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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	S6E450-AU04-01		
Motor	M6E094-EA		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		ml	ml
Valid for approval / standard		CE	CE
Speed	min ⁻¹	900	990
Power input	W	190	260
Current draw	A	0.86	1.16
Motor capacitor	µF	5	5
Capacitor voltage	VDB	450	450
Max. back pressure	Pa	60	75
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	65	65

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}	%	25.2	25	29
Efficiency grade N		36.2	36	40
Power input P_e	kW	0.18		
Air flow q_v	m ³ /h	3085		
Pressure increase p_{fs}	Pa	56		
Speed n	min ⁻¹	900		

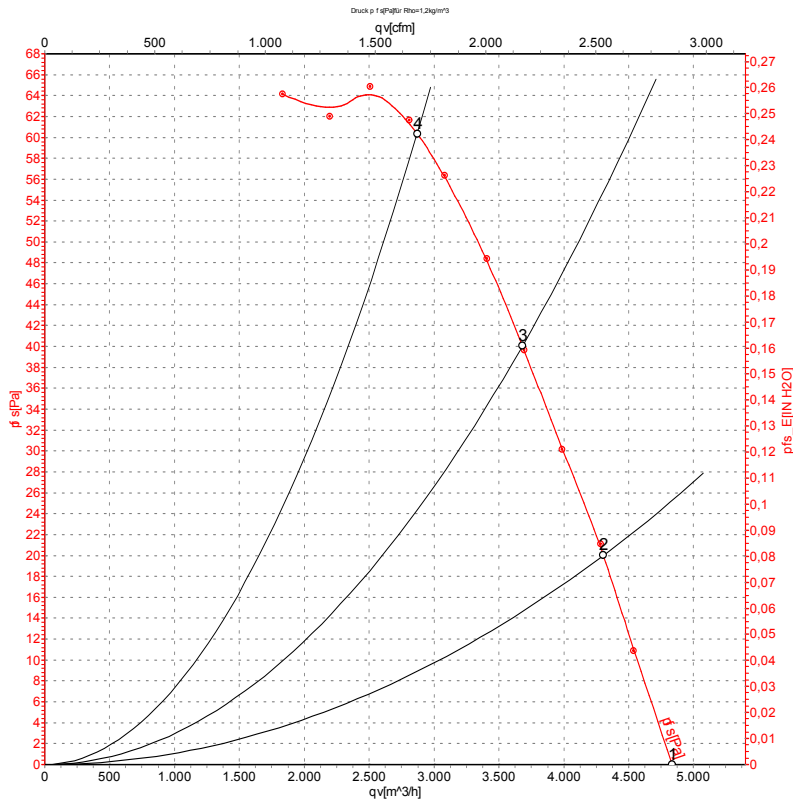
Data definition with optimum efficiency.
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



Technical features

Mass	7 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 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, integrated capacitor connected via terminal box
Motor protection	Thermal overload protector (TOP) wired internally
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	CE
Approval	CCC; GOST

Charts: Air flow 50 Hz



Measurement: LU-106691

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

	U	f	n	P_e	I	L_{pA}_{in}	L_{wA}_{in}	L_{wA}_{out}	q_v	p_{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m ³ /h	Pa
1	230	50	925	171	0.79	56	61	62	4830	0
2	230	50	915	180	0.82	55	60	60	4305	20
3	230	50	905	186	0.84	54	59	60	3680	40
4	230	50	900	190	0.86	53	59	59	2870	60

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · L_{pA}_{in} = Sound pressure level inlet side · L_{wA}_{in} = Sound power level inlet side · L_{wA}_{out} = Sound power level outlet side
 q_v = Air flow · p_{fs} = Pressure increase

