A4E350-AN14-35

AC axial fan

sickle-shaped blades (S series), single-intake

A4E350-AN14-35 ebmpapst Datasheet
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Nominal data

Type	**A4E350-AN14-35**
Motor	**M4E074-DF**

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	50
Method of obtaining data		ml	ml
Valid for approval/standard		CE	CE
Speed (rpm)	min^{-1}	1350	1050
Power consumption	W	150	140
Current draw	A	0.66	0.62
Capacitor	µF	5	5
Capacitor voltage	VDB	400	400
Capacitor standard		S2 (CE)	S2 (CE)
Max. back pressure	Pa	55	34
Max. back pressure	inH2O	0.22	0.14
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	35	35
Starting current	A	1.23	0.75

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

Data according to ErP Directive

		Actual	Req. 2015
01 Overall efficiency η_{es}	%	28.56	28.5
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		40.1	40
05 Variable speed drive		No	

09 Power consumption P_e	kW	0.15
09 Air flow q_v	m^3/h	2100
09 Pressure increase p_{fs}	Pa	73
10 Speed (rpm) n	min^{-1}	1335
11 Specific ratio*		1.00

Data obtained at optimum efficiency level.
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

* Specific ratio = 1 + p_{fs} / 100 000 Pa

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Technical description

Weight	3.5 kg
Fan size	350 mm
Rotor surface	Painted black
Blade material	PP plastic
Number of blades	5
Airflow direction	"A"
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5. The degree of protection is only assured when the intended cable guard and terminal box are installed.
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F2-2
Max. permitted ambient temp. for motor (transport/storage)	+ 70 °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 with low-temperature lubricant
Speed levels	2
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical hookup	Prepared for terminal box installation
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	S2
Conformity with standards	EN 60335-1; CE

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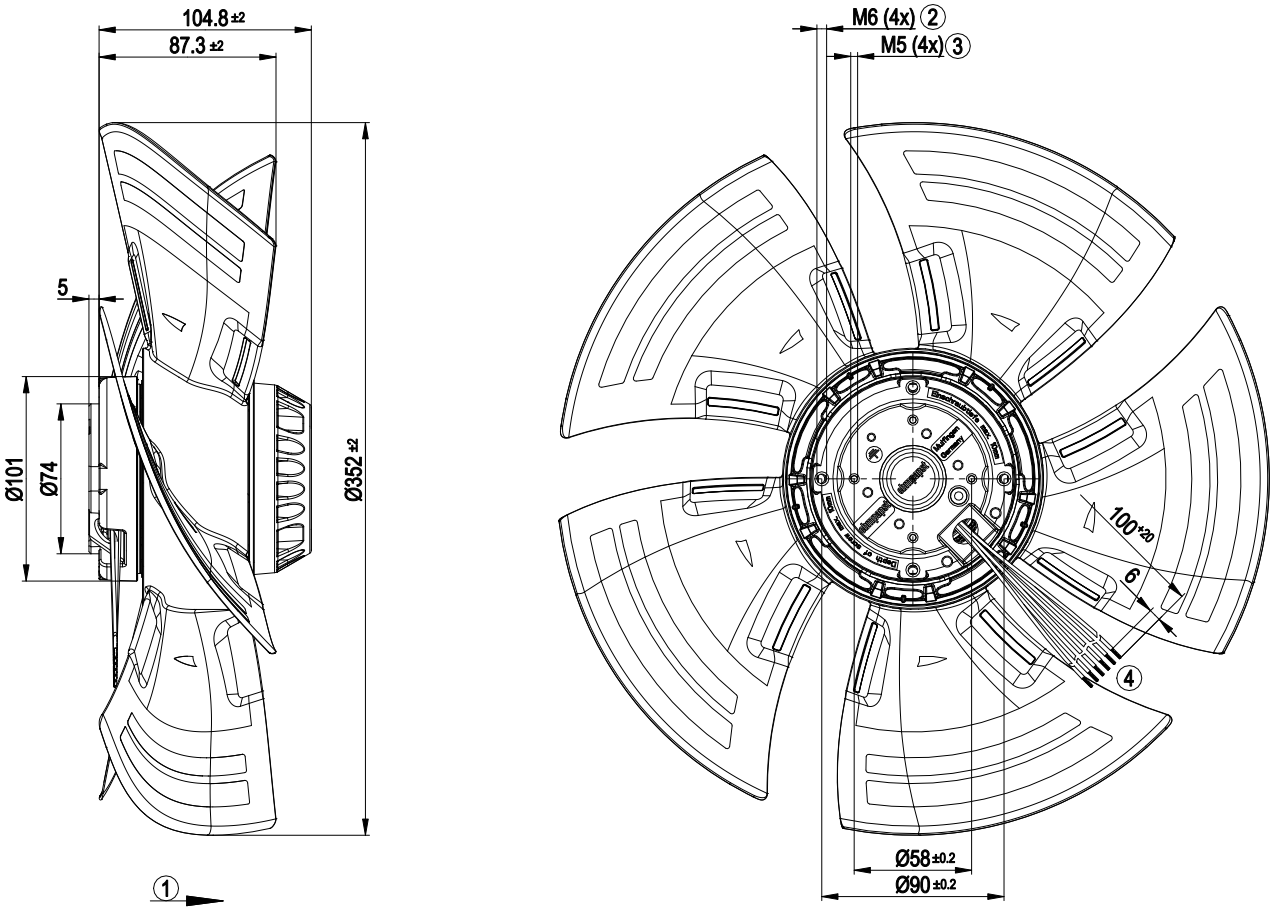
Product drawing



