

# AC axial fan

sickled blades (S series)

## ebm-papst Mulfingen GmbH & Co. KG

Bachmühle 2  
 74673 Mulfingen  
 Phone: +49 7938 81-0  
 Fax: +49 7938 81-110  
 www.ebmpapst.com  
 info1@de.ebmpapst.com

### Nominal data

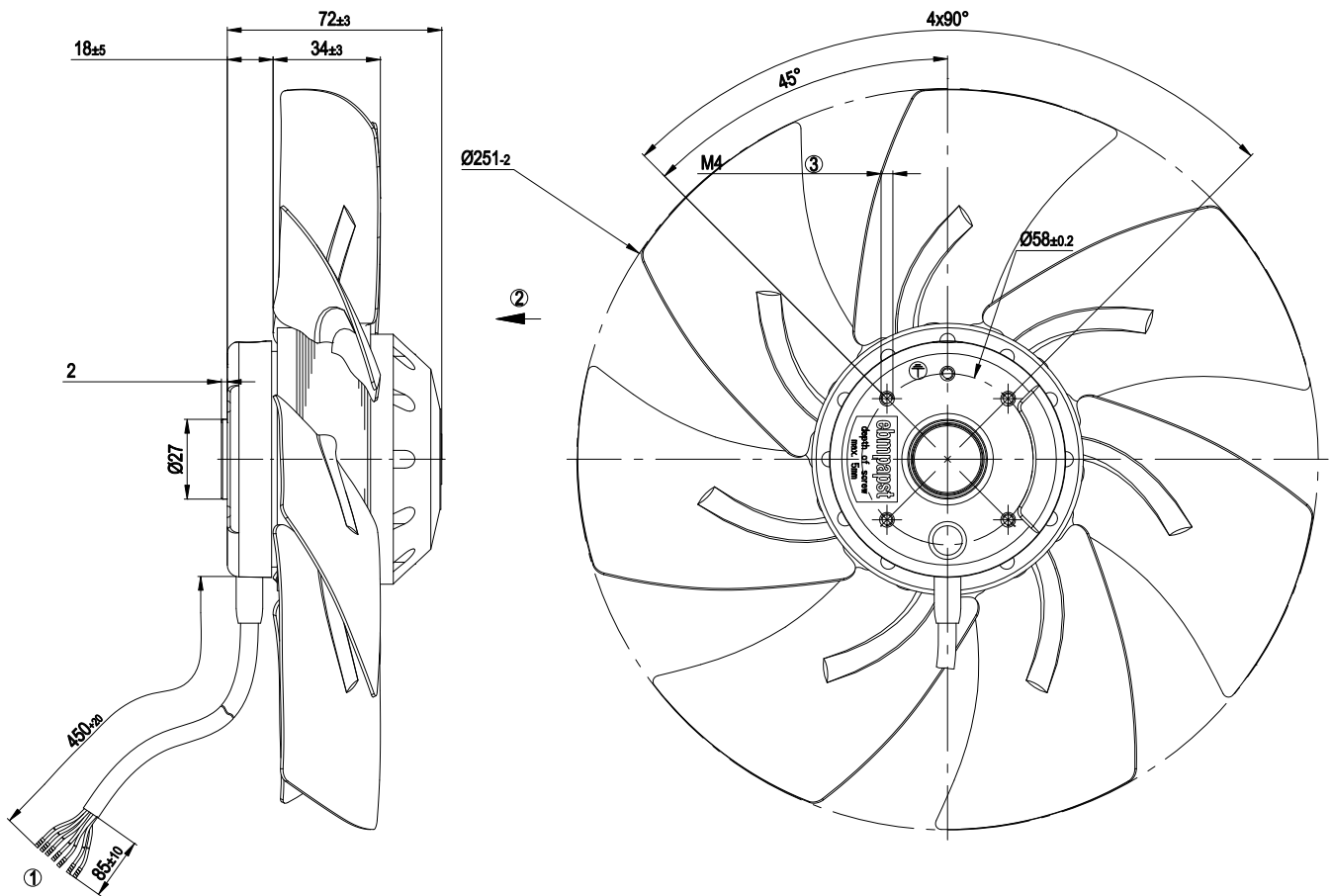
Type	A2D250-AH02-01		
Motor	M2D068-CC		
Phase		3~	3~
Nominal voltage	[V]	400	400
Connection		Y	Y
Frequency	[Hz]	50	60
Type of data definition		rfa	rfa
Valid for approval / standard		CE	CE
Speed	[min <sup>-1</sup> ]	2500	2650
Power input	[W]	100	140
Current draw	[A]	0.20	0.23
Max. back pressure	[Pa]	150	150
Max. ambient temperature	[°C]	65	45

ml = max. load · me = max. efficiency · rfa = running at free air · cs = customer specs · cu = customer unit  
 Subject to alterations

## Technical features

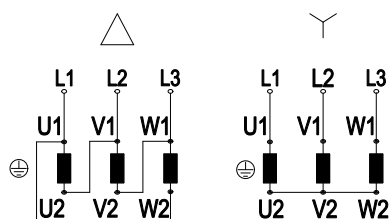
Leakage current	< 0.75 mA
Size	250 mm
Operation mode	S1
Direction of rotation	Counter-clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Humidity class	F5
Direction of air flow	"V"
Insulation class	"B"
Cable exit	Lateral
Condensate discharge holes	Rotor-side
Bearing motor	Ball bearing
Mass	1.72 kg
Material of blades	Sheet steel, coated in black
Product conforming to standard	EN 60335-1
Surface of rotor	Coated in black
Number of blades	7
Type of protection	IP 44
Protection class	I
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Approval	CCC

