

AC axial fan

sickled blades (S series)
with short round nozzle

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Nominal data

Type	S4D400-AP12-38				
Motor	M4D074-EI				
Phase		3~	3~	3~	3~
Nominal voltage	VAC	230	230	400	400
Connection		Δ	Δ	Y	Y
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	1450	1690	1450	1690
Power input	W	135	185	135	185
Current draw	A	0.76	0.68	0.44	0.39
Max. back pressure	Pa	150	120	150	120
Max. ambient temperature	°C	60	60	60	60

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations



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Technical features

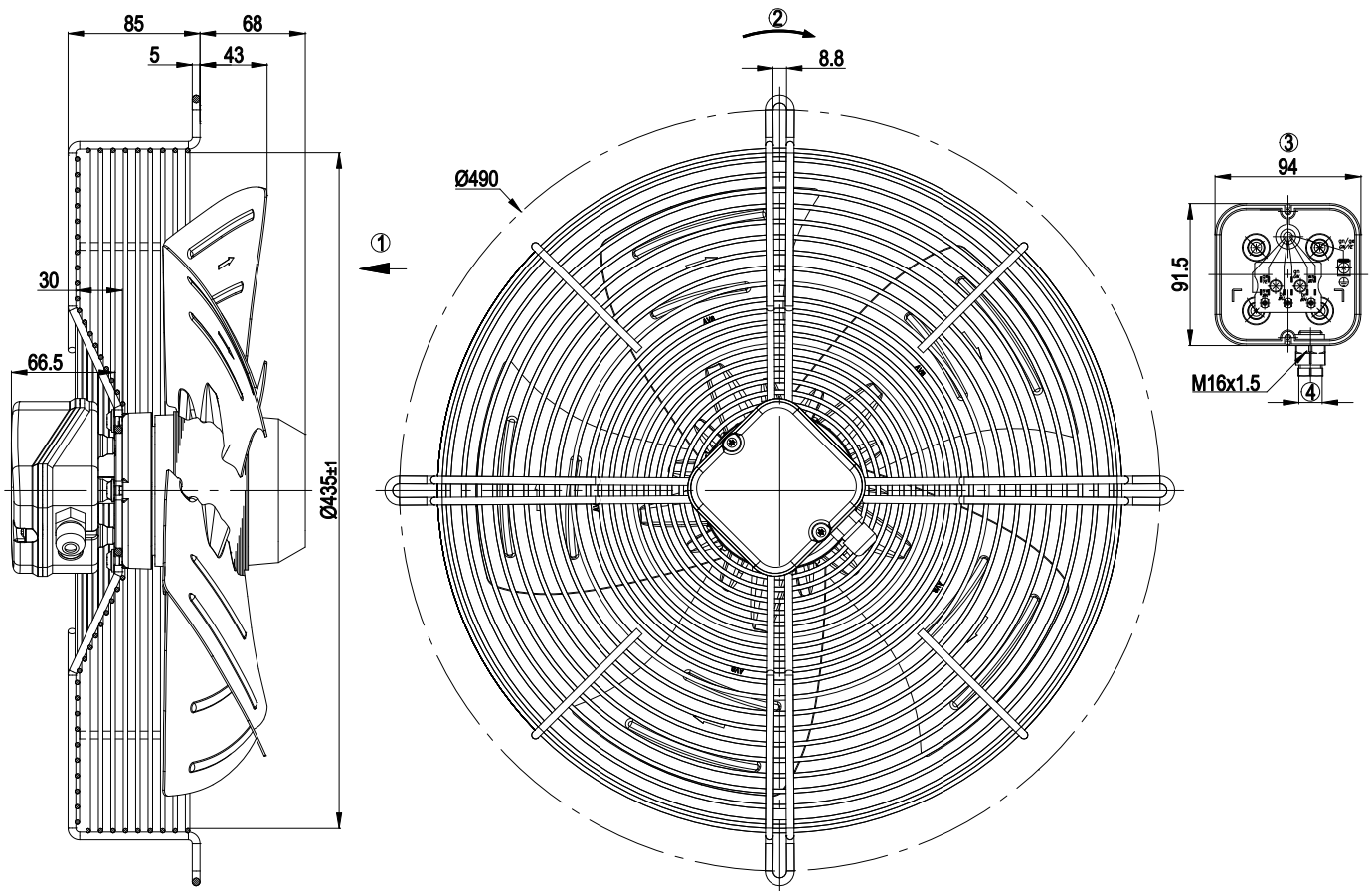
Size	400 mm
Surface of rotor	Coated in black
Material of terminal box	ABS plastic, black
Material of blades	Sheet steel, coated in black
Material of guard grille	Steel, phosphated and coated in black plastic
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44
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
Leakage current	< 0.75 mA
Electrical leads	Via terminal box
Cable exit	Variable
Protection class	I
Product conforming to standard	EN 60335-1



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Product drawing

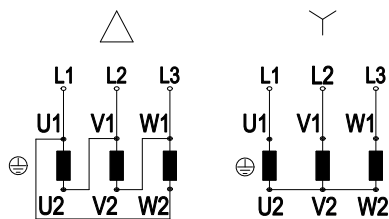


1	Direction of air flow "V"
2	Direction of rotation counter- clockwise, seen on rotor
3	Shown without terminal box cover
4	Cable diameter: max. 7.5 mm

