



A8D500-AJ03-01 ebmpapst Datasheet
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Nominal data

Type	A8D500-AJ03-01						
Motor	M8D110-EF						
Phase		3~	3~	3~	3~	3~	3~
Nominal voltage	VAC	400	400	400	400	480	480
Connection		Δ	Y	Δ	Y	Δ	Y
Frequency	Hz	50	50	60	60	60	60
Type of data definition		ml	ml	ml	ml	ml	ml
Valid for approval / standard		-	-	-	-	-	-
Speed	min ⁻¹	680	560	775	540	810	630
Power input	W	150	90	180	110	210	140
Current draw	A	0.4	0.18	0.38	0.20	0.41	0.22
Max. back pressure	Pa	40	28	50	25	55	35
Min. ambient temperature	°C	-40	-40	-40	-40	-40	-40
Max. ambient temperature	°C	65	65	65	65	65	65
Starting current	A	0.87				0.95	

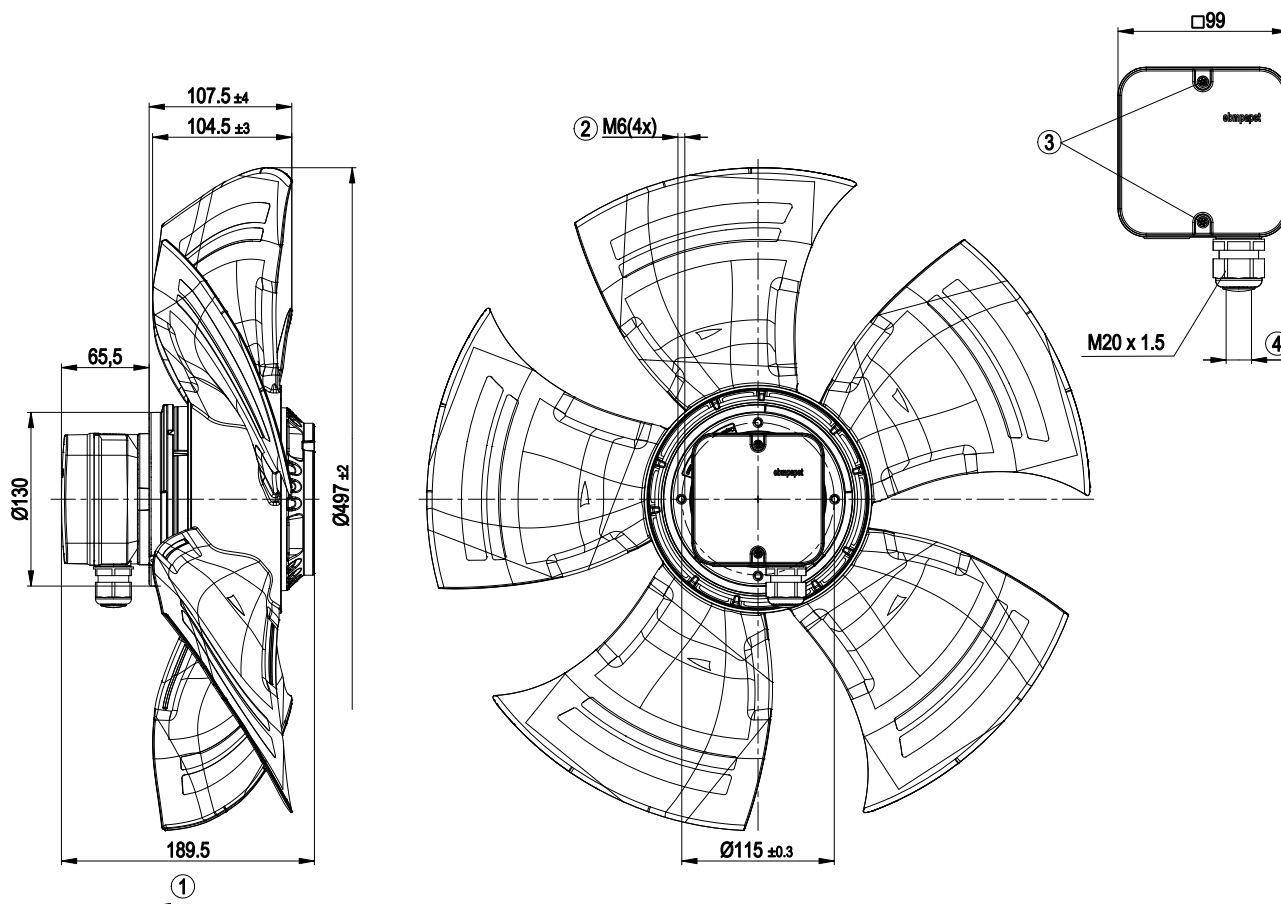
ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations



