



Certificate (Translation)

(1) **EU - TYPE EXAMINATION CERTIFICATE**
in accordance with Directive 2014/34 / EU, Annex III, point 6



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

- (3) EU - Type Examination Certificate Number: TÜV-A 18ATEX0053 X
- (4) Product: AC motor of the type EZQ 20/4-E Ex e and EZQ 20/4-E Ex t and the fan of type EZQ 20/4-E Ex e and EZQ 20/4-E Ex t
AC motor of the type EZS 20/4-E Ex e and EZS 20/4-E Ex t and the fan of type EZS 20/4-E Ex e and EZS 20/4-E Ex t
- (5) Manufacturer: Maico Elektroapparate-Fabrik GmbH
- (6) Address: Steinbeisstraße 20
78056 Villingen-Schwenningen
GERMANY
- (7) This product and any acceptable variation thereto is specified in the schedule 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 these products have 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_TUV-A 2018-TAD-000020_EZQ
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- | | | |
|----------------------------|----------------------|------------------|
| EN 60079-0:2012 + A11:2013 | EN 60079-7:2015 | EN 60079-31:2016 |
| EN ISO 80079-36:2016 | EN ISO 80079-37:2016 | |
- except in respect of those requirements listed at item 17 of the Schedule.
- (10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- (11) This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.



TÜV
AUSTRIA

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

Ex II 2G Ex eb IIB + H₂ T3 Gb Ex II 2D Ex h IIIB T200°C Db
 Ex II 2G Ex h IIB + H₂ T3 Gb Ex II 2D Ex tb IIIB T200°C Db IP64



Online Verification

Filderstadt
Place

October 14th, 2020
Date


Michael Reuschel
Notified Body 0408
TÜV AUSTRIA SERVICES GMBH



(13)

Schedule

(14)

Certificate Number TÜV-A 18ATEX0053 X

(15) Description of Product

The fan is used to ventilate commercially used rooms (commercial premises, production facilities, garages, etc) with a potentially explosive atmosphere.

Type codes:

E: Alternating current
 Z: Code letter for impeller wheel
 Q/S: Square steel wall plate (Q) / steel wall ring (S)
 20: Code number for nominal impeller diameter 200mm
 E: Shaded pole motor size 56

Technical data:

Type of product	Axial wall fan with square wall plate	Axial wall fan with steel wall ring
Rated voltage	100-250 V AC	100-250 V AC
Voltage type	Alternating current	Alternating current
Mains frequency	50/60 Hz	50/60 Hz
Nominal power	45 W	45 W
Cosφ	0,61	0,61
I _{Nenn}	0,32 A	0,32 A
I _{max} at U _{Nenn}	0,32 A	0,32 A
Type of protection	IP 64	IP 64
Thermal class	B	B
Mounting position	vertical/ horizontal	vertical/ horizontal
Speed	1340 1/min	1340 1/min
Promotional volume	440 m ³ /h	440 m ³ /h
Housing material	Galvanised sheet steel	Galvanised sheet steel
Weight	4,0 kg	3,4 kg
Nominal width	200 mm	200 mm
I _A /I _N	1,5	1,5
Time t _E	300 seconds	300 seconds
Operating mode	S1	S1
Temperature class	T3	T3
Thermal class of insulating materials Th. Cl.	130 (B)	130 (B)
Impeller type	axial	axial
Temperature range T _{amb}	-20°C ≤ T _a ≤ +40°C	-20°C ≤ T _a ≤ +40°C



(16) **Report Number**

PB_TUV-A 2018-TAD-000020_EZQ

(17) **Specific Conditions of Use**

Provide a free air inlet or air outlet with a protective device in accordance with EN 60529. Protection on both sides is mandatory. The unit and piping must be protected against the ingress of foreign bodies. For this purpose, a suitable protective grid must be attached.

A speed control via frequency converter is not permitted.

The requirements of EN 60079-14 must be observed during assembly and installation.

In addition to the voltages specified under point 15 of the certificate, intermediate values are also permissible. The associated currents must be converted from the reciprocal ratio of the voltages.

Only motor-protective circuit-breakers with a type examination certificate in accordance with Directive 2014/34/EU and a marking in accordance with Directive 2014/34/EU which is at least Category II (2) are permitted. The motor-protective circuit-breaker must be set to the rated motor current (not I_{max}).

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

Met by the standards mentioned above.

(19) **Drawings and Documents**

Document / Drawing no / File name/ Reference	Rev	Pages	Date	Description
EZQ-EZS 20 4E Ex e	/	102	25.04.2016	Instruction manual
EU-Konf_EZQ 20_4 Ex DE 02 16	Ex-001.4/02/16	1	25.02.2016	EU Declaration of Conformity
Ex ZB Maico 002 Rev. 3	3	11	05.11.2019	Ignition hazard assessment
Allgemeine Beschreibung EZQ 20 4 Ex e	/	6	27.03.2018	General description
0083.0850_EZQ_20_4-E_Ex_e_Rechtslauf_V09	4	1	23.07.2015	Overview Drawing