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Nominal data

Type	W4D400-DP12-40				
Motor	M4D074-EI				
Phase		3~	3~	3~	3~
Nominal voltage	VAC	200	220	230	230
Connection		Δ	Δ	Δ	Δ
Frequency	Hz	50	60	50	60
Type of data definition		fa	fa	fa	fa
Valid for approval / standard		CE	CE	CE	CE
Speed	min ⁻¹	1400	1630	1430	1640
Power input	W	150	220	175	225
Current draw	A	0.72	0.78	0.92	0.80
Max. back pressure	Pa	100	125	100	125
Min. ambient temperature	°C	-40	-40	-40	-40
Max. ambient temperature	°C	65	60	65	60
Starting current	A	2.8	2.8	3.0	3.0

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	No
Specific ratio*	1.00

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

	Actual	Request 2013	Request 2015
Overall efficiency η_{es}	32.7	25.1	29.1
Efficiency grade N	43.6	36	40
Power input P_e	kW	0.19	
Air flow q_v	m ³ /h	2595	
Pressure increase p_{fs}	Pa	91	
Speed n	min ⁻¹	1415	

Data definition with optimum efficiency.
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



Technical features

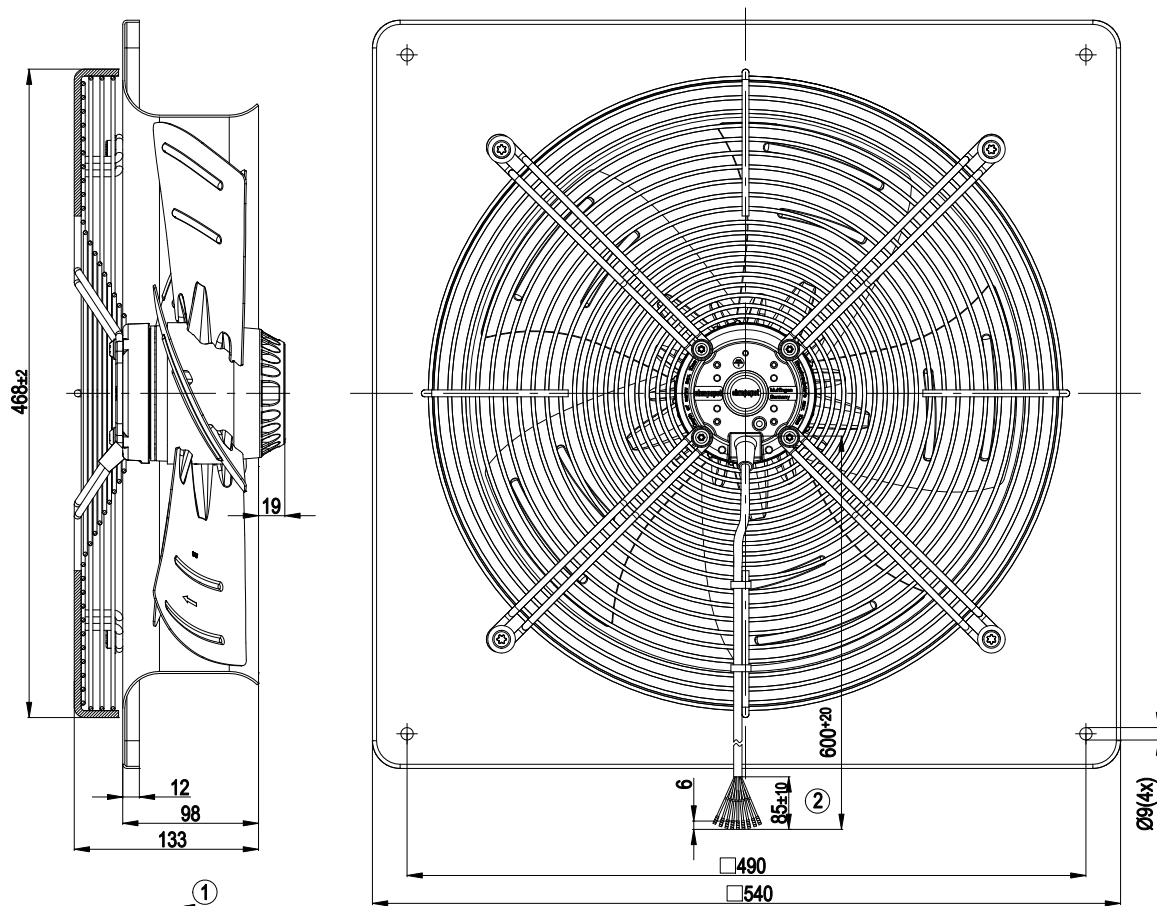
Mass	9 kg
Size	400 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Material of wall ring	Sheet steel, pre-galvanised and coated in black plastic
Material of guard grille	Steel, phosphated and coated in black plastic
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity class	F1-2
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) brought out
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	CE
Approval	UL 1004-1; CSA C22.2 Nr.100; CCC