Technical features

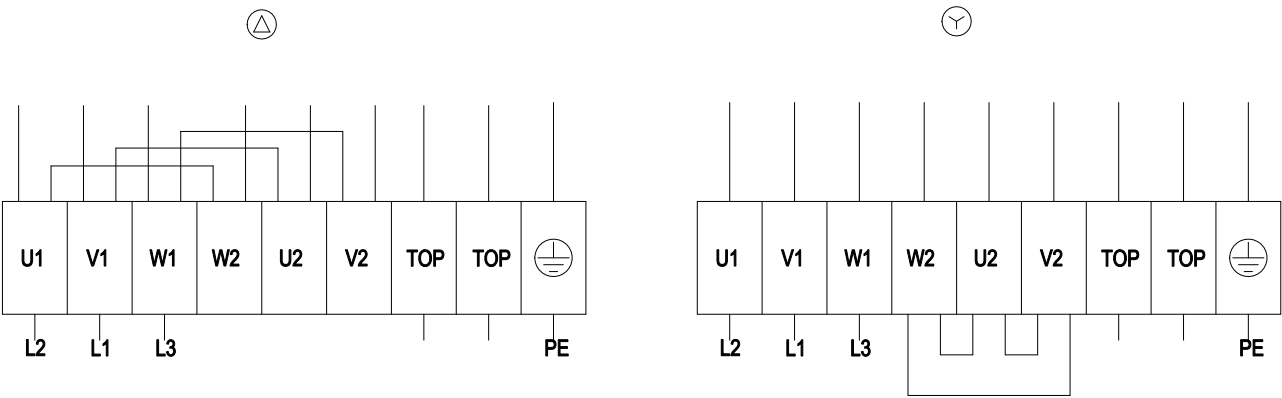
Mass	7.4 kg
Size	500 mm
Surface of rotor	Coated in black
Material of terminal box	PP plastic
Material of blades	Press-fitted sheet steel blank, sprayed with PP plastic
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"F"
Humidity class	F4-1
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
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1
Approval	CCC; VDE; GOST

