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

Features

Centrifugal blower made of metal for applications in areas subject to explosion hazards.

Explosion protection tested in accordance with Directive 2014/34/EU.

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.

For simple and direct mounting on a duct system.

The motor is outside the air flow.

Sheet steel housing.

Standard orientation for LG 270° housing.

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

The intake socket, made of coated sheet steel, is included in the scope of delivery.

Centrifugal impellers with forward curved blades made of galvanised sheet steel.

Three-phase AC 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 20-50 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 12/2 D 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 |
| Material: | Sheet steel, galvanised |
| Housing material: | Steel |
| Colour: | grey |
| Weight: | 10 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): | 4012799733874 |
| Article number: | 0073.0387 |

Manufacturer: MAICO

GRM 12/2 D Ex Centrifugal blower