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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-AP02-01		
Motor	M6E074-GA		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		fa	fa
Valid for approval / standard		CE	CE
Speed	min ⁻¹	940	1070
Power input	W	165	225
Current draw	A	0.8	0.98
Motor capacitor	µF	4	4
Capacitor voltage	VDB	450	450
Max. back pressure	Pa	70	45
Max. ambient temperature	°C	60	60
Starting current	A	1.5	1.4

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	25	25	29
Variable speed drive	No	Power input P_e	36	36	40
Specific ratio*	1.00	kW	0.18		
		Air flow q_v	3105		
		Pressure increase p_{fs}	51		
		Speed n	895		
		min ⁻¹			

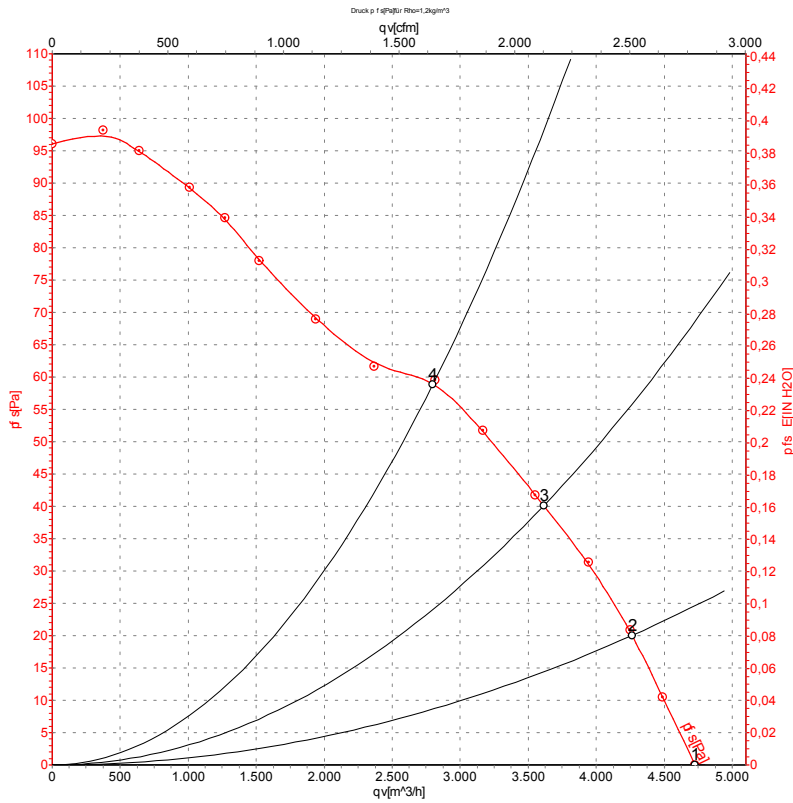
Data established at point of optimum efficiency



Technical features

Mass	7.19 kg
Size	450 mm
Surface of rotor	Coated in black
Material of impeller	Sheet steel, coated in black
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 44; Depending on installation and position
Insulation class	"F"
Humidity class	F1-2
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)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	CCC; GOST

Charts: Air flow 50 Hz



Measurement: LU-33158

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

	U	f	n	P _e	I	qv	P _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa
1	230	50	940	165	0.80	4725	0
2	230	50	925	173	0.82	4265	20
3	230	50	910	180	0.85	3615	40
4	230	50	895	190	0.89	2800	60

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · P_{fs} = Pressure increase

