

A8D710-AN03-01 ebmpapst Datasheet

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Nominal data

Type	A8D710-AN03-01		
Motor	M8D110-GF		
Phase		1~	1~
Nominal voltage	VAC	400	400
Wiring		Δ	Y
Frequency	Hz	50	50
Method of obtaining data		ml	ml
Valid for approval/standard		-	-
Speed (rpm)	min ⁻¹	645	475
Power consumption	W	440	240
Current draw	A	1.06	0.48
Max. back pressure	Pa	64	35
Max. back pressure	inH ₂ O	0.26	0.14
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	50	50
Starting current	A	2.2	

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



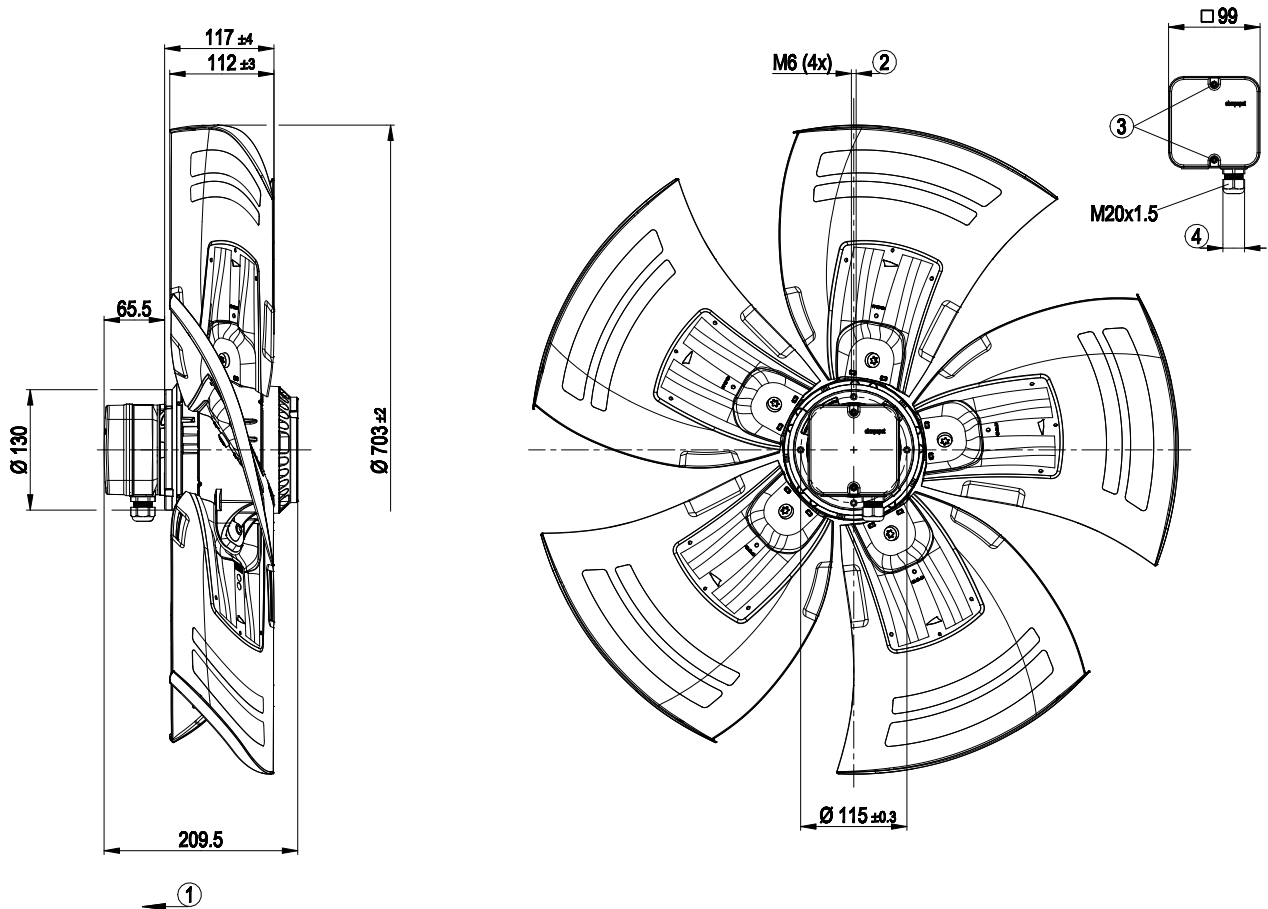
Technical description

Weight	10.9 kg
Fan size	710 mm
Rotor surface	Cast in aluminum
Terminal box material	PP plastic, black
Blade material	Sheet aluminum insert, sprayed with PP plastic
Number of blades	5
Blade pitch	-5°
Airflow direction	"V"
Direction of rotation	Clockwise, 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	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
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 61800-5-1
Approval	VDE; EAC

