Description:

Centrifugal roof fan with backward curved impeller and vertical discharge. Housing made of weather-resistant aluminum AlMg3 with very low construction height. The air outlet is protected by a protection grille against intrusion, birds and other foreign objects. Baseplate of galvanized steel sheet with deep drawn air inlet and preassembled screws for the possibility of connecting pipe flanges and accessories according to DIN 24154 / EN 12 220. The fan has been conceived for easy mounting on roof socket (optional accessory) without the necessity of removing the housing.

The plastic impeller with backward curved blades is fitted on the external rotor of an energy saving, high efficiency EC- motor and together balanced according to the quality class G 6.3 of DIN / ISO 1940, on 2 planes. The drive motor is closed and de-signed in protection class IP54. For maintenance-free use, there are ball bearings with lifetime lubrication, sealed on both sides. The motor protection is provided by a thermal contact integrated into the winding, permanently

monitored by the motor electronic. The electrical connection is to be done via the cable lead out through the housing base plate. The motor is controllable using a 0-10V signal (e.g. potentiometer or CO2 Sensor). The lockable device switch is integrated into the housing and there-fore well protected.

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 (Δp fa): Pa Efficiency static max. (η fa): 42,6 % Efficiency total max. (ηt): 42,8 %

Rated voltage (U): 230, 1~ V Rated frequency (f): 50 Hz Rated power consumption (P N): 113 W Current consumption max. (I max.): 0,9 A Rated speed (n): 2930 min-1

Protection class motor: IP 54

Protection class terminal box: IP 44

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

Inlet sound power level (L WA5): 69 dB(A) Outlet sound power level (LWA6): 70 dB(A)

Dimensions (L x W x H): 388x388x190 mm

Weight: 5,1 kg

Wiring diagram: 131918

Manufacturer:

ruck Ventilatoren GmbH Max-Planck-Str. 5

97944 Boxberg

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

|  |  |  |
| --- | --- | --- |
| Available accessories:DSF 220-10 | 126170 | Roof socket, flat roof, size 220 |
| DSF 220-12 up to 19 |  | Sloped roof socket, size 220, slope optional in 3° increments (3-24°) |
| DSS 220-10 | 126356 | Roof socket, flat roof sound insulated, size 220 |
| DSS 220-12 up to 19 |  | Sloped roof sound insulated socket, size 220, |
|  |  | slope optional in 3° increments (3-24°) |
| DAP 220 | 133946 | Roof adapter plate size 220 for suction side accessories (for DSS-10) |
| DVK 180 10 | 153000 | Roof - Gravity shutter size 180 |
| DAS 180 | 110745 | Roof - Inlet spigot size 180 |
| DAF 180 | 110744 | Roof - Inlet flange size 180 |
| MTP 20 | 128146 | Potentiometer 0-10V, stepless |
| MTP 30 | 143289 | Stepped potentiometer, 0-10V, 3 steps |
| 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 CO2 | 126586 | CO2 Sensor, for variable air volume control (e.g. in meeting rooms) |