

AC axial fan

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

S4E330-AP20-43 ebmpapst Datasheet

sales@fansco.com

www.fansco.com

Nominal data

Type	S4E330-AP20-43		
Motor	M4E068-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 (rpm)	min ⁻¹	1360	1520
Power input	W	105	135
Current draw	A	0.52	0.6
Motor capacitor	μF	3	3
Capacitor voltage	VDB	400	400
Capacitor standard		S0 (CE)	S0 (CE)
Max. back pressure	Pa	60	70
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	65	65

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



AC axial fan

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

Technical features

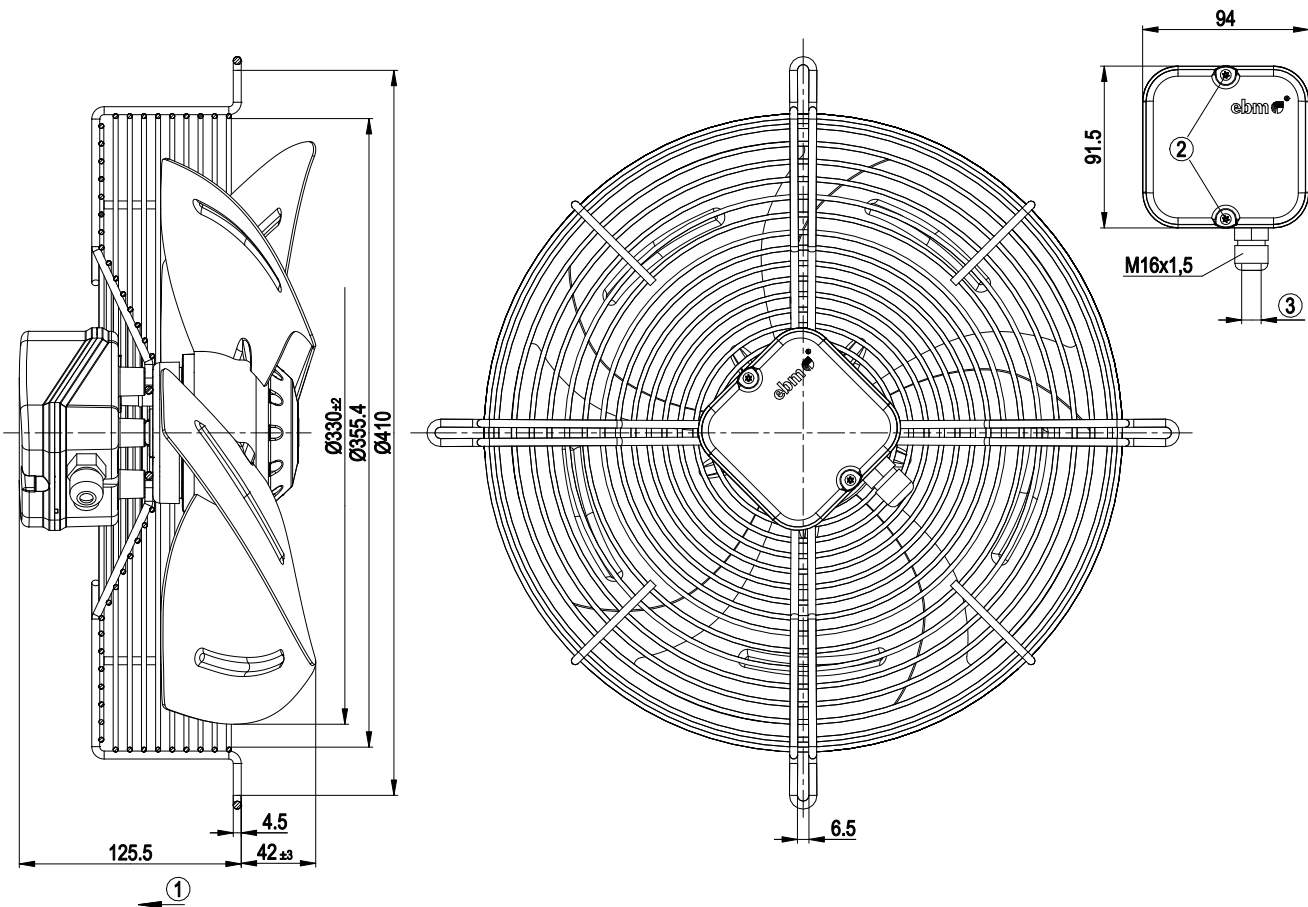
Mass	4.1 kg
Size	330 mm
Surface of rotor	Coated in black
Material of terminal box	PC / ABS plastic
Material of blades	Sheet steel, coated in black
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen 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
Electrical leads	Via terminal box, integrated capacitor connected via terminal box
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Motor capacitor according to EN 60252-1 in safety protection class	S0
Product conforming to standard	EN 60335-1; CE
Approval	UL 1004-1; CSA C22.2 No.100



AC axial fan

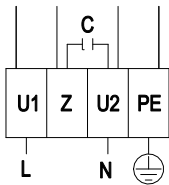
sickled blades (S series), single inlet
with guard grille for short nozzle

