

KARTA KATALOGOWA

A2D300-AP02-01

Wentylator osiowy AC, łopatki sierpowe (seria S)

Producent: ebm-papst

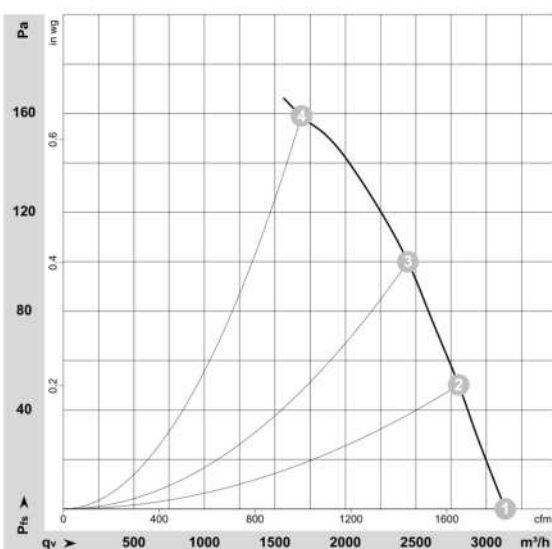


Dane znamionowe		Budowa	
Napięcie znamionowe	3~ 230 / 230 / 400 / 400 V	Wielkość	300 mm
Połączenie	$\Delta / \Delta / Y / Y$	Silnik	M2D074-DF
Częstotliwość	50 / 60 / 50 / 60 Hz	Materiał wirnika	blacha stalowa malowana na czarno
Prędkość obrotowa	2580 / 2750 / 2580 / 2750 obr/min	Liczba łopatek	5
Pobór mocy	210 / 300 / 210 / 300 W	Kierunek obrotów	w lewo, patrząc na wirnik
Pobór prądu	0,62 / 0,84 / 0,36 / 0,48 A	Stopień ochrony	IP44
Prąd rozruchowy	2,0 / 1,9 / 1,16 / 1,1 A	Klasa izolacji	F
Maks. przeciwcisnienie	200 / 125 / 200 / 125 Pa	Łożyskowanie	kulkowe
Temperatura otoczenia	min. -25 °C; maks. 75 / 40 / 75 / 40 °C	Masa	3,2 kg

Dane ErP (UE 327/2011)	
Sprawność całkowita	29,9 %
Przepływ w pkt. optymalnym	2210 m³/h
Przyrost ciśnienia	125 Pa
Regulacja prędkości (ErP)	nie

Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz


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

Measurement: LU-62732-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Dane na okładce wg karty katalogowej producenta ebm-papst (oryginał na kolejnych stronach).

Wartości przy swobodnym wydmuchu; producent zastrzega możliwość zmian.

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A2D300-AP02-01

AC axial fan

sickle-shaped blades (S series)


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Nominal data

Type	A2D300-AP02-01				
Motor	M2D074-DF				
Phase		3~	3~	3~	3~
Nominal voltage	VAC	230	230	400	400
Wiring		Δ	Δ	Y	Y
Frequency	Hz	50	60	50	60
Method of obtaining data		fa	fa	fa	fa
Valid for approval/standard		CE	CE	CE	CE
Speed (rpm)	min ⁻¹	2580	2750	2580	2750
Power consumption	W	210	300	210	300
Current draw	A	0.62	0.84	0.36	0.48
Max. back pressure	Pa	200	125	200	125
Max. back pressure	inH ₂ O	0.8	0.5	0.8	0.5
Min. ambient temperature	°C	-25	-25	-25	-25
Max. ambient temperature	°C	75	40	75	40
Starting current	A	2.0	1.9	1.16	1.1

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

Data according to ErP Directive

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	29.9	29.9	09 Power consumption P_e	kW	0.25
02 Measurement category		A		09 Air flow q_v	m ³ /h	2210
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	125
04 Efficiency grade N		40	40	10 Speed (rpm) n	min ⁻¹	2455
05 Variable speed drive		No		11 Specific ratio*		1.00

Data obtained at optimum efficiency level.

