A3G350-AN01-11

EC axial fan - HyBlade

sickle-shaped blades (S series)

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ErP2015 EXCEEDS THE NORM

Nominal data

Type	**A3G350-AN01-11**
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	min^{-1}	1475
Power consumption	W	165
Current draw	A	1.35
Max. back pressure	Pa	100
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 ErP Directive

		Actual	Req. 2015
01 Overall efficiency η_{es}	%	39.8	28.6
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		51.2	40
05 Variable speed drive		Yes	

09 Power consumption P_{ed}	kW	0.16
09 Air flow q_v	m^3/h	2400
09 Pressure increase p_{fs}	Pa	87
10 Speed n	min^{-1}	1495
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-134592

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Technical description

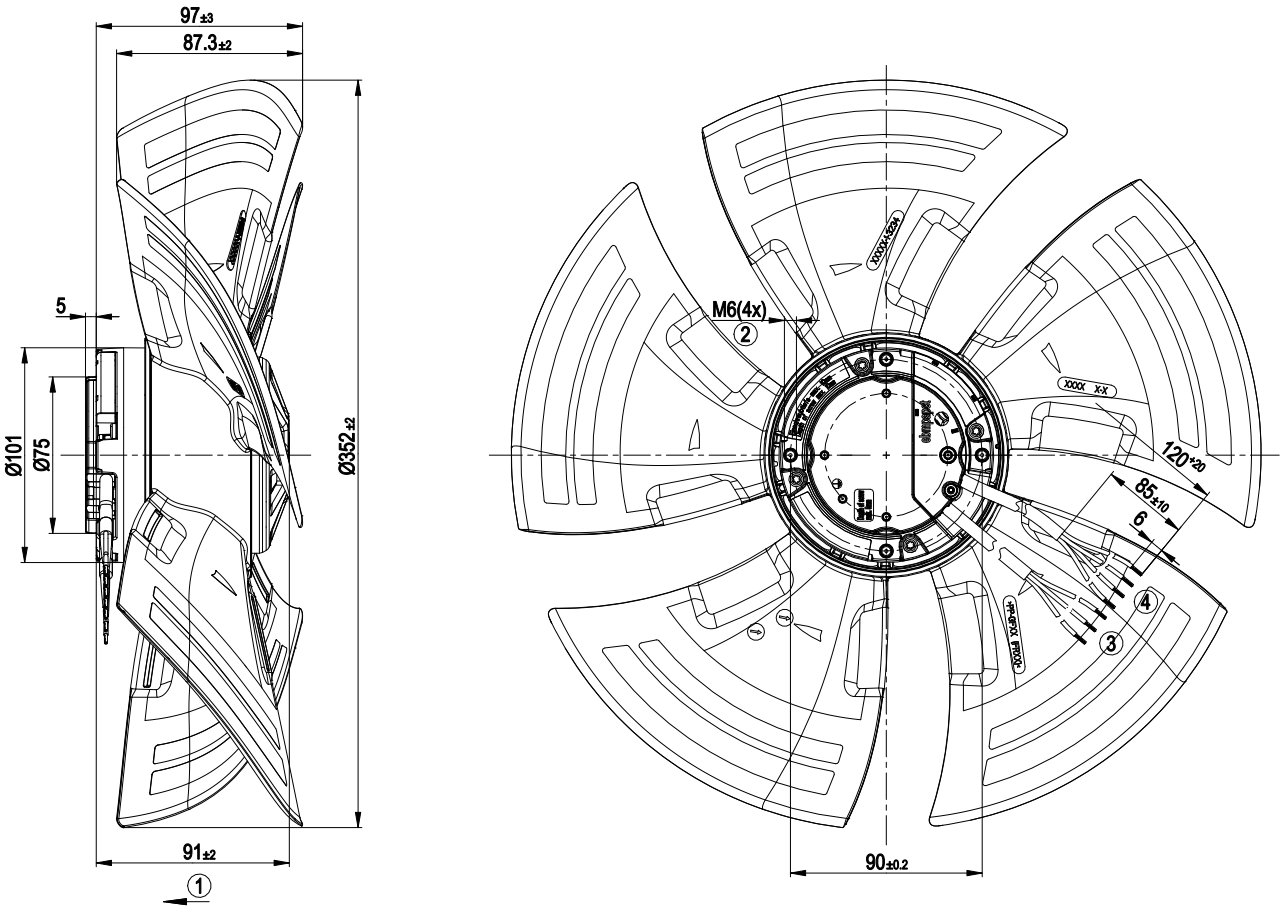
Weight	2 kg
Fan size	350 mm
Terminal box material	ABS plastic
Blade material	PP plastic
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F3-1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	None, open rotor
Cooling hole/opening	On rotor side
Mode	S1
Motor storage	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Thermal overload protection for electronics/motor
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	PTC thermistor
With cable	Variable
Protection class	I (with customer connection of protective earth)
Approval	CCC