AC axial fan

sickled blades (S series)

Wall ring with guard grille

Product drawing

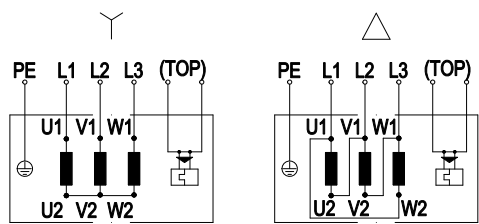


- | | |
|---|--|
| 1 | Direction of air flow "V" |
| 2 | Connection line PFA 9G 0.5mm ² , 9x brass lead tips crimped |

AC axial fan

sickled blades (S series)
Wall ring with guard grille

Connection screen

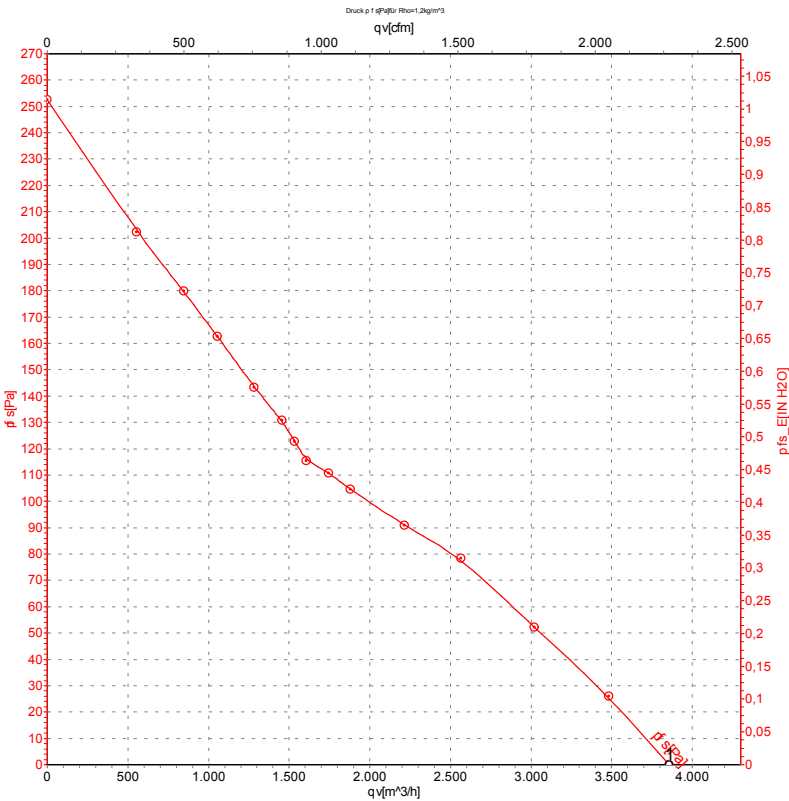


Y	Star connection	Δ	Delta connection	L1	= U1 = black
U2	green	L2	= V1 = blue	V2	white
L3	= W1 = brown	W2	yellow	TOP	2 x grey
PE	green/yellow				



