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Nominal data

Type	A4D500-AJ03-01		
Motor	M4D110-EF		
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	min ⁻¹	1340	1060
Power input	W	710	480
Current draw	A	1.4	0.8
Max. back pressure	Pa	140	87
Max. ambient temperature	°C	60	60

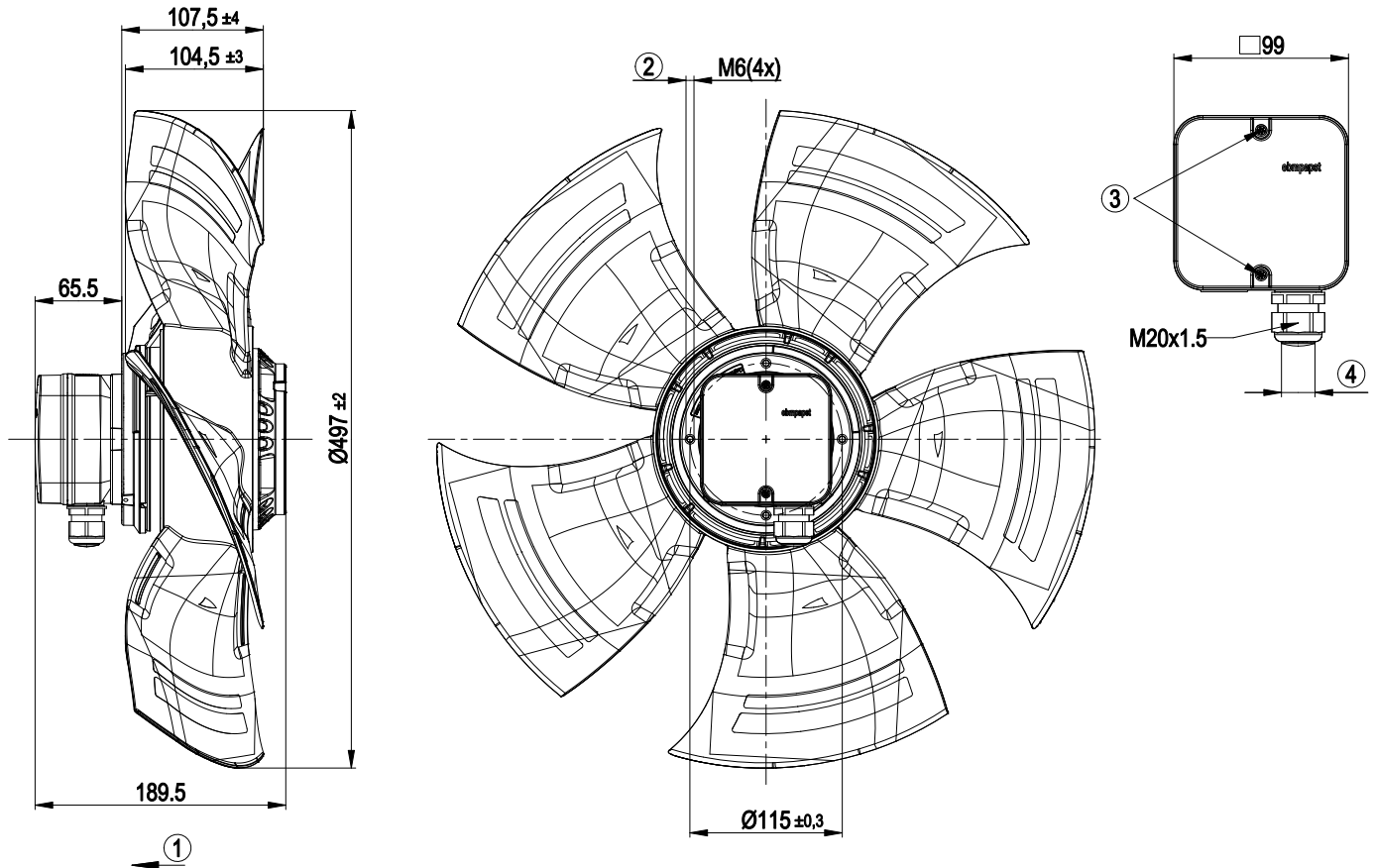
ml = max. load · me = max. efficiency · rfa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations



Technical features

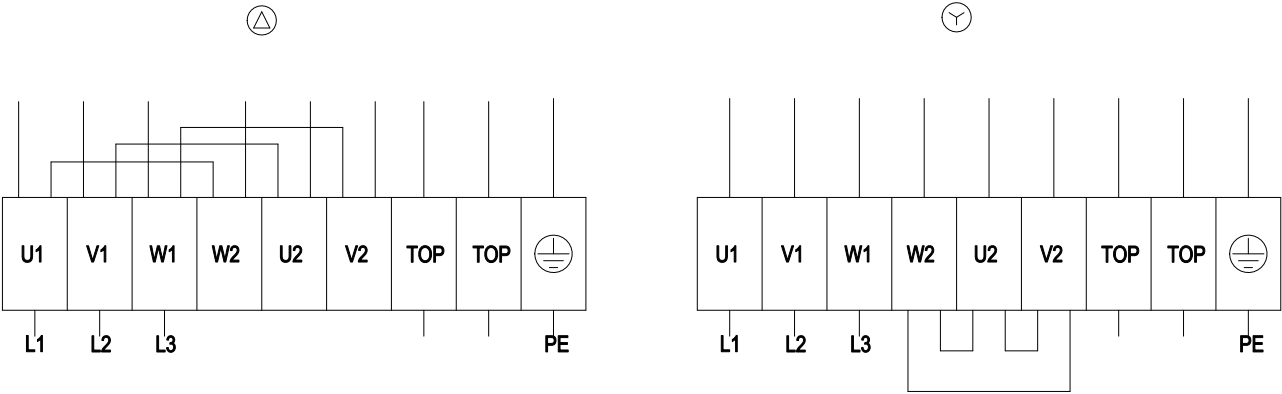
Mass	8.5 kg
Size	500 mm
Surface of rotor	Coated in black
Material of terminal box	PP plastic, black
Material of blades	Press-fitted sheet steel blank, sprayed with PP plastic
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54
Insulation 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
Leakage current	<= 3.5 mA
Electrical leads	Via terminal box
Motor protection	Thermal overload protector (TOP) brought out
Cable exit	Axial
Protection class	I
Product conforming to standard	EN 61800-5-1; CE
Approval	GOST; VDE

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: 2±0.3 Nm

Connection screen

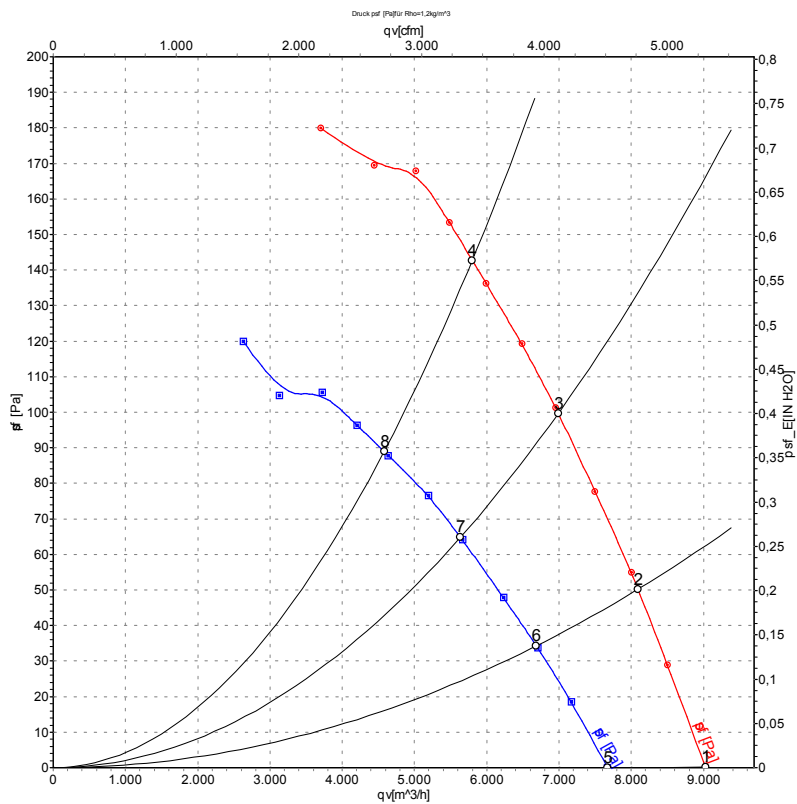


Note: Direction of rotation changes when two phases are reversed

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



Charts: Air flow 50 Hz



Measurement: LU-105607
Measurement: LU-105610

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	$L_{pA_{in}}$	$L_{wA_{in}}$	$L_{wA_{out}}$	q_v	p_{sf}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa
1	Δ	400	50	1395	537	1.25	68	75	75	9030	0
2	Δ	400	50	1375	599	1.30	65	72	72	8095	50
3	Δ	400	50	1360	657	1.34	64	71	71	6990	100
4	Δ	400	50	1340	710	1.40	64	71	71	5800	140
5	Y	400	50	1180	393	0.65	65	71	71	7670	0
6	Y	400	50	1135	429	0.71	61	68	68	6685	34
7	Y	400	50	1095	457	0.76	59	66	66	5635	65
8	Y	400	50	1060	480	0.80	58	65	65	4580	87