Product drawing



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

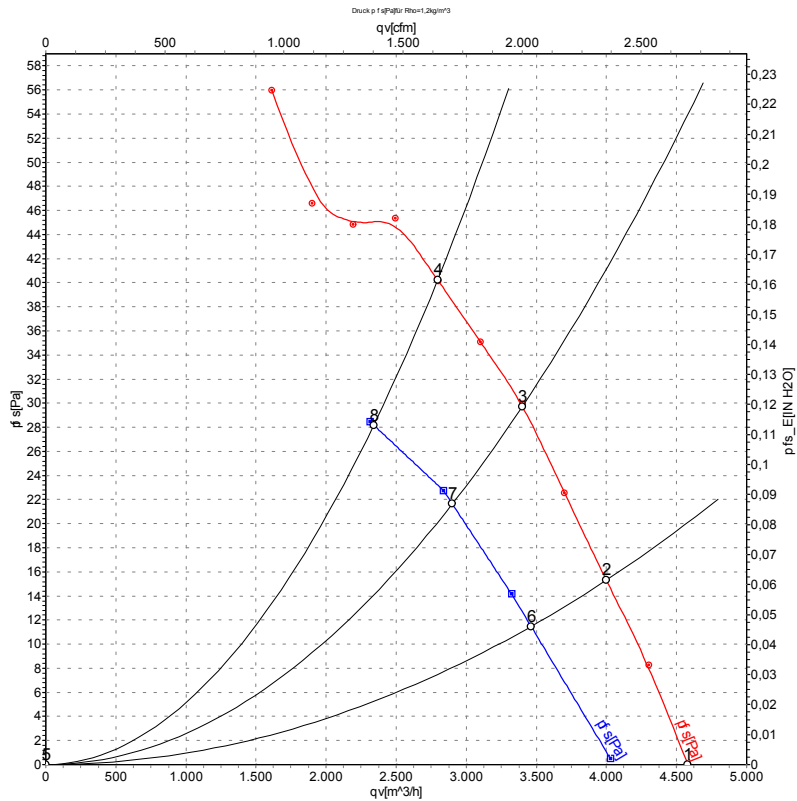
Connection screen



△	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



Measurement: LU-106642
Measurement: LU-106797

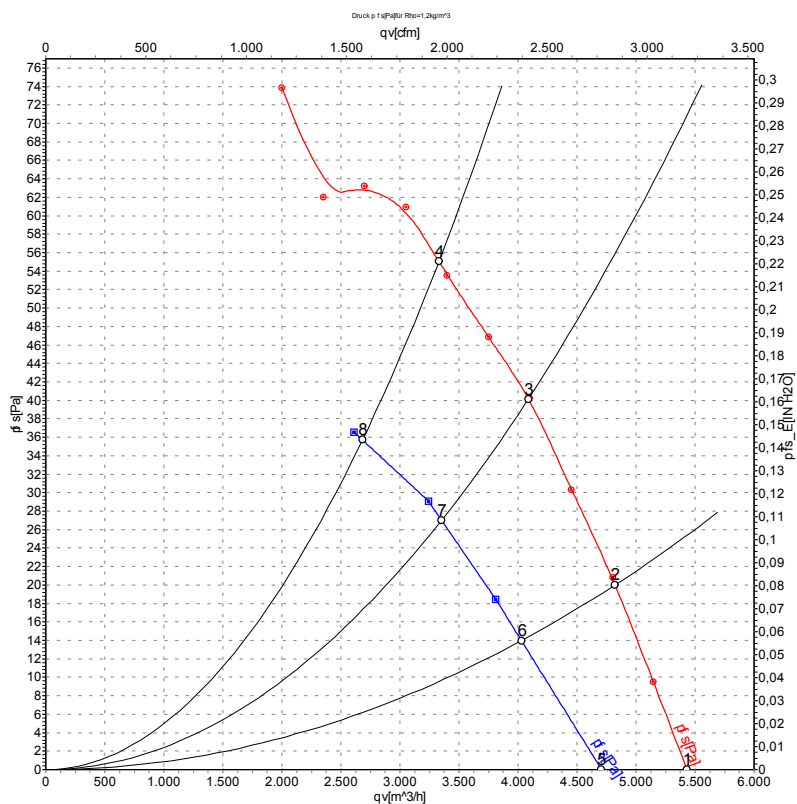
Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: L_{WA} measured as per ISO 13347 / L_{pA} measured with 1m distance to fan axis. The values given are valid under the measuring conditions 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}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa
1	Δ	400	50	710	116	0.37	56	62	62	4580	0
2	Δ	400	50	700	126	0.37	52	58	58	4000	15
3	Δ	400	50	695	134	0.38	49	55	55	3400	30
4	Δ	400	50	680	150	0.40	48	54	54	2795	40
5	Y	400	50	630	72	0.14	54	60	60	4035	0
6	Y	400	50	610	79	0.16	49	55	55	3460	12
7	Y	400	50	590	85	0.16	45	51	51	2900	22
8	Y	400	50	560	90	0.18	43	50	50	2340	28

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · 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 · qv = Air flow · p_{fs} = Pressure increase

Charts: Air flow 60 Hz



Measurement: LU-106643
Measurement: LU-113765

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}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa
1	Δ	480	60	840	163	0.38	59	65	65	5430	0
2	Δ	480	60	830	179	0.39	55	61	61	4820	20
3	Δ	480	60	820	193	0.40	53	59	59	4090	40
4	Δ	480	60	810	210	0.41	52	59	58	3330	55
5	Y	480	60	725	108	0.17	56	62	62	4710	0
6	Y	480	60	695	118	0.19	52	58	58	4030	14
7	Y	480	60	670	127	0.20	48	54	54	3355	27
8	Y	480	60	630	140	0.22	46	53	53	2685	36

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · 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 · qv = Air flow · p_{fs} = Pressure increase