A4E350-AN20-26

AC axial fan - HyBlade®

sickled blades (S series)

A4E350-AN20-26 ebmpapst Datasheet
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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**A4E350-AN20-26**	
Motor	**M4E074-DF**	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		ml
Valid for approval / standard		CE
Speed	min^{-1}	1330
Power input	W	160
Current draw	A	0.70
Motor capacitor	µF	5
Capacitor voltage	VDB	400
Capacitor standard		P2 (CE)
Max. back pressure	Pa	75
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50
Starting current	A	1.17

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 Pa

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}		28.5	24.5	28.5
Efficiency grade N		40	36	40
Power input P_e	kW	0.15		
Air flow q_v	m^3/h	2105		
Pressure increase p_{fs}	Pa	74		
Speed n	min^{-1}	1335		

Data established at point of optimum efficiency

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Technical features

Mass	3.2 kg
Size	350 mm
Surface of rotor	Coated in black
Material of blades	PP plastic
Number of blades	5
Direction of air flow	"A"
Direction of rotation	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
Speed steps	3
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	EN 60335-1; CE

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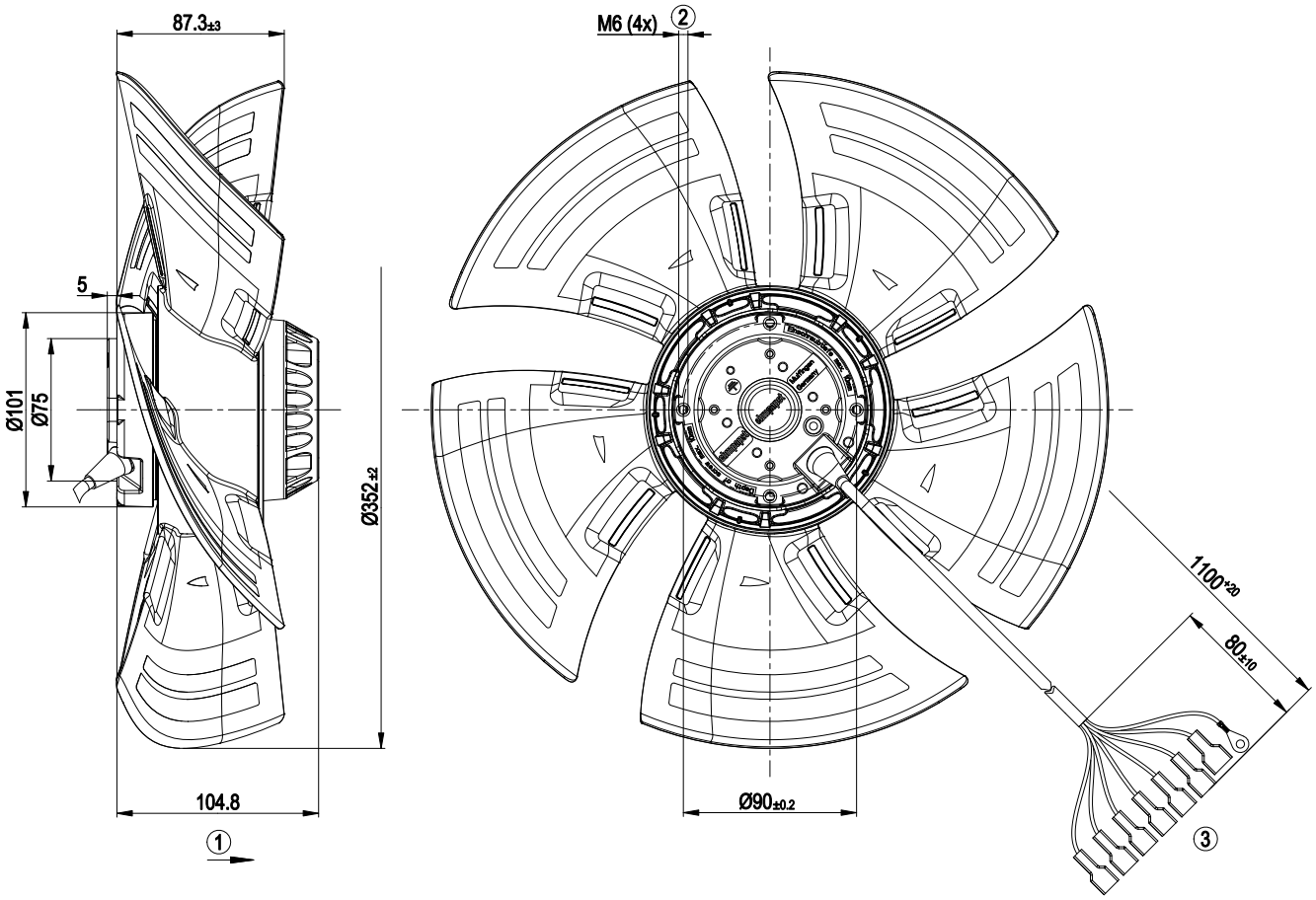
Product drawing



