**Axial wall fan DZQ 45/4 B Ex e**

Product model

Three-phase AC motor

Ex II 2G Ex eb IIB+H2 T3/T4 Gb X / Ex II 2G Ex h IIB+H2 T3/T4 Gb X.

For usage temperatures of -20°C ≤ Ta ≤ +40°C.

Can be switched to ventilation or air extraction.

Special features

Axial wall fan, explosion-proof, medium: gas.

Explosion protection and approvals in accordance with ATEX and IECEx.

Qualified for all gases and vapours of Ex group IIA and IIB and also for hydrogen.

MAICO Ex fans fulfil the safety requirements of European Directive 2014/34/EU for units and protective systems in potentially explosive atmospheres.

For zones 1 and 2.

Types of ignition protection: “e”- increased safety and “c”- constructional safety.

IP 64 degree of protection.

Protective grille on the intake side, protection against accidental contact in accordance with DIN EN ISO 13857.

Can be fitted in any position.

Model series

EZQ / DZQ .. Ex e with square wall plate.

EZS / DZS .. Ex e with steel wall ring.

Impeller

Axial impeller made of conductive plastic.

Balance quality of the motor/impeller combination G 6.3 according to category BV-3 in accordance with ISO 14694.

Air flow direction

The air flow direction is marked.

Standard exhaust air mode, air flow direction with air drawn across motor.

Three-phase AC motor

Robust three-phase AC motor with ball bearings, maintenance-free.

Reversible.

Reversing mode: The volumetric flow is reduced by approx. 35 % with abnormal air flow direction.

S1 operating mode (continuous operation).

Speed control permitted with TR... transformer. Exception: DZ.. 35/2 B Ex...

The temperature in the fan motor is monitored by PTC thermistors. The PTC thermistors must be connected to a triggering system (safety device according to Directive 2014/34/EU), that separates the fan permanently from the power if the temperature gets too hot.

The MAICO PTC thermistor triggering device MVS 6 or TMS is recommended as the triggering system.

Electrical connection

Connecting cable, approx. 1.7 m long.

Separate terminal box, explosion-proof, with cable screw-connections.

DZQ/DZS Ex .. required safety technology.

A PTC thermistor triggering device is needed to fuse the DZQ/DZS-Ex units.

Maico provides the MVS 6 PTC thermistor triggering device and TMS for this purpose.

MVS 6 thermistor triggering device.

Independent complete system.

For monitoring the maximum motor temperature.

Type-examination tested according to Directive 2014/34/EU (ATEX).

Installation exclusively in non-explosive areas.

TMS thermistor machine protection relay.

For monitoring the maximum motor temperature.

Suitable for installation in control cabinets.

Type-examination tested according to Directive 2014/34/EU (ATEX).

Installation exclusively in non-explosive areas.

Special versions

Special voltages are available as special versions on request and at extra cost.

Information on operation at temperatures occasionally below -20°C available upon request.

Feasibility must be checked in each case.

Technical data

|  |  |
| --- | --- |
| Article: | DZQ 45/4 B Ex e |
| Model: | Square wall plate |
| Air flow volume: | 6.400 m³/h |
| Rotating speed: | 1.425 1/min |
| Impeller type: | axial |
| Speed controllable: | ✔ |
| Reversing capacity: | ✔ |
| Type of voltage: | Three-phase AC |
| Rated voltage: | 400 V |
| Frequency: | 50 Hz |
| Nominal output: | 330 W |
| cosφ: | 0,67 |
| Inom: | 0,7 A |
| Imaxat UNominal: | 1,1 A |
| Degree of protection: | IP 64 |
| Insulation class: | F |
| Installation site: | Wall / Ceiling |
| Type of installation: | Surface-mounted |
| Installation position: | vertical / horizontal |
| Material: | Sheet steel, galvanised |
| Housing material: | Sheet steel, galvanised |
| Colour: | galvanised |
| Weight: | 16,49 kg |
| Weight including packaging: | 19,7 kg |
| Nominal size: | 450 mm |
| Width: | 630 mm |
| Height: | 630 mm |
| Depth: | 269 mm |
| Width with packaging: | 655 mm |
| Height with packaging: | 655 mm |
| Depth with packaging: | 320 mm |
| EX designation in accordance with the ATEX Directive: | Ex II 2 G |
| EX designation in accordance with standard: | Ex eb IIB + H<sub>2</sub> T4 Gb / Ex h IIB + H<sub>2</sub> T4 Gb |
| Ta ambient temperature: | -20 °C ≤ Ta ≤ +40 °C |
| IA/IN: | 4,5 |
| Time tA: | 110 sek |
| Operating mode: | S1 |
| PTC DIN 44082: | M 100 |
| EC type examination certificate: | TÜV-A 19 ATEX0102 X, IECEx EPS 19.0018X |
| Temperature class: | T4 |
| Temperature class of insulating materials Th. Cl.: | 155 (F) |
| Packing unit: | 1 piece |
| Range: | C |
| GTIN (EAN): | 4012799831839 |
| Article number: | 0083.0183 |

Manufacturer: MAICO

DZQ 45/4 B Ex e Axial wall fan