

A6D910-AB05-04 ebmpapst Datasheet

sales@fansco.com

www.fansco.com

Nominal data

Type	A6D910-AB05-04				
Motor	M6D138-NA				
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	925	1100	925	1100
Power consumption	W	1990	2870	1990	2870
Current draw	A	8.1	8.9	4.67	5.13
Max. back pressure	Pa	160	140	160	140
Min. ambient temperature	°C	-40	-40	-40	-40
Max. ambient temperature	°C	70	45	70	45
Starting current	A	33	37	19	21.5

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}	%	39.1	35.5	09 Power consumption P_e	kW	1.93
02 Measurement category		A		09 Air flow q_v	m ³ /h	18700
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	146
04 Efficiency grade N		43.6	40	10 Speed n	min ⁻¹	925
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 = $1 + p_g / 100\,000\text{ Pa}$

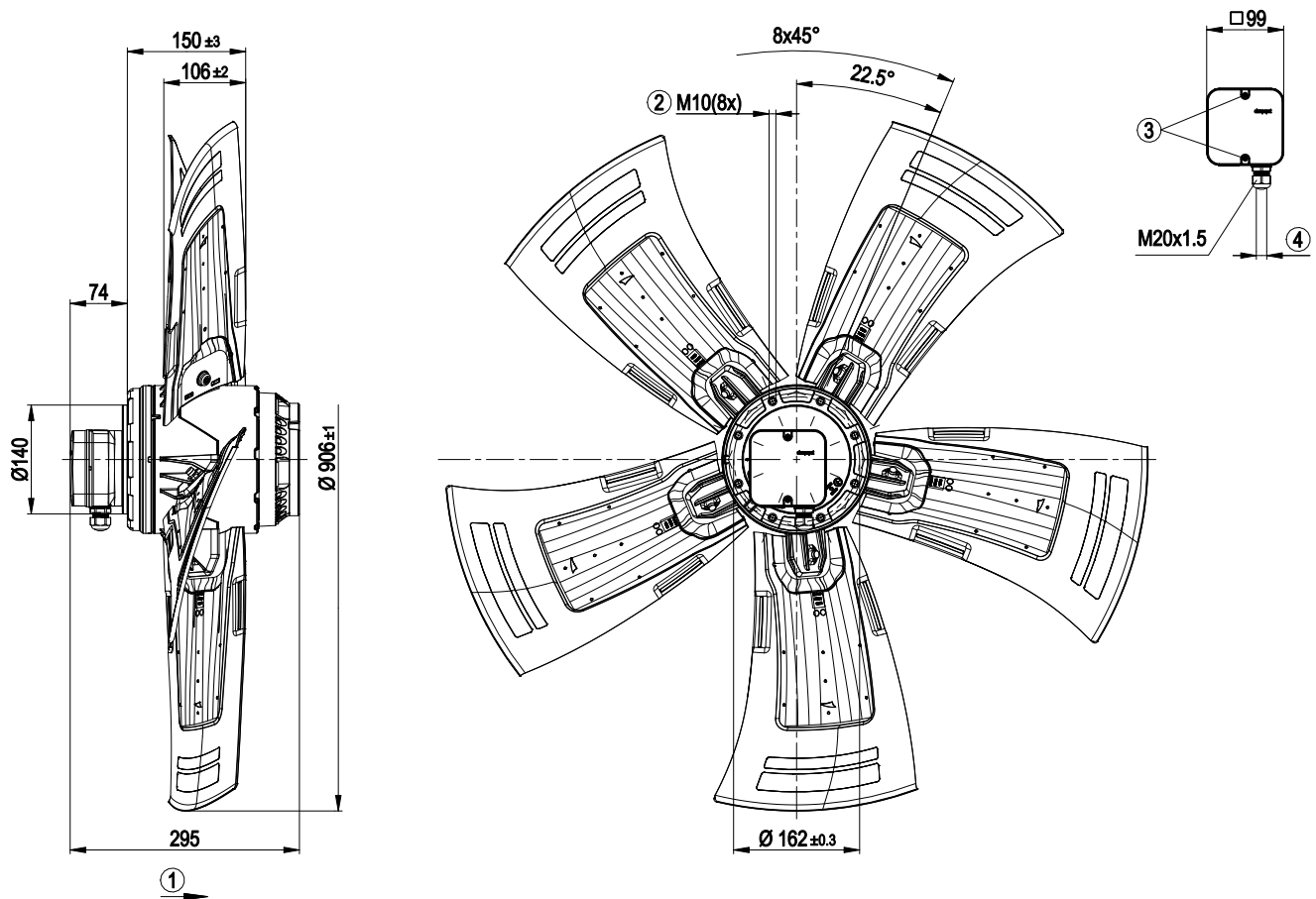
LU-118443



Technical description

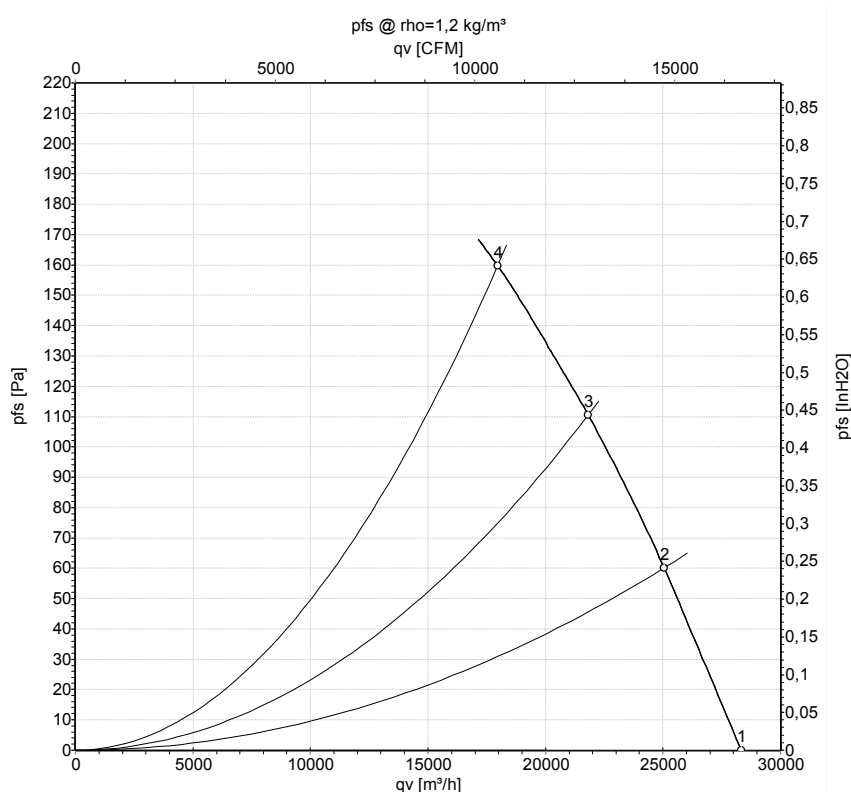
Weight	28 kg
Fan size	910 mm
Rotor surface	Cast in aluminum
Terminal box material	PP plastic
Blade material	Sheet aluminum insert, sprayed with PP plastic
