**Centrifugal blower GRK R 45/4 D Ex**

Features

Centrifugal blower made of plastic 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 2.

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

Powerful fans for industrial applications.

Low noise level and high efficiency.

Suitable for conveying corrosive and acidic air.

For simple and direct mounting on a duct system.

The motor is outside the air flow.

Housing made of high quality, conductive plastic, antistatic.

Standard orientation for LG 270° housing.

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

The motor base made of epoxy-coated sheet steel, for mounting the fan, is included in the scope of delivery.

Centrifugal impellers with backward curved blades made of polypropylene.

Motor

Asynchronous three-phase AC motor.

Degree of protection IP55.

S1 operating mode (continuous operation).

Temperature class T4.

Mounting foot for motor made of epoxy-coated sheet steel.

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 alignment.

Technical data

|  |  |
| --- | --- |
| Article: | GRK R 45/4 D Ex |
| Air flow volume: | 6.000 m³/h |
| Rotating speed: | 1.440 1/min |
| Impeller type: | radial |
| Speed controllable: |  ✔  |
| Reversing capacity: |  -  |
| Type of voltage: | Three-phase AC |
| Rated voltage: | 400 V |
| Frequency: | 50 Hz |
| Nominal output: | 1.100 W |
| Inom: | 2,7 A |
| Degree of protection: | IP 55 |
| Insulation class: | F |
| Pole-changeable: |  -  |
| Installation site: | Duct connection |
| Installation position: | Horizontal |
| Housing material: | Plastic, polyethylene |
| Impeller material: | Plastic, polypropylene |
| Colour: | Black |
| Weight: | 61 kg |
| Weight including packaging: | 84 kg |
| Width: | 617 mm |
| Height: | 880 mm |
| Depth: | 850 mm |
| Width with packaging: | 800 mm |
| Height with packaging: | 1.200 mm |
| Depth with packaging: | 1.030 mm |
| EX designation in accordance with the ATEX Directive: | Ex II 3 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): | 4012799734543 |
| Article number: | 0073.0454 |

Manufacturer: MAICO

GRK R 45/4 D Ex Centrifugal blower