A3G400-AN04-12

EC axial fan

sickle-shaped blades (S series), single-intake

A3G400-AN04-12 ebmpapst Datasheet
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Amtsgericht (court of registration) Stuttgart · HRA 590344

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Nominal data

Type	**A3G400-AN04-12**
Motor	**M3G074-CF**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min^{-1}	1080
Power consumption	W	140
Current draw	A	1.15
Max. back pressure	Pa	75
Max. back pressure	in. wg	0.3
Min. ambient temperature	°C	-25
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 Commission Regulation (EU) 327/2011

		Actual	Req. 2015
01 Overall efficiency η_{es}	%	36.8	28.1
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		48.7	40
05 Variable speed drive		Yes	

09 Power consumption P_{ed}	kW	0.13
09 Air flow q_v	m^3/h	2700
09 Pressure increase p_{fs}	Pa	58
10 Speed (rpm) n	min^{-1}	1095
11 Specific ratio*		1.00

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

* Specific ratio = 1 + p_{fs} / 100 000 Pa

LU-137607

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Technical description

Weight	2.3 kg
Fan size	400 mm
Rotor surface	Galvanized
Terminal box material	PC/ABS plastic
Blade material	Press-fitted sheet steel blank, sprayed with PP plastic
Number of blades	5
Airflow direction	"A"
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	None, open rotor
Cooling hole/opening	On rotor side
Mode	S1
Motor bearing	Ball bearing
Technical features	- Speed setting input (230 V) - Power limiter - Motor current limitation - Soft start - Overvoltage detection - Thermal overload protection for electronics/motor - Line undervoltage detection
Speed levels	2
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Electronic motor protection
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	CCC

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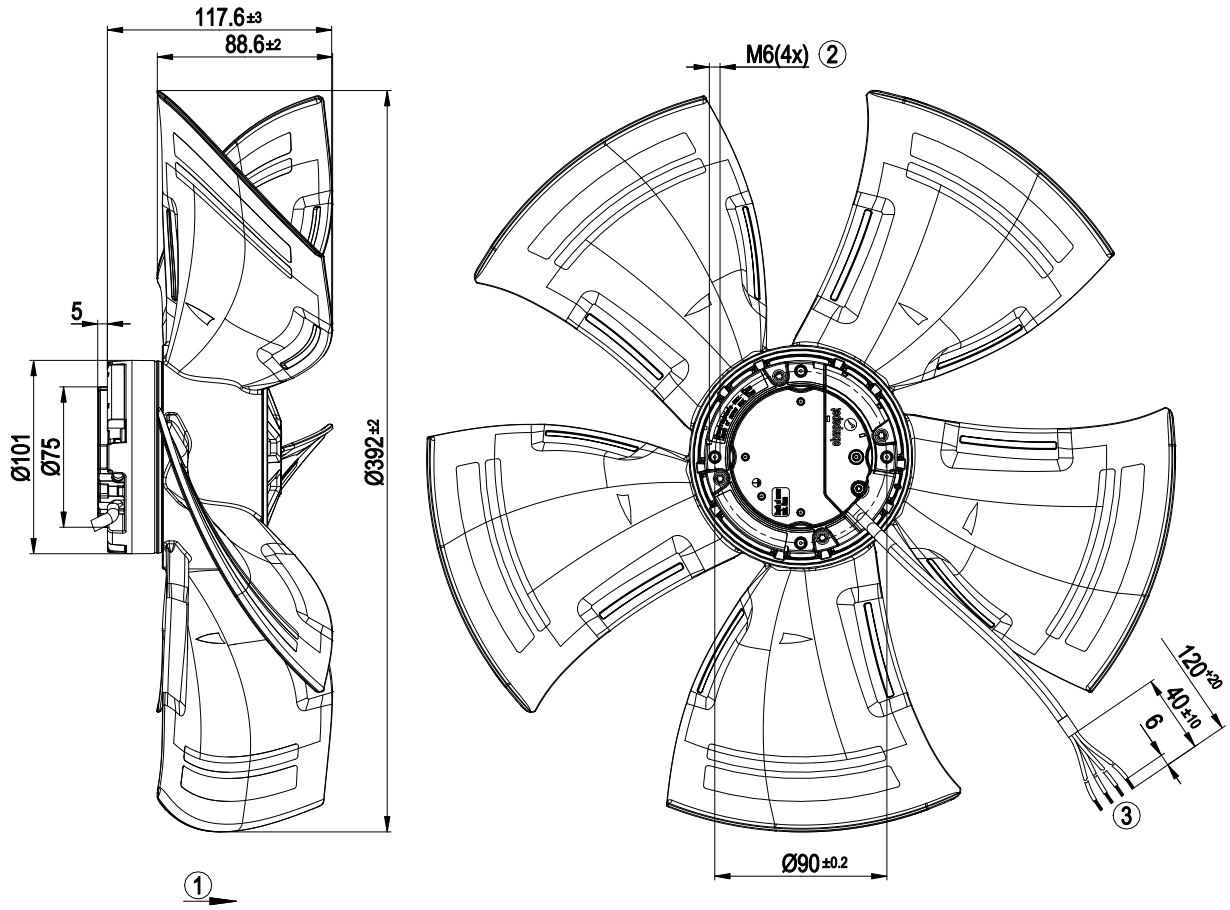
Product drawing