1	Direction of air flow "A"
2	Max. clearance for screw 10 mm
3	Max. clearance for screw 8 mm
4	Cable ETFE AWG20, 6x crimped splices

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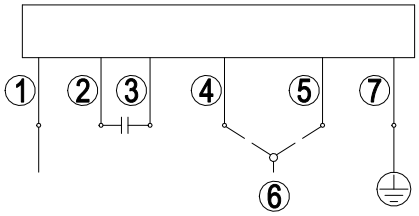
Connection diagram



Note: High speed (step II); low speed (step I)

1	blue (N)	2	brown (capacitor)	3	yellow (capacitor)
4	Step I white	5	Step II black	6	L1
7	green/yellow (PE)				

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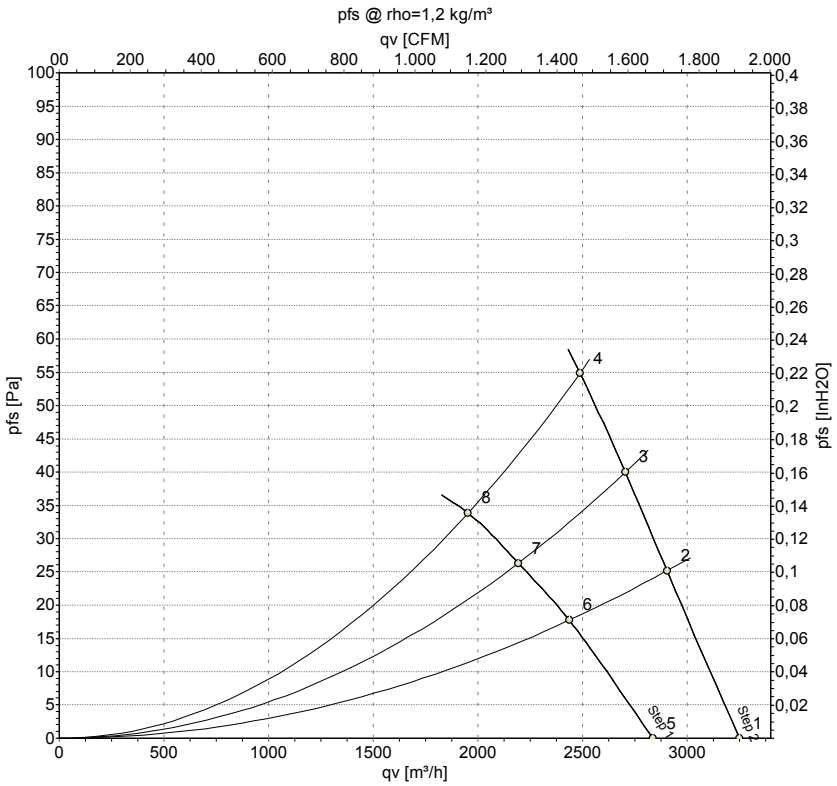
Curves: Air performance 50 Hz



Measurement: LU-139383-1
Measurement: LU-139957-1

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

	Stage	U	f	n	P_e	I	q_V	p_{fs}	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	2	230	50	1390	134	0.59	3250	0	1915	0.00
2	2	230	50	1370	142	0.62	2905	25	1710	0.10
3	2	230	50	1360	146	0.64	2705	40	1590	0.16
4	2	230	50	1350	150	0.66	2490	55	1465	0.22
5	1	230	50	1220	121	0.54	2835	0	1670	0.00
6	1	230	50	1150	131	0.58	2435	18	1435	0.07
7	1	230	50	1105	136	0.60	2195	26	1290	0.10
8	1	230	50	1050	140	0.62	1955	34	1150	0.14

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase