

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.fansco.com

sales@fansco.com

Nominal data

Type	A4D315-AP10-01				
Motor	M4D068-DF				
Phase		3~	3~	3~	3~
Nominal voltage	[V]	230	230	400	400
Connection		D	D	Y	Y
Frequency	[Hz]	50	60	50	60
Type of data definition		rfa	rfa	rfa	rfa
Valid for approval / standard		CE	CE	CE	CE
Speed	[min ⁻¹]	1400	1620	1400	1620
Power input	[W]	85	110	85	110
Current draw	[A]	0,45	0,42	0,26	0,24
Max. back pressure	[Pa]	120	120	120	120
Max. ambient temperature	[°C]	55	55	55	55
Air flow	[m ³ /h]	2450	2810	2450	2810
Back pressure	[Pa]	0	0	0	0
Sound pressure level	[dB(A)]	60	64	60	64

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

AC axial fan

sickled blades (S series)

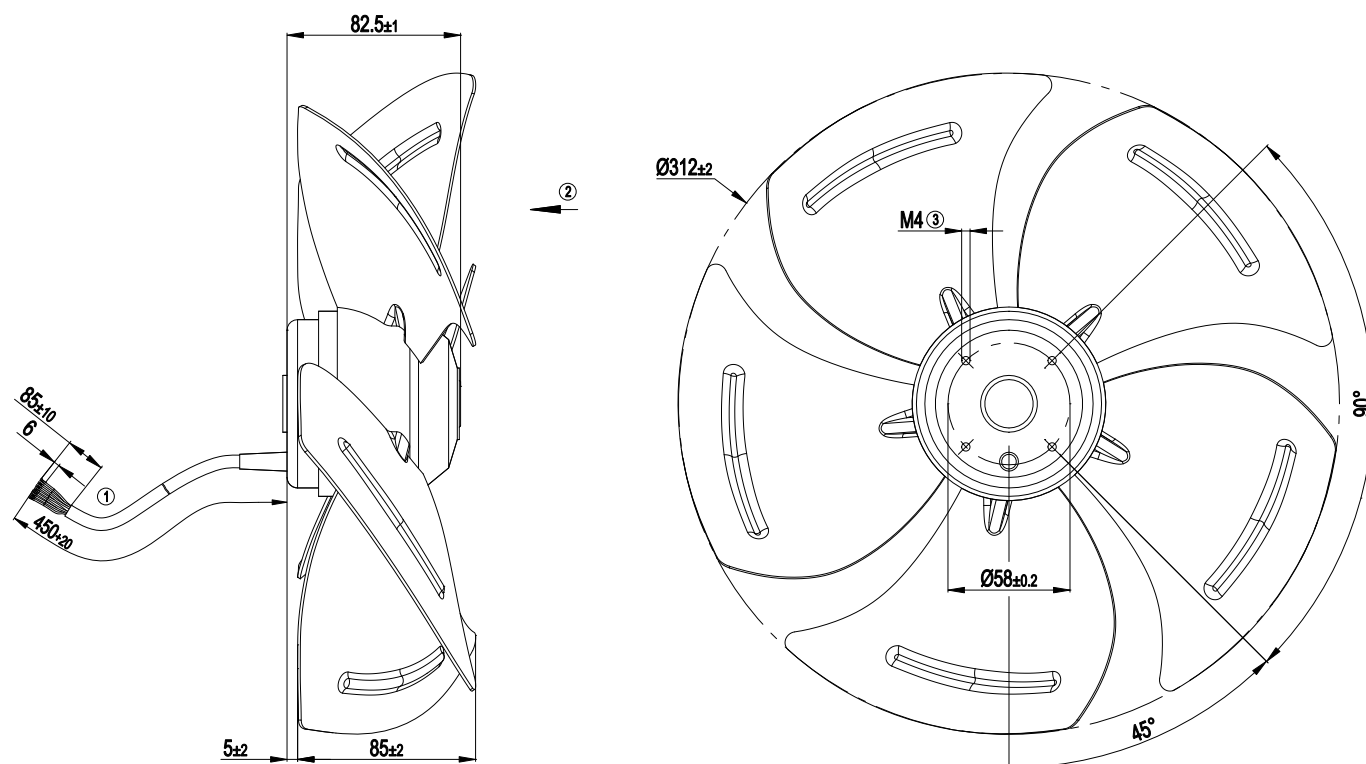
Technical features

Leackage current	< 0,75 mA
Size	315 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	F1-2
Direction of air flow	"V"
Insulation class	"B"
Cable exit	Axial
Condensate discharge holes	Rotor-side
Bearing motor	Ball bearing
Mass	2.4 kg
Material of blades	Sheet steel, coated in black
Product conforming to standard	EN 60335-1, motor does not have factory-installed overheating protection
Surface of rotor	Coated in black
Number of blades	5
Type of protection	IP 44 - depending on position
Protection class	I
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Approval	CCC; GOST

AC axial fan

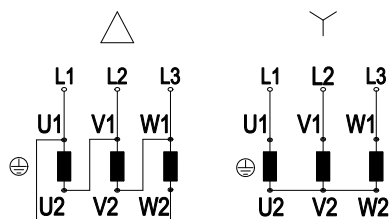
sickled blades (S series)

