

MUB 062 560D4-A2 IE2

Item no. 33543

Version: 4-pol; 50 Hz; 90° airflow

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Description

- High efficient motor IE2
- Speed-controllable via frequency converter
- Integral cold conductor (PTC)
- Low sound level
- Flexible airflow direction due to removable panels
- Installation in any mounting position
- Easy to maintain and reliable



The MUB fans

size 560D4-A2 are equipped with high efficient IE2 motors. The MUB fans have an impeller with backward curved blades, manufactured from aluminum. Speed control is only possible by using a frequency converter. Motor protection is done by cold conductors (PTC), which have to be connected to an external motor protection device. The casing consists of an aluminum frame with fiberglass reinforced plastic corners of PA6; highly shock-resistant. The double skin panels are manufactured from galvanized steel with 20 mm mineral wool insulation. To avoid condensation the profile is provided with a separate chamber to fix screws. The Multibox fans are delivered for straight through airflow but can easily be rebuilt due to removable panels. This allows flexible ventilation solutions. The MUB can also be used as extract- or supply air unit in air handling units. Installation in any mounting position is possible.

MUB with additional modules (filters, heaters etc.) are available as air handling units "K025, K042 or K062" on request!

Please note: Speed control by voltage, i.e. voltage transformers, is not possible!

In accordance with Commission Regulation (EC) no 640/2009 of the European Parliament - eco-design requirements for electric motors - the new international efficiency classes are binding as of 16 June 2011. These guidelines defined by CEMEP and EPACT are regarded as international standard for energy-saving high-efficiency motors for frequencies of 50 or 60 Hz and make the use of IE2 motors mandatory.

With this new and more efficient technology we offer our customers many advantages such as environmentally friendly operation, reduced energy consumption and hence lower emissions. IE2 motors have a higher efficiency even in part load operation and allow optimum adjustment to the operating point. In addition, the IE2 motors generate less noise and develop less heat, which has a positive influence on the efficiency and the cooling requirement of the motor. Please note: IE2 motors cannot be speed controlled by voltage, i.e. voltage transformers.

Technical parameters

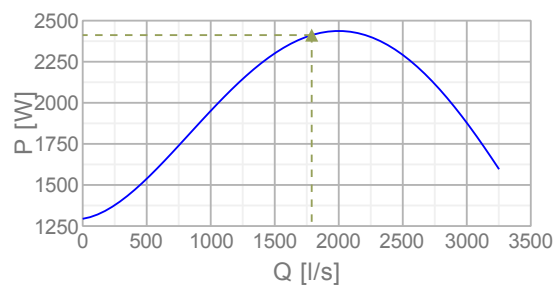
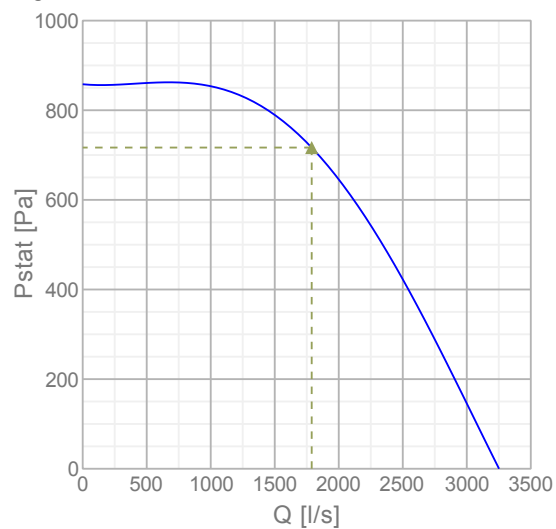
Default group		
Voltage	400	V
Motor circuit connection	Y	
Frequency	50	Hz
Phase	3	~
Input power (P1)	2437	W
Current	4.64	A
Starting current	32.4	A
Max. airflow	3252	l/s
Fan impeller speed	1420	r.p.m.
Max. temperature of transported air	40	°C
Sound pressure level at 3 m (20m² Sabin)	56	dB
Weight	92	kg
Insulation class	F	
Enclosure class, motor	IP55	IP