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Product drawing



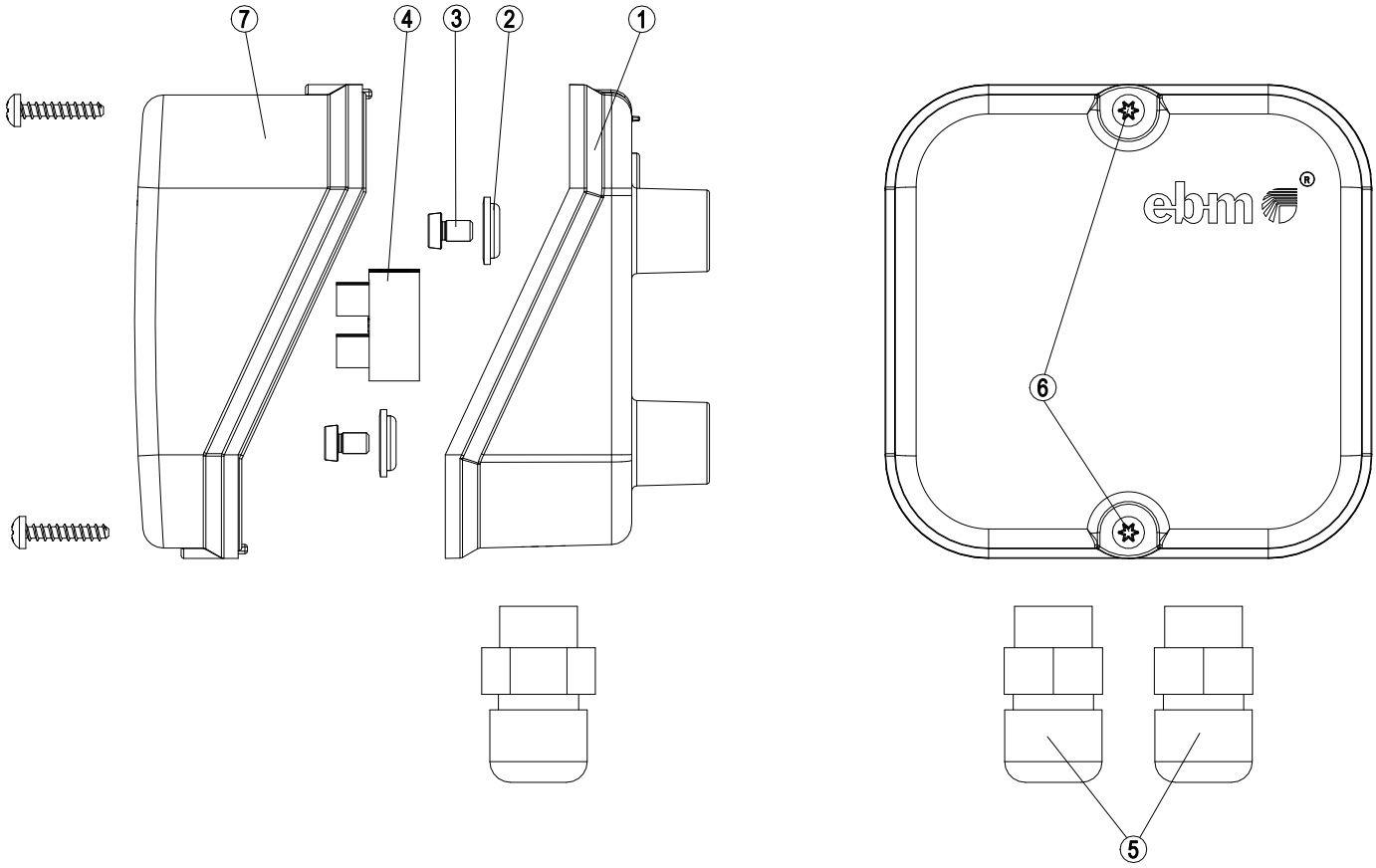
1	Direction of air flow "V"
2	Max. clearance for screw 10 mm
3	Cable PVC 3G AWG20, 3x crimped splices
4	Cable PVC 4x AWG22, 4x crimped splices
	Terminal box included separately

