

S4E315-DB74-09

AC axial fan

straight blades (A series)

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Nominal data

Type	S4E315-DB74-09		
Motor	M4E068-CF		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		cu	cu
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	1340	1500
Power consumption	W	100	135
Current draw	A	0.45	0.6
Capacitor	µF	3	3
Capacitor voltage	VDB	400	400
Capacitor standard		S2 (CE)	S2 (CE)
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	40	30
Starting current	A	0.71	0.72

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



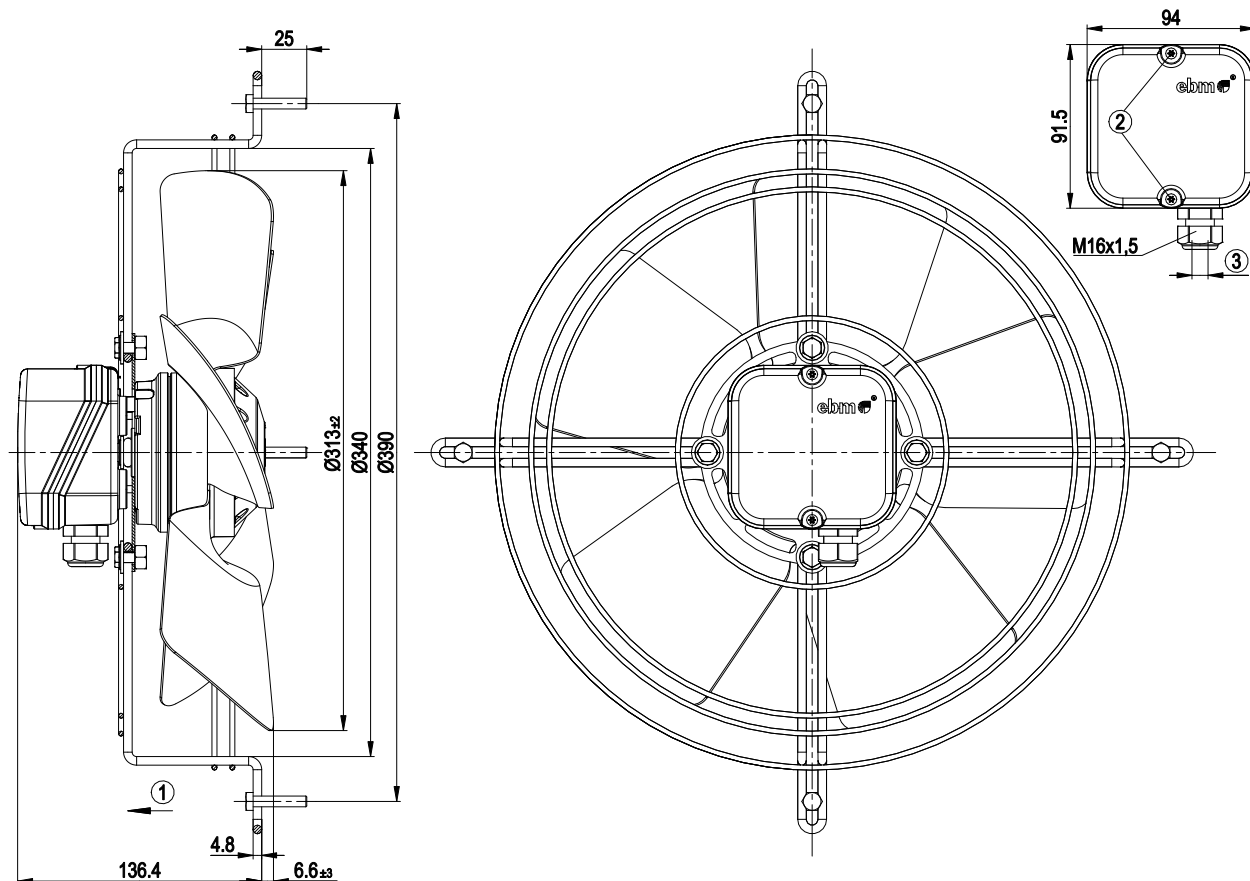
Technical description

Motor size	315 mm
Rotor surface	Painted black
Terminal box material	ABS plastic
Blade material	Sheet steel, galvanized
Support ring material	Sheet steel, phosphated and coated in black plastic
Number of blades	5
Airflow direction	«V»
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP 44; installation- and position-dependent as per EN 60034-5
Insulation class	«F»
Moisture (F) / Environmental (H) protection class	F5
Note on ambient temperature	Max. ambient temperature 230 V/60 Hz was measured with 6 % overvoltage.
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing for motor	Ball bearings with low-temperature grease
Speed steps	2
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical connection	Via terminal box, capacitor installed and connected
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Motor capacitor, with protection class according to EN 60252-1	S2
Conformity with standards	EN 60335-1; CE
Approval	EAC

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Product drawing

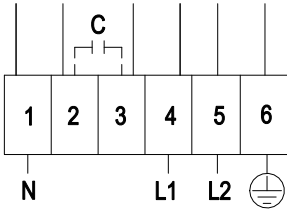


1	Direction of air flow "V"
2	Tightening torque: 1.5 ± 0.2 Nm
3	Cable diameter: min. 6 mm, max. 12 mm; tightening torque: 2 ± 0.3 Nm

