Type: EL 450 EC 10

Item number: 139776

Description:

Variable mounting position, horizontal and vertical installation possible. Direct in-line installation in the tube network. Integrated mounting bracket for easy mounting. Housing made out of aluminum Almg3. ETALINE sets the standard for high efficiency in the entire performance range. Due to the high efficiency achieved through the aerodynamics of the fan, together with the integrated engine, the entire range could be kept compact and weight-optimized.

Diagonal fan with three-dimensionally shaped impeller blades and a three-dimensionally shaped diffuser down-stream. This results in the highest possible aerodynamic efficiency. The impeller is balanced in two planes according to G6.3 DIN ISO 1970. The motor is protected in the hub area and exerts no disturbing influence on the aerodynamics. The motor protection is provided by integrated thermal monitoring of the motor electronic. The high efficiency of the ETALINE fan is based on its aerodynamic quality. Due to the axial flow, this series significantly minimizes the installation losses, in comparison with centrifugal fans. With integrated efficiency optimized electronically commutated permanent magnet motors (EC motors). The advantage of EC motors comes out especially in partial load operation.

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): 65,5 % Efficiency total max. (ηt): 70,0 %

Rated voltage (U): 400, 3~ V Rated frequency (f): 50 Hz Rated power consumption (P N): 2187 W Current consumption max. (I max.): 3,4 A Rated speed (n): 2640 min-1

Protection class motor: IP 54

Ambient temperature max. (t A): 50 °C Medium temperature max. (tM): 55 °C

Casing sound power level (L WA2): 81 dB(A) Inlet sound power level (L WA5): 89 dB(A) Outlet sound power level (LWA6): 94 dB(A)

|  |  |  |
| --- | --- | --- |
| Dimensions (L x H): | 467x467 mm | (incl. mounting bracket) |
| Connection diameter: | Ø453 mm |  |

Weight: 20,6 kg

Wiring diagram: 139837

Manufacturer:

ruck Ventilatoren GmbH Max-Planck-Str. 5

97944 Boxberg

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

Type: EL 450 EC 10

Item number: 139776

|  |  |  |
| --- | --- | --- |
| Available accessories:  VM 450 | 119495 | Fast clamps, 1 set = 2 pcs., size 450 |
| SG 450 01 | 134285 | Protection grille size 450 |
| SG 450 02 | 119411 | Inlet protection grille for Etaline size 450 |
| SDS 450 | 124179 | Silencer rigid, 1m, sound insulation 50mm, size 450 |
| 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 |
| CLIMASET | 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) | |
| SEN AIR | 148641 | Airflow and temperature transducer | |
| OJ RM 02 | 141890 | Extension board relay module for EC controller | |