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Accessory part



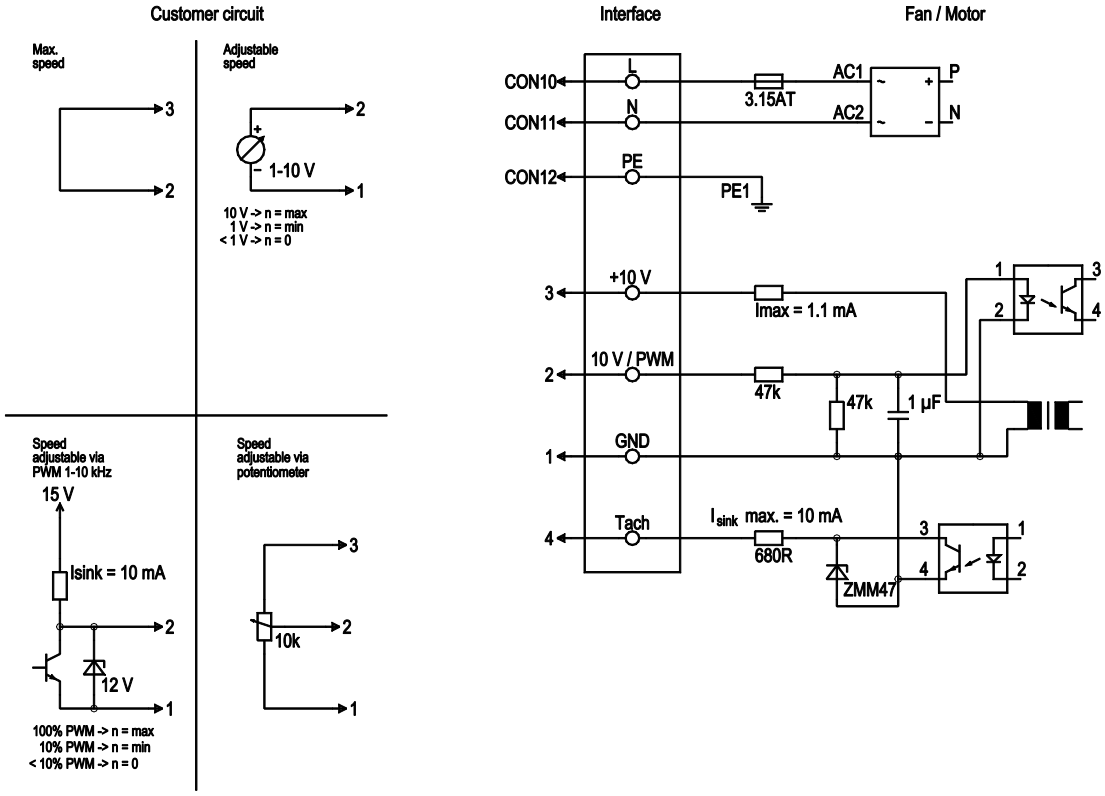
	Accessory parts, included separately:
	Zipped plastic bag
1	Base of terminal box
2	4x washers
3	4x cheese-head screws, tightening torque 2.2 ± 0.2 Nm
4	Terminal strip
5	Cable gland, cable diameter max. 7.5 mm, tightening torque 1.3 ± 0.2 Nm
6	2x oval-head screws, tightening torque 0.5 ± 0.2 Nm
7	Terminal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

