

AC axial fan

sickled blades (S series)

with full round nozzle

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General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

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Nominal data

Type	W2E300-CP02-30		
Motor	M2E074-DF		
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	2700	3000
Power input	W	230	350
Current draw	A	1.10	1.55
Motor capacitor	µF	8	8
Capacitor voltage	VDB	400	400
Max. back pressure	Pa	160	50
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	50	40

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}	%	30.9	26.2	30.2
Efficiency grade N		40.7	36	40
Power input P_e	kW	0.28		
Air flow q_v	m ³ /h	2290		
Pressure increase p_{fs}	Pa	140		
Speed n	min ⁻¹	2570		

Data definition with optimum efficiency. LU-29177
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



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Technical features

Mass	5.2 kg
Size	300 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Material of wall ring	Sheet steel, pre-galvanized 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 44; Depending on installation and position as per EN 60034-5
Insulation class	"B"
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; EAC

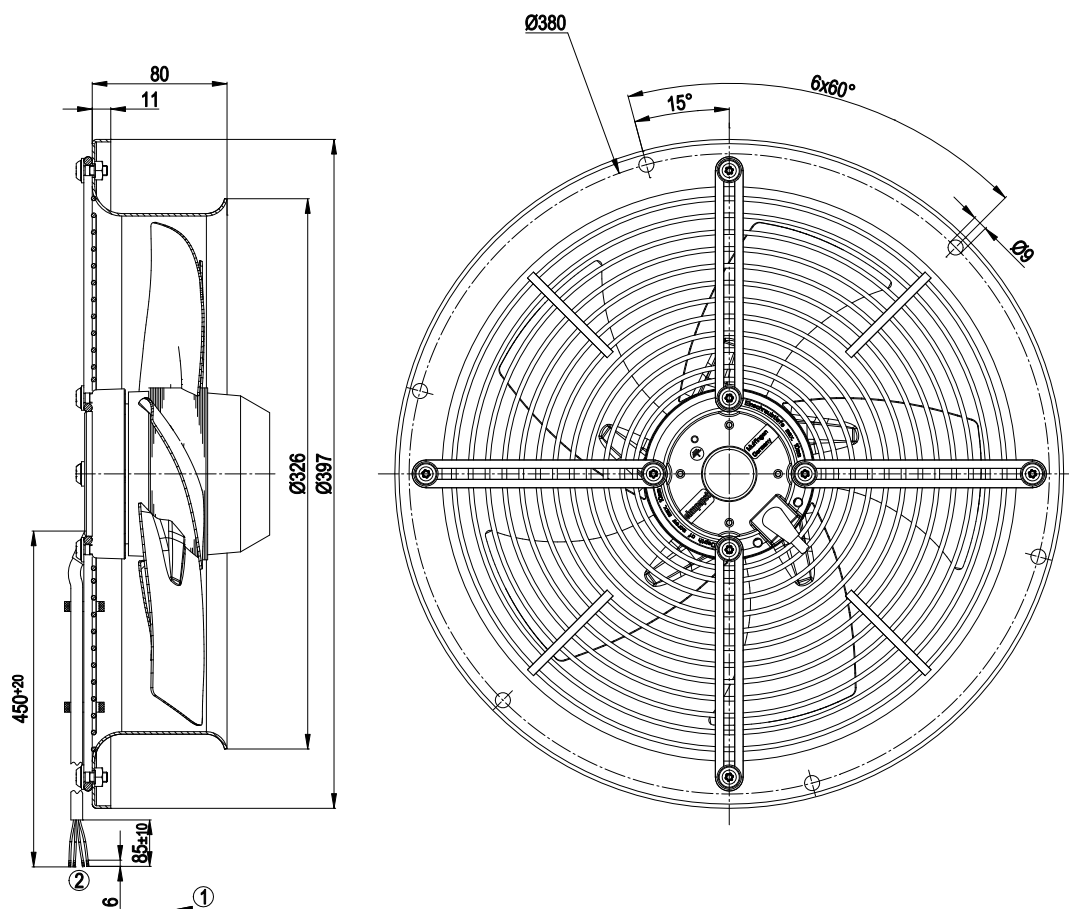


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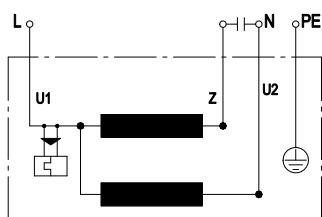
with full round nozzle

Product drawing



- | | |
|---|---|
| 1 | Direction of air flow "V" |
| 2 | Connection line PVC 0.5mm ² , 4x brass lead tips crimped |

