

EC axial fan

sickle-shaped blades (S series)
with guard grille for short nozzle

S3G250-AC54-11 ebmpapst Datasheet
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Nominal data

Type	S3G250-AC54-11	
Motor	M3G074-CF	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Method of obtaining data		me
Speed (rpm)	min ⁻¹	1500
Power consumption	W	32
Current draw	A	0.25
Min. ambient temperature	°C	-30
Max. ambient temperature	°C	60

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

Data according to ErP Directive

		Actual	Req. 2015
01 Overall efficiency η_{es}	%	37.9	28.8
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		49.1	40
05 Variable speed drive		No	

Data obtained at optimum efficiency level.
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

09 Power consumption P_{ed}	kW	0.17
09 Air flow q_v	m ³ /h	1355
09 Pressure increase p_{fs}	Pa	176
10 Speed (rpm) n	min ⁻¹	2875
11 Specific ratio*		1.00

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

LU-127645



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Technical description

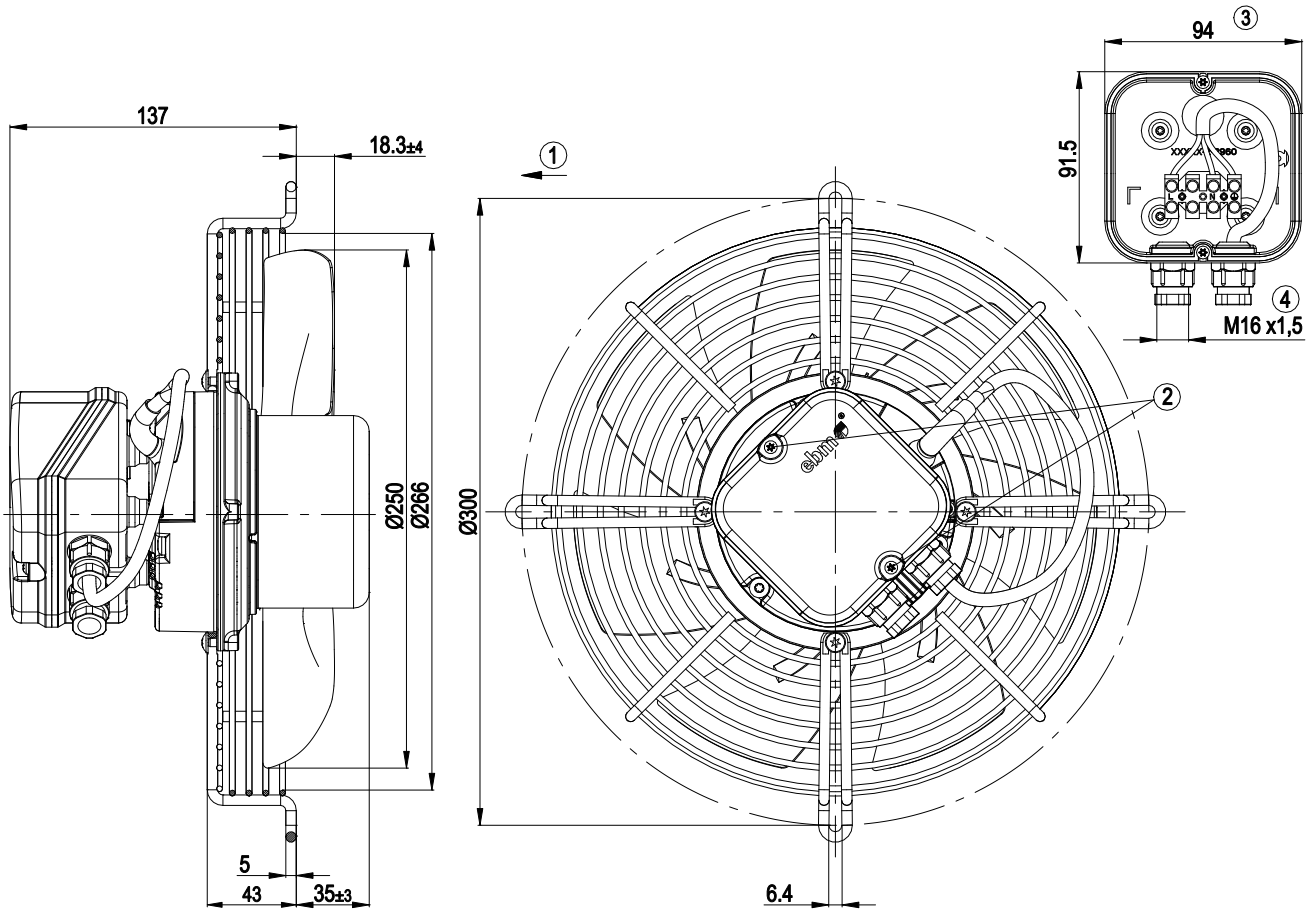
Weight	2.9 kg
Fan size	250 mm
Rotor surface	Painted black
Terminal box material	ABS plastic, black
Blade material	Sheet steel, painted black
Guard grille material	Steel, phosphated and coated with black plastic
Number of blades	7
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F3-1
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	Ball bearing
Technical features	- Motor current limitation - Soft start - Thermal overload protection for electronics/motor
EMC immunity to interference	According to EN 61000-6-2
EMC circuit feedback	According to EN 61000-3-2/3
EMC interference emission	According to EN 61000-6-3 (household environment)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Via terminal box
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE



