

A2D160-AA22-05

# AC axial fan

straight blades (A series)



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## Nominal data

Type	A2D160-AA22-05		
Motor	M2D068-BC		
Phase		3~	3~
Nominal voltage	VAC	400	480
Connection		Y	Y
Frequency	Hz	50	60
Type of data definition		cs	cs
Valid for approval / standard		CE	CE
Speed	min <sup>-1</sup>	2800	3350
Power input	W	40	52
Current draw	A	0.19	0.18
Min. ambient temperature	°C	-25	-25

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit  
Subject to alterations



# AC axial fan

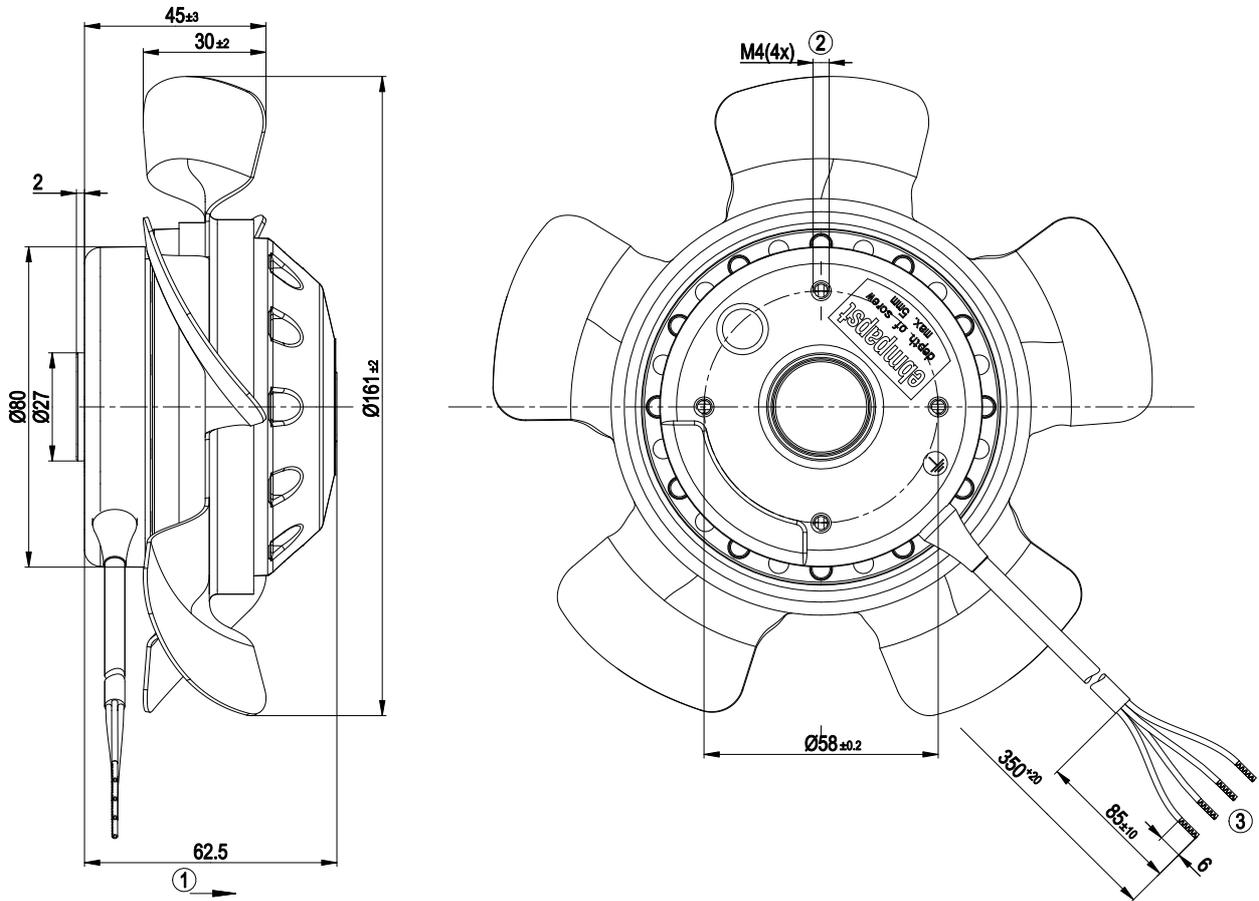
straight blades (A series)

## Technical features

<b>Mass</b>	1.2 kg
<b>Size</b>	160 mm
<b>Surface of rotor</b>	Coated in black
<b>Material of blades</b>	Sheet steel, galvanised
<b>Number of blades</b>	5
<b>Direction of air flow</b>	"A"
<b>Direction of rotation</b>	Clockwise, seen on rotor
<b>Type of protection</b>	IP 44; Depending on installation and position as per EN 60034-5
<b>Insulation class</b>	"F"
<b>Humidity class</b>	F2-2
<b>Max. permissible ambient motor temp. (transp./ storage)</b>	+ 80 °C
<b>Min. permissible ambient motor temp. (transp./storage)</b>	- 40 °C
<b>Mounting position</b>	Shaft horizontal or rotor on bottom; rotor on top on request
<b>Condensate discharge holes</b>	Rotor-side
<b>Operation mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)</b>	< 0.75 mA
<b>Cable exit</b>	Lateral
<b>Protection class</b>	I (if protective earth is connected by customer)
<b>Product conforming to standard</b>	EN 60335-1; CE
<b>Approval</b>	UL 1004-1; CSA C22.2 Nr.100