The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

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

LU-62732



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AC axial fan

sickle-shaped blades (S series)

Technical description

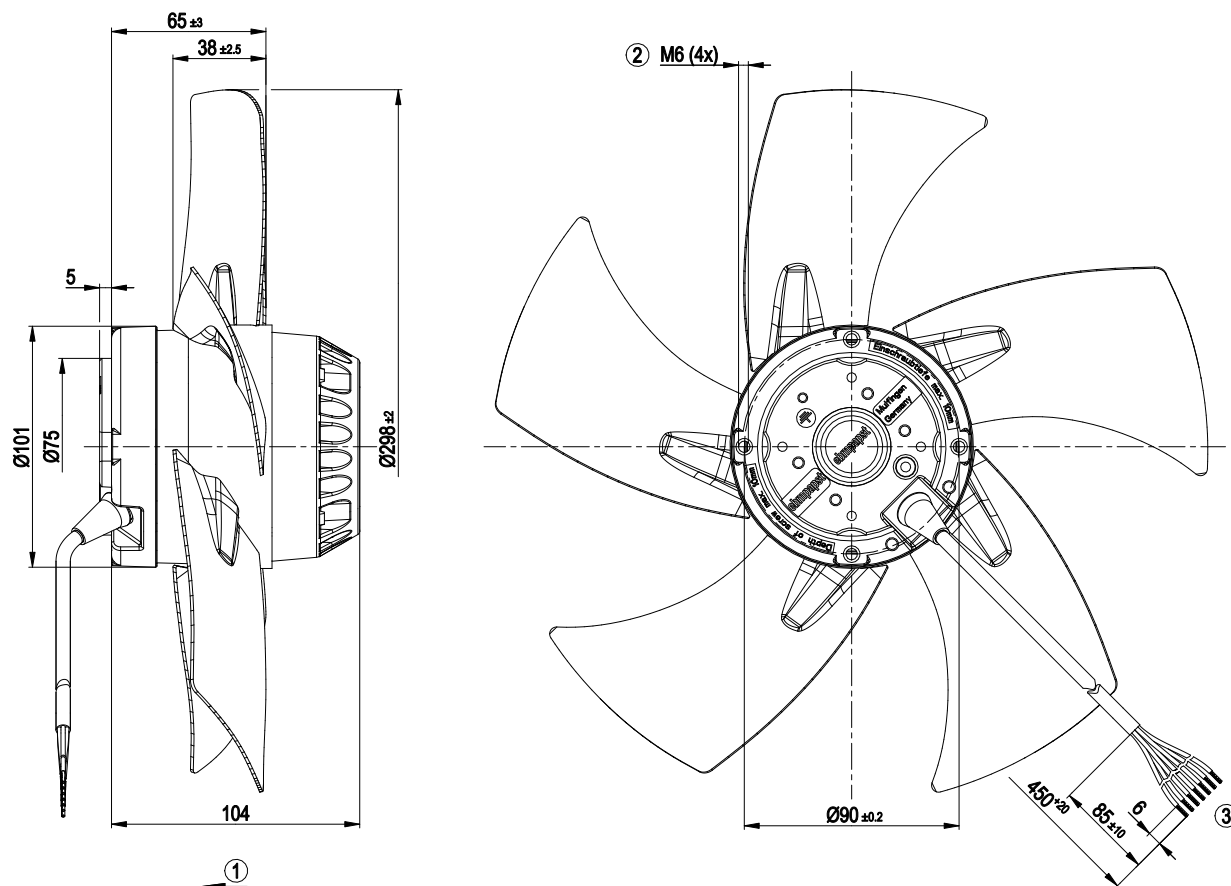
Weight	3.2 kg
Fan size	300 mm
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H0+
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1, motor does not have factory-installed overheating protection; CE
Approval	CCC; EAC

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AC axial fan

sickle-shaped blades (S series)

Product drawing

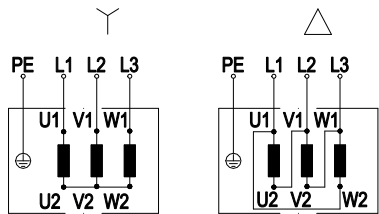


- | | |
|---|--|
| 1 | Direction of air flow "V" |
| 2 | Max. clearance for screw 10 mm |
| 3 | Cable PFA AWG20 (green/yellow AWG18), 7x crimped splices |

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sickle-shaped blades (S series)