1	Direction of air flow "A"
2	Max. clearance for screw 10 mm
3	Cable PVC 4G 0.5 mm², 4x crimped splices

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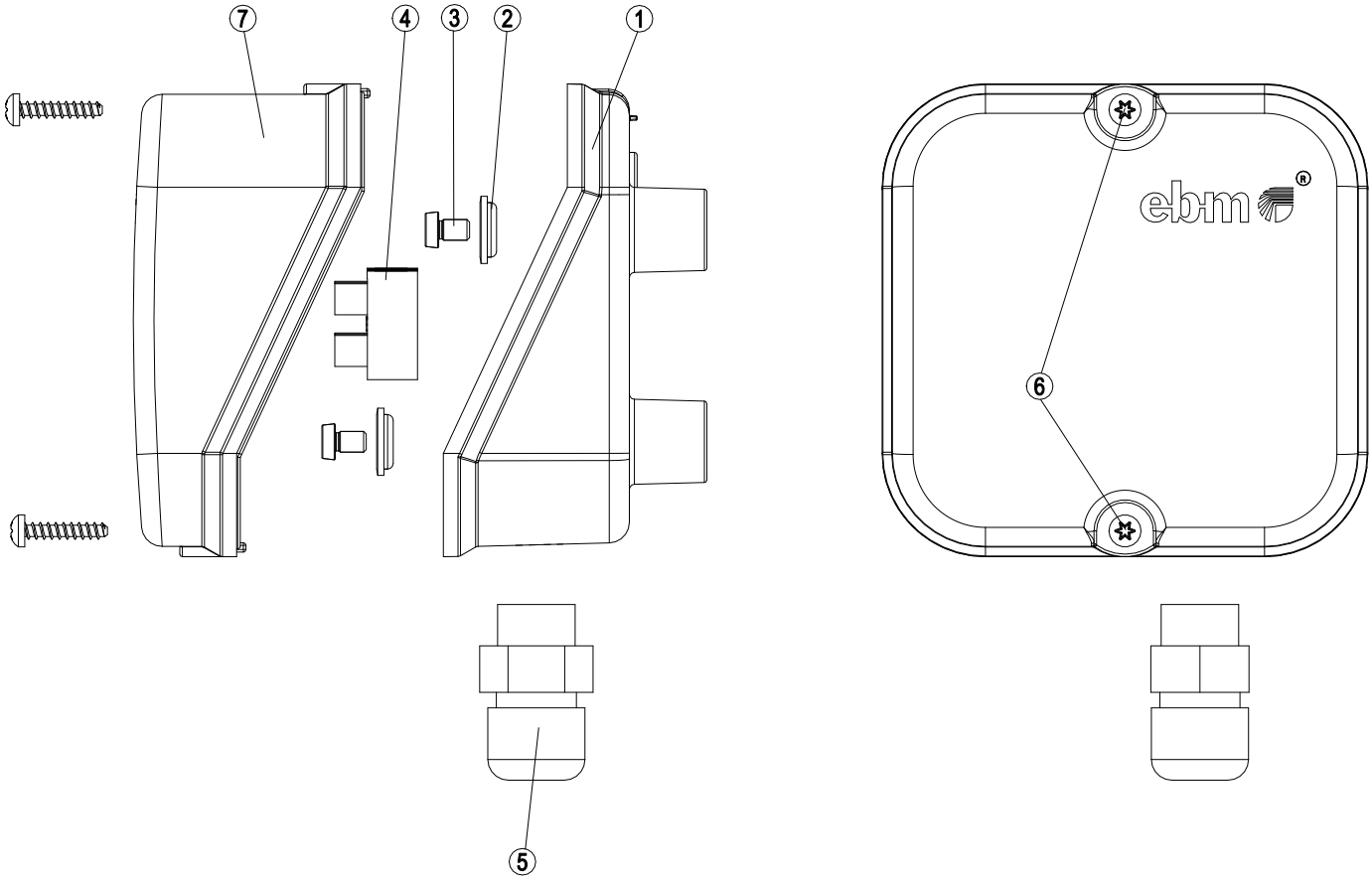
Accessory part



