

A8D910-AE07-04 ebmpapst Datasheet

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Nominal data

Type	A8D910-AE07-04				
Motor	M8D138-LA				
Phase		3~	3~	3~	3~
Nominal voltage	VAC	230	277	400	480
Wiring		Δ	Δ	Y	Y
Frequency	Hz	50	60	50	60
Method of obtaining data		ml	ml	ml	ml
Valid for approval/standard		CE	CE	CE	CE
Speed	min ⁻¹	675	795	675	795
Power consumption	W	920	1420	920	1420
Current draw	A	4.15	4.75	2.4	2.75
Max. back pressure	Pa	90	110	90	110
Min. ambient temperature	°C	-40	-40	-40	-40
Max. ambient temperature	°C	65	60	65	60
Starting current	A	19	20	11	11.5

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

Data according to ErP Directive

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	33.8	33.3	09 Power consumption P_e	kW	0.88
02 Measurement category		A		09 Air flow q_v	m ³ /h	13735
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	79
04 Efficiency grade N		40.5	40	10 Speed n	min ⁻¹	680
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 = $1 + p_g / 100\,000\text{ Pa}$

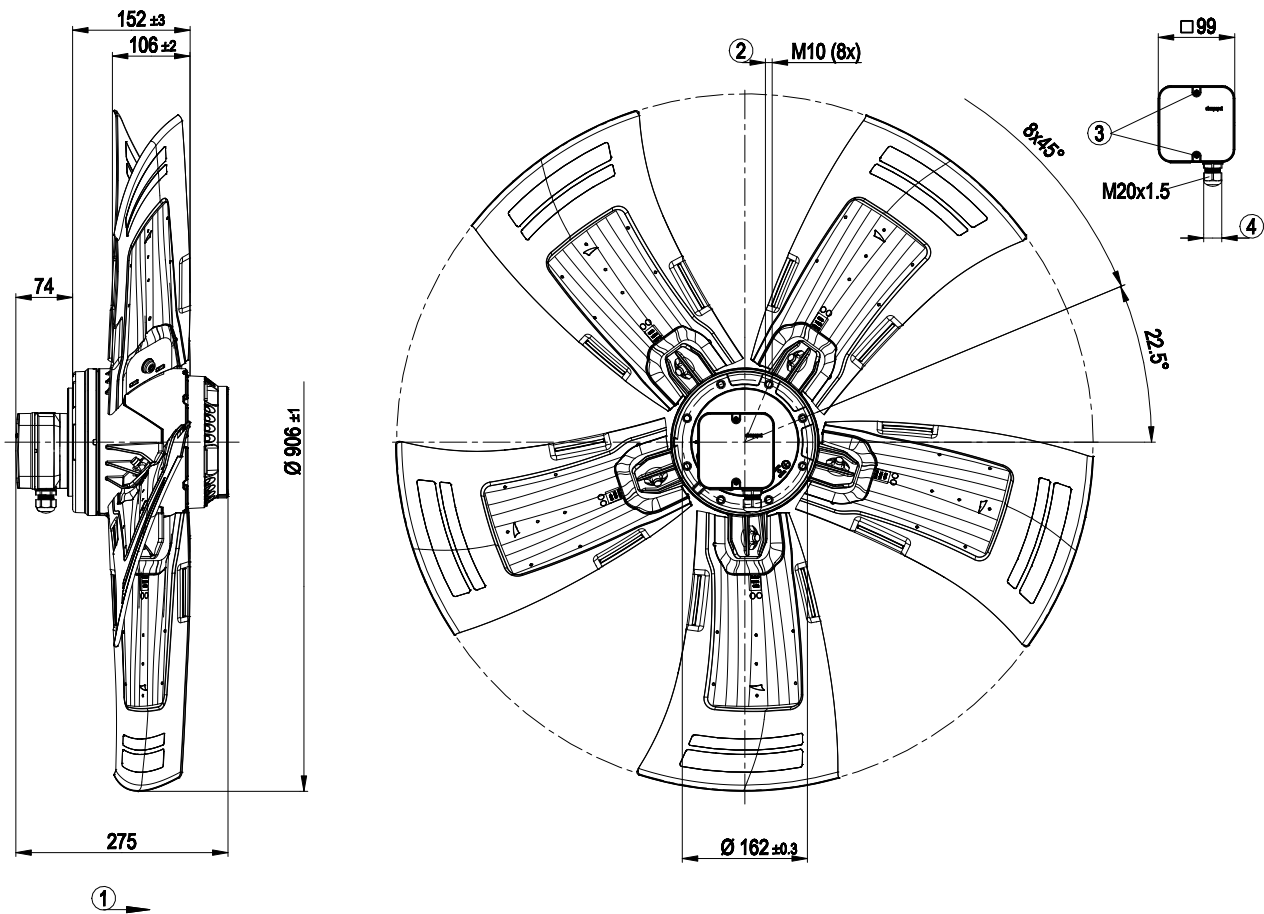
LU-118434



Technical description

Weight	24.8 kg
Fan size	910 mm
Rotor surface	Cast in aluminum
Terminal box material	PC/ABS plastic
Blade material	Sheet aluminum insert, sprayed with PP plastic
Number of blades	5
Blade pitch	-5°
Airflow direction	"A"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F3-1
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Any
Condensation drainage holes	On rotor and stator sides
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	≤ 3.5 mA
Electrical hookup	Via terminal box
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Axial
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60034; EN 61800-5-1; CE
Approval	CSA C22.2 No. 100; EAC; UL 1004-1

Product drawing

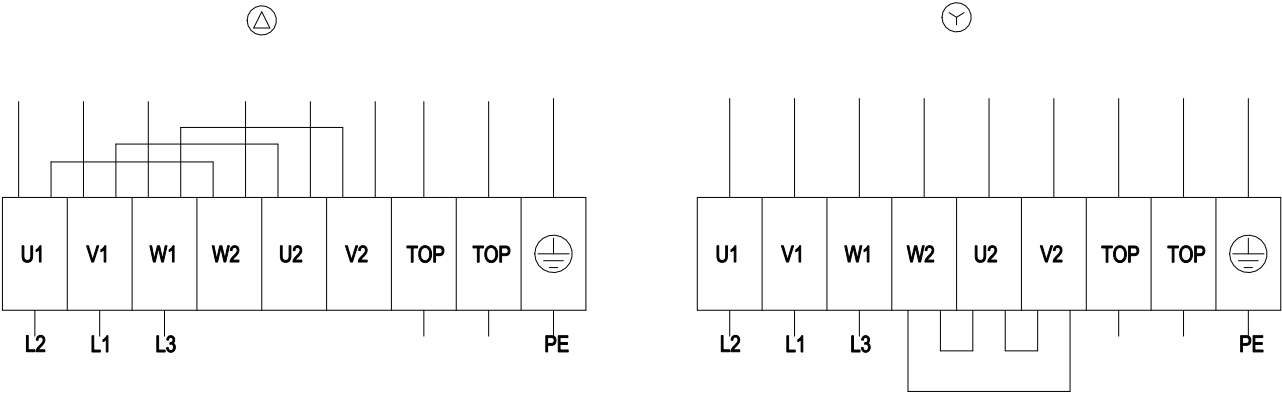


1	Direction of air flow "A"
2	Max. clearance for screw 18 mm
3	Tightening torque 1.5 ± 0.2 Nm
4	Cable diameter: min. 7 mm, max. 14 mm, tightening torque 2 ± 0.3 Nm

AC axial fan - HyBlade

sickle-shaped blades (S series)

