

A6D910-AA01-06 ebmpapst Datasheet

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Nominal data

Type	A6D910-AA01-06		
Motor	M6D138-NA		
Phase		3~	3~
Nominal voltage	VAC	400	400
Connection		Δ	Y
Frequency	Hz	50	50
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed (rpm)	min ⁻¹	885	685
Power input	W	2480	1570
Current draw	A	5.15	2.9
Max. back pressure	Pa	150	90
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	50	50
Starting current	A	18.6	6.2

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}	%	36.1	36.1	09 Power input P_e	kW	2.46
02 Measurement category		A		09 Air flow q_v	m ³ /h	21770
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	142
04 Efficiency grade N		40	40	10 Speed (rpm) n	min ⁻¹	890
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 = $1 + p_g / 100\,000\text{ Pa}$

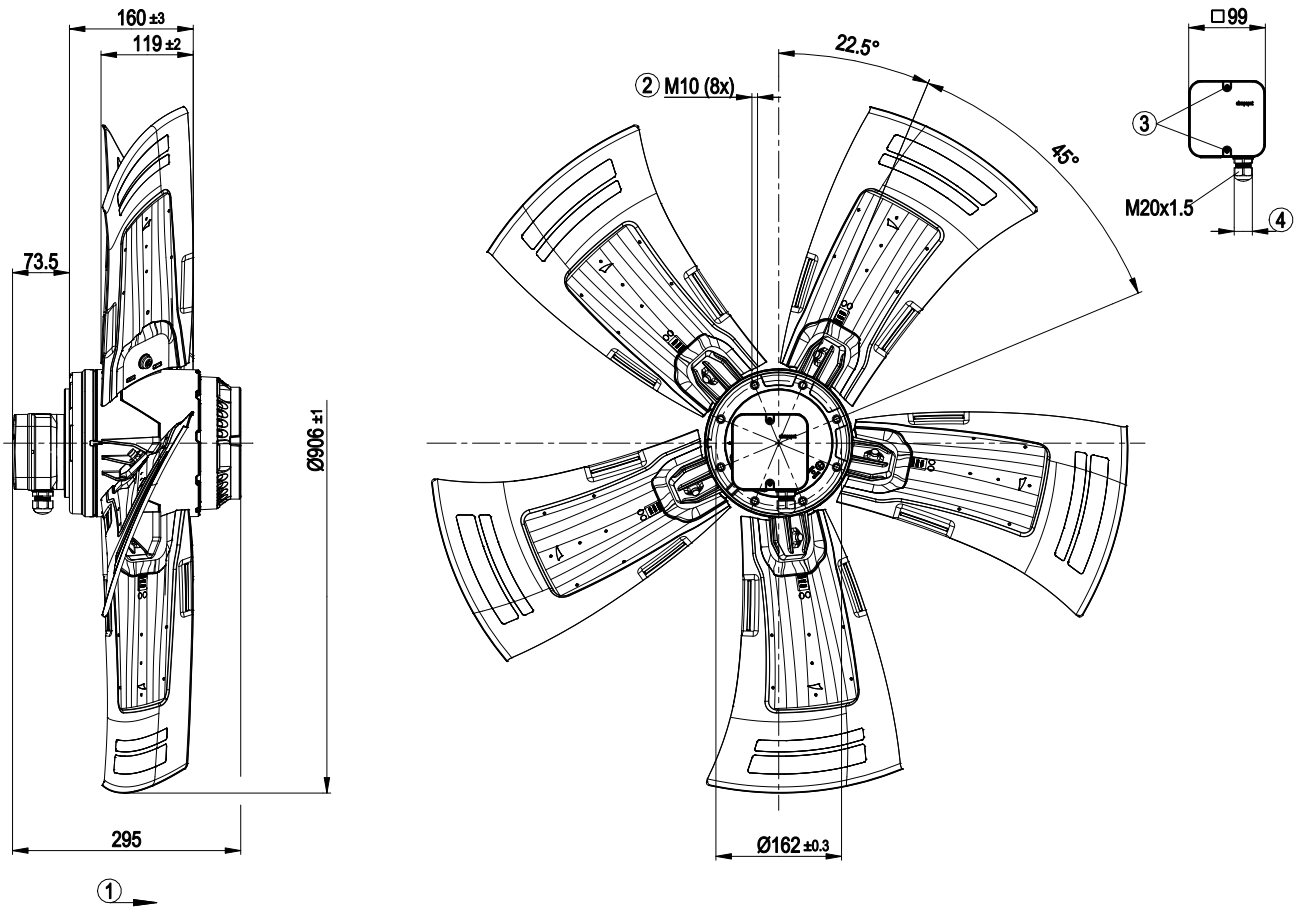
LU-136151



Technical features

Mass	28 kg
Size	910 mm
Surface of rotor	Cast in aluminium
Material of terminal box	PP plastic
Material of blades	Aluminium sheet insert, sprayed with PP plastic
Number of blades	5
Blade angle	0°
Direction of air flow	"A"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"F"
Humidity (F)/environmental protection class (H)	F4-2
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Any
Condensate discharge holes	On rotor and stator sides
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Electrical leads	Via terminal box
Motor protection	Thermal overload protector (TOP) brought out, basic insulation
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1; EN 60034-1 (2010); CE
Approval	VDE; EAC

Product drawing



1	Direction of air flow "A"
2	Depth of screw max. 18 mm
3	Tightening torque 1.5 ± 0.2 Nm
4	Cable diameter: min. 7 mm, max. 14 mm; tightening torque 2.0±0.30 Nm



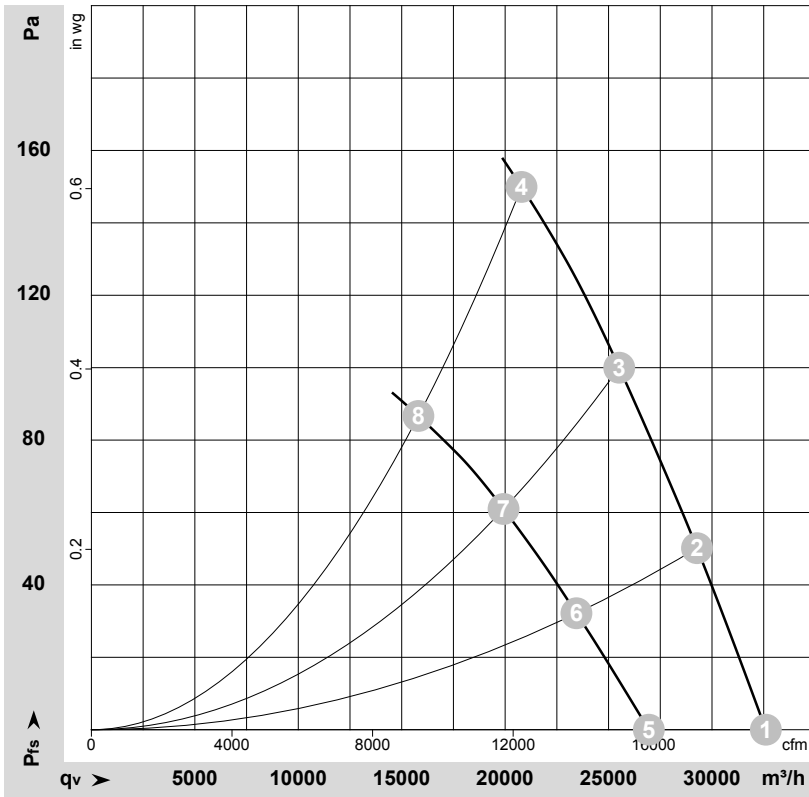
Connection screen



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



Charts: Air flow 50 Hz



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

Measurement: LU-136151-1
Measurement: LU-118398-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: L_{wA} measured as per ISO 13347 / L_{pA} 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}	LwA _{out}	q _v	P _{fs}	q _v	P _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m ³ /h	Pa	cfm	inH ₂ O
1	Δ	400	50	925	1848	4.31	70	78	78	32605	0	19190	0.00
2	Δ	400	50	910	2084	4.59	69	76	77	29275	50	17230	0.20
3	Δ	400	50	900	2298	4.86	68	76	76	25515	100	15020	0.40
4	Δ	400	50	885	2480	5.15	70	77	77	20790	150	12235	0.60
5	Y	400	50	785	1290	2.44	65	73	73	26945	0	15860	0.00
6	Y	400	50	745	1412	2.67	63	70	70	23445	32	13800	0.13
7	Y	400	50	715	1491	2.82	61	69	69	19925	61	11725	0.24
8	Y	400	50	685	1570	2.90	63	71	70	15805	87	9305	0.35

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
LwA_{out} = Sound power level outlet side · q_v = Air flow · P_{fs} = Pressure increase