	Accessory parts, included separately:
	Zipped plastic bag
1	Base of terminal box
2	4x washers
3	4x cheese-head screws, tightening torque 2.2 ± 0.2 Nm
4	Terminal strip
5	Cable gland, cable diameter max. 7.5 mm, tightening torque 1.3 ± 0.2 Nm
6	2x oval-head screws, tightening torque 0.5 ± 0.2 Nm
7	Terminal box cover

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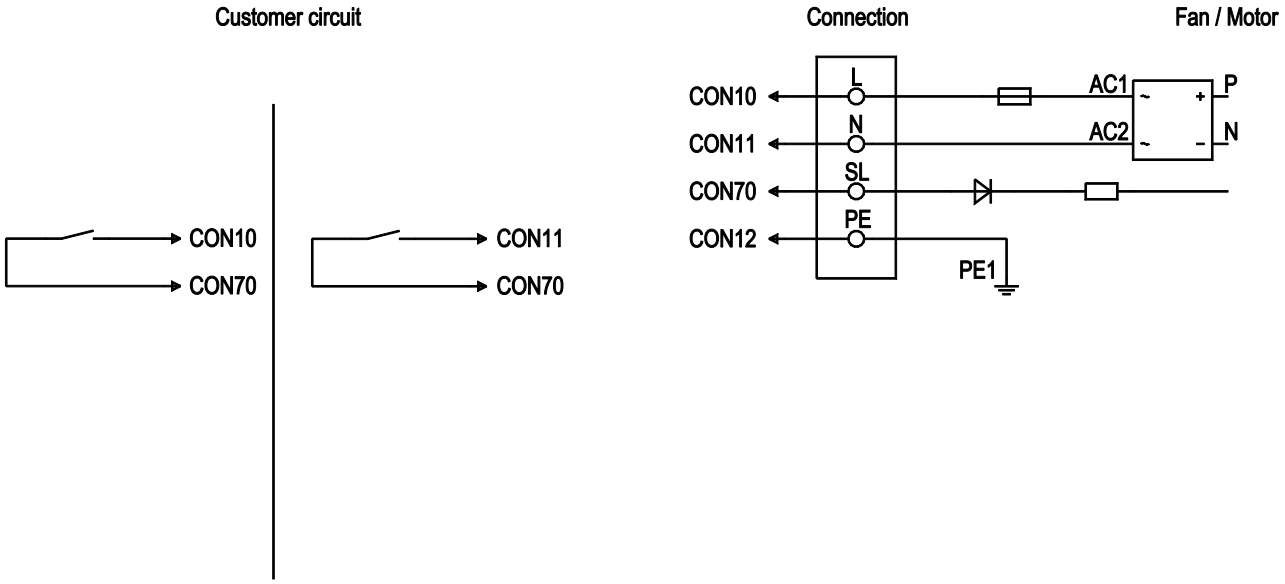
Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	CON 10	L	black	Power supply 230 VAC, 50-60 Hz, see nameplate for voltage range
	CON 11	N	blue	Neutral conductor
	CON 12	PE	green/yellow	Protective earth
	CON 70	SL	brown	Speed selection: switch open speed 1; switch closed speed 2