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Product drawing

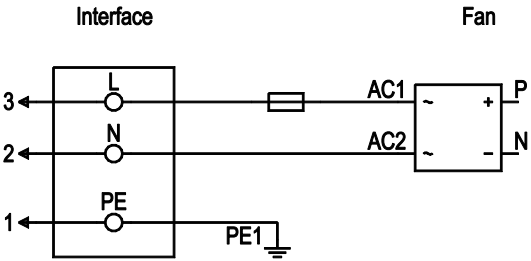


1	Direction of air flow "V"
2	Tightening torque 0.8 ± 0.15 Nm
3	Shown without terminal box cover
4	Cable diameter max. 7.5 mm; tightening torque 1.3 ± 0.2 Nm

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Connection diagram



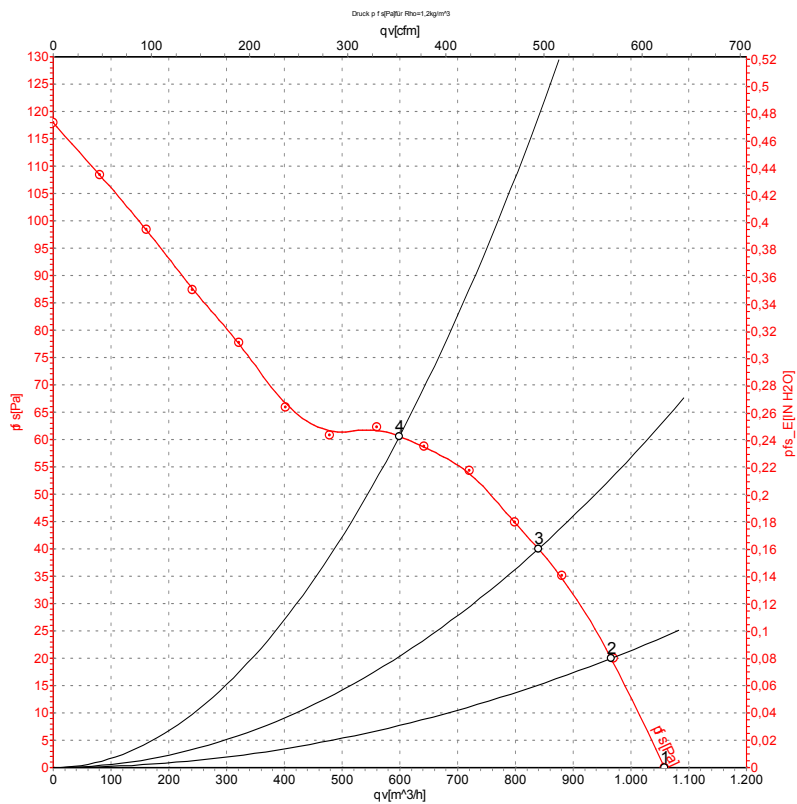
1	PE, green/yellow	2	N, blue	3	L, black
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Curves: Air performance 50 Hz



Measurement: LU-123894-1

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 have to be checked on the installed unit.

Measured values

	U	f	n	P _{ed}	I	qv	p _{fs}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	CFM	inH ₂ O
1	230	50	1500	27	0.22	1060	0	625	0.00
2	230	50	1500	30	0.24	965	20	570	0.08
3	230	50	1500	32	0.25	840	40	495	0.16
4	230	50	1500	32	0.25	600	60	355	0.24

U = Power supply · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