Product drawing



1	Direction of air flow "V"
2	Tightening torque 0.5±0.1 Nm
3	Cable diameter: max. 7.5 mm, tightening torque 1.3±0.2 Nm

Connection screen



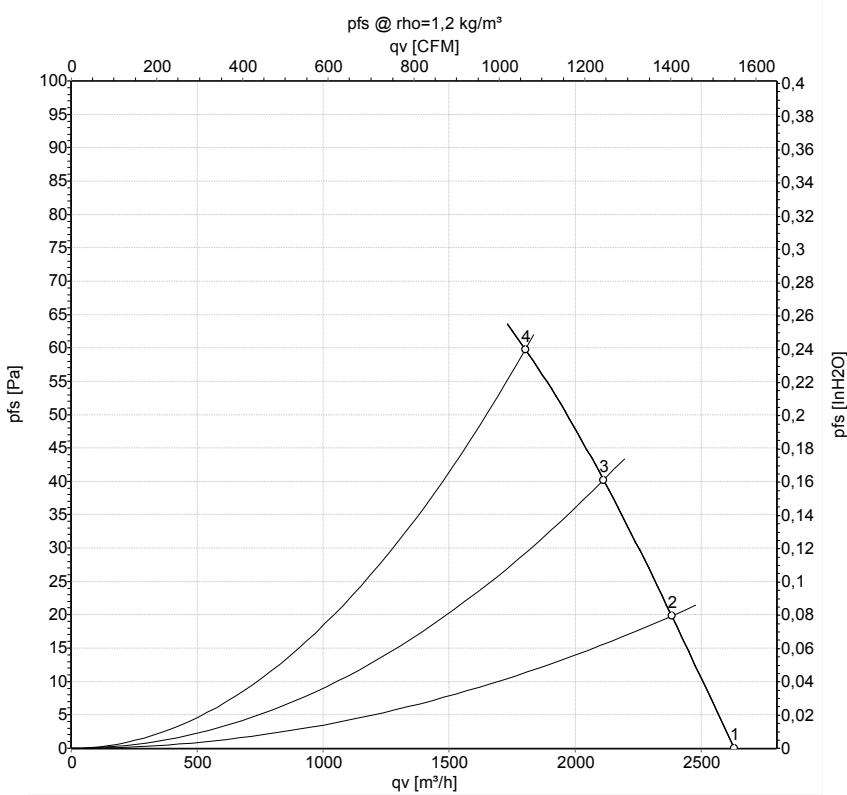
L	= U1 = blue	Z	brown	N	= U2 = black
PE	green/yellow				



AC axial fan

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

Charts: Air flow 50 Hz



Measurement: LU-160750-1

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	LpA _{in}	LwA _{in}	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	inH2O
1	230	50	1360	105	0.52	65	72	2630	0	1550	0.00
2	230	50	1345	113	0.54	64	71	2385	20	1405	0.08
3	230	50	1330	118	0.55	63	70	2115	40	1245	0.16
4	230	50	1315	123	0.57	62	68	1800	60	1060	0.24

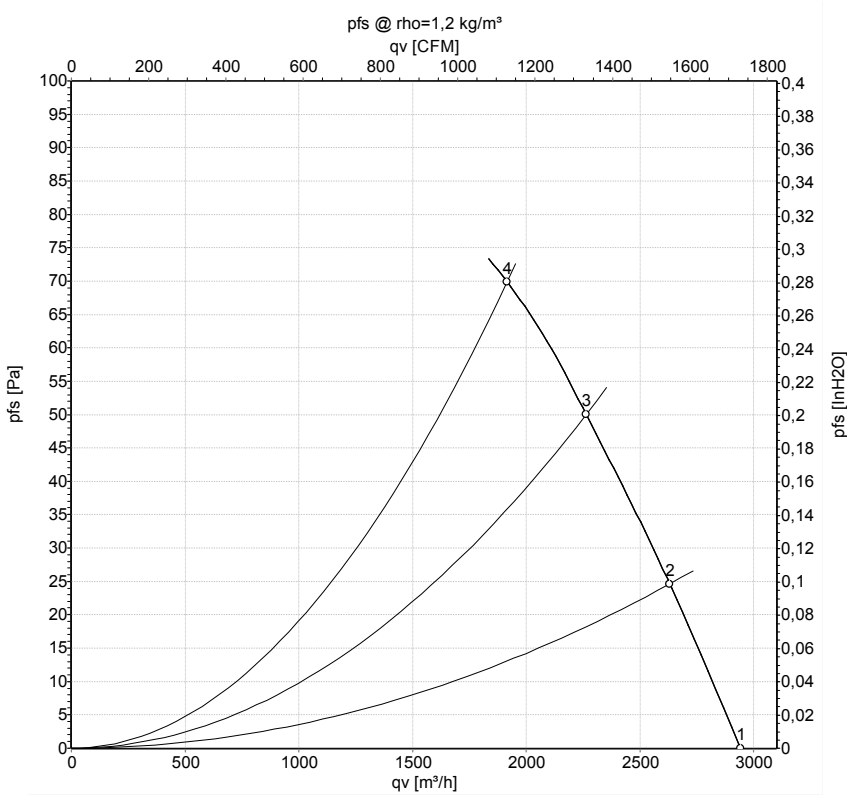
U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · q_v = Air flow
p_{fs} = Pressure increase



AC axial fan

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

Charts: Air flow 60 Hz



Measurement: LU-160973-1

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: L_{wA} measured as per ISO 13347 / L_{pA} 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	L _{pA_{in}}	L _{wA_{in}}	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	inH ₂ O
1	230	60	1520	135	0.60	68	75	2940	0	1730	0.00
2	230	60	1480	148	0.65	66	73	2630	25	1550	0.10
3	230	60	1445	158	0.69	65	71	2265	50	1330	0.20
4	230	60	1405	164	0.72	63	70	1915	70	1125	0.28

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · L_{pA_{in}} = Sound pressure level inlet side · L_{wA_{in}} = Sound power level inlet side · q_v = Air flow
p_{fs} = Pressure increase

