S4E315-AS22-16

AC axial fan

sickled blades (S series), single inlet

with guard grille for short nozzle

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Nominal data

Type	**S4E315-AS22-16**
Motor	**M4E068-DF**

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		cs	cs
Valid for approval / standard		CE	CE
Speed (rpm)	min^{-1}	1300	1390
Power input	W	95	125
Current draw	A	0.42	0.55
Motor capacitor	µF	3	3
Capacitor voltage	VDB	400	400
Capacitor standard		S0 (CE)	S0 (CE)
Max. back pressure	Pa	40	45
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	60	40
Starting current	A	0.69	0.64

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

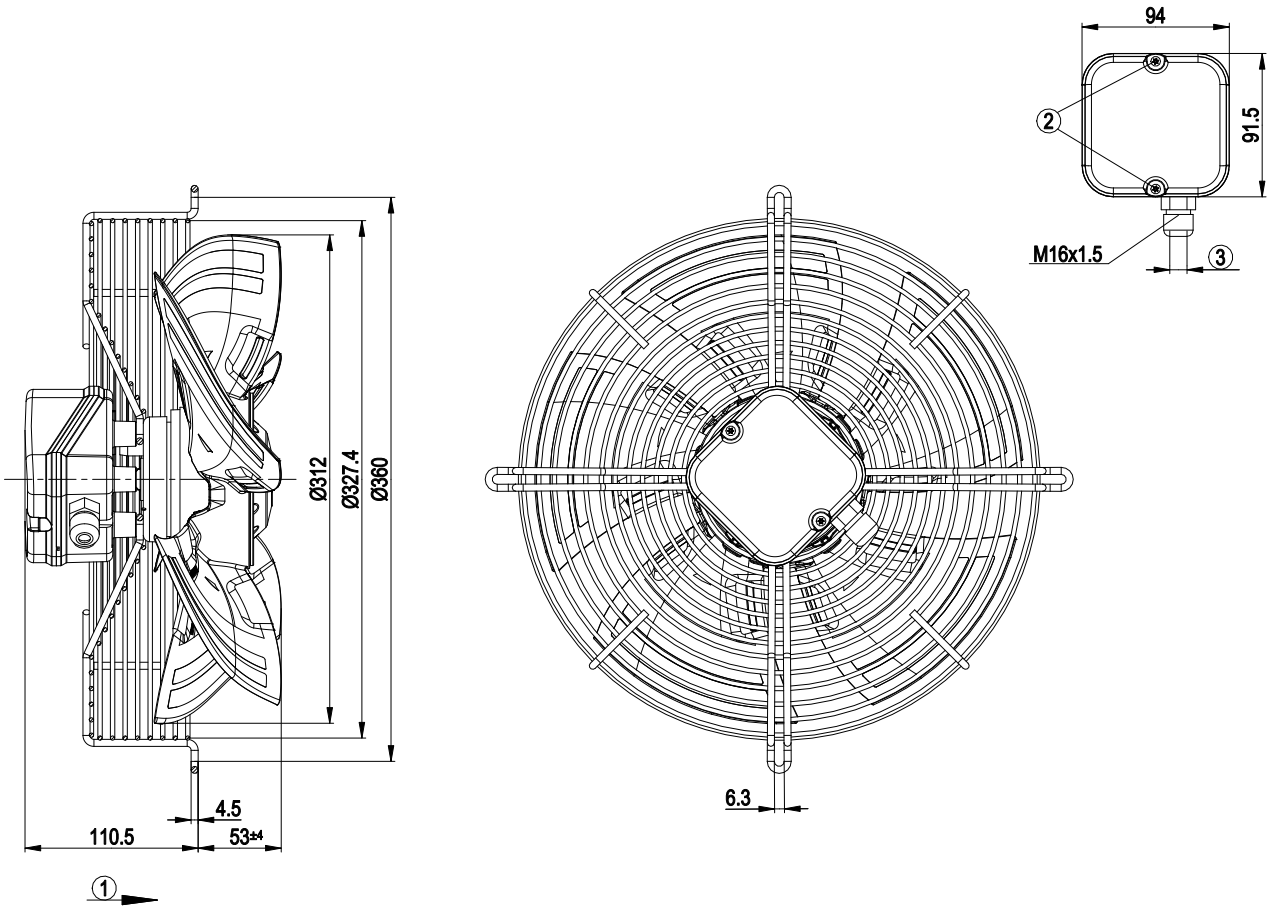
Mass	3.4 kg
Size	315 mm
Surface of rotor	Coated in black
Material of terminal box	PC / ABS plastic
Material of blades	Press-fitted sheet steel blank, sprayed with PP plastic
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	5
Direction of air flow	"A"
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"F"
Humidity (F)/environmental protection class (H)	F2-2
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	None
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
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	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

