A2D240-AB26-05

AC axial fan

straight blades (A series)

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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	**A2D240-AB26-05**
Motor	**M2D068-DF**

Phase		3~	3~	3~	3~
Nominal voltage	VAC	230	230	400	400
Nominal voltage range	VAC	208 .. 254	220 .. 277	360 .. 440	380 .. 480
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}	2700	3120	2700	3120
Power consumption	W	120	170	120	170
Current draw	A	0.43	0.45	0.25	0.26
Max. back pressure	Pa	130	150	130	150
Max. back pressure	in. wg	0.52	0.6	0.52	0.6
Min. ambient temperature	°C	-25	-25	-25	-25
Max. ambient temperature	°C	95	80	95	80

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

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Technical description

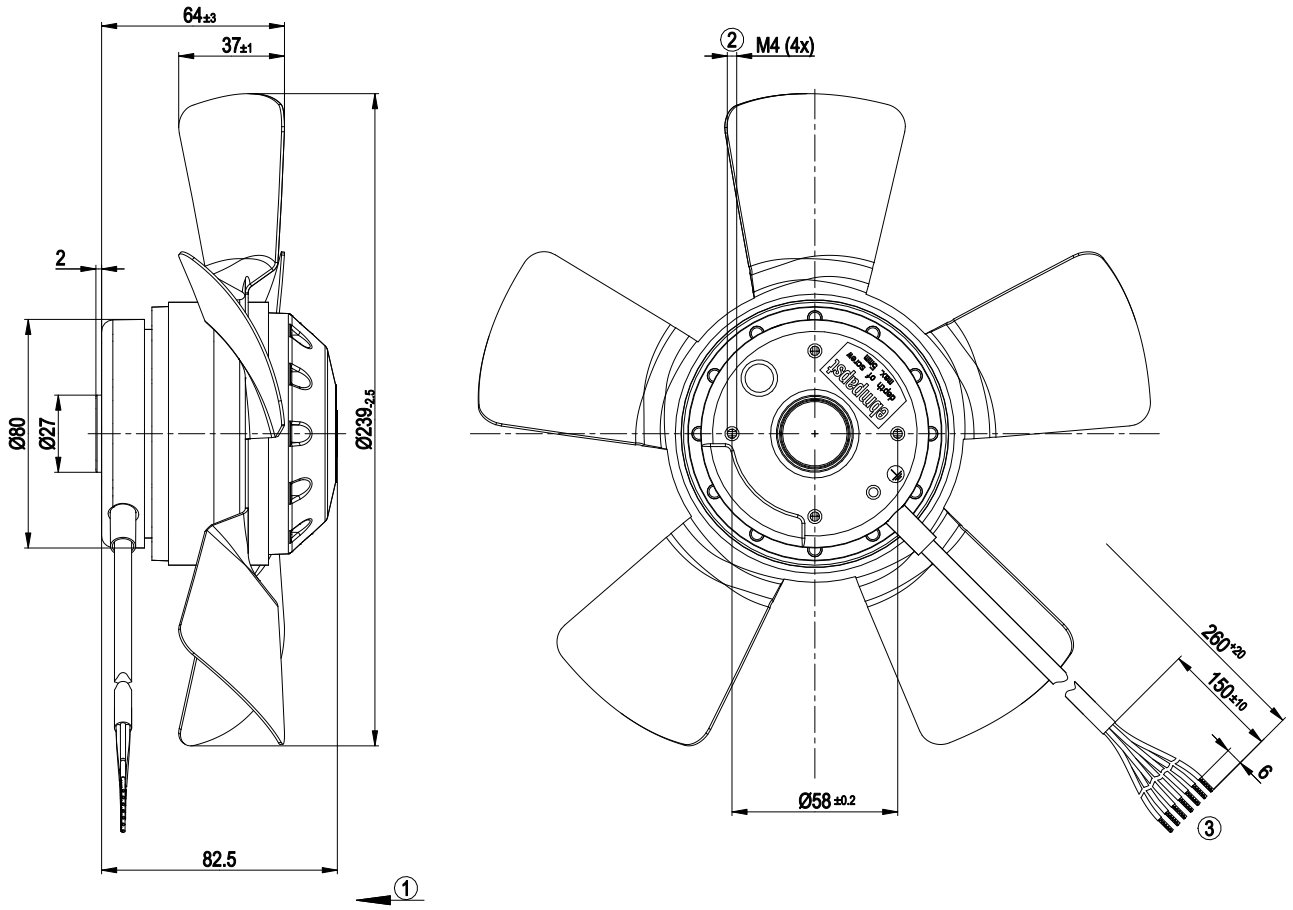
Weight	2 kg
Size	240 mm
Motor size	68
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Number of blades	5
Airflow direction	V
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H1+; F3-1
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	None
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
With cable	Lateral
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1, motor does not have factory-installed overheating protection; CE

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Product drawing



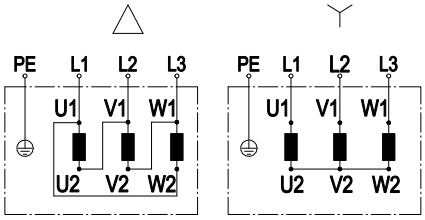
1	Direction of air flow "V"
2	Max. clearance for screw 5 mm
3	Cable halogen-silicone-free 7x 0.5 mm², 7x crimped splices