AC axial fan

sickle-shaped blades (S series)

Product drawing



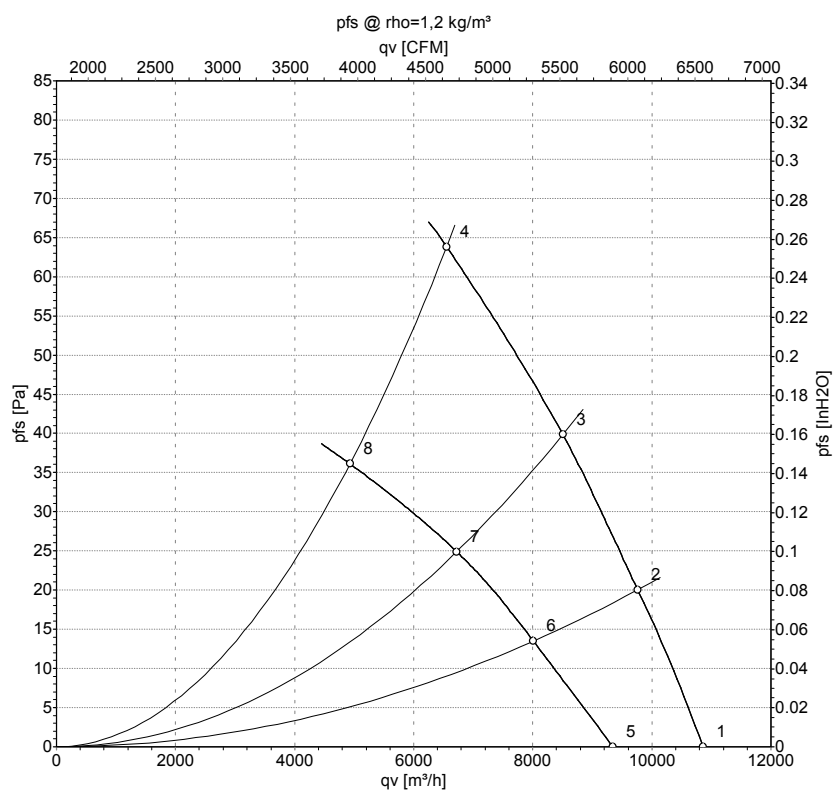
1	Direction of air flow "V"
2	Max. clearance for screw 12 mm
3	Tightening torque 1.5 ± 0.2 Nm
4	Cable diameter: min. 6 mm, max. 12 mm, tightening torque 2 ± 0.3 Nm

The left diagram shows a circuit with 9 qubits (U1 to PE) and 4 control lines (L2, L1, L3, PE). The control lines are connected to the qubits as follows: L2 to U1, L1 to V1, L3 to W1, and PE to the final qubit. The qubits are arranged in a row, and the control lines are connected to them in a specific pattern.

The right diagram shows a similar circuit but with different control line connections. The control lines are connected to the qubits as follows: L2 to U1, L1 to V1, L3 to W1, and PE to the final qubit. The qubits are arranged in a row, and the control lines are connected to them in a specific pattern.

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-111163-1
Measurement: LU-113658-1

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}	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa	cfm	inH2O
1	Δ	400	50	700	312	1.00	60	66	65	10865	0	6395	0.00
2	Δ	400	50	685	351	1.00	57	63	62	9760	20	5745	0.08
3	Δ	400	50	670	390	1.02	55	61	60	8505	40	5005	0.16
4	Δ	400	50	645	440	1.06	57	64	63	6555	64	3855	0.26
5	Y	400	50	600	186	0.38	56	62	61	9345	0	5500	0.00
6	Y	400	50	560	209	0.41	52	58	57	8010	14	4715	0.06
7	Y	400	50	530	228	0.44	50	57	56	6720	25	3955	0.10
8	Y	400	50	475	240	0.48	51	58	58	4930	36	2900	0.14

Wired = Wiring · U = Power supply · f = Frequency · n = Speed (rpm) · 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 · q_v = Air flow · p_{fs} = Pressure increase