Connection diagram



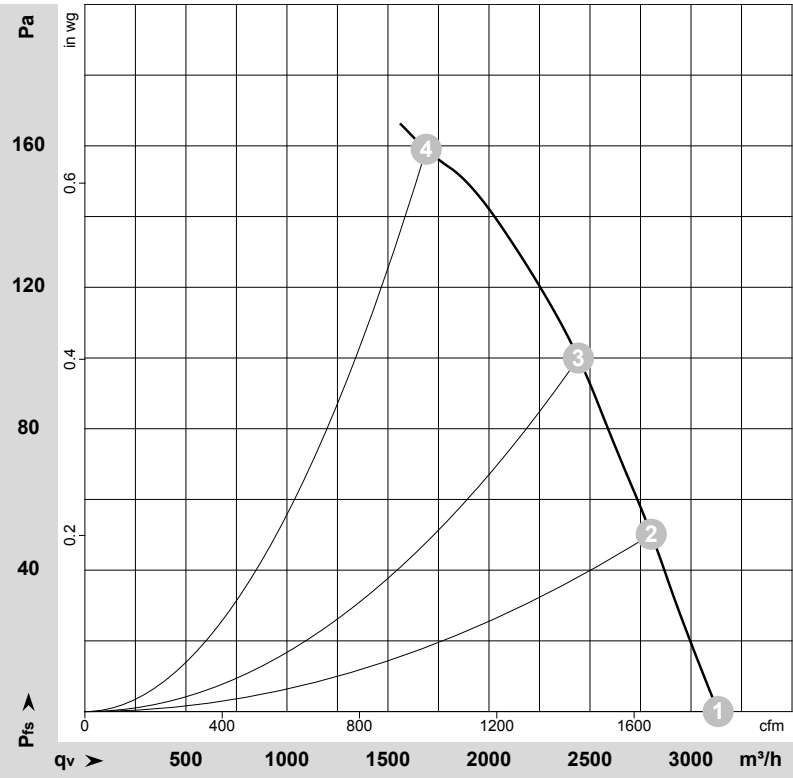
Y	Star connection	Δ	Delta connection	L1	= U1 = black
U2	green	L2	= V1 = blue	V2	white
L3	= W1 = brown	W2	yellow	PE	green/yellow



A2D300-AP02-01

AC axial fan
 sickle-shaped blades (S series)

Curves: Air performance 50 Hz



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

Measurement: LU-62732-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	Wired	U	f	n	P _e	I	qv	p _{fs}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	CFM	inH2O
1	Y	400	50	2580	210	0.36	3135	0	1845	0.00
2	Y	400	50	2540	228	0.36	2805	50	1650	0.20
3	Y	400	50	2490	244	0.39	2445	100	1440	0.40
4	Y	400	50	2385	281	0.44	1690	160	995	0.64

Wired = Wiring · U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

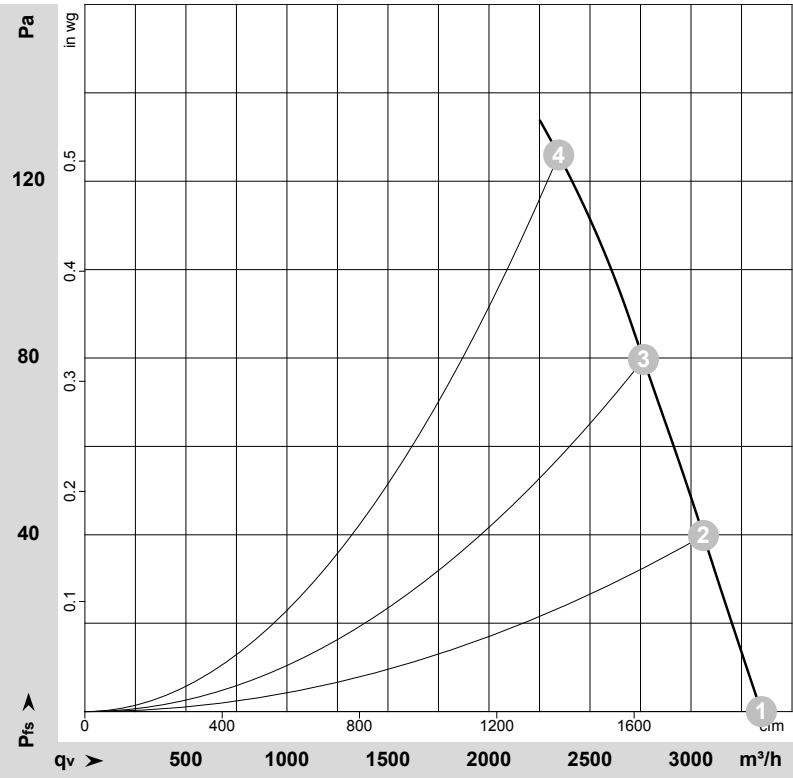


A2D300-AP02-01

AC axial fan

sickle-shaped blades (S series)

Curves: Air performance 60 Hz



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

Measurement: LU-62733-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P _e	I	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	CFM	inH2O
1	400	60	2750	300	0.48	3350	0	1970	0.00
2	400	60	2685	316	0.48	3060	40	1800	0.16
3	400	60	2625	331	0.50	2765	80	1625	0.32
4	400	60	2540	349	0.53	2345	125	1380	0.50

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

