

8317073739

# AC axial fan

sickled blades (S series)  
with guard grille for short nozzle



8317073739 ebmpapst Datasheet FansCo  
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## Nominal data

Type	8317073739	
Motor	M4E074-EI	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		fa
Valid for approval / standard		CE
Speed	min <sup>-1</sup>	1430
Power input	W	160
Current draw	A	0.73
Motor capacitor	µF	6
Capacitor voltage	VDB	400
Max. back pressure	Pa	150
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60
Starting current	A	2.0

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 =  $1 + p_g / 100\,000\text{ Pa}$

		Actual	Request 2013	Request 2015
Overall efficiency $\eta_{es}$	%	31.9	25.3	29.3
Efficiency grade N		42.6	36	40
Power input $P_e$	kW	0.2		
Air flow $q_v$	m <sup>3</sup> /h	2675		
Pressure increase $p_{fs}$	Pa	90		
Speed n	min <sup>-1</sup>	1390		

Data definition with optimum efficiency. LU-30924  
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

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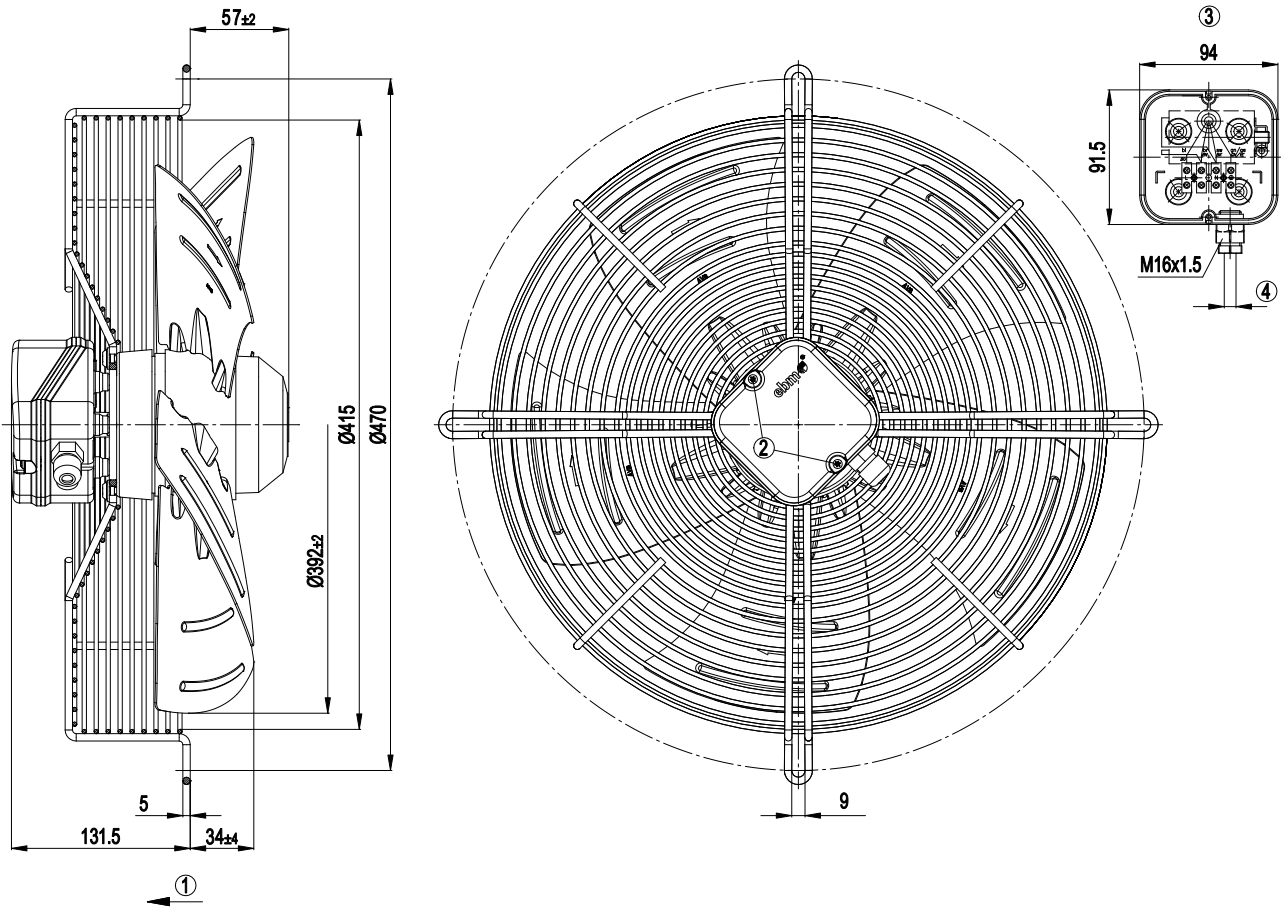
## Technical features

<b>Mass</b>	5.9 kg
<b>Size</b>	400 mm
<b>Surface of rotor</b>	Coated in black
<b>Material of terminal box</b>	ABS plastic, black
<b>Material of blades</b>	Sheet steel, coated in black
<b>Material of guard grille</b>	Steel, phosphated and coated in black 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 44; Depending on installation and position as per EN 60034-5
<b>Insulation class</b>	"F"
<b>Humidity class</b>	F1-2
<b>Max. permissible ambient motor temp. (transp./ storage)</b>	+ 60 °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 with anti-freezing grease
<b>Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)</b>	< 0.75 mA
<b>Electrical leads</b>	Via terminal box, integrated capacitor connected via terminal box
<b>Motor protection</b>	Thermal overload protector (TOP) wired internally
<b>Cable exit</b>	Variable
<b>Protection class</b>	I (if protective earth is connected by customer)
<b>Approval</b>	CCC

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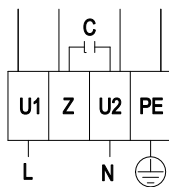
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## Product drawing



1	Direction of air flow "V"
2	Tightening torque 0,7 ± 0,2 Nm
3	Illustration without terminal box cover
4	Cable diameter max. 7.5 mm; tightening torque 1.3 ± 0.2 Nm

## Connection screen

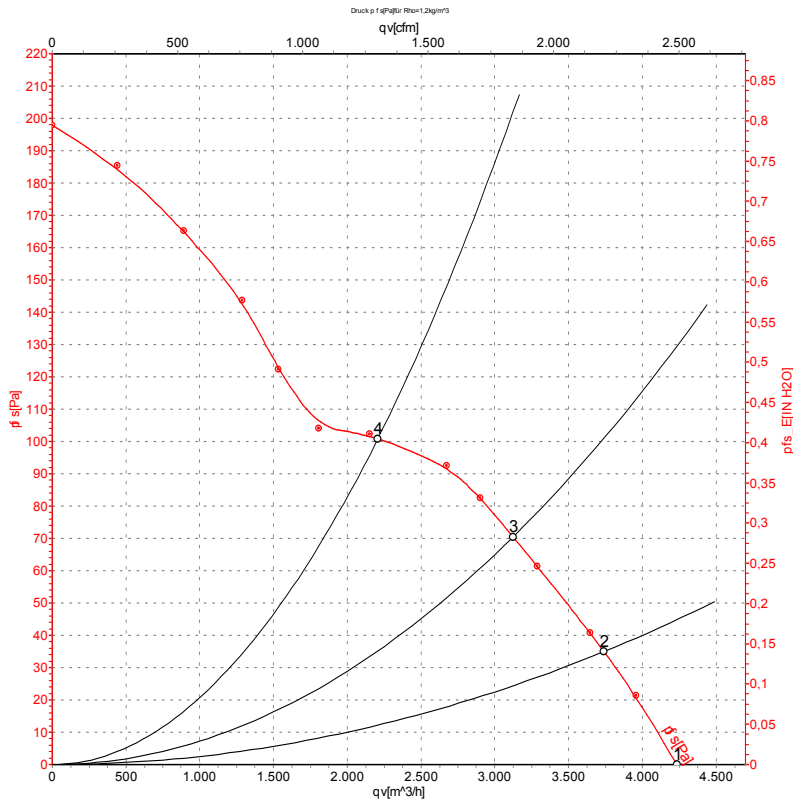


L	= U1 = blue	Z	brown	N	= U2 = black
PE	green/yellow				

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## Charts: Air flow 50 Hz



Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebmpapst. 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 <sub>e</sub>	I	LpA <sub>in</sub>	LwA <sub>in</sub>	qv	p <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	dB(A)	dB(A)	m <sup>3</sup> /h	Pa
1	230	50	1430	160	0.73	67	74	4235	0
2	230	50	1425	180	0.81	67	74	3740	35
3	230	50	1405	198	0.88	65	73	3125	70
4	230	50	1380	219	0.97	67	74	2205	100

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · LpA<sub>in</sub> = Sound pressure level inlet side · LwA<sub>in</sub> = Sound power level inlet side · qv = Air flow  
p<sub>fs</sub> = Pressure increase