

AC axial fan

sickled blades (S series)



ebm-papst Mulfingen GmbH & Co. KG

Bachmühle 2

D-74673 Mulfingen

Phone: +49(0)7938/81-0

Fax: +49(0)7938/81-110

info1@de.ebmpapst.com

www.ebmpapst.com

Nominal data

Type	A4D400-AP12-02				
Motor	M4D074-EI				
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]	1450	1690	1450	1690
Power input	[W]	135	185	135	185
Current draw	[A]	0.76	0.68	0.44	0.39
Max. back pressure	[Pa]	150	120	150	120
Max. ambient temperature	[°C]	40	40	40	40

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)

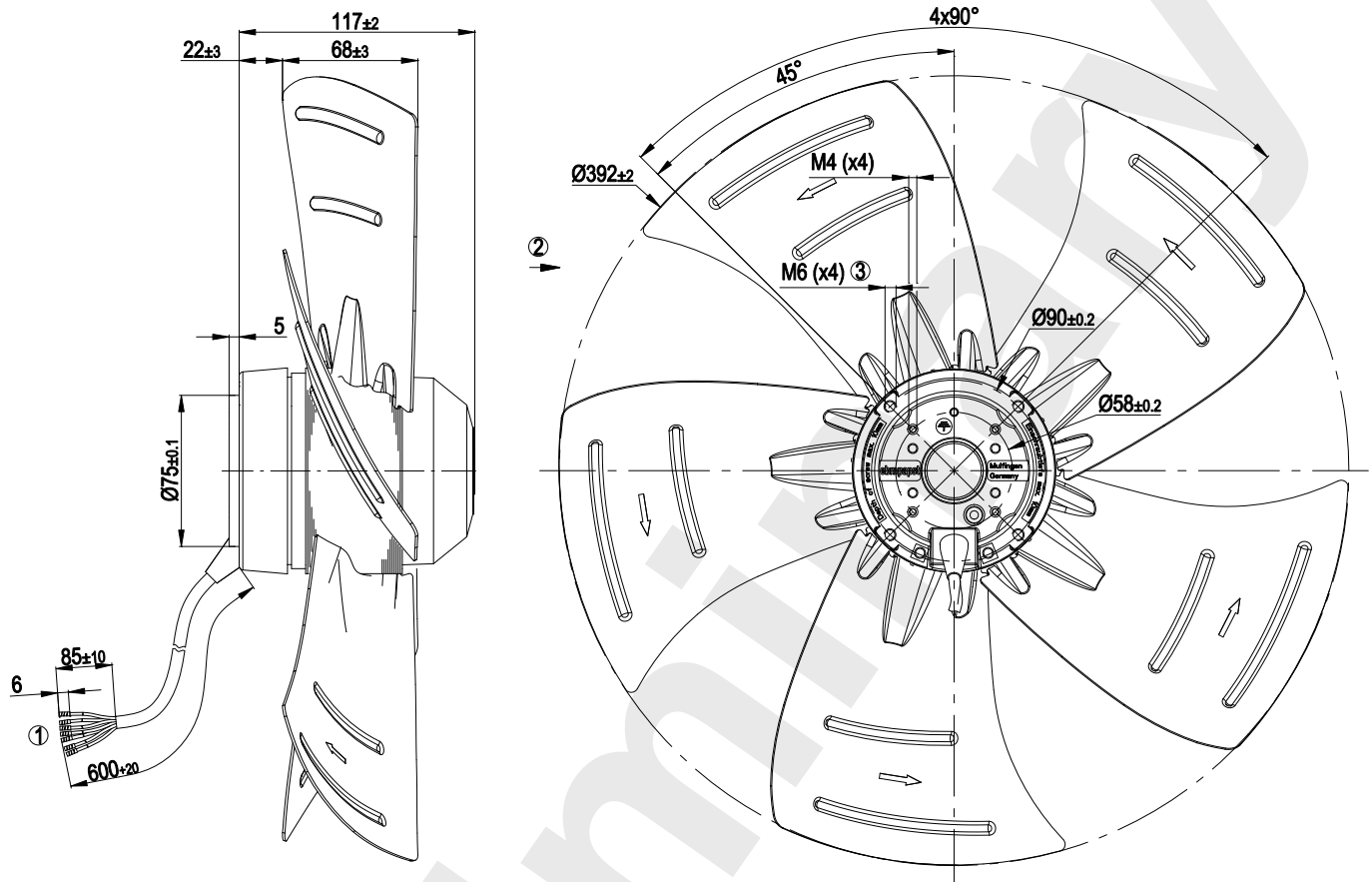
Technical features

Leakage current	< 0.75 mA
Size	400 mm
Operation mode	S1
Direction of rotation	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	"A"
Insulation class	"B"
Cable exit	Variable
Condensate discharge holes	Rotor-side
Motor bearing	Ball bearing
Mass	4.2 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	5
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Protection class	I
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Approval	CCC