AC axial fan
sickled blades (S series)
Wall ring with guard grille

Charts: Air flow 50 Hz Δ



Measurement: LU-50712

Air performance measured as per ISO 5801
Installation category A. For detailed
information on the measuring set-up, please
contact ebm-papst. Suction-side noise
levels: L_{wA} measured as per ISO 13347 /
L_{pA} measured with 1m distance to fan axis.
The values given are valid under the
measuring conditions mentioned above and
may vary according to the actual installation
situation. With any deviation from the
standard set-up, the specific values have to
be checked and reviewed with the unit
installed.

Measured values

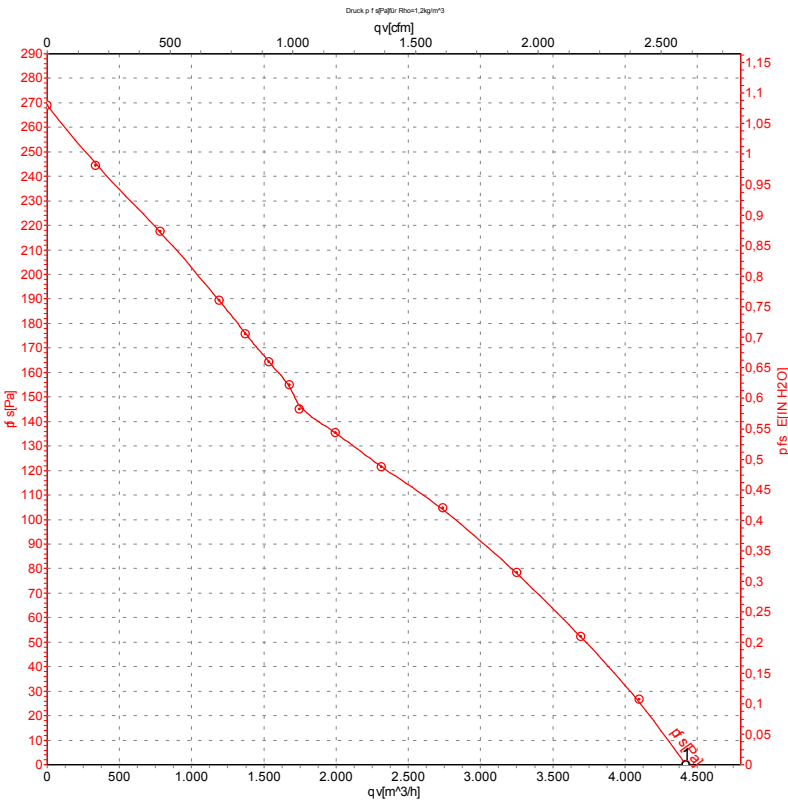
	Conn.	U	f	n	P _e	I	qv
		V	Hz	min ⁻¹	W	A	m³/h
1	Δ	230	50	1430	175	0.92	3855

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow



AC axial fan
sickled blades (S series)
Wall ring with guard grille

Charts: Air flow 60 Hz Δ



Measurement: LU-50713

Air performance measured as per ISO 5801
Installation category A. For detailed
information on the measuring set-up, please
contact ebm-papst. Suction-side noise
levels: L_{wA} measured as per ISO 13347 /
L_{pA} measured with 1m distance to fan axis.
The values given are valid under the
measuring conditions mentioned above and
may vary according to the actual installation
situation. With any deviation from the
standard set-up, the specific values have to
be checked and reviewed with the unit
installed.

Measured values

	Conn.	U	f	n	P _e	I	qv
		V	Hz	min ⁻¹	W	A	m ³ /h
1	Δ	230	60	1640	225	0.80	4420

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow