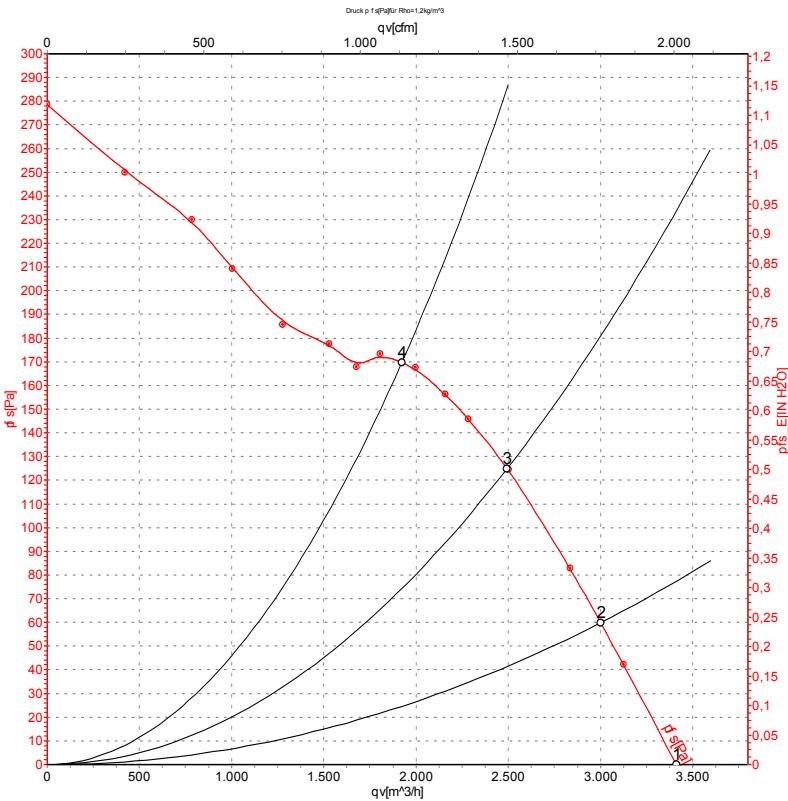
Connection screen



U1	blue	Z	brown	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 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

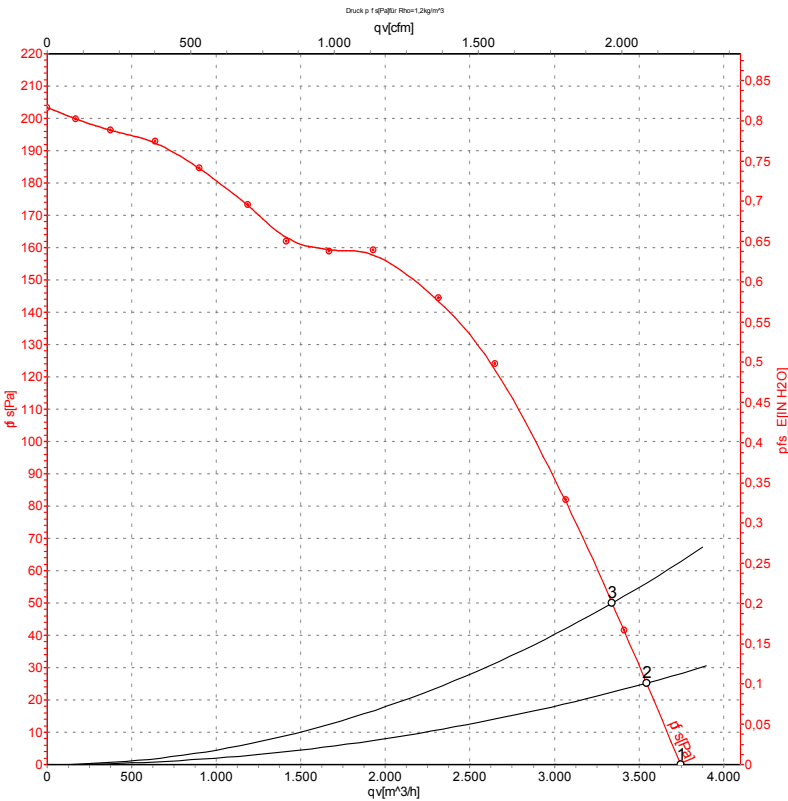
	U	f	n	P _e	I	LpA _{in}	LwA _{in}	qv	p _{ts}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa
1	230	50	2700	230	1.10	73	80	3410	0
2	230	50	2680	255	1.12	72	79	3000	60
3	230	50	2600	279	1.22	72	79	2495	125
4	230	50	2520	303	1.32	72	79	1925	170

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 · qv = Air flow
p_{ts} = Pressure increase



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Charts: Air flow 60 Hz



Air performance measured as per ISO 5801
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LpA measured with 1m distance to fan axis.
The values given are valid under the
measuring conditions mentioned above and
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standard set-up, the specific values have to
be checked and reviewed with the unit
installed.

Measured values

	U	f	n	P _e	I	LpA _{in}	LwA _{in}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa
1	230	60	3000	350	1.55	75	82	3745	0
2	230	60	2940	355	1.58	74	81	3545	25
3	230	60	2885	362	1.60	74	81	3340	50

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 · qv = Air flow
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