t and the fan of the type ERM 22 Ex e and ERM 22 Ex t

(5) Manufacturer: Maico Elektroapparate-Fabrik GmbH

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

(7) This 1st supplement certificate extends EU – Type Examination Certificate No. TÜV-A 18ATEX0055 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) TÜV AUSTRIA SERVICES GMBH, Notified Body number 0408, in accordance with Article 17 of 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 + H₂ T3 Gb
II 2D Ex tb IIIB T200°C Db IP64
II 2D Ex h IIIB T200°C Db

Michael Reuschel
Notified Body 0408
TÜV AUSTRIA SERVICES GMBH

Filderstadt
Place

14.10.2020
Date



(13)

Schedule

(14)

1. SUPPLEMENT to EU - TYPE EXAMINATION TÜV-A 18ATEX0055 X

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

The fan is already certified and has the verificate number "TÜV-A 18ATEX0055 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 16 µF (originally 12 µF)
- Addition of the model ERM 22 Ex t

These changes now result in the following technical data:

Technical Data ERM 22 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	200 W
Cosφ	0,92
I _{Nenn}	0,92 A
I _{max} at U _{Nenn}	0,92 A
Type of protection	IP 64
Thermal class	B
Mains supply wire	3/ 1,5 mm ²
Mounting position	Vertical / horizontal
Speed	2860 1/min
Promotional volume	560 m ³ /h
Housing material	Plastic
Weight	6,5 kg
Nominal width	220 mm
I _A /I _N	3,1
Time t _E	30 Seconds
Operating mode	S1
Temperature class	T3
Thermal class of unsulating materials Th. Cl.	130 (B)
Impeller type	Semi-radial

(16) **Test report**

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TÜV AUSTRIA SERVICES GMBH
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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.

(18) 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

(19) Drawings and documents

Datei	Rev	Datum	Bezeichnung
TÜV-A 18ATEX0055	00	29.06.2018	Baumusterprüfbescheinigung
Ex ZB Maico 001 Rev. 3.pdf	3	05.11.2019	Zündgefahrenbewertung
2019_10_22_Messprotokoll_ERM 22 Ex e_Kondensator.docx	/	22.10.2019	Messprotokolle ERM 22
0157.1557.0000_Kondensator_16µF_ Ex_e_V01.pdf	2	19.10.2018	Technische Zeichnung Kondensator 16µF
0157.1558.0000_Kondensator_12µF_ Ex_e_V01.pdf	1	24.08.2018	Technische Zeichnung Kondensator 12µF