



A4D400-AP12-24 ebmpapst Datasheet
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Nominal data

Type	A4D400-AP12-24				
Motor	M4D074-EI				
Phase		3~	3~	3~	3~
Nominal voltage	VAC	230	230	400	400
Connection		Δ	Δ	Y	Y
Frequency	Hz	50	60	50	60
Type of data definition		ml	ml	ml	ml
Valid for approval / standard		CE	CE	CE	CE
Speed (rpm)	min ⁻¹	1380	1550	1380	1550
Power input	W	220	315	220	315
Current draw	A	0.88	0.97	0.51	0.56
Max. back pressure	Pa	105	130	105	130
Min. ambient temperature	°C	-40	-40	-40	-40
Max. ambient temperature	°C	40	40	40	40
Starting current	A	2.9	2.9	1.7	1.7

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

Data according to ErP directive

		Actual	Request 2015		
01 Overall efficiency η_{es}	%	32.7	29.1	09 Power input P_e	kW 0.19
02 Measurement category		A		09 Air flow q_v	m ³ /h 2595
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa 91
04 Efficiency grade N		43.6	40	10 Speed (rpm) n	min ⁻¹ 1415
05 Variable speed drive		No		11 Specific ratio*	1.00

Data definition with optimum efficiency.
 The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

* Specific ratio = $1 + p_g / 100\,000\text{ Pa}$

