

AC axial fan

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

S4D315-AS10-32 ebmpapst Datasheet
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Nominal data

Type	S4D315-AS10-32				
Motor	M4D068-DF				
Phase		3~	3~	3~	3~
Nominal voltage	VAC	230	230	400	400
Connection		Δ	Δ	Y	Y
Frequency	Hz	50	60	50	60
Type of data definition		ml	ml	ml	ml
Valid for approval / standard		-	-	-	-
Speed (rpm)	min ⁻¹	1330	1460	1330	1460
Power input	W	100	135	100	135
Current draw	A	0.44	0.44	0.25	0.25
Max. back pressure	Pa	65	80	65	80
Min. ambient temperature	°C	-25	-25	-25	-25
Max. ambient temperature	°C	65	70	65	70
Starting current	A	1.1	1.08	0.63	0.62

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

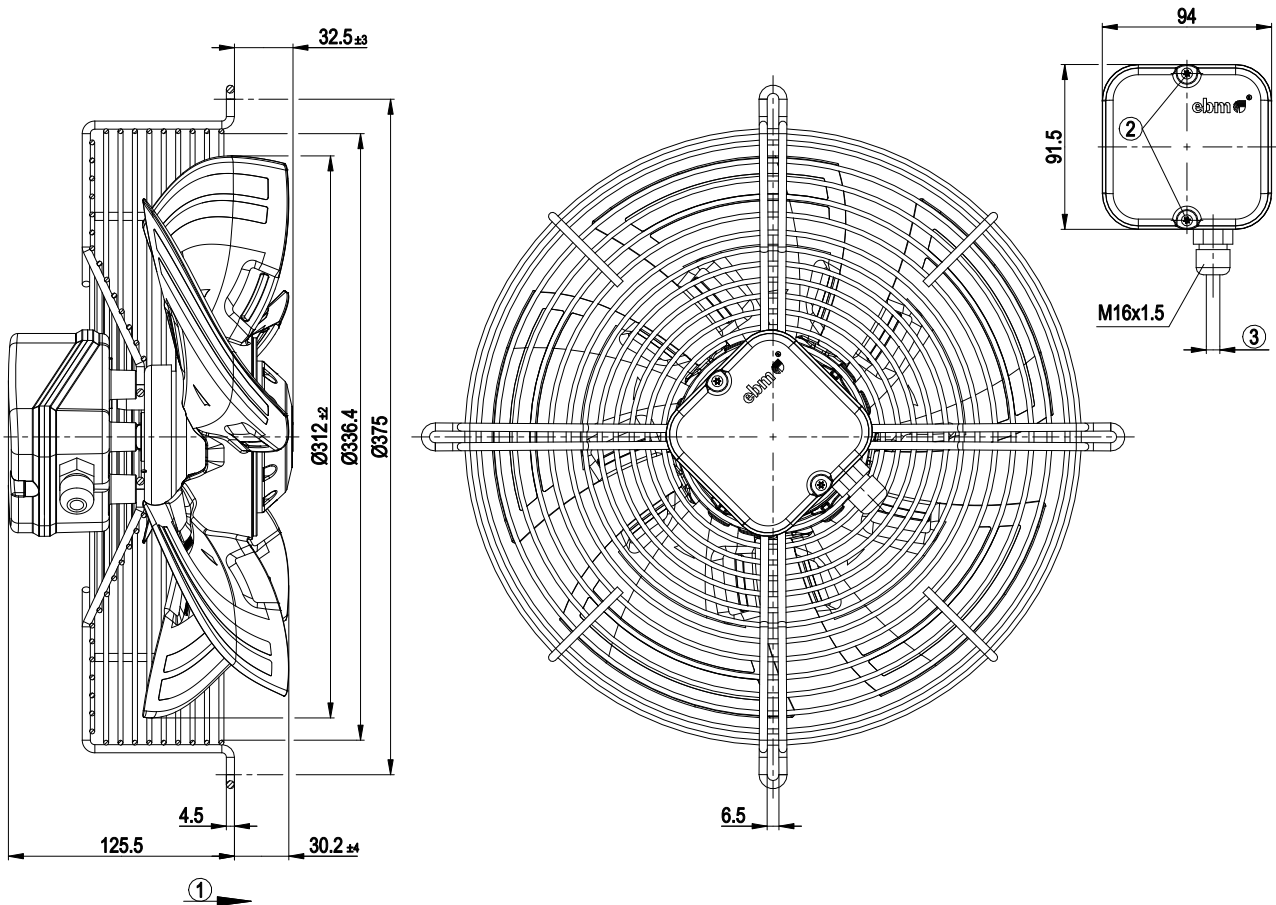
Mass	3.5 kg
Size	315 mm
Surface of rotor	Coated in black
Material of terminal box	ABS plastic
Material of blades	Plastic
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	5
Direction of air flow	"A"
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity (F)/environmental protection class (H)	F5
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
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1
Approval	EAC



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Product drawing

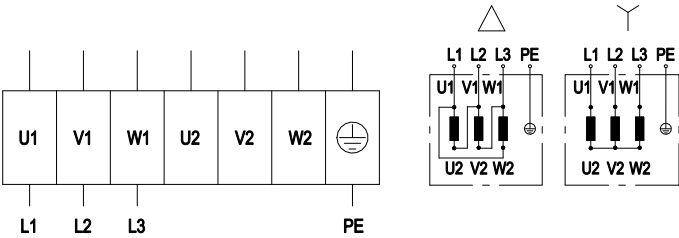


1	Direction of air flow "A"
2	Tightening torque 0.5 ± 0.1 Nm
3	Cable diameter: max. 7.5 mm, tightening torque 1.3 ± 0.2 Nm

