



### Nominal data

Type	A4D500-AM01-03						
Motor	M4D110-GF						
Phase		3~	3~	3~	3~	3~	3~
Nominal voltage	VAC	230	230	277	400	400	480
Connection		Δ	Δ	Δ	Y	Y	Y
Frequency	Hz	50	60	60	50	60	60
Type of data definition		ml	ml	ml	ml	ml	ml
Valid for approval / standard		CE	CE	CE	CE	CE	CE
Speed	min <sup>-1</sup>	1350	1510	1590	1350	1510	1590
Power input	W	690	950	1050	690	950	1050
Current draw	A	2.34	2.77	2.72	1.35	1.6	1.57
Max. back pressure	Pa	155	145	160	155	145	160
Min. ambient temperature	°C	-40	-40	-40	-40	-40	-40
Max. ambient temperature	°C	65	60	60	65	60	60
Starting current	A	17.3	16.6		10	9.6	

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

Installation category	A	Overall efficiency $\eta_{es}$	Actual	Request 2013	Request 2015
Efficiency category	Static	Efficiency grade N	33.3	28.5	32.5
Variable speed drive	No	Power input $P_e$	40.8	36	40
Specific ratio*	1.00	Power input $P_e$	kW	0.66	
		Air flow $q_v$	m <sup>3</sup> /h	5985	
		Pressure increase $p_{fs}$	Pa	134	
		Speed n	min <sup>-1</sup>	1355	

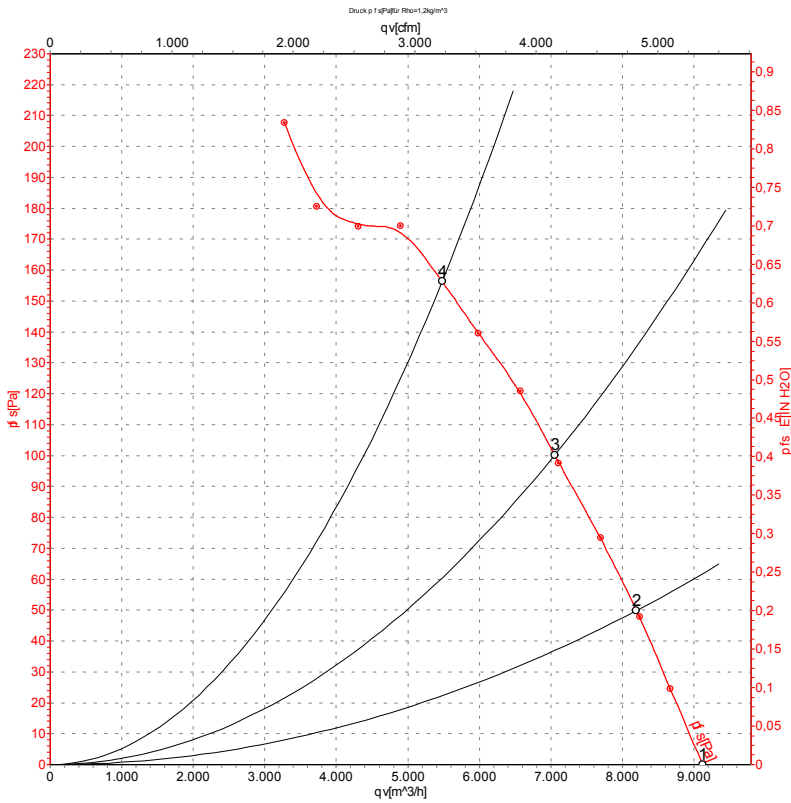
Data established at point of optimum efficiency



## Technical features

<b>Mass</b>	9.8 kg
<b>Size</b>	500 mm
<b>Surface of rotor</b>	Coated in black
<b>Material of terminal box</b>	PC / ABS plastic
<b>Material of blades</b>	Press-fitted sheet steel blank, sprayed with PP plastic
<b>Number of blades</b>	5
<b>Direction of air flow</b>	"V"
<b>Direction of rotation</b>	Counter-clockwise, seen on rotor
<b>Type of protection</b>	IP 54
<b>Insulation class</b>	"F"
<b>Humidity class</b>	F4-1
<b>Max. permissible ambient motor temp. (transp./ storage)</b>	+ 80 °C
<b>Min. permissible ambient motor temp. (transp./storage)</b>	- 40 °C
<b>Mounting position</b>	Shaft horizontal or rotor on bottom; rotor on top on request
<b>Condensate discharge holes</b>	Rotor-side
<b>Operation mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)</b>	<= 3.5 mA
<b>Electrical leads</b>	Via terminal box
<b>Motor protection</b>	Thermal overload protector (TOP) brought out
<b>Cable exit</b>	Axial
<b>Protection class</b>	I (if protective earth is connected by customer)
<b>Product conforming to standard</b>	EN 61800-5-1; CE
<b>Approval</b>	CSA C22.2 Nr.100; VDE; GOST; CCC; UL 1004-1

## Charts: Air flow 50 Hz



Measurement: LU-110665

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<sub>wA</sub> measured as per ISO 13347 / L<sub>pA</sub> 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 <sub>e</sub>	I	L <sub>pA<sub>in</sub></sub>	L <sub>wA<sub>in</sub></sub>	L <sub>wA<sub>out</sub></sub>	qv	p <sub>f</sub>
		V	Hz	min <sup>-1</sup>	W	A	dB(A)	dB(A)	dB(A)	m <sup>3</sup> /h	Pa
1	Y	400	50	1400	505	1.15	68	75	75	9120	0
2	Y	400	50	1380	567	1.22	66	72	73	8195	50
3	Y	400	50	1365	623	1.27	64	71	71	7055	100
4	Y	400	50	1350	690	1.35	65	72	72	5480	155

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · L<sub>pA<sub>in</sub></sub> = Sound pressure level inlet side · L<sub>wA<sub>in</sub></sub> = Sound power level inlet side  
 L<sub>wA<sub>out</sub></sub> = Sound power level outlet side · qv = Air flow · p<sub>f</sub> = Pressure increase

