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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	W4D450-CO14-01				
Motor	M4D094-HA				
Phase		3~	3~	3~	3~
Nominal voltage	VAC	400	400	400	400
Connection		Δ	Y	Δ	Y
Frequency	Hz	50	50	60	60
Type of data definition		ml	ml	ml	ml
Valid for approval / standard		CE	CE	CE	CE
Speed	min ⁻¹	1360	1110	1510	1060
Power input	W	480	340	690	400
Current draw	A	0.98	0.58	1.2	0.72
Max. back pressure	Pa	140	90	145	70
Min. ambient temperature	°C	-40	-40	-40	-40
Max. ambient temperature	°C	65	65	50	50
Starting current	A	3.9	1.3	3.5	1.2

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 η_{es}	Actual	Request 2013	Request 2015
Efficiency category	Static	Efficiency grade N	35.4	27.5	31.5
Variable speed drive	No	Power input P_e	43.9	36	40
Specific ratio*	1.00	kW	0.46		
		Air flow q_v			
		m ³ /h	4530		
		Pressure increase p_{fs}			
		Pa	133		
		Speed n			
		min ⁻¹	1365		

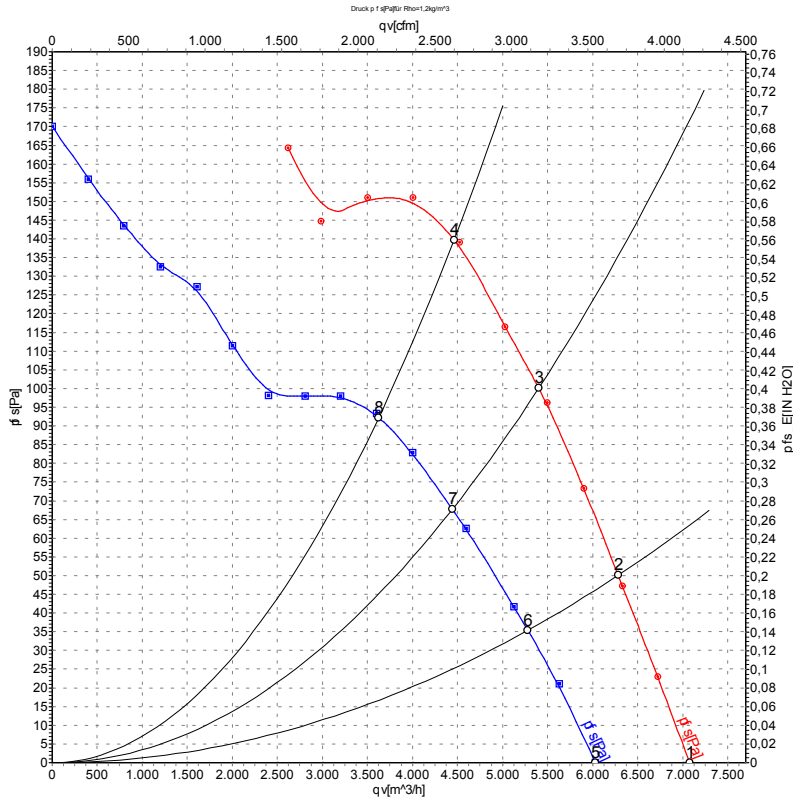
Data established at point of optimum efficiency



Technical features

Mass	12.5 kg
Size	450 mm
Surface of rotor	Coated in black
Material of terminal box	ABS plastic, black
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
Material of guard grille	Steel, phosphated and coated in black 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
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60034-1 (2004); CE
Approval	CCC

Charts: Air flow 50 Hz



Measurement: LU-107893
Measurement: LU-107309

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	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	1400	386	0.88	65	71		7080	0
2	Δ	400	50	1385	422	0.91	62	68		6285	50
3	Δ	400	50	1370	453	0.95	61	68		5400	100
4	Δ	400	50	1360	480	0.98	62	68		4460	140
5	Y	400	50	1195	285	0.49	63	68	69	6030	0
6	Y	400	50	1160	308	0.52	59	65	65	5280	35
7	Y	400	50	1130	326	0.55	57	64	64	4445	68
8	Y	400	50	1110	340	0.58	57	64	64	3625	93

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

