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Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142**Nominal data**

Type	W4D500-GM03-10			
Motor	M4D110-GF			
Phase		3~	3~	3~
Nominal voltage	VAC	400	400	460
Connection		Δ	Y	Δ
Frequency	Hz	50	50	60
Type of data definition		ml	ml	ml
Valid for approval / standard		CE	CE	CE
Speed	min ⁻¹	1390	1180	1640
Power input	W	720	550	1060
Current draw	A	1.41	0.95	1.64
Max. back pressure	Pa	140	100	138
Min. ambient temperature	°C	-40	-40	-40
Max. ambient temperature	°C	65	65	60
Starting current	A	6.5		

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
Efficiency category	Static
Variable speed drive	No
Specific ratio*	1.00

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

	Actual	Request 2013	Request 2015
Overall efficiency η_{es}	33.4	28.8	32.8
Efficiency grade N	40.6	36	40
Power input P_e	kW	0.73	
Air flow q_v	m ³ /h	5860	
Pressure increase p_{fs}	Pa	151	
Speed n	min ⁻¹	1385	

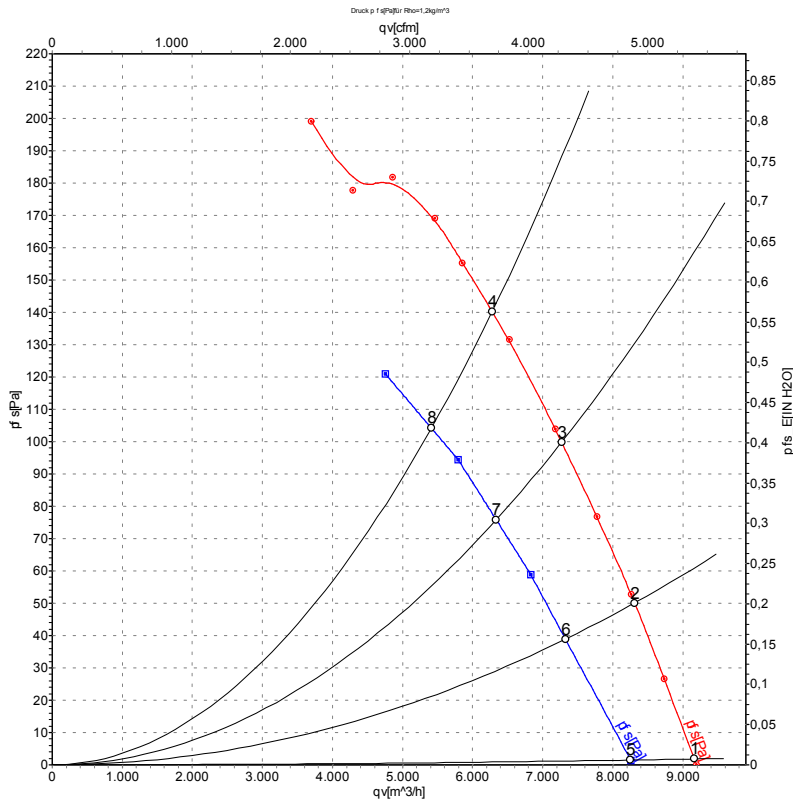
Data established at point of optimum efficiency



Technical features

Mass	16.2 kg
Size	500 mm
Surface of rotor	Coated in black
Material of terminal box	PC / ABS plastic
Material of blades	Press-fitted sheet steel blank, sprayed with PP plastic
Material of wall ring	Sheet steel, pre-galvanised and coated in black plastic (RAL 9005)
Material of guard grille	Steel, coated in black plastic (RAL9005)
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; CE
Approval	CCC; GOST; UL 1004-1; CSA C22.2 Nr.100

Charts: Air flow 50 Hz



Measurement: LU-106631
Measurement: LU-106885

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	Pe	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	1420	540	1.21	68	75	75	9195	0
2	Δ	400	50	1410	603	1.28	66	72	73	8315	50
3	Δ	400	50	1400	659	1.34	64	71	71	7270	100
4	Δ	400	50	1390	720	1.41	65	71	71	6280	140
5	Y	400	50	1275	433	0.71		72	73	8255	0
6	Y	400	50	1245	476	0.78		70	70	7325	39
7	Y	400	50	1215	515	0.84		68	68	6335	76
8	Y	400	50	1180	550	0.95		68	68	5410	104

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

