Description:

Centrifugal roof fan with backward curved impeller and vertical discharge. Housing made of weather-resistant aluminium AlMg3, with 40mm mineral wool insulation. The air outlet is protected by a protection grille against intrusion, birds, dirt 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. Swing-out fan unit

for cleaning and maintenance purposes. Suited for use according to VDI 2052. The incorporated grease pan and drain avoid roof soiling and ensure a controlled drainage of fat impregnated impurities.

The efficiency-optimized radial impeller with backward curved blades is fitted on the shaft of an IEC three phase motor with a special shaft seal that prevents the ingress of oil and water. The impeller is provided with a Taperlock clamping bush which ensures improved balancing quality and higher operational stability. The impeller is balanced together with the motor according to the quality class G 6.3 of DIN / ISO 1940, on 2 planes. Speed control possible only via frequency converter. The drive motor is placed outside of the airstream. For maintenance-free use, there are ball bearings with lifetime lubrication, sealed on both sides. The motor thermal protection must be installed on site (monitoring of the thermal motor current via a FU or motor protection switch). The electrical connection is to be done via the integrated isolator switch.

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): 41,7 % Efficiency total max. (ηt): 42,8 %

Rated voltage (U): 400, 3~ V Rated frequency (f): 50 Hz Rated power consumption (P N): 425 W Current consumption max. (I max.): 1,1 A

Rated speed (n): 2885 min-1

Protection class motor: IP 55

Protection class terminal box: IP - Ambient temperature max. (t A): 50 °C Medium temperature max. (tM): 200 °C

Inlet sound power level (L WA5): 80 dB(A) Outlet sound power level (LWA6): 78 dB(A)

Dimensions housing (L x W x H): 576x576x484 mm

Weight: 36,8 kg

Wiring diagram: 143654

Manufacturer:

ruck Ventilatoren GmbH Max-Planck-Str. 5

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| 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°) |
| DAS 180 F4 | 145422 | Roof - Inlet spigot size 180 |
| DAF 150 | 110735 | Roof - Inlet flange size 150 |
| DAF 160 | 137396 | Roof - Inlet flange size 160 |
| DAF 180 | 110744 | Roof - Inlet flange size 180 |
| FU 075 15 | 141848 | Frequency controller, output voltage 0-230V, 3~, 750W, IP66 |
| FU 075 27 | 141870 | Frequency controller, output voltage 0-400V, 3~, 750W, IP66 |
| 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 |