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Connection diagram



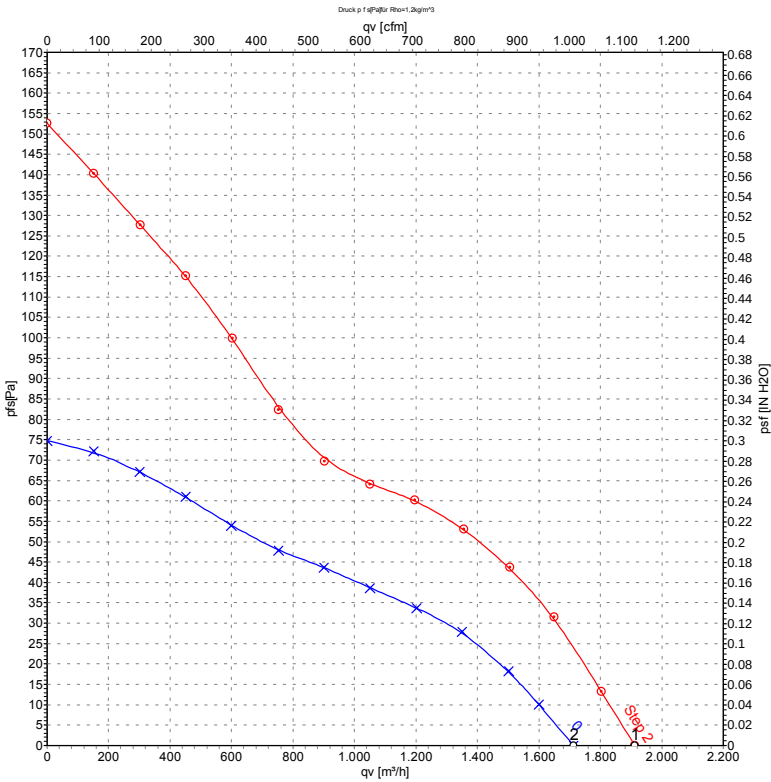
Note! High speed (step II); low speed (step I)

1	= N = blue	2	brown	3	yellow
4	Step I white	5	Step II black	6	PE



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Curves: Air performance 50 Hz



Measurement: LU-140372-1
Measurement: LU-140375-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters must be checked in the installed unit.

Measured values

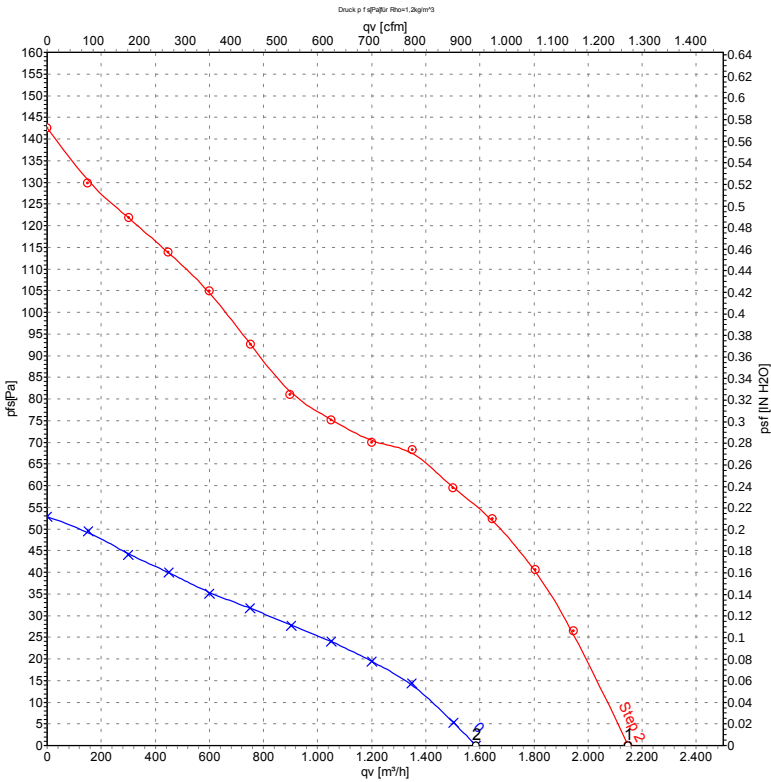
	Step	U	f	n	P _e	I	q _v	q _v	P _{fs}
		V	Hz	min ⁻¹	W	A	m ³ /h	cfm	inH ₂ O
1	2	230	50	1340	100	0.45	1910	1125	0.00
2	1	230	50	1205	83	0.37	1715	1010	0.00

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow



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Curves: Air performance 60 Hz



Measurement: LU-140379-1
Measurement: LU-140380-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters must be checked in the installed unit.

Measured values

	Step	U	f	n	P _e	I	q _v	q _v	P _{fs}
		V	Hz	min ⁻¹	W	A	m ³ /h	cfm	inH ₂ O
1	2	230	60	1510	135	0.60	2150	1265	0.00
2	1	230	60	1115	100	0.46	1585	935	0.00

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow