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Connection diagram



Change of rotation direction by reversing two phases

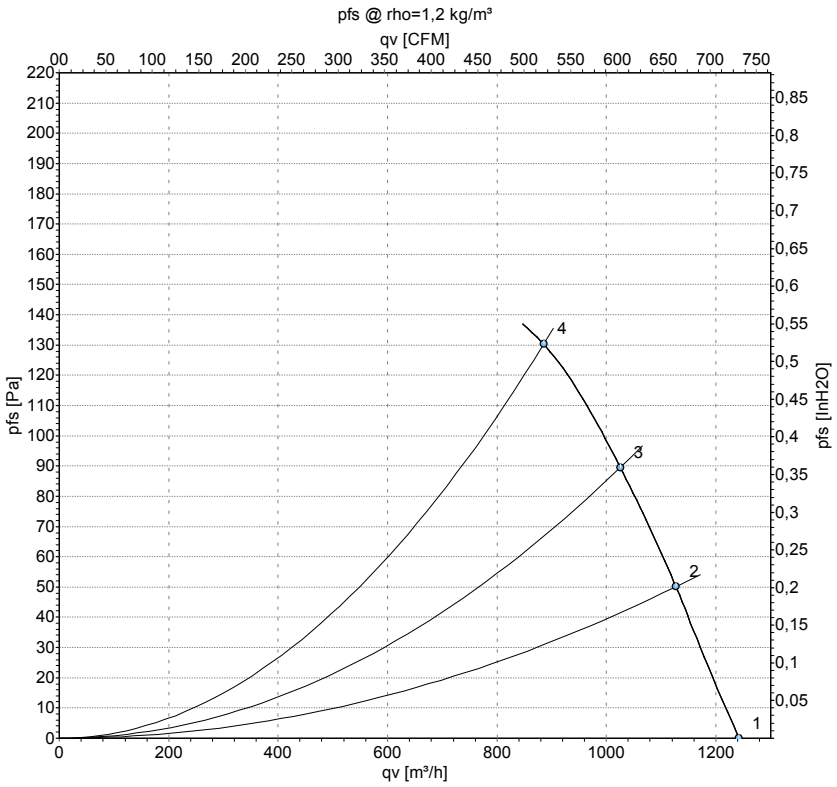
	Three-phase motor	Δ	Delta connection	Y	Star connection
L1	= U1 = black	L2	= V1 = blue	L3	= W1 = brown
U2	green	V2	white	W2	yellow
PE	green/yellow				

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AC axial fan

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Curves: Air performance 50 Hz



Measurement: LU-64207-1

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	m^3/h	Pa	cfm	in. wg
1	400	50	2700	120	0.25	1240	0	730	0.00
2	400	50	2660	114	0.23	1125	50	665	0.20
3	400	50	2650	117	0.23	1025	90	605	0.36
4	400	50	2650	117	0.23	885	130	520	0.52

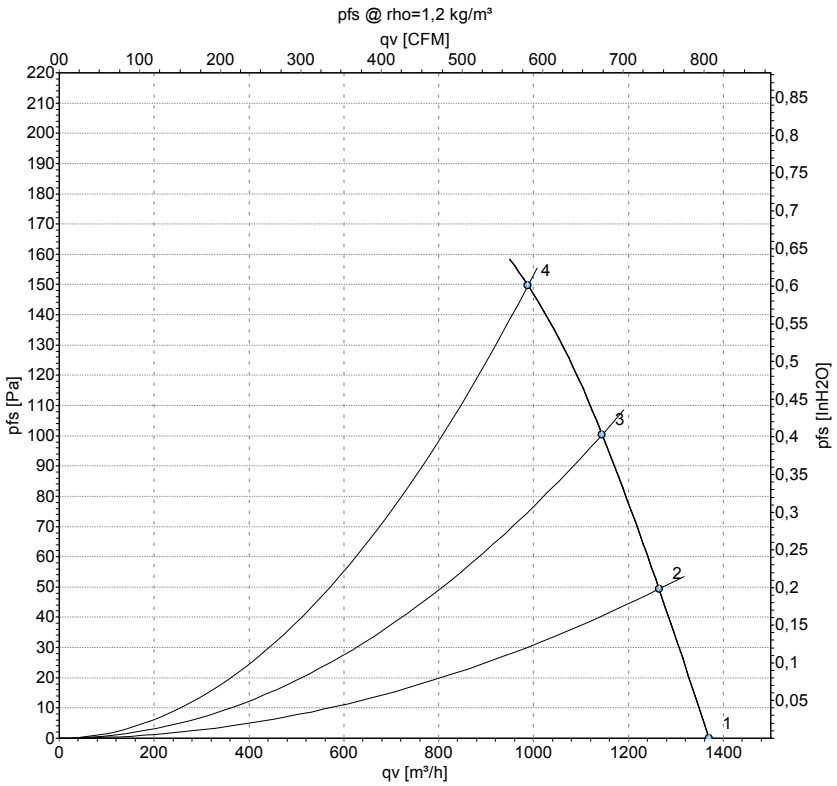
U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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AC axial fan

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Curves: Air performance 60 Hz



Measurement: LU-64208-1

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	m^3/h	Pa	cfm	in. wg
1	400	60	3120	170	0.26	1370	0	805	0.00
2	400	60	2925	160	0.26	1265	50	745	0.20
3	400	60	2900	164	0.27	1145	100	675	0.40
4	400	60	2895	166	0.27	990	150	580	0.60

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

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