## Product drawing



1	Connection line PVC, 7x crimped core-end sleeves
2	Direction of air flow "V"
3	Depth of screw max. 5 mm

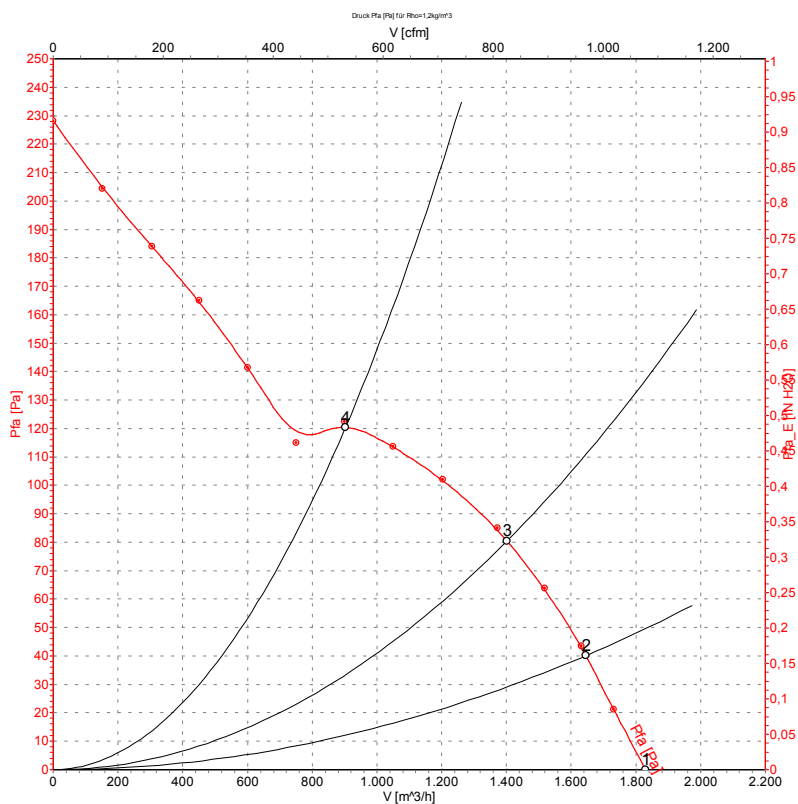
## Connection screen



Note: Direction of rotation changes when two phases are reversed

$\Delta$	Delta connection	Y	Star connection	L1	black
L2	blue	L3	brown	U1	black
V1	blue	W1	brown	U2	green
V2	white	W2	yellow		

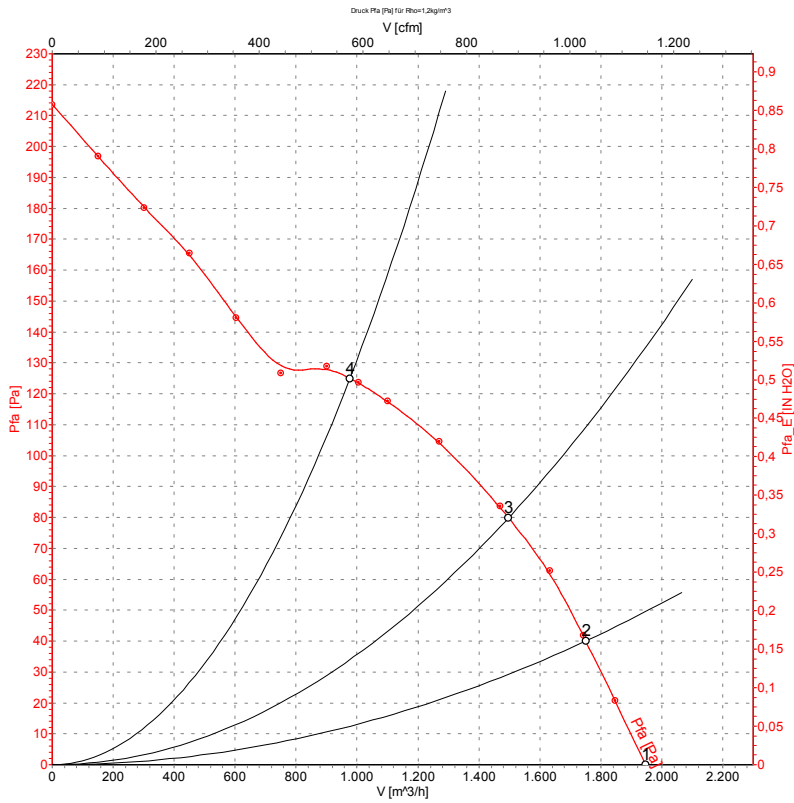
## Charts: Air flow 50 Hz



## Measured values

	U	f	n	P <sub>1</sub>	I	$\hat{V}$	P <sub>fa</sub>
	[V]	[Hz]	[min <sup>-1</sup> ]	[W]	[A]	[m <sup>3</sup> /h]	[Pa]
1	400	50	2500	100	0.20	1830	0
2	400	50	2425	111	0.21	1645	40
3	400	50	2360	120	0.21	1400	81
4	400	50	2310	127	0.22	905	122

## Charts: Air flow 60 Hz



Measurement: LU-59966

### Measured values

	U	f	n	P <sub>1</sub>	I	Ŷ	P <sub>fa</sub>
	[V]	[Hz]	[min <sup>-1</sup> ]	[W]	[A]	[m³/h]	[Pa]
1	400	60	2650	140	0.23	1950	0
2	400	60	2545	148	0.24	1750	40
3	400	60	2450	158	0.25	1495	80
4	400	60	2350	166	0.26	975	125