**Centrifugal blower GRM ES 12/2 Ex**

Features

Centrifugal blower with stainless steel housing for applications in areas subject to explosion hazards.

Explosion protection and approvals in accordance with ATEX.

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 zone 1 and 2.

Types of ignition protection: “d” – pressure-proof housing and “c” – constructional safety.

Powerful fans for industrial applications.

Suitable for conveying corrosive and acidic media.

For simple and direct mounting on a duct system.

The motor is outside the air flow.

Stainless steel housing.

Standard orientation for LG 270° housing.

Suitable for temperature ranges from -20 °C to +40 °C.

The stainless steel intake socket is included in the scope of delivery.

Centrifugal impellers with forward curved blades made of stainless steel.

Motor

Asynchronous three-phase AC motors.

Degree of protection IP55.

S1 operating mode (continuous operation).

Temperature class T4.

Speed controllable with frequency converter.

Permissible frequency range for speed control with frequency converter is 20 Hz to 50 Hz.

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.

Electrical connection

Connection in the terminal box on the motor.

Cable screw connection, in Ex d version, included in the scope of delivery.

Special versions

The following special versions are available on request, at an extra cost:

Deviating housing orientation.

Technical data

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| Article: | GRM ES 12/2 Ex |
| Air flow volume: | 900 m³/h |
| Rotating speed: | 2.880 1/min |
| Impeller type: | radial |
| Speed controllable: | ✔ |
| Reversing capacity: | - |
| Type of voltage: | Three-phase AC |
| Rated voltage: | 400 V |
| Frequency: | 50 Hz |
| Nominal output: | 250 W |
| Inom: | 0,62 A |
| Degree of protection: | IP 55 |
| Insulation class: | F |
| Pole-changeable: | - |
| Installation site: | Duct connection |
| Installation position: | Horizontal |
| Housing material: | Stainless steel (AISI 304) |
| Colour: | Silver |
| Weight: | 7 kg |
| Weight including packaging: | 10,6 kg |
| Width: | 300 mm |
| Height: | 272 mm |
| Depth: | 246 mm |
| Width with packaging: | 400 mm |
| Height with packaging: | 335 mm |
| Depth with packaging: | 290 mm |
| EX designation in accordance with the ATEX Directive: | Ex II 2 G |
| EX designation in accordance with standard: | Ex db IIB+H2 T4 Gb X / Ex h IIB+H2 T4 Gb X |
| Ta ambient temperature: | -20 °C ≤ Ta ≤ +40 °C |
| Operating mode: | S1 |
| PTC DIN 44082: | M 100 |
| Temperature class: | T4 |
| Packing unit: | 1 piece |
| Range: | C |
| GTIN (EAN): | 4012799733928 |
| Article number: | 0073.0392 |

Manufacturer: MAICO

GRM ES 12/2 Ex Centrifugal blower