LU-27622

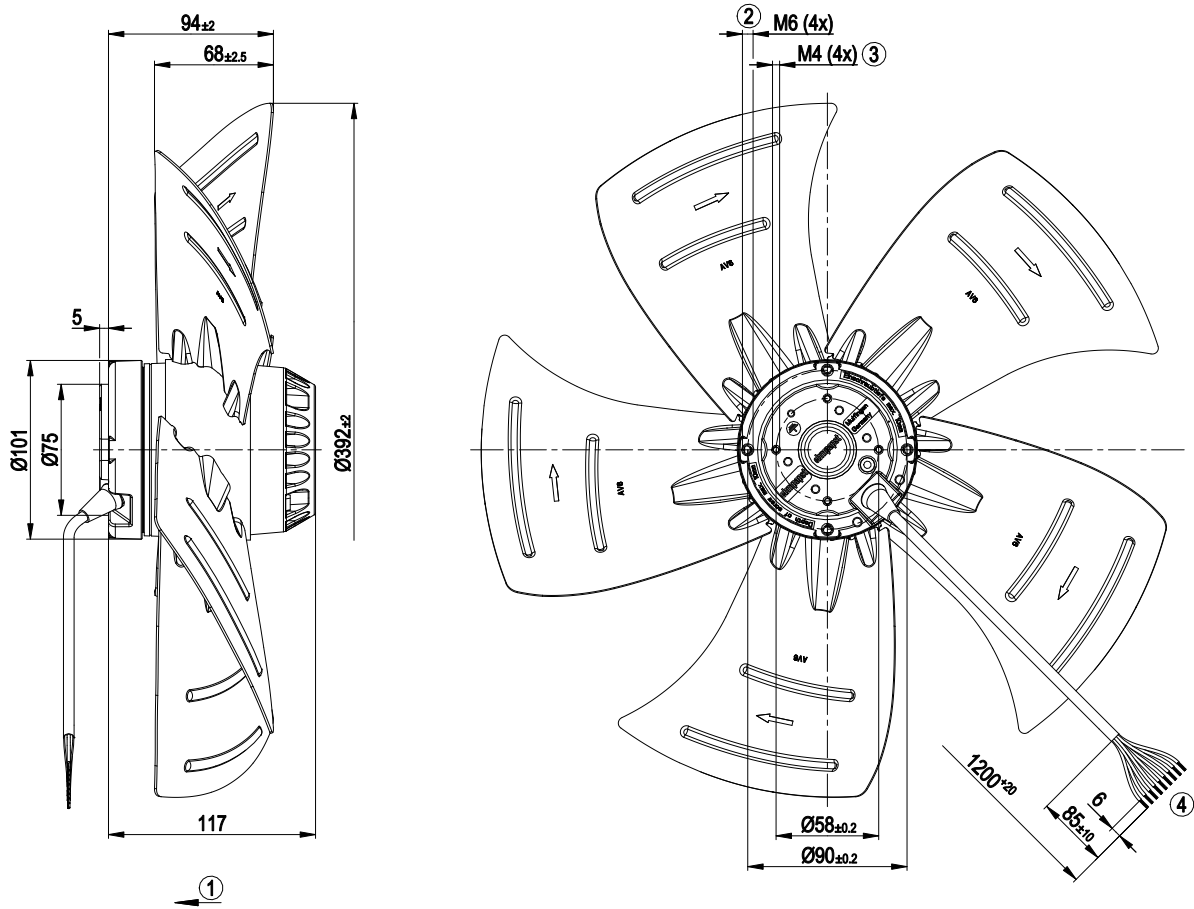


Technical features

Mass	4.2 kg
Size	400 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity (F)/environmental protection class (H)	H0+
Max. permissible ambient motor temp. (transp./ storage)	+ 70 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing with anti-freezing grease
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) brought out, basic insulation
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1



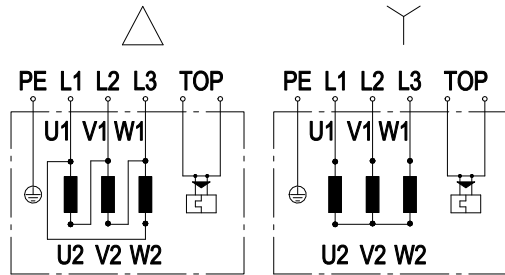
Product drawing



1	Direction of air flow "V"
2	Thread reach max. 10 mm
3	Thread reach max. 5 mm
4	Connection line silicone 9G 0.5 mm ² , 9x lead tips crimped



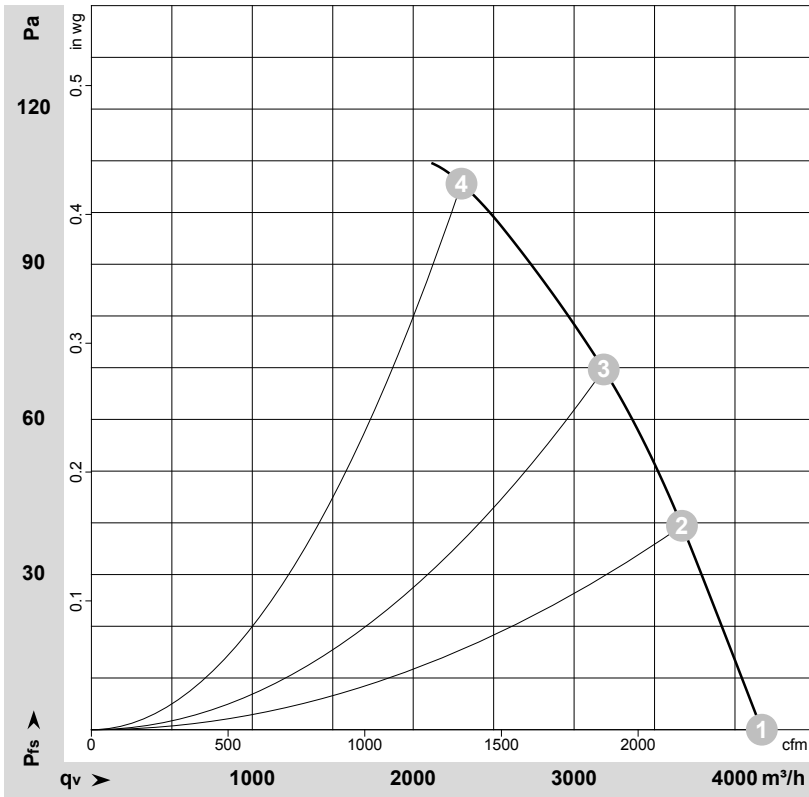
Connection screen



Note: Change in direction of rotation by reversing two phases

Δ	Delta connection	Y	Star connection	L1	black
L2	blue	L3	brown	U1	black
V1	blue	W1	brown	U2	green
V2	white	W2	yellow	TOP	2xgrey
PE	green/yellow				

Charts: Air flow 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-166647-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebmpapst. 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.

