Description:

Centrifugal roof fan with backward curved impeller and horizontal discharge. Housing made of weather-resistant aluminum AlMg3 with very low construction height and swing-out fan unit. 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 efficiency-optimized plastic impeller with backward curved blades is fitted on the external rotor of a voltage

controllable motor. The impeller is balanced together with the motor according to the quality class G 6.3 of DIN / ISO 1940, on 2 planes. The drive motor is equipped, for maintenance-free use, with ball bearings with lifetime lubrication, sealed on both sides. The motor protection is provided by a thermal contact integrated into the winding, wired internally in series. The electrical connection is to be done via the cable lead out through the housing base plate. The lockable device switch is integrated into the housing and therefore 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): 28,0 % Efficiency total max. (ηt): 28,1 %

Rated voltage (U): 230, 1~ V Rated frequency (f): 50 Hz Rated power consumption (P N): 50 W Current consumption max. (I max.): 0,3 A Rated speed (n): 2400 min-1

Protection class motor: IP 33

Protection class terminal box: IP 44

Ambient temperature max. (t A): 70 °C Medium temperature max. (tM): 70 °C

Inlet sound power level (L WA5): 63 dB(A) Outlet sound power level (LWA6): 66 dB(A)

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

Weight: 4,8 kg

Wiring diagram: 124454

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 |
| TEE 015 | 115893 | 5-step transformer box without connection for motor protection, IP54 |
| TES 0145 | 111858 | 7-step transformer without motor protection, for switch cabinet, IP20 |