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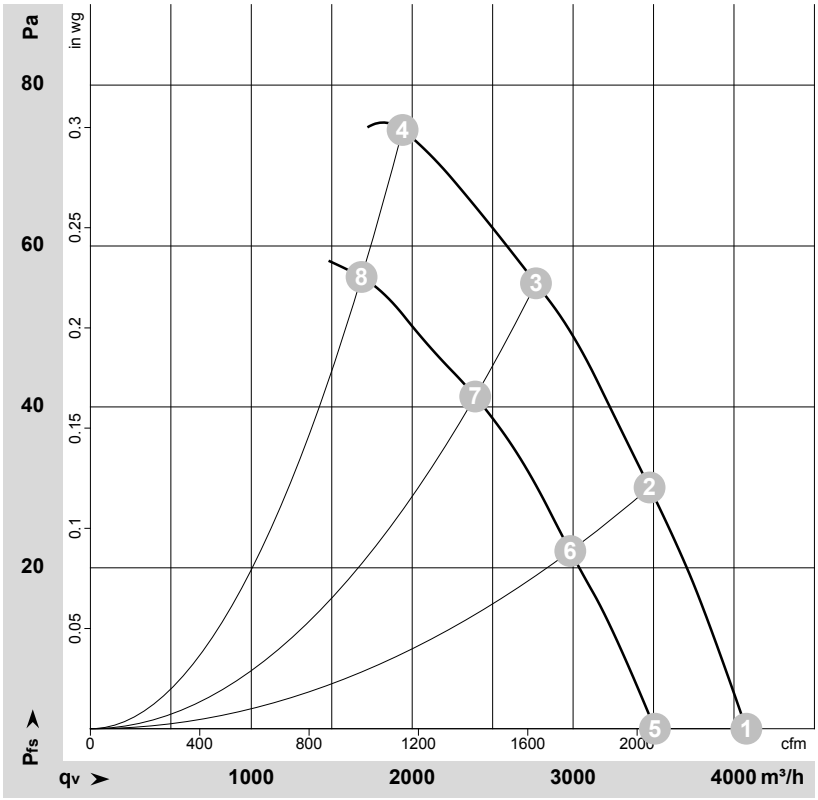
Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-137607-1
Measurement: LU-148864-1

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	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	in. wg
1	230	50	1135	116	0.97	62	69	4075	0	2400	0.00
2	230	50	1110	127	1.05	59	66	3475	30	2045	0.12
3	230	50	1095	133	1.09	55	63	2770	55	1630	0.22
4	230	50	1080	140	1.15	61	69	1940	75	1140	0.30
5	230	50	980	75	0.69			3510	0	2065	0.00
6	230	50	965	82	0.71			2985	22	1755	0.09
7	230	50	950	87	0.77			2390	42	1410	0.17
8	230	50	940	90	0.79			1685	56	990	0.22

U = Power supply · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
q_V = Air flow · p_{fs} = Pressure increase