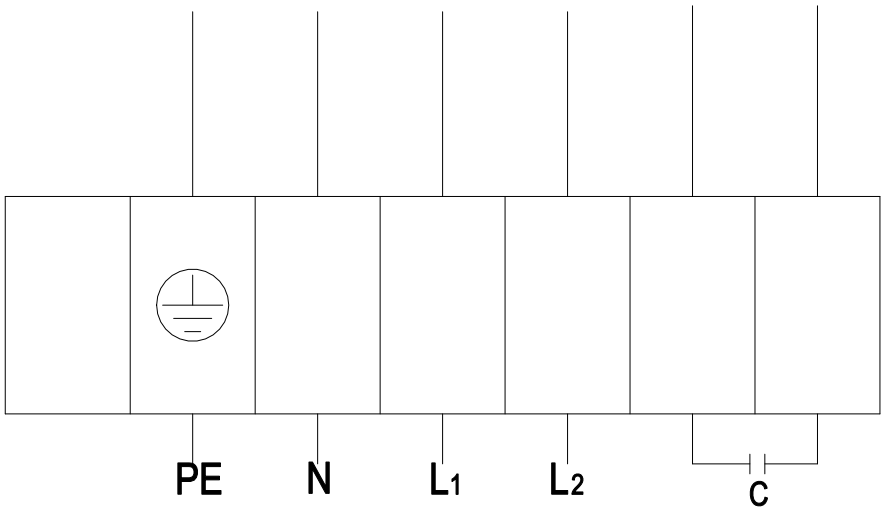
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Connection screen



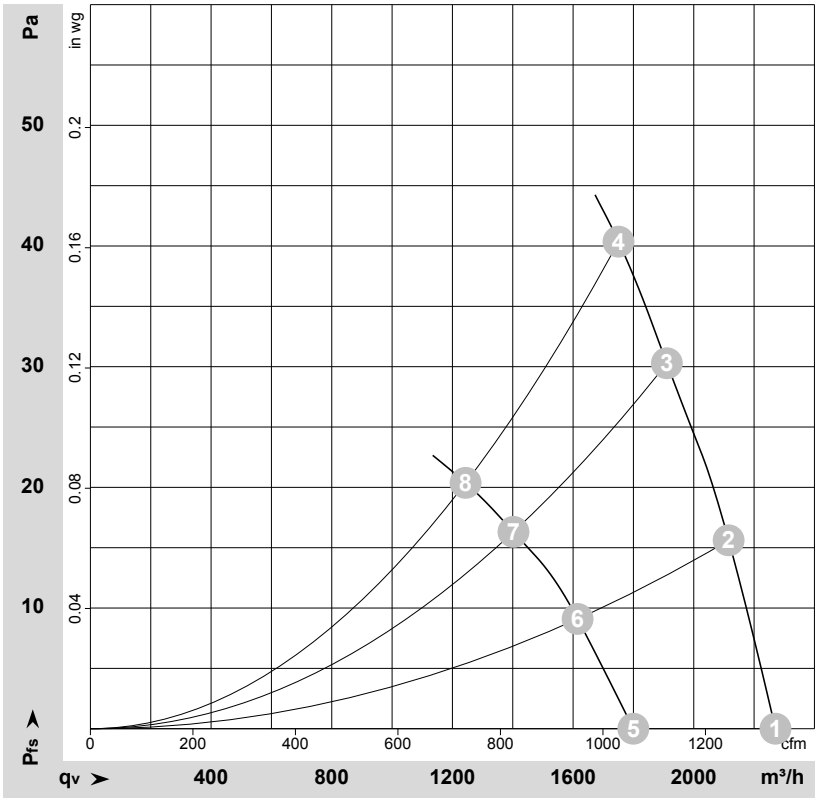
PE	green/yellow	N	blue	L1	black
L2	white	C	yellow	C	brown

