

ВЕНТИЛЯТОРЫ.RU
МАГАЗИН ПРОМЫШЛЕННЫХ ВЕНТИЛЯТОРОВ

sickle-shaped blades (S series)

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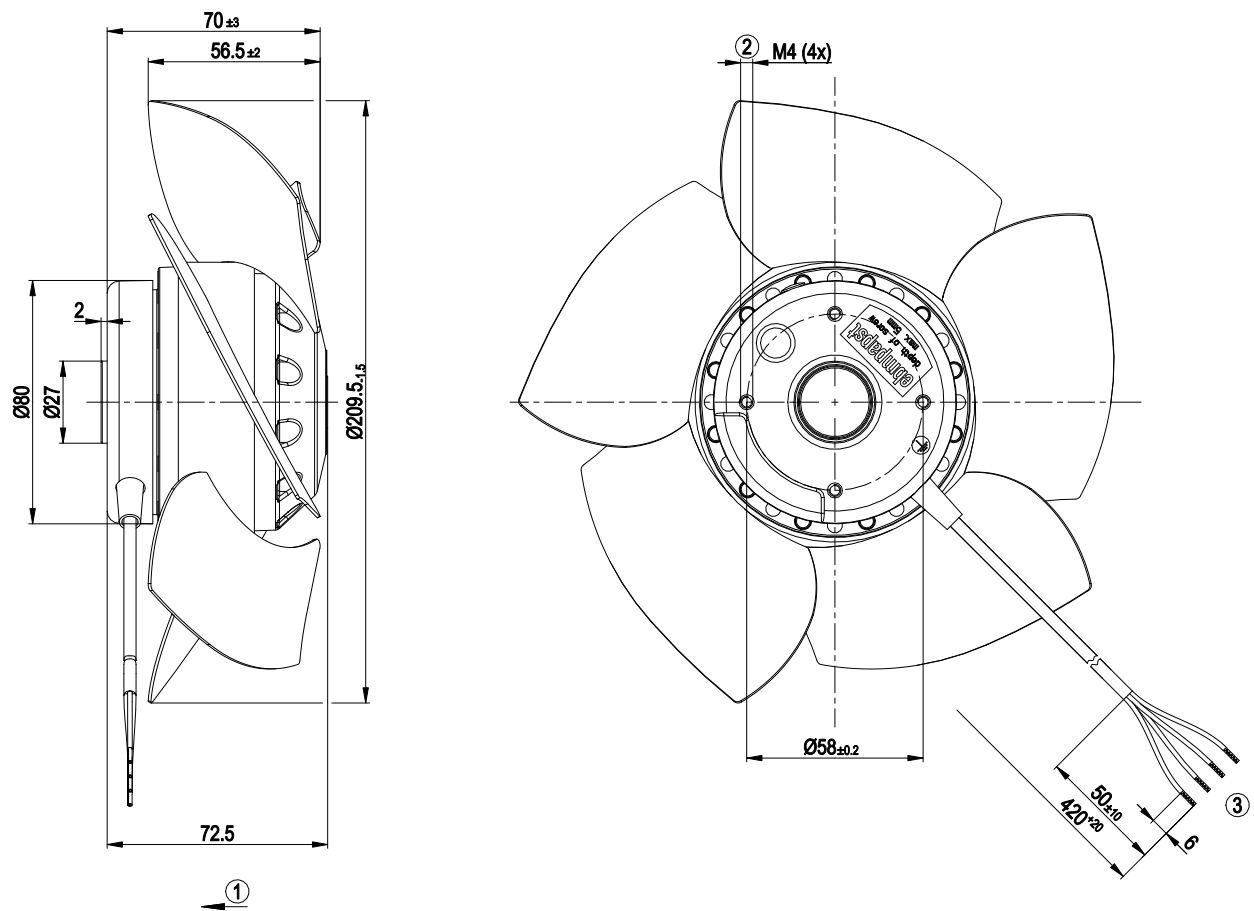
Type	A2D210-AB10-05
Motor	M2D068-CC

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

Technical description

Weight	1.6 kg
Fan size	210 mm
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F2-2
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
With cable	Lateral
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	CCC; UL 1004-1; CSA C22.2 No. 100