AC axial fan

sickled blades (S series)

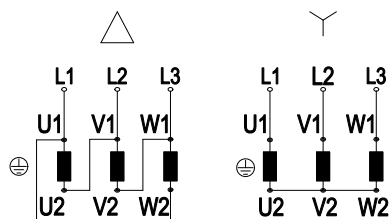
Product drawing



Drawing preliminary!

1	Connection line PVC 7G 0.5mm ² , 7x brass lead tips crimped
2	Direction of air flow "A"
4	Depth of screw max. 10 mm

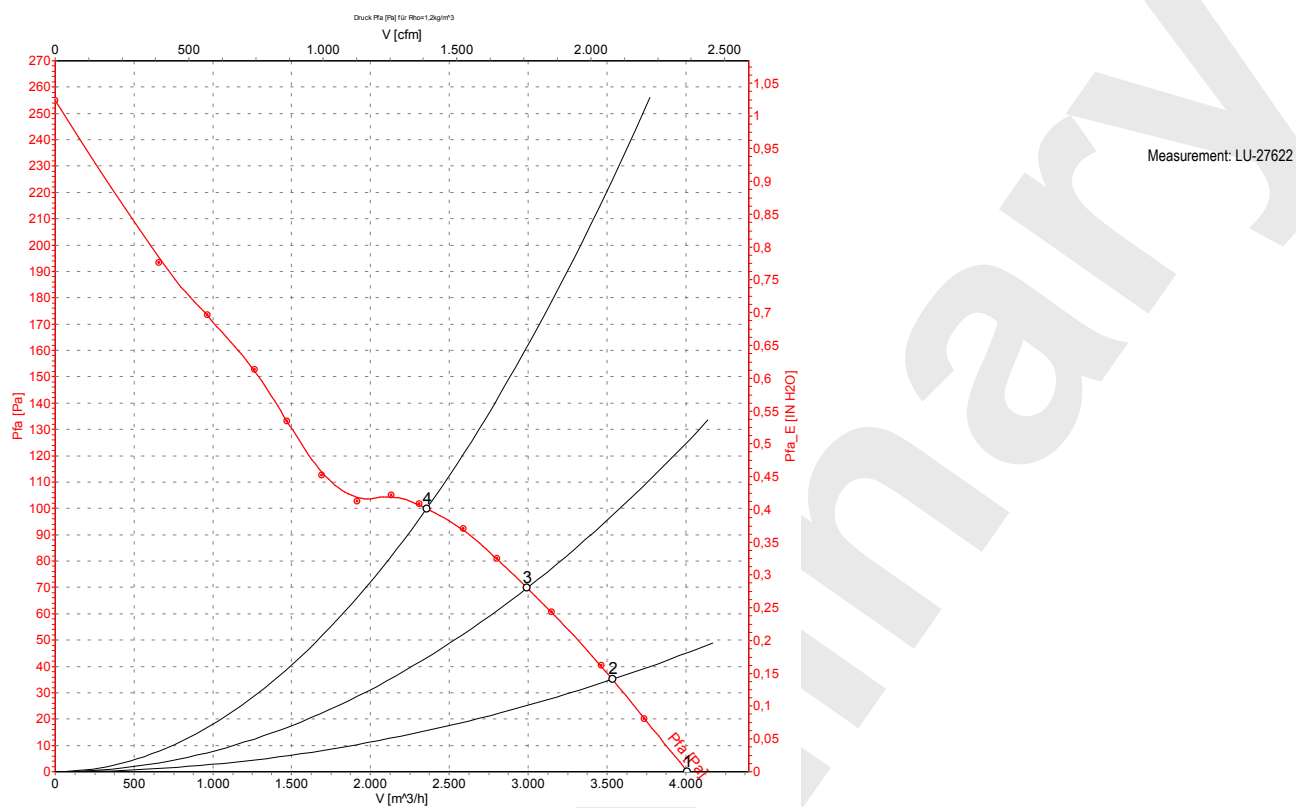
Connection screen



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		

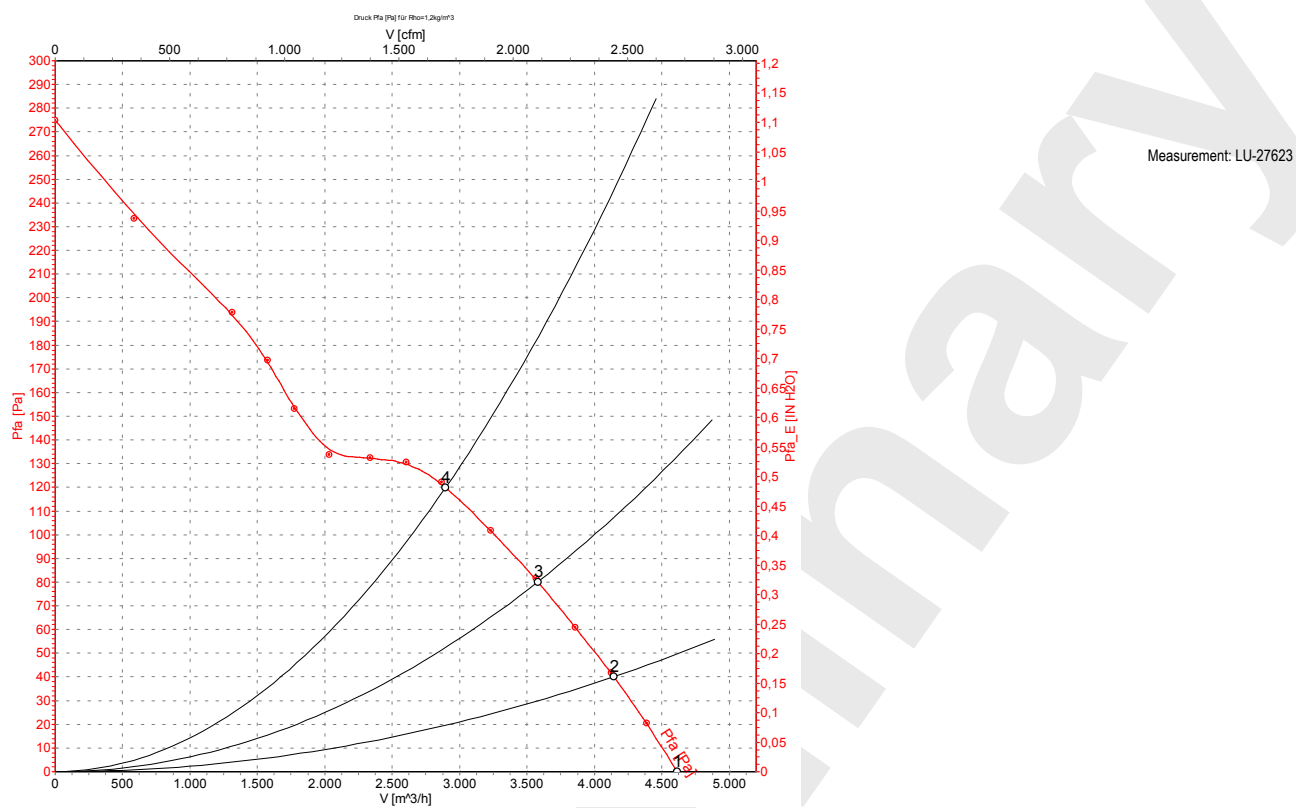
Charts: Air flow 50 Hz



Measured values

	U	f	n	P_1	I	$\hat{V}$	P_{fa}
	[V]	[Hz]	[min ⁻¹]	[W]	[A]	[m³/h]	[Pa]
1	400	50	1450	135	0.44	4000	0
2	400	50	1435	161	0.47	3535	35
3	400	50	1420	182	0.49	2995	70
4	400	50	1410	203	0.50	2355	100

Charts: Air flow 60 Hz



Measured values

	U	f	n	P_1	I	$\hat{V}$	P_{fa}
	[V]	[Hz]	[min ⁻¹]	[W]	[A]	[m³/h]	[Pa]
1	400	60	1690	185	0.39	4615	0
2	400	60	1660	223	0.45	4145	40
3	400	60	1635	256	0.49	3580	80
4	400	60	1605	290	0.54	2895	120