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Connection screen



Note: Direction of rotation changes when two phases are reversed

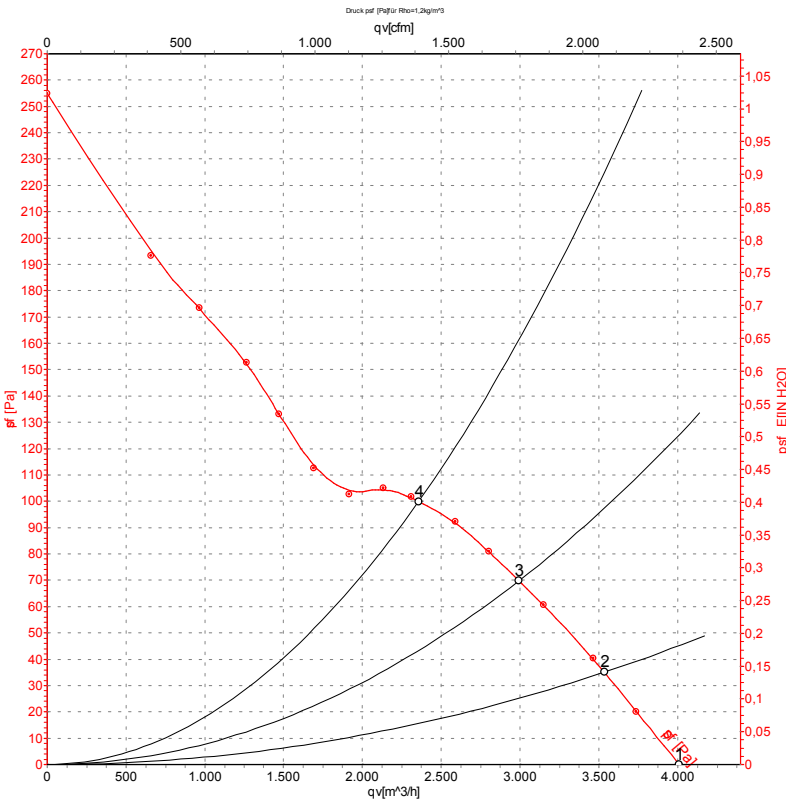
Δ	Delta connection	Y	Star connection	L1	black
L2	blue	L3	brown	U1	black
V1	blue	W1	brown	U2	green
V2	white	W2	yellow		



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Charts: Air flow 50 Hz



Measurement: LU-27622

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

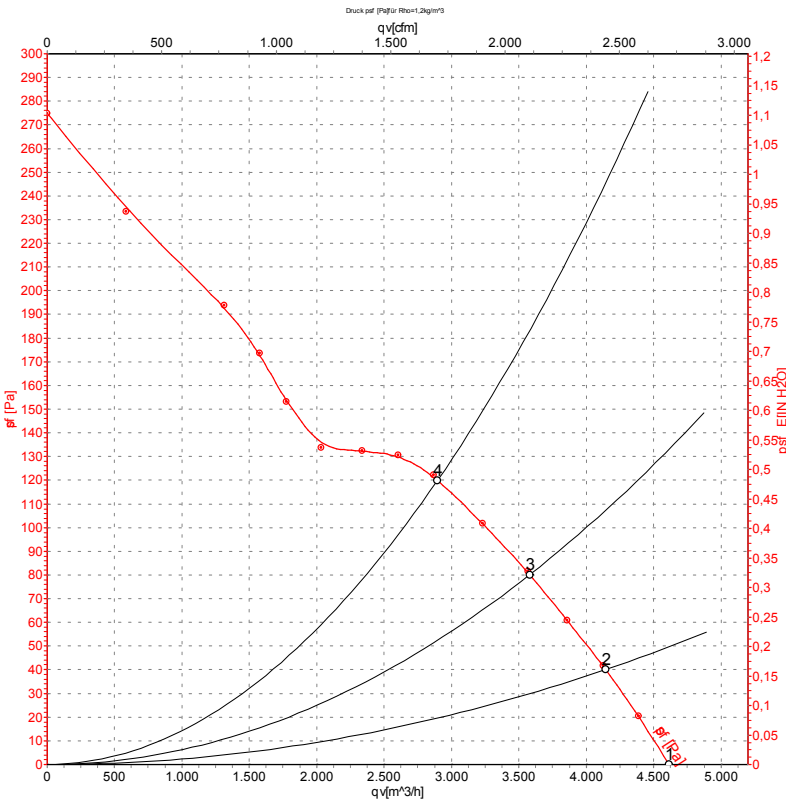
	Conn.	U	f	n	P _e	I	qV	P _{sf}
		V	Hz	min ⁻¹	W	A	m³/h	Pa
1	Y	400	50	1450	135	0.44	4000	0
2	Y	400	50	1435	161	0.47	3535	35
3	Y	400	50	1420	182	0.49	2995	70
4	Y	400	50	1410	203	0.50	2355	100



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Charts: Air flow 60 Hz



Measurement: LU-27623

Air performance measured as per ISO 5801
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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	P _{sf}
		V	Hz	min ⁻¹	W	A	m³/h	Pa
1	Y	400	60	1690	185	0.39	4615	0
2	Y	400	60	1660	223	0.45	4145	40
3	Y	400	60	1635	256	0.49	3580	80
4	Y	400	60	1605	290	0.54	2895	120