Product drawing

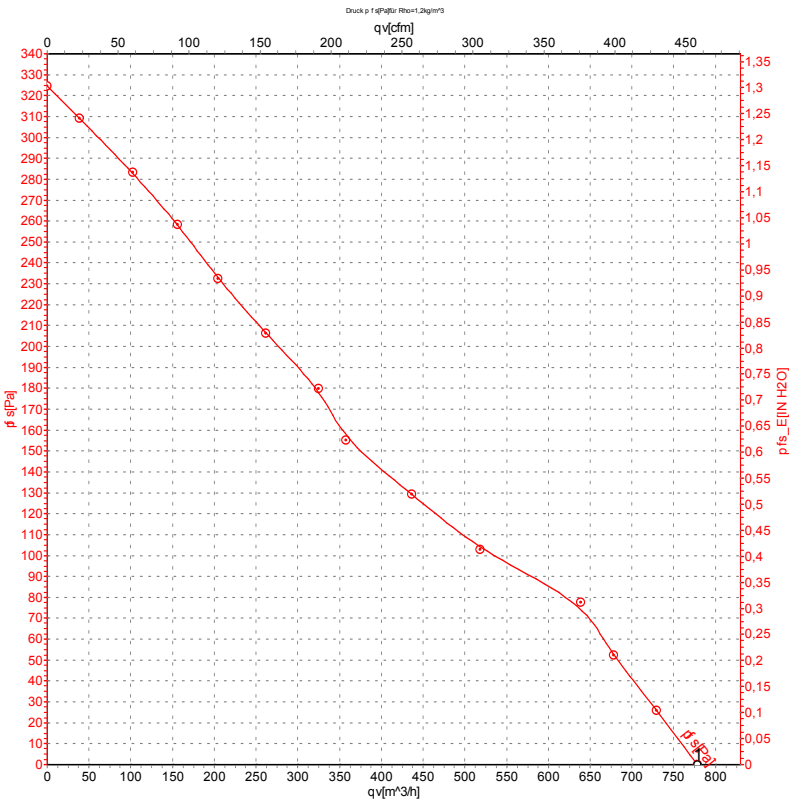


- | | |
|---|--|
| 1 | Direction of air flow "V" |
| 2 | Max. clearance for screw 5 mm |
| 3 | Cable PFA AWG20 (green/yellow AWG18), 4x crimped splices |
| | Accessory parts, included separately: |
| | Grommet |
| | 4x M4x8 cheese-head screws, tightening torque 2.2 $\pm$ 0.2 Nm |

Figure 1 consists of two schematic diagrams of a three-phase four-wire system. Diagram (a) shows a standard configuration with a PE (Protective Earth) line and three phase lines (L1, L2, L3). The loads are connected in a star configuration with neutral. The top row of loads is V1, U1, W1 and the bottom row is V2, U2, W2. Diagram (b) shows a similar configuration but with a different load arrangement. The top row of loads is U1, V1, W1 and the bottom row is U2, V2, W2. Both diagrams include a star symbol at the top, indicating a three-phase system.

	Three-phase motor
Y	Star connection
1	Counterclockwise operation
L1	= V1 = blue
L2	= U1 = black
L3	= W1 = brown
2	Clockwise operation
L1	= U1 = black
L2	= V1 = blue
L3	= W1 = brown
PE	green/yellow

Curves: Air performance 50 Hz



Measurement: LU-43914-1

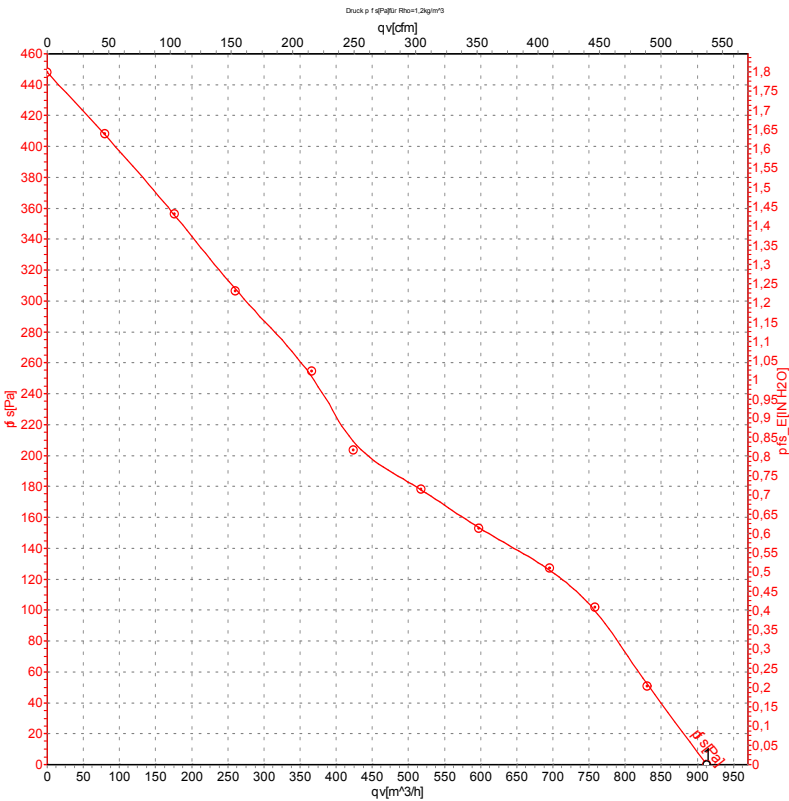
Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P _e	I	q _v	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	CFM	inH ₂ O
1	400	50	2750	89	0.26	780	460	0.00

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow

Curves: Air performance 60 Hz



Measurement: LU-42528-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P _e	I	q _v	q _v	P _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	CFM	inH ₂ O
1	480	60	3250	130	0.27	915	535	0.00

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow