W2E300-CP02-11

AC axial fan

sickled blades (S series)

Wall ring with guard grille

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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**W2E300-CP02-11**	
Motor	**M2E074-DF**	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		fa
Valid for approval / standard		CE
Speed	min^{-1}	2700
Power input	W	230
Current draw	A	1.10
Motor capacitor	µF	8
Capacitor voltage	VDB	400
Max. back pressure	Pa	160
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	70
Starting current	A	2.2

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
Efficiency category	Static
Variable speed drive	No
Specific ratio*	1.00

* Specific ratio = 1 + p_{fs} / 100 000 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	5.3 kg
Size	300 mm
Surface of rotor	Coated in black
Material of terminal box	ABS plastic
Material of blades	Sheet steel, coated in black
Material of wall ring	Sheet steel, pre-galvanised and coated in black plastic (RAL 9005)
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	5
Direction of air flow	"A"
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
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
Electrical leads	Via terminal box
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Motor capacitor according to EN 60252-1 in safety protection class	P0/S0
Product conforming to standard	EN 60335-1; CE

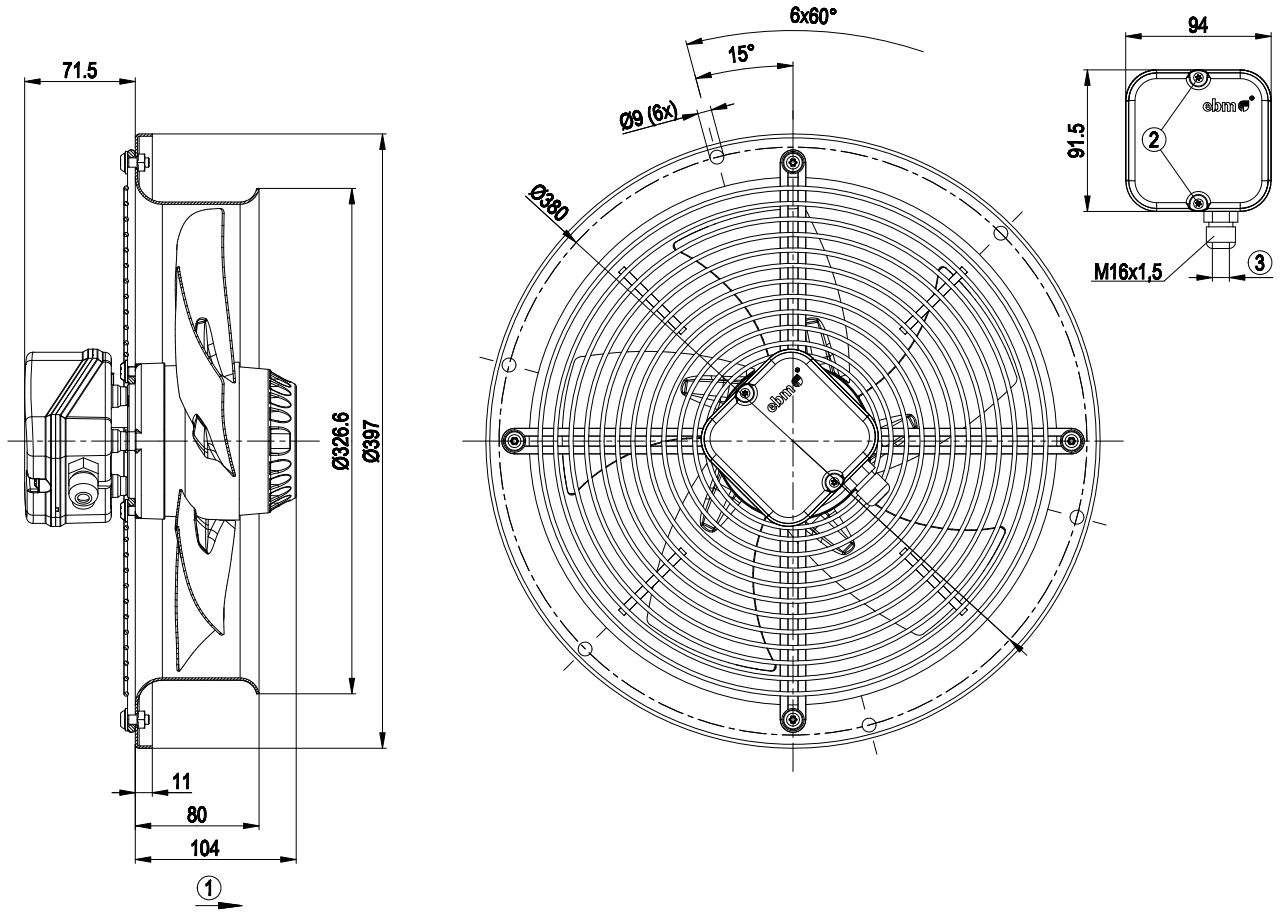
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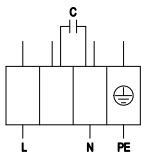
Wall ring with guard grille

Product drawing



1	Direction of air flow "A"
2	Tightening torque 0.5±0.1 Nm
3	Cable diameter: max. 10 mm, tightening torque 1.3±0.2 Nm

Connection screen



PE	green / yellow	L	black	N	blue

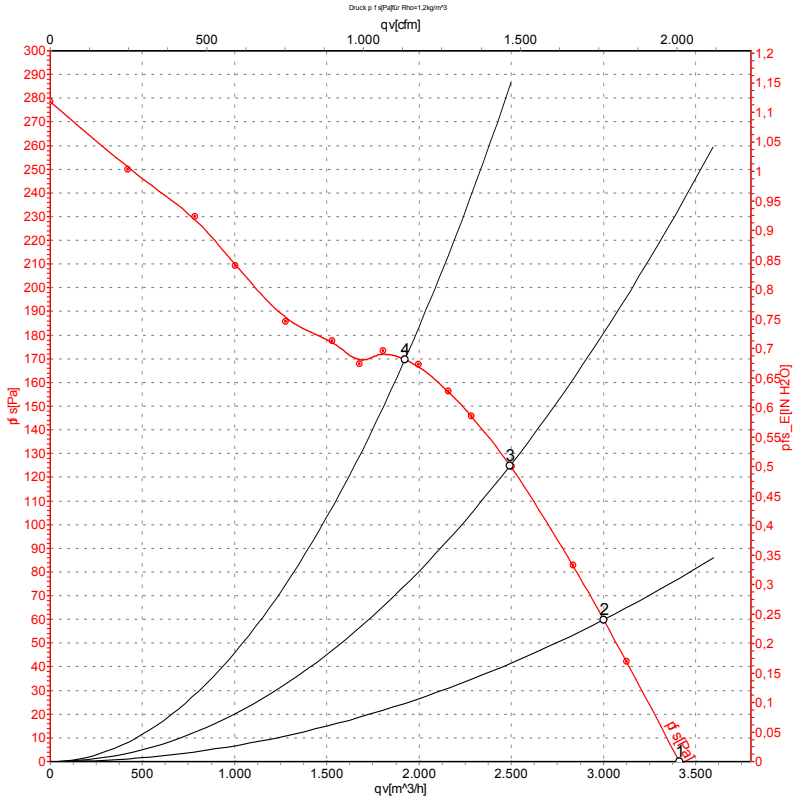
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Charts: Air flow 50 Hz



Measurement: LU-29177

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_{fs}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/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_{fs} = Pressure increase

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