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Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-166256-1
Measurement: LU-166390-1

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

	Stage	U	f	n	P_e	I	q_V	p_{fs}	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	2	230	50	1340	86	0.38	2270	0	1335	0.00
2	2	230	50	1325	89	0.39	2115	15	1245	0.06
3	2	230	50	1310	92	0.40	1910	30	1125	0.12
4	2	230	50	1300	95	0.42	1750	40	1030	0.16
5	1	230	50	1065	79	0.35	1800	0	1060	0.00
6	1	230	50	1015	82	0.36	1615	9	950	0.04
7	1	230	50	965	84	0.37	1400	16	825	0.06
8	1	230	50	925	86	0.37	1245	20	730	0.08

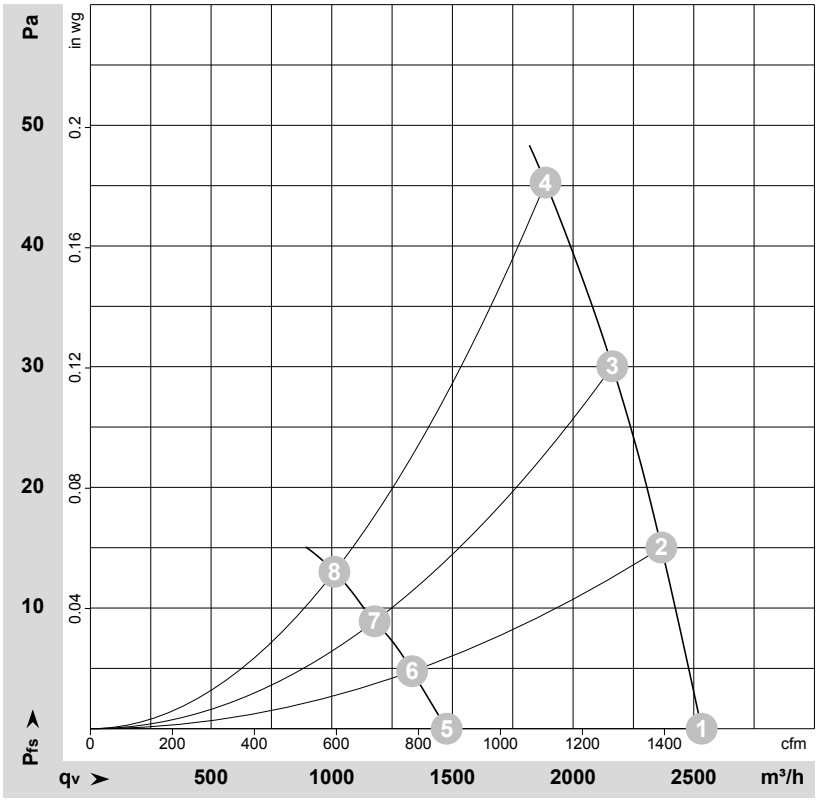
U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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Charts: Air flow 60 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-166382-1
Measurement: LU-166393-1

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

	Stage	U	f	n	P_e	I	q_V	p_{fs}	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	2	230	60	1495	115	0.50	2535	0	1490	0.00
2	2	230	60	1465	117	0.51	2365	15	1395	0.06
3	2	230	60	1430	120	0.52	2165	30	1275	0.12
4	2	230	60	1390	125	0.55	1885	45	1110	0.18
5	1	230	60	875	87	0.38	1475	0	870	0.00
6	1	230	60	830	86	0.38	1335	5	785	0.02
7	1	230	60	790	88	0.39	1180	9	695	0.04
8	1	230	60	745	87	0.39	1010	13	595	0.05

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

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