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Connection diagram



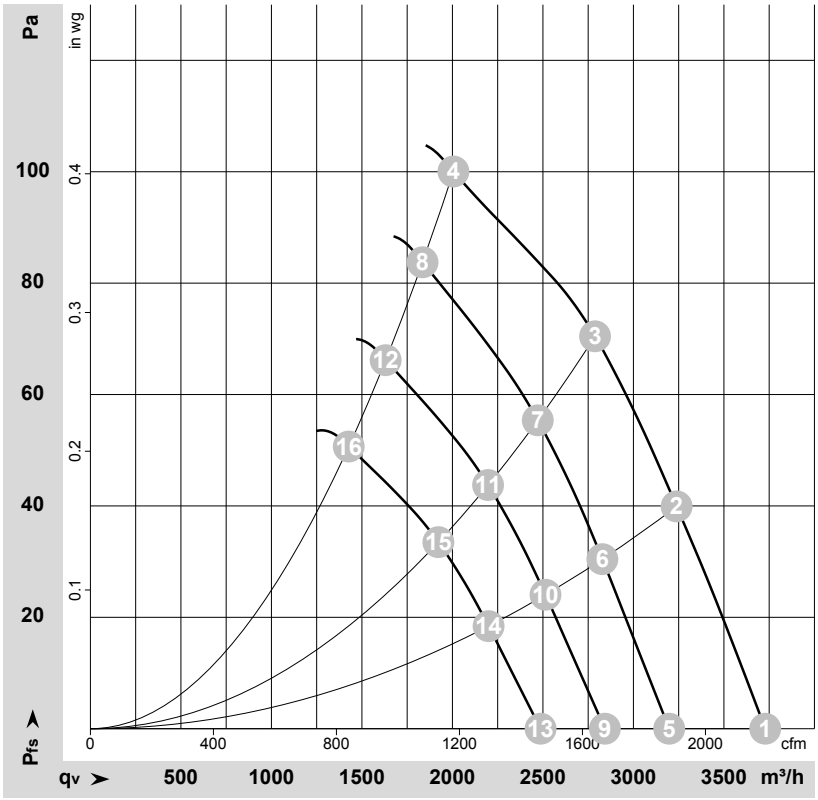
No.	Conn.	Designation	Color	Function/assignment
	CON10	L	black	Power supply 230 VAC, 50-60 Hz, see nameplate for voltage range
	CON11	N	blue	Neutral conductor
	CON12	PE	green/yellow	Protective earth
	1	GND	blue	GND connection for control interface
	2	0- 10V PWM	yellow	Control input 0-10 V or PWM, electrically isolated
	3	10V/ max 1.1mA	red	Voltage output 10 V / 1.1 mA, electrically isolated, not short-circuit-proof, Isink = 10 mA
	4	Tach	white	Tach output: Open collector, 1 pulse per revolution, electrically isolated, Isink max = 10 mA

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Curves: Air performance 50 Hz



ρ = 1,15 kg/m³ ± 2%

Measurement: LU-134592

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}	qv	p_{fs}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa
1	230	50	1575	141	1.15	64	71	3730	0
2	230	50	1545	155	1.24	61	68	3240	40
3	230	50	1525	164	1.32	58	66	2790	70
4	230	50	1475	165	1.35	59	67	2005	100
5	230	50	1350	89	0.72	60	67	3200	0
6	230	50	1350	103	0.83	58	65	2830	31
7	230	50	1350	114	0.92	55	62	2470	55
8	230	50	1350	127	1.02	56	64	1835	84
9	230	50	1200	63	0.51	57	64	2840	0
10	230	50	1200	72	0.58	55	62	2515	24
11	230	50	1200	80	0.65	52	60	2195	44
12	230	50	1200	89	0.72	53	61	1630	66
13	230	50	1050	42	0.34	53	60	2485	0
14	230	50	1050	49	0.39	51	59	2200	19
15	230	50	1050	54	0.43	49	56	1920	34
16	230	50	1050	60	0.48	50	58	1425	51

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

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