Description:

Duct EC fan for installation in ventilation duct networks. Compact casing made of galvanized sheet steel with overall reduced length. For easy mounting in air ducts, with 20 mm standard flanges on both sides. Mounting position horizontally and vertically possible.

The efficiency-optimized impeller with backward curved blades is fitted on the external rotor of an energy saving, high efficiency EC-motor. The impeller is balanced together with the EC motor according to the quality class G 6.3 of DIN / ISO

1940, on 2 planes. The duct EC fan is easy to clean due to swing out fan section, thus the fan is also suitable for transporting slightly polluted air. Closed EC drive motor with maintenance-free ball bearings with lifetime lubrication, sealed on both sides. The motor protection is provided by integrated thermal monitoring of the motor electronics. The electrical connection is to be done via the connection box mounted on casing.

CE marking according to EC Declaration of Conformity for Electromagnetic Compatibility EMC - Directive 2004/108/EC. EC - Declaration of Incorporation according to the Machinery Directive 2006/42/EC - Directive 2009/125/EC (Reg.

1253/2014/EU).

Technical data:

Volumetric flow (V): m³/h Pressure increase (Δpfa): Pa Efficiency static max. (ηfa): 62,4 % Efficiency total max. (ηt): 63,2 %

Rated voltage (U): 400, 3~ V Rated frequency (f): 50 Hz Rated power consumption (PN): 2233 W Current consumption max. (Imax.): 3,4 A Rated speed (n): 1530 min-1

Protection class motor: IP 54

Protection class terminal box: IP 44

Ambient temperature max. (tA): 60 °C Medium temperature max. (tM): 60 °C

Casing sound power level (LWA2): 75 dB(A) Inlet sound power level (LWA5): 86 dB(A) Outlet sound power level (LWA6): 90 dB(A)

|  |  |  |
| --- | --- | --- |
| Dimensions (L x W x H): | 830x1038x605 mm | (incl. terminal box) |
| Duct connection: | 1000x500 mm |  |
| Weight: | 66,0 kg |  |

Wiring diagram: 132083

Manufacturer:

ruck Ventilatoren GmbH Max-Planck-Str. 5

97944 Boxberg

Tel. 07930-9211300 [www.ruck.eu](http://www.ruck.eu/)

|  |  |  |
| --- | --- | --- |
| Available accessories:  VS 10050 | 103956 | Flexible duct connector size 10050 |
| VKK 10050 | 103946 | Automatic damper size 10050 |
| GS 03 | 107633 | Isolator switch |
| MTP 20 | 128146 | Potentiometer 0-10V, stepless |
| MTP 30 | 143289 | Stepped potentiometer, +10Vdc, step 1+2 adjustable, step 3 100% Vdc |
| MTP 40 | 147359 | Potentiometer for connection in terminal box, sales unit 20 pcs. |
| CON P1000 | 115259 | Constant pressure control with day-night switch function |
| CLIMASET01 | 111314 | Accessories set for CON P1000, pressure hose, nipples and screws |
| SEN AIR | 148641 | Airflow and temperature transducer |
| SEN CO2 | 126586 | CO2 Sensor, for variable air volume control (e.g. in meeting rooms) |