1	Direction of air flow "A"
2	Depth of screw max. 10 mm
3	Connection line PFA 8G AWG20, 6x receptacle for tabs 6.3x0.8 with insulating grommet, 1x flat plug 6.3x0.8 with insulating grommet and 1x contact stud 4.3, crimped.

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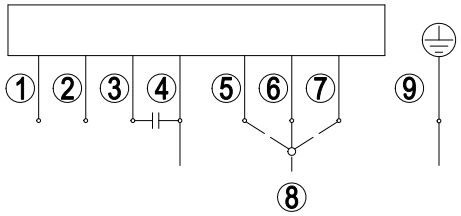
Connection screen



Note: Fast speed (step III); slow speed (step I)

1	= TOP = yellow
2	= TOP = yellow
3	red
4	N = blue
5	Step I black 1 / white
6	Step II black 2 / grey
7	Step III black 3 / grey
8	L1
9	= PE = green / yellow

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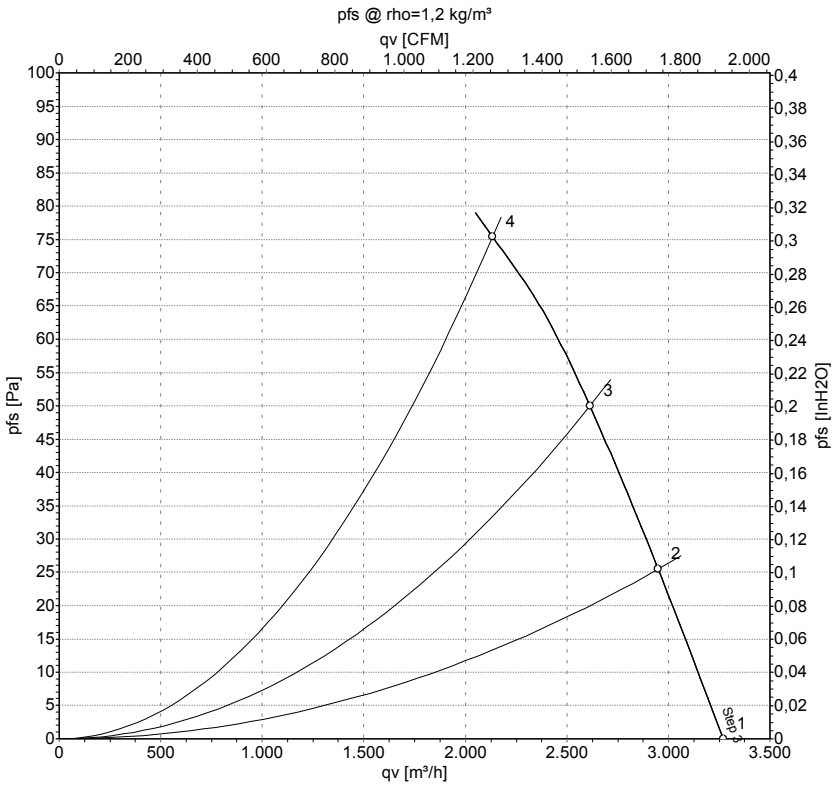
Charts: Air flow 50 Hz



Measurement: LU-143540

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: LwA measured as per ISO 13347 / LpA 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

	Stage	U	f	n	P_e	I	qv	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa
1	3	230	50	1385	136	0.60	3270	0
2	3	230	50	1370	143	0.63	2950	25
3	3	230	50	1355	150	0.66	2615	50
4	3	230	50	1330	160	0.70	2135	75

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase