



A6D710-AQ01-01 ebmpapst Datasheet

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Nominal data

Type	A6D710-AQ01-01		
Motor	M6D110-IA		
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	880	670
Power input	W	840	530
Current draw	A	1.74	0.94
Max. back pressure	Pa	115	68
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	50	50
Starting current	A	5	1.7

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}	%	33	33	09 Power input P_e	kW	0.79
02 Measurement category		A		09 Air flow q_v	m ³ /h	9505
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	99
04 Efficiency grade N		40	40	10 Speed (rpm) n	min ⁻¹	885
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 = $1 + p_g / 100\,000\text{ Pa}$

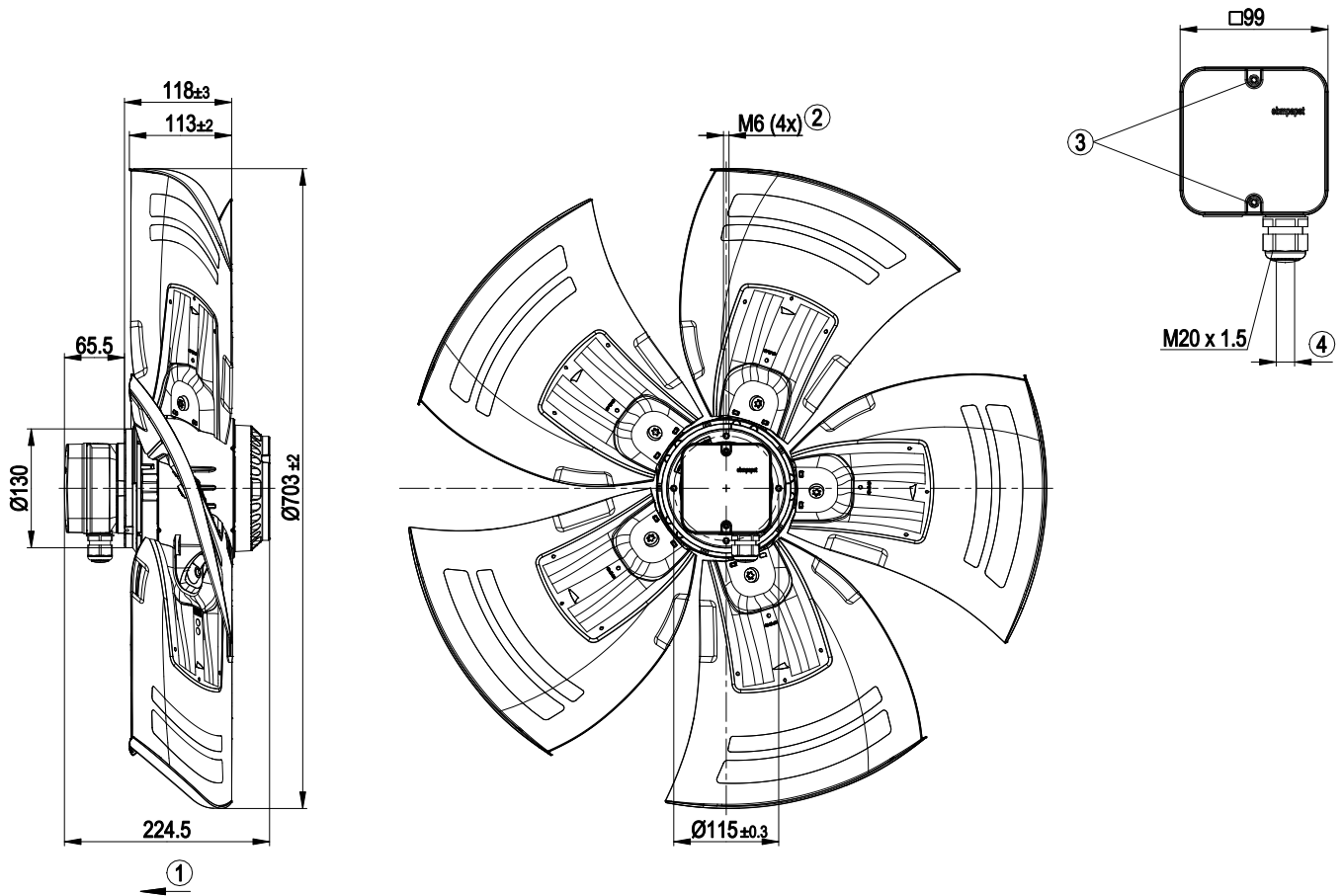
LU-108461



Technical features

Mass	12.5 kg
Size	710 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	-5°
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"F"
Humidity (F)/environmental protection class (H)	F3-1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
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
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1; CE
Approval	VDE; EAC; CCC

Product drawing



1	Direction of air flow "V"
2	Screw depth max. 12 mm
3	Tightening torque 1.5 ± 0.2 Nm
4	Cable diameter: min. 7 mm, max. 14 mm; tightening torque: 2 ± 0.3 Nm

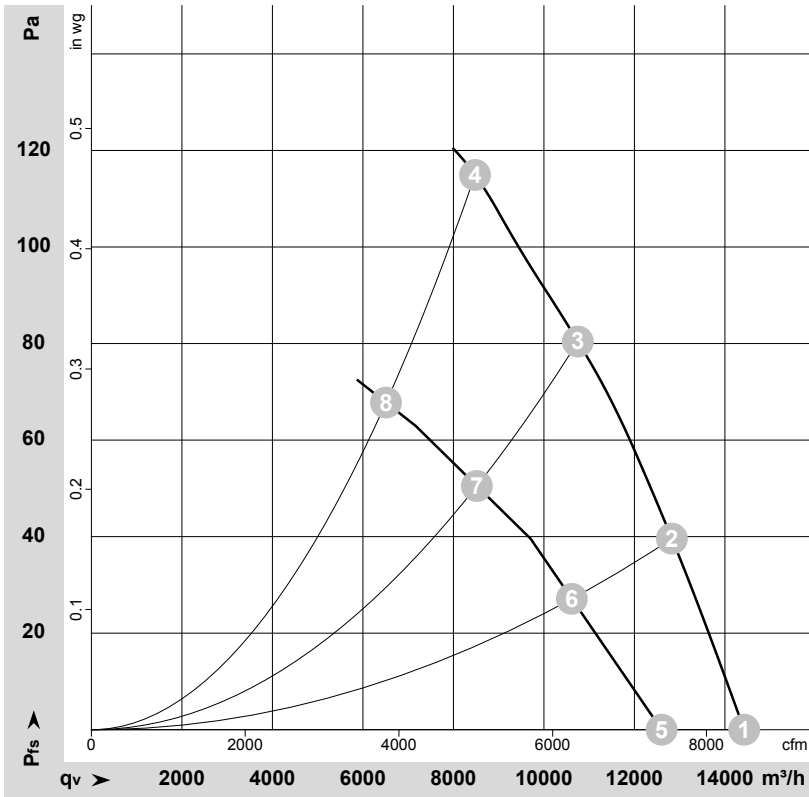


Connection screen



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-108461-1
Measurement: LU-113657-1

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: LwA measured as per ISO 13347 / LpA 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	935	521	1.45	66	73	72	14425	0	8490	0.00
2	Δ	400	50	915	630	1.52	63	69	69	12830	40	7550	0.16
3	Δ	400	50	895	747	1.64	61	68	67	10750	80	6325	0.32
4	Δ	400	50	880	840	1.74	65	71	71	8475	115	4990	0.46
5	Y	400	50	810	377	0.69	63	69	69	12600	0	7415	0.00
6	Y	400	50	755	436	0.78	59	65	64	10615	27	6250	0.11
7	Y	400	50	705	487	0.86	57	63	62	8520	50	5015	0.20
8	Y	400	50	670	530	0.94	59	65	65	6510	68	3830	0.27

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

