**Centrifugal roof fan MDR 31 EC**

Standard model

Intelligent control options via 0-10 V, PWM or Modbus.

External switching ON/OFF possible.

Status of service switch, potential-free contact (can be loaded up to 230 V/2A).

Motor fault message, potential-free contact (can be loaded up to 230 V/2A).

Features

Attractive housing made from galvanised sheet steel.

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

Cover can be easily removed for cleaning purposes.

Automatic fault message.

Integrated service switch.

IP X5 degree of protection.

Sturdy eyebolts enable transport by crane.

Conforms with DIN EN 60204-1 and DIN EN 60335-1.

Control

Intelligent control options via Modbus, 0-10 V, PWM or pressure control.

Output of fault messages.

Pressure sensor installed in fan housing of PG variants ready for use.

Motor and impeller

EC motor, 230 V, 50 Hz, or 400 V, 50 Hz.

Overload protection as standard.

No motor protection measures needed.

Electrical connection

Common mains connection (230 V, 50 Hz or 400 V, 50 Hz) for fan and control.

Mains connections each 3 x 1.5 mm² (or 7x 1.5 mm³) of type NYM-J.

Control cable from 0.5 mm².

Connection terminals for speed control by means of 0-10 V, PWM or potentiometer.

Connection terminal for status speed output (MDR 22 EC, MDR 25 EC, MDR 31 EC).

Connection terminal for Modbus output (MDR 22 EC, MDR 25 EC, MDR 31 EC.

Connection terminal for fault messages.

Technical data

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| Article: | MDR 31 EC |
| Air flow volume: | 3.640 m³/h |
| Air volumenom: | 2.095 m³/h in opt. efficiency |
| Pressure pfs, nom: | 432 Pa in opt. efficiency |
| Rotating speed nnom: | 2.100 1/min in opt. efficiency |
| Impeller type: | radial |
| Speed controllable: |  ✔  |
| Reversing capacity: |  -  |
| Type of voltage: | Alternating current |
| Rated voltage: | 230 V |
| Frequency: | 50 Hz |
| Nominal output: | 485 W in opt. efficiency |
| Inom: | 2,13 A in opt. efficiency |
| Imax: | 2,3 A |
| Degree of protection: | IP X5 |
| Insulation class: | F |
| Pole-changeable: |  -  |
| Installation site: | Roof |
| Installation position: | vertical |
| Weight: | 40,02 kg |
| Weight including packaging: | 44,45 kg |
| Swivellable: |  -  |
| Nominal size: | 315 mm |
| Width: | 720 mm |
| Height: | 547 mm |
| Depth: | 720 mm |
| Width with packaging: | 755 mm |
| Height with packaging: | 575 mm |
| Depth with packaging: | 755 mm |
| Airstream temperature at IMax: | -25 °C up to 60 °C |
| Temperature class: | F |
| Packing unit: | 1 piece |
| Range: | E |
| GTIN (EAN): | 4012799870265 |
| Article number: | 0087.0026 |

Manufacturer: MAICO

MDR 31 EC Centrifugal roof fan