**Centrifugal roof fan DRD H 90/6 Ex**

Features

Centrifugal roof fan 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 zone 2.

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

Horizontal air outlet.

Low noise level.

Housing made of galvanised sheet steel.

Plastic weather protection hood.

Motor outside of the air flow.

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

Sturdy eyebolts enable transport by crane.

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

Three-phase AC motor

Asynchronous three-phase AC motors.

IP 55 degree of protection.

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

Connected 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:

Versions with an operating frequency for 60 Hz.

Technical data

|  |  |
| --- | --- |
| Article: | DRD H 90/6 Ex |
| Air flow volume: | 29.986 m³/h |
| Rotating speed: | 970 1/min |
| Impeller type: | radial |
| Speed controllable: |  ✔  |
| Reversing capacity: |  -  |
| Type of voltage: | Three-phase AC |
| Rated voltage: | 400 V |
| Frequency: | 50 Hz |
| Nominal output: | 5.500 W |
| Inom: | 11,5 A |
| Degree of protection: | IP 55 |
| Insulation class: | F |
| Pole-changeable: |  -  |
| Installation site: | Roof |
| Installation position: | vertical |
| Material: | Sheet steel, galvanised |
| Housing material: | Sheet steel, galvanised |
| Colour: | grey |
| Weight: | 250 kg |
| Weight including packaging: | 260 kg |
| Nominal size: | 900 mm |
| Width: | 1.400 mm |
| Height: | 1.180 mm |
| Depth: | 1.400 mm |
| Width with packaging: | 1.440 mm |
| Height with packaging: | 1.385 mm |
| Depth with packaging: | 1.440 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): | 4012799735441 |
| Article number: | 0073.0544 |

Manufacturer: MAICO

DRD H 90/6 Ex Centrifugal roof fan