



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 18ATEX0052 X
- (4) Product AC capacitor motor of the type ERM 18 Ex e and ERM 18 Ex t and the fan type ERM 18 Ex e and ERM 18 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 18ATEX0052 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 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 T4 Gb
- II 2G Ex h IIB + H₂ T4 Gb
- II 2D Ex tb IIIC T135°C Db IP64
- II 2D Ex h IIIC T135°C Db

Filderstadt
Place

08.04.2025
Date


Michael Reuschel
Notified Body 0408
TÜV AUSTRIA GMBH





Schedule

(14) 1. SUPPLEMENT to EU - TYPE EXAMINATION
TÜV-A 18ATEX0052 X

(15) Description of the variation to the Product:

The fan is already certified and has the certificate number "TÜV-A 18ATEX0052 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
- Addition of the model ERM 18 Ex t

These changes now result in the following technical data:

Technical Data ERM 18 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	50 W
Cosφ	0,9
I _{Nenn}	0,25 A
I _{max} at U _{Nenn}	0,25 A
Type of protection	IP 64
Thermal class	B
Mains supply wire	3/ 1,5 mm ²
Mounting position	Vertical / horizontal
Speed	2780 1/min
Promotional volume	310 m ³ /h
Housing material	Plastic
Weight	3,6 kg
Nominal width	180 mm
I _A /I _N	2,5
Time t _E	50 Seconds
Operating mode	S1
Temperature class	T4
Thermal class of insulating materials Th. Cl.	130 (B)
Impeller type	Semi-radial

(16) Test report

PB_TÜV-A 18ATEX0052-54-55_REV00_ERM 18 22 25_NT

**(17) Specific Conditions of Use**

The fan shall be operated only with the rated voltage as indicated on the name plate.

The fan shall only be operated during free intake or blow-out, if the impeller is protected against contact in accordance with ISO 13857. Use the safety guard SGM...Ex.

Use ELM-Ex elastic sleeves to avoid vibration transmission to the pipe system.

Use fan only with additional and suitable motor circuit breaker.

Never run several fans in parallel on a single thermistor triggering system.

Make sure there is sufficient air gap between impeller and housing.

Never use the fan to transport explosive liquid particles.

Operate the fan only within the permissible ambient and operating conditions and operating temperature.

Provide a free air inlet or outlet with a protection device according to EN 60529. A double-sided protection is mandatory. The device and pipelines must be secured against the ingress of foreign objects.

Ensure a sufficient air flow supply. Operate the fan in the permitted air flow range.

Operation with frequency converter is not permitted.

Do not put any objects in the device.

Ensure degree of protection by proper insertion of the cables into the terminal box.

The assembly and installation must meet the requirements of EN 60079-14.

The no-load operation don't have practical meaning, because of the engine shall be operated only in the fan as intended.

The motor shall be used with the built-in capacitor

The allowed voltages are according to the manual.

Only motor circuit breaker with a type examination certificate in accordance with ATEX and a marking in accordance with ATEX (Gb/Db) are permitted or comparable requirements



according the ATEX Scheme. The motor circuit breaker must be set to the rated motor current (not I_{max}).



(18) **Essential Health and Safety Requirements**

Covered by the application of following standards:

EN IEC 60079-0:2018	EN 60079-31:2014
EN IEC 60079-7:2015 / A1:2018	EN ISO 80079-36:2016
EN ISO 80079-37:2016	

(19) **Drawings and documents**

Datei	Rev	Datum	Bezeichnung
TÜV-A 18ATEX0052	01	14.08.2023	Baumusterprüfbescheinigung
Ex ZB Maico 001 Rev. 3.pdf	3	05.11.2019	Zündgefahrenbewertung