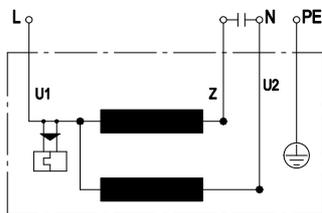


## Product drawing



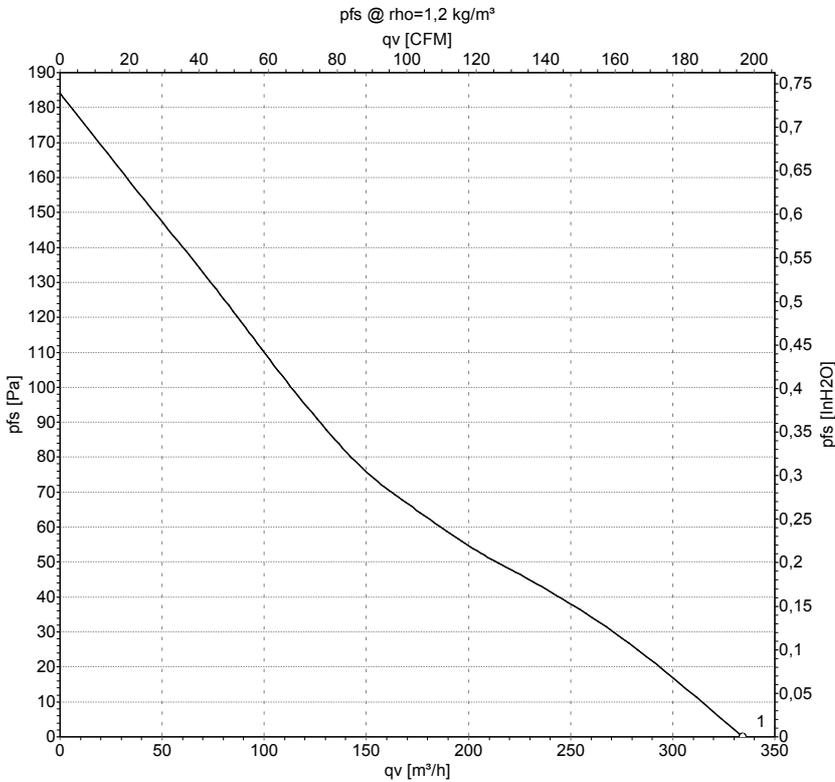
1	Direction of air flow "A"
2	Depth of screw max. 5 mm
3	Connection line PFA 4G AWG20, 4x brass lead tips crimped

## Connection screen



U1	blue	Z	brwn	U2	black
PE	green/yellow				

## Charts: Air flow 50 Hz



Measurement: LU-43403

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.

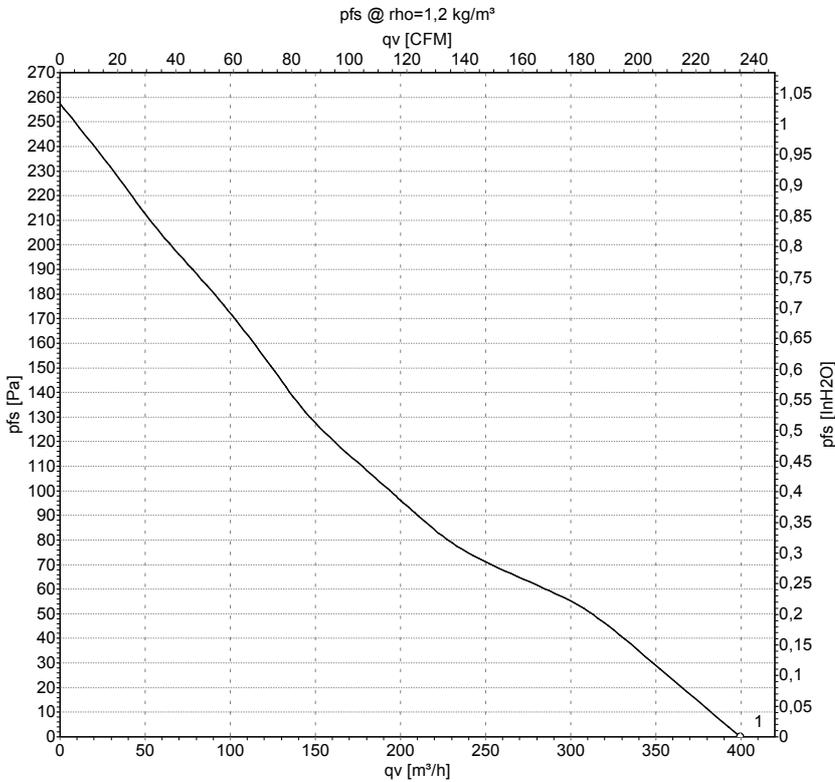
## Measured values

	U	f	n	P <sub>e</sub>	I	qv
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h
1	400	50	2800	40	0.14	335

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow



## Charts: Air flow 60 Hz



Measurement: LU-43405

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

	U	f	n	P <sub>e</sub>	I	qv
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h
1	480	60	3350	52	0.15	400

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow

