**Centrifugal roof fan GRD 31**

Features

Pressure or volumetric constancy can be set.

2 speed levels for day/night operations.

Day/night operation can be set using 2 reference volumetric flows or 2 reference pressure levels.

With automatic fault message.

Can be used for central ventilation systems in accordance with DIN 18017-3.

Adjustments can be undertaken without pressure or volumetric flow having to be measured.

Housing easily detachable for cleaning purposes.

Galvanized protective grille on the discharge side, protection against accidental contact in accordance with DIN EN ISO 13857.

Sturdy eyebolts enable transport by crane.

Impeller with blades curved to the rear, dynamically balanced at two levels, in accordance with performance level 6.3, DIN ISO 1940.

Impeller made of glass-fibre filled polypropylene.

With service switch.

IP 45 degree of protection.

Control unit

Control unit included in scope of delivery.

Any installation inside the building.

Pressure sensor fitted in fan housing ready for use.

Control unit for operating in constant pressure / constant volumetric flow mode.

A minimum volumetric flow is required for the correct function:

GRD 22 - 150 m3/h

GRD 25 - 200 m3/h

GRD 31 - 250 m3/h

Motor

EC motor.

Overload protection as standard.

No motor protection measures needed.

Electrical connection

2 separate mains connections (230 V, 50 Hz) needed for fan and control unit.

Mains connections 3 x 1.5 mm2 each, type NYM-J / NYM-O.

6-core shielded control cable between control and fan.

Control cable with maximum length of 200 m, maximum external diameter of 6 mm, e.g. LiYCY (6 x 0.25 mm2 or 6 x 0.34 mm2).

Technical data

|  |  |
| --- | --- |
| Article: | GRD 31 |
| Air flow volume: | 3.600 m³/h |
| Air volumenom: | 2.020 m³/h in opt. efficiency |
| Pressure pfs, nom: | 380 Pa in opt. efficiency |
| Rotating speed nnom: | 1.490 1/min in opt. efficiency |
| Rotating speed: | 1.732 1/min |
| Impeller type: | radial |
| Speed controllable: | ✔ |
| Reversing capacity: | - |
| Rated voltage: | 230 V |
| Frequency: | 50 Hz |
| Nominal output: | 600 W in opt. efficiency |
| Inom: | 3,5 A in opt. efficiency |
| Imax: | 3,6 A |
| Degree of protection: | IP 45 |
| Insulation class: | B |
| Mains cable: | 3 x 1,5 mm² |
| Installation site: | Roof |
| Installation position: | vertical |
| Material: | Sheet steel, galvanised |
| Weight: | 42,25 kg |
| Weight including packaging: | 46,86 kg |
| Shutter: | integrated |
| Type of shutter: | Airstream-operated opening/closing |
| Nominal size: | 315 mm |
| Width: | 724 mm |
| Height: | 724 mm |
| Depth: | 547 mm |
| Width with packaging: | 755 mm |
| Height with packaging: | 755 mm |
| Depth with packaging: | 570 mm |
| Airstream temperature at nominal current: | -20 °C up to 50 °C |
| Airstream temperature at IMax: | -20 °C up to 50 °C |
| Packing unit: | 1 piece |
| Range: | C |
| GTIN (EAN): | 4012799870180 |
| Article number: | 0087.0018 |

Manufacturer: MAICO

GRD 31 Centrifugal roof fan