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Connection screen



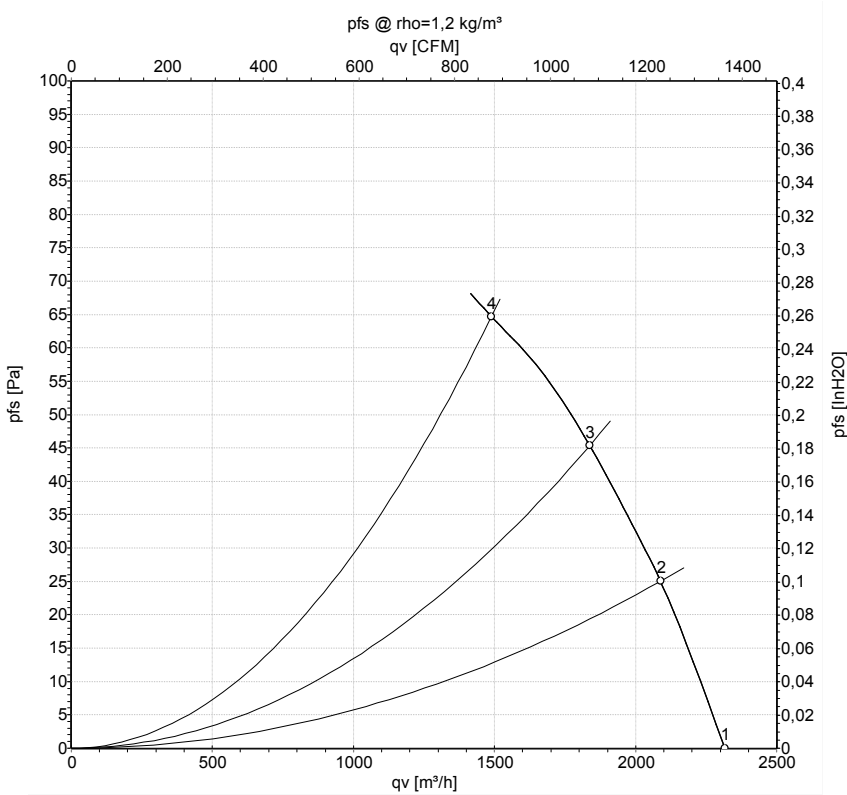
	Three-phase motor	Y	Star connection	Δ	Delta connection
L1	= U1 = black	L2	= V1 = blue	L3	= W1 = brown
U2	green	V2	white	W2	yellow
PE	PE (green/yellow)				



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Charts: Air flow 50 Hz



Measured values

	Conn.	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)	m ³ /h	Pa	cfm	inH ₂ O
1	Y	400	50	1375	84	0.24	57	63	2315	0	1365	0.00
2	Y	400	50	1360	90	0.24	54	61	2090	25	1230	0.10
3	Y	400	50	1350	94	0.24	51	58	1840	45	1080	0.18
4	Y	400	50	1330	100	0.25	50	58	1490	65	875	0.26

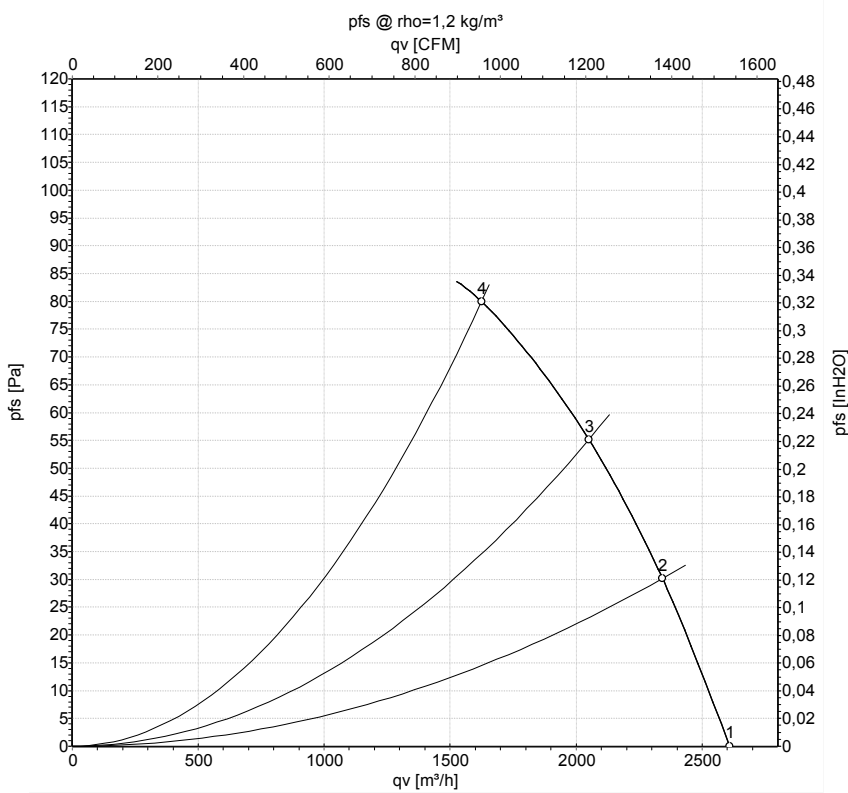
Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side
q_v = Air flow · p_{fs} = Pressure increase



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Charts: Air flow 60 Hz



Measurement: LU-160727-1

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

	Conn.	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)	m^3/h	Pa	cfm	inH ₂ O
1	Y	400	60	1545	108	0.22	59	66	2610	0	1535	0.00
2	Y	400	60	1520	116	0.23	57	64	2345	30	1380	0.12
3	Y	400	60	1495	122	0.23	55	61	2050	55	1205	0.22
4	Y	400	60	1460	135	0.25	53	61	1625	80	955	0.32

Conn. = Connection · 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