Number of blades	5
Blade pitch	-5°
Airflow direction	"A"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54
Insulation 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 60034-1 (2010); 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

Curves: Air performance 50 Hz



Measurement: LU-118443-1

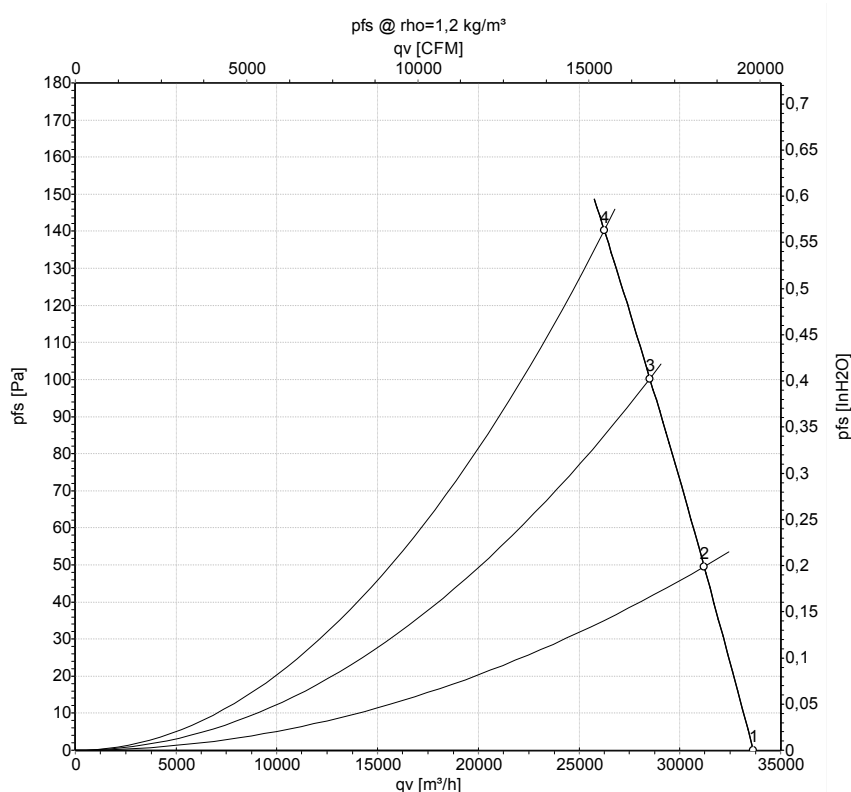
Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebmpapst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the 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	955	1284	3.98	71	79	79	28340	0
2	Y	400	50	945	1577	4.20	69	76	76	25050	60
3	Y	400	50	935	1782	4.41	68	75	75	21820	110
4	Y	400	50	925	1990	4.67	71	78	78	17965	160

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



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)	m ³ /h	Pa
1	Y	480	60	1130	2073	4.26	76	83	83	33645	0
2	Y	480	60	1120	2361	4.55	74	82	82	31205	50
3	Y	480	60	1110	2628	4.84	73	81	81	28515	100
4	Y	480	60	1100	2870	5.13	73	80	80	26250	140

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