

AC axial fan

sickled blades (S series), single inlet

Wall ring with guard grille

W4E315-CS32-37 ebmpapst Datasheet

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Nominal data

Type	W4E315-CS32-37		
Motor	M4E068-DF		
Phase		1~	1~
Nominal voltage	VAC	208	208
Frequency	Hz	60	60
Type of data definition		ml	ml
Valid for approval / standard		CE	UL 2111
Speed (rpm)	min ⁻¹	1530	1530
Power input	W	150	150
Current draw	A	0.74	0.74
Motor capacitor	µF	5	5
Capacitor voltage	VDB	320	320
Capacitor standard		S0 (CE)	UL
Max. back pressure	Pa	85	85
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	70	70

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations



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Technical features

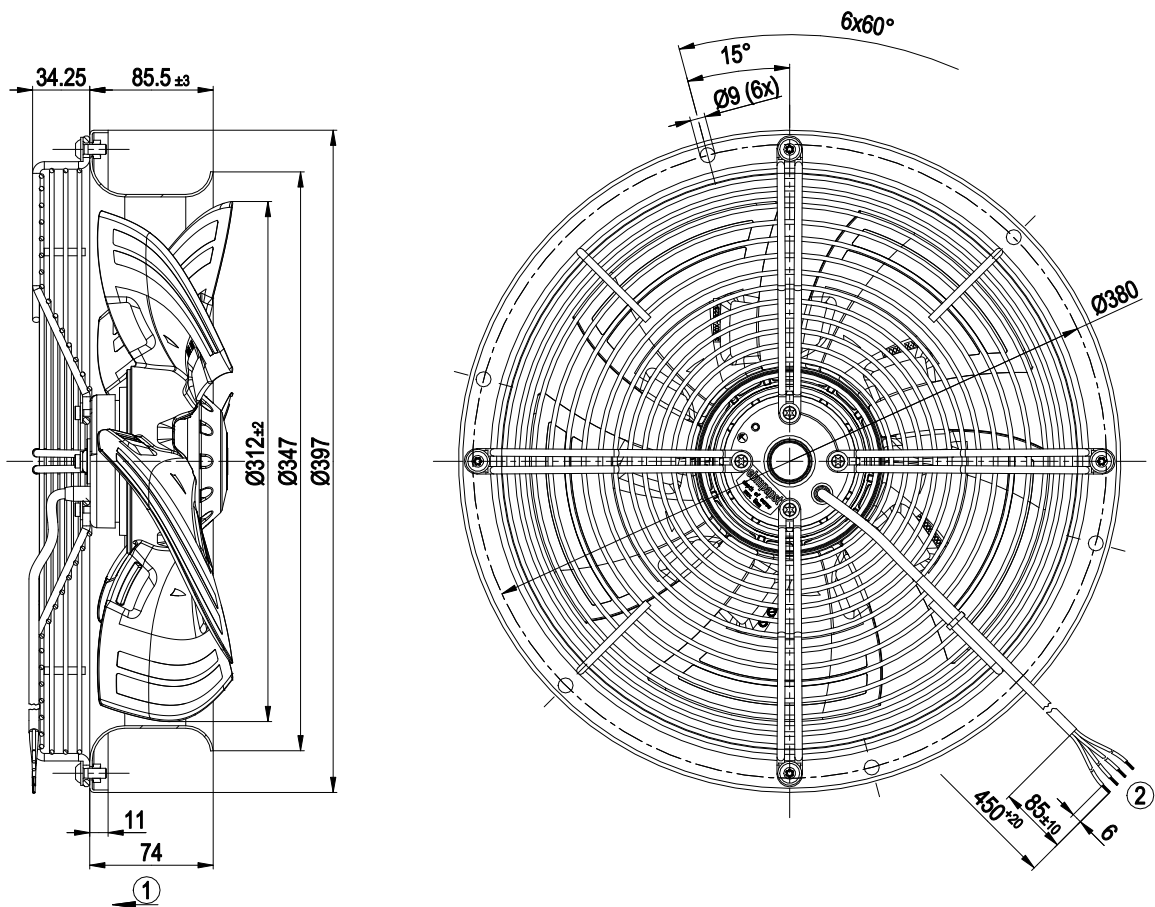
Mass	4.3 kg
Size	315 mm
Surface of rotor	Coated in black
Material of blades	Press-fitted sheet steel blank, sprayed with PP plastic
Material of wall ring	Sheet steel, galvanised and coated in black plastic (RAL 9005)
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	5
Direction of air flow	"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	"F"
Humidity (F)/environmental protection class (H)	H0+
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	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	UL 1004-3; CSA C22.2 No.77



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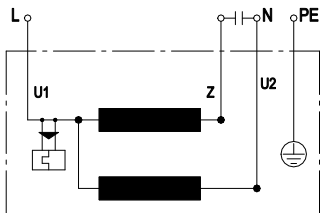
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Product drawing



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

Connection screen

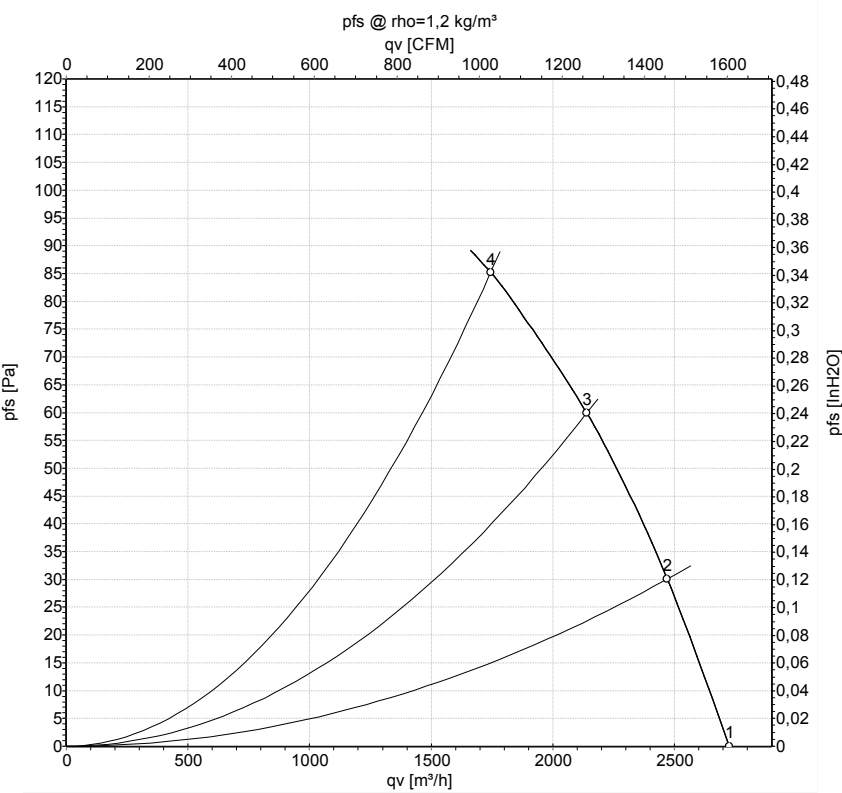


U1	blue	Z	brown	U2	black
PE	green/yellow				



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Charts: Air flow 60 Hz



Measurement: LU-160897-1

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	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	inH2O
1	208	60	1615	123	0.60	2725	0	1605	0.00
2	208	60	1590	131	0.64	2470	30	1455	0.12
3	208	60	1565	140	0.67	2140	60	1260	0.24
4	208	60	1530	150	0.74	1745	85	1025	0.34

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