ErP		
ErP ready	ErP 2016/ErP 2018	

Accessories

Performance

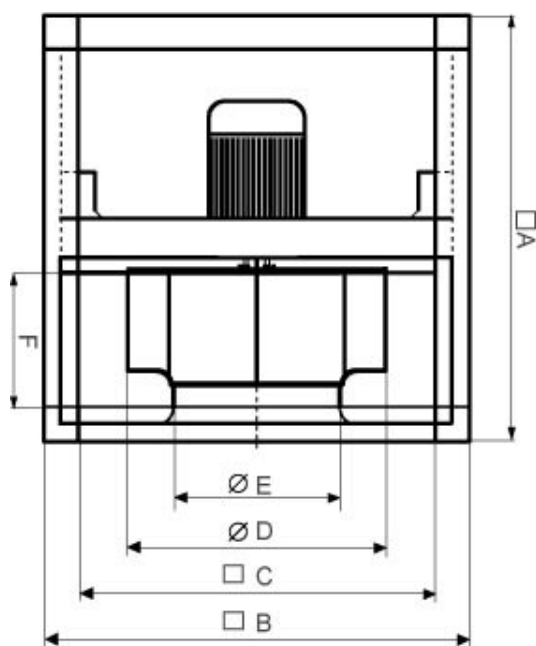
Diagrams



Max efficiency

Hydraulic data	
▲ Working air flow	1789 l/s
▲ Working static pressure	717 Pa
▲ Power	2412 W
Speed	1451 r.p.m.
Current	4.24 A
SFP	1.35 kW/(m³/s)
Voltage	400 V

Dimensions

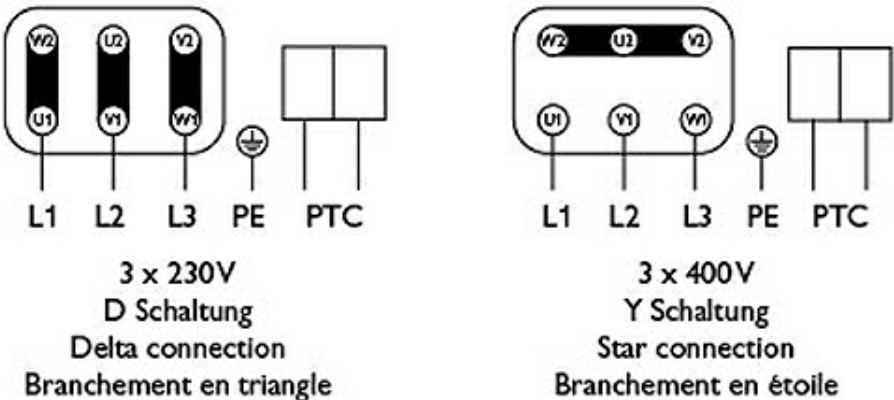


	□A	□B	□C	∅D	∅E	F
MUB042 400	670	670	590	404	253	300
MUB042 450	670	670	590	454	286	300
MUB042 500	670	670	590	504	321	300
MUB062 560	800	800	720	570	361	321
MUB062 630	800	800	720	635	407	321
MUB100 630	1000	1000	920	635	389	378

Dreiphasenmotor mit Kaltleiter

Three phase motor with cold conductor

Moteur triphasé avec résistance PTC



Drehrichtungsänderung durch Vertauschen von 2 Phasen

Changing of direction of rotation by interchanging of two phases

Changement de sens de rotation par inversion de deux phases

Typenschild beachten! See label! Voir plaque!

Documentation

- 2015-01_EC-declaration of conformity MUB_DE-EN.pdf (105,79kB)
- IMO_MUB_DE-EN-SE-DK-ES-RU_311722.pdf (5,80MB)
- Operating and maintenance instructions_2010-07.pdf.pdf (488,24kB)

Acoustics

Mid-frequency band, Hz									
560D4	Hz	Tot	63	125	250	500	1k	2k	4k 8k
LwA Inlet	dB(A)	78	65	67	71	73	72	69	64 57
LwA Outlet	dB(A)	80	67	69	73	75	74	71	66 59
LwA Surrounding	dB(A)	63	50	52	56	58	57	54	49 42

Measuring point: qv = 1,79 m3/s, Ps = 717 Pa

Specification text

Multibox duct fan for easy and direct installation in duct systems.

Casing frame construction made of aluminium hollow profiles and plastic corners for highest impact resistance. Double skin galvanised steel panels, thermally and sound insulated with a 20 mm layer of mineral wool, smooth inner sides.

Free-running, backward curved circular impeller made of aluminium.

Impeller acc. to VDI 2060, balancing quality G 6.3, dynamically balanced in two planes.

Voltage controllable external rotor motor,

Standard motor IE2 (IP55), maintenance-free, the motor is placed inside the air flow for cooling. Integral thermal contacts (PTC) with leads to a motor protection device.

Terminal box fitted on the motor.

Multifunctional use, variable outlet direction, can be modified on site.

For extract and supply air.

Installation in any mounting position.

For indoor installation.

For outdoor installation with corresponding accessories.

