A4E350-AA10-32

AC axial fan

straight blades (A series), single-intake

A4E350-AA10-32 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Limited partnership · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	**A4E350-AA10-32**
Motor	**M4E068-EC**

Phase		1~
Nominal voltage	VAC	240
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50
Method of obtaining data		fa
Valid for approval/standard		CE
Speed (rpm)	min^{-1}	1400
Power consumption	W	130
Current draw	A	0.55
Capacitor	µF	4
Capacitor voltage	VDB	400
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	45

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

Data according to Commission Regulation (EU) 327/2011

		Actual	Req. 2015
01 Overall efficiency η_{es}	%	28.6	28.6
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		40	40
05 Variable speed drive		No	

09 Power consumption P_e	kW	0.16
09 Air flow q_v	m^3/h	2025
09 Pressure increase p_{fs}	Pa	80
10 Speed (rpm) n	min^{-1}	1340
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

LU-31085

AC axial fan

straight blades (A series), single-intake

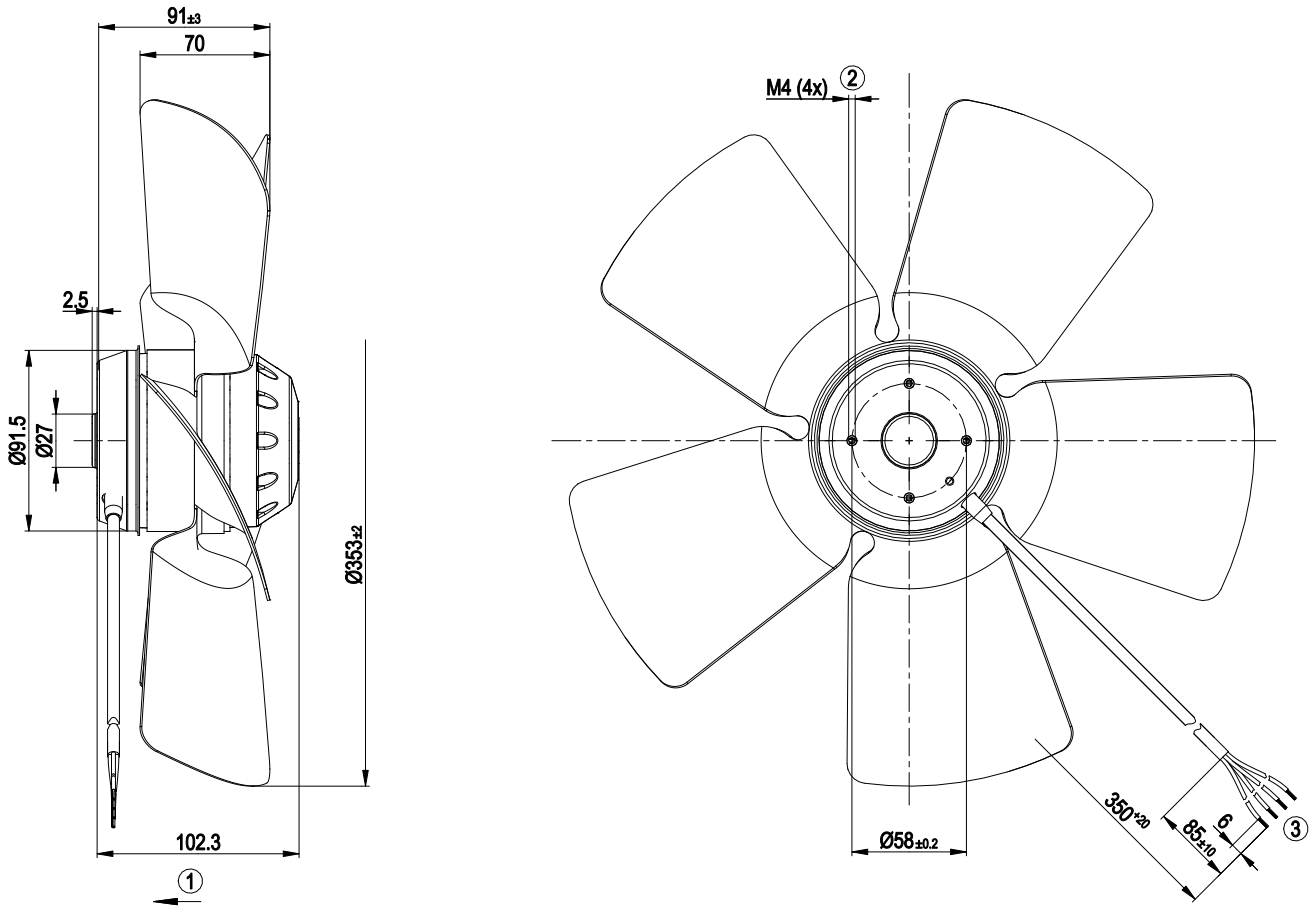
Technical description

Weight	3.1 kg
Fan size	350 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	"B"