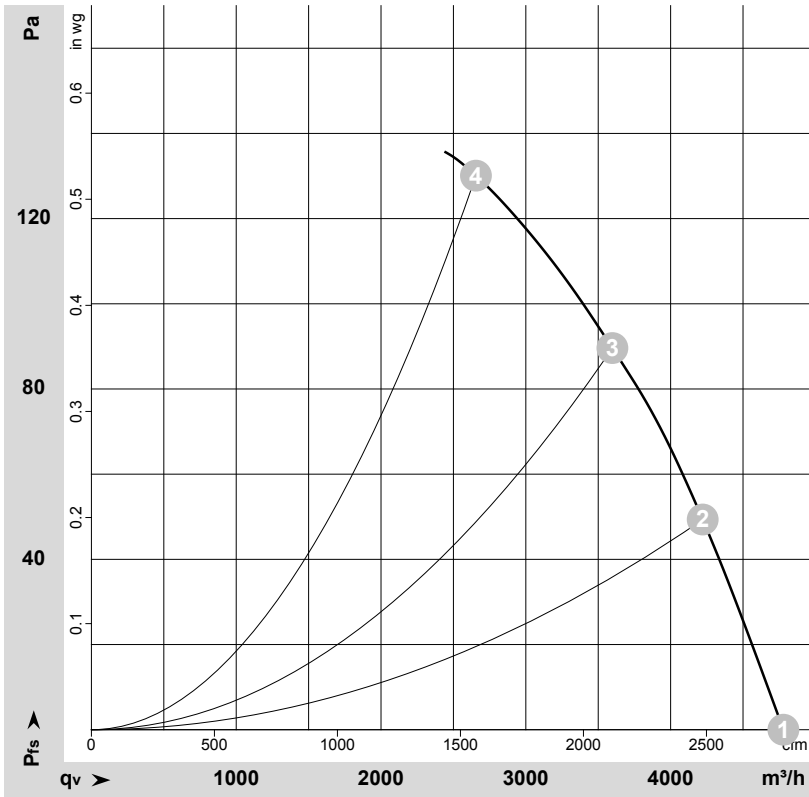
Measured values

	Conn.	U	f	n	Pe	I	LpA _{in}	LwA _{in}	qv	Pfs	qv	Pfs
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa	cfm	inH ₂ O
1	Y	400	50	1435	151	0.47	68	74	4165	0	2455	0.00
2	Y	400	50	1415	179	0.48	68	75	3670	40	2160	0.16
3	Y	400	50	1400	198	0.49	65	72	3185	70	1875	0.28
4	Y	400	50	1380	220	0.51	68	76	2300	105	1355	0.42

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed (rpm) · Pe = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side
 qv = Air flow · p_s = Pressure increase



Charts: Air flow 60 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-166682-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebmpapst. 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

	Conn.	U	f	n	P _e	I	LpA _{in}	LwA _{in}	q _v	P _{fs}	q _v	P _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa	cfm	inH ₂ O
1	Y	400	60	1665	202	0.42	72	78	4780	0	2815	0.00
2	Y	400	60	1625	245	0.47	71	78	4220	50	2485	0.20
3	Y	400	60	1590	281	0.51	69	75	3600	90	2120	0.36
4	Y	400	60	1550	315	0.56	70	77	2655	130	1565	0.52

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side
 q_v = Air flow · P_{fs} = Pressure increase