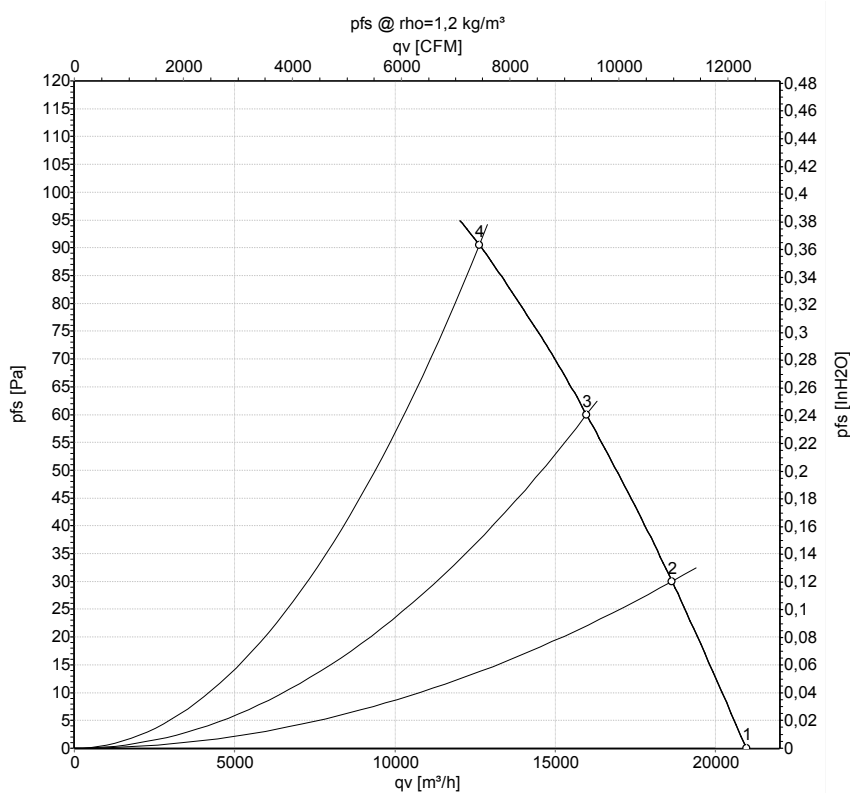
Connection diagram



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



Curves: Air performance 50 Hz



Measurement: LU-118434-1

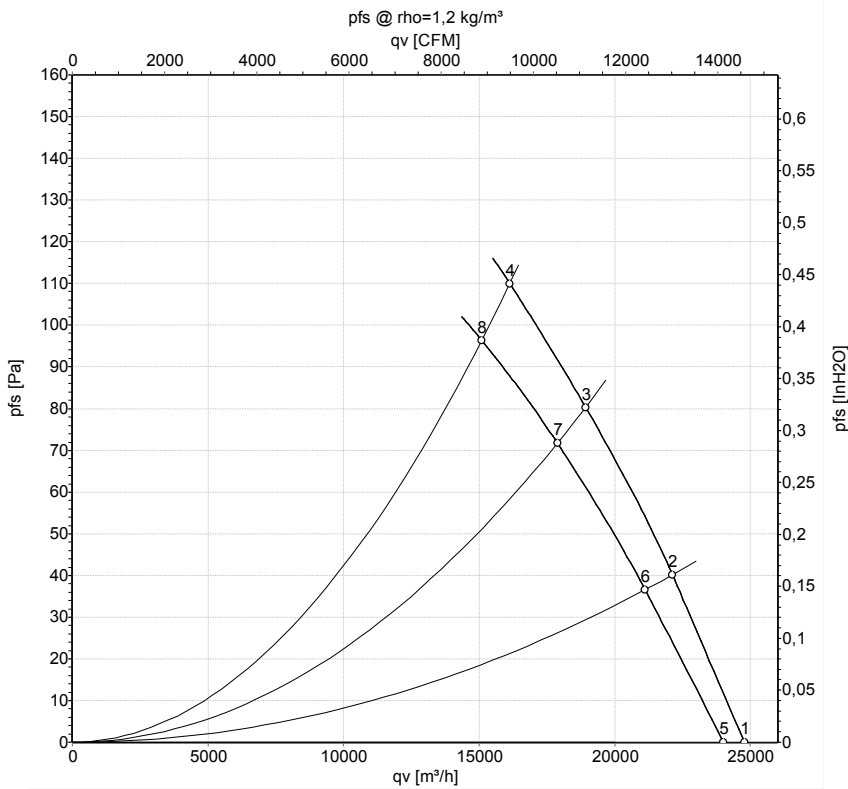
Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the 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	LpA _{in}	LwA _{in}	LwA _{out}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa
1	Y	400	50	710	618	2.15	64	71	71	20965	0
2	Y	400	50	700	727	2.22	62	69	69	18645	30
3	Y	400	50	690	818	2.30	61	68	67	15980	60
4	Y	400	50	675	920	2.40	64	71	70	12635	90

Wired = Wiring · U = Power supply · f = Frequency · n = Speed · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
 LwA_{out} = Sound power level outlet side · qv = Air flow · p_{fs} = Pressure increase

Curves: Air performance 60 Hz



Measurement: LU-118441-1
Measurement: LU-118440-1

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	LpA _{in}	LwA _{in}	LwA _{out}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa
1	Y	480	60	840	959	2.28	68	75	75	24780	0
2	Y	480	60	820	1134	2.44	66	73	73	22130	40
3	Y	480	60	805	1291	2.61	64	72	71	18925	80
4	Y	480	60	795	1420	2.75	66	73	73	16125	110
5	Y	400	60	810	864	2.05	67	74	74	24010	0
6	Y	400	60	785	1023	2.29	64	72	72	21120	37
7	Y	400	60	765	1158	2.50	63	70	70	17885	72
8	Y	400	60	740	1250	2.68	64	72	71	15095	97

Wired = Wiring · U = Power supply · f = Frequency · n = Speed · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
LwA_{out} = Sound power level outlet side · qv = Air flow · p_{fs} = Pressure increase