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
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Lateral
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	S0
Conformity with standards	EN 60335-1; CE

AC axial fan

straight blades (A series), single-intake

Product drawing

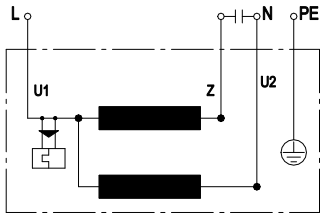


1	Direction of air flow "V"
2	Max. clearance for screw 5 mm
3	Cable silicone 4G 0.5 mm², 4x crimped splices
	Cheese-head screws included separately, tightening torque 2.2 ± 0.2 Nm
	Accessory part: capacitor, nut and toothed lock washer included separately

AC axial fan

straight blades (A series), single-intake

Connection diagram

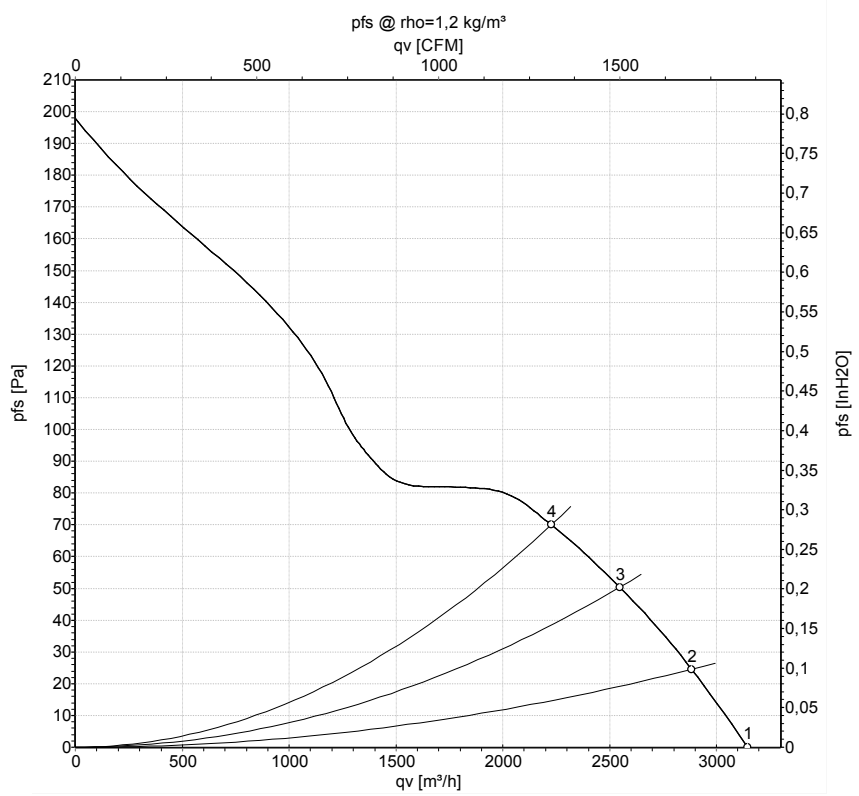


U1	blue	Z	brown	U2	black
PE	green/yellow				

AC axial fan

straight blades (A series), single-intake

Curves: Air performance 50 Hz



Measurement: LU-31085-1

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	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	240	50	1400	130	0.55	3145	0	1850	0.00
2	240	50	1380	139	0.59	2885	25	1695	0.10
3	240	50	1365	149	0.63	2545	50	1500	0.20
4	240	50	1345	156	0.66	2230	70	1310	0.28

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