Product drawing



1	Connection line PVC, 7x brass lead tips crimped
2	Direction of air flow "V"
3	Depth of screw max. 5 mm

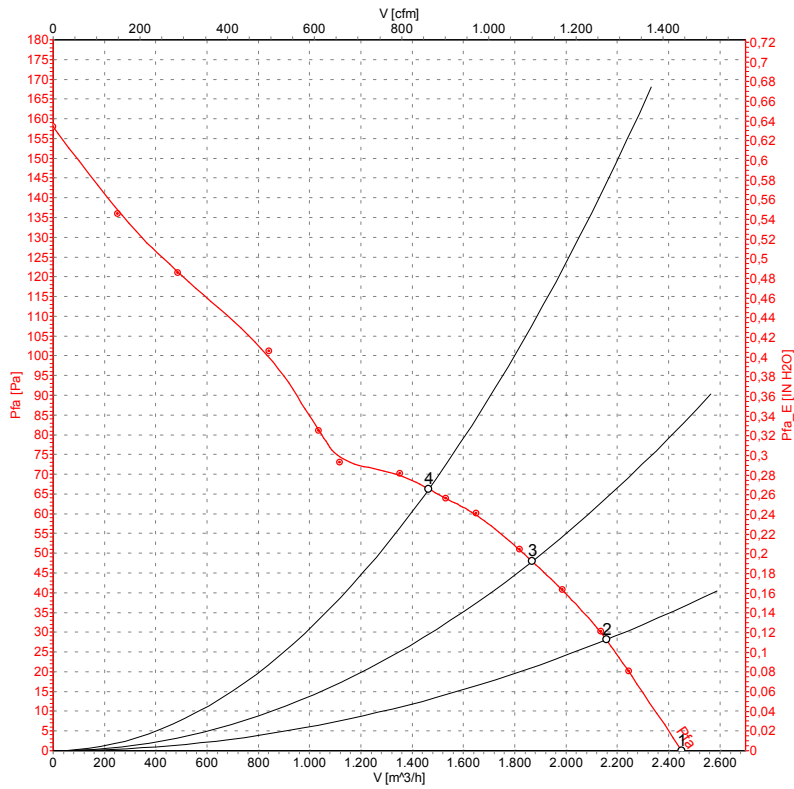
Connection screen



Note: Direction of rotation changes when two phases are reversed

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

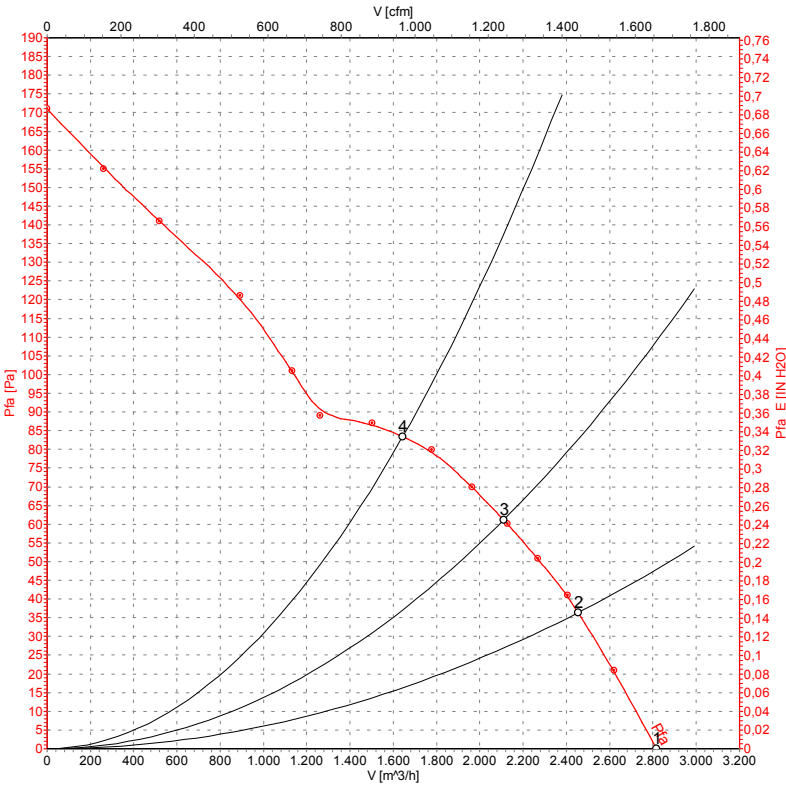
Charts: Air flow 50 Hz



Measured values

	U	f	n	P ₁	I	$\hat{V}$	P _{fa}
	[V]	[Hz]	[min ⁻¹]	[W]	[A]	[m³/h]	[Pa]
1	400	50	1400	85	0.26	2450	0
2	400	50	1395	91	0.26	2155	28
3	400	50	1385	98	0.26	1870	48
4	400	50	1365	108	0.27	1465	66

Charts: Air flow 60 Hz



Measured values

	U	f	n	P ₁	I	$\hat{V}$	P _{fa}
	[V]	[Hz]	[min ⁻¹]	[W]	[A]	[m ³ /h]	[Pa]
1	400	60	1620	110	0.24	2810	0
2	400	60	1595	122	0.24	2455	36
3	400	60	1570	134	0.25	2110	61
4	400	60	1530	149	0.27	1645	83