A3G350-AG03-07

EC axial fan

sickle-shaped blades (S series)

A3G350-AG03-07 ebmpapst Datasheet
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Nominal data

Type	**A3G350-AG03-07**
Motor	**M3G055-DF**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Method of obtaining data		me
Speed	min^{-1}	1115
Power consumption	W	85
Current draw	A	0.73
Max. back pressure	Pa	60
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50

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

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Technical description

Weight	1.7 kg
Fan size	350 mm
Rotor surface	Thick-film passivated
Electronics housing material	Die-cast aluminum
Blade material	Press-fitted sheet steel blank, sprayed with PP plastic
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
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
Mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Power limiter - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Overvoltage detection - Thermal overload protection for electronics/motor - Line undervoltage detection
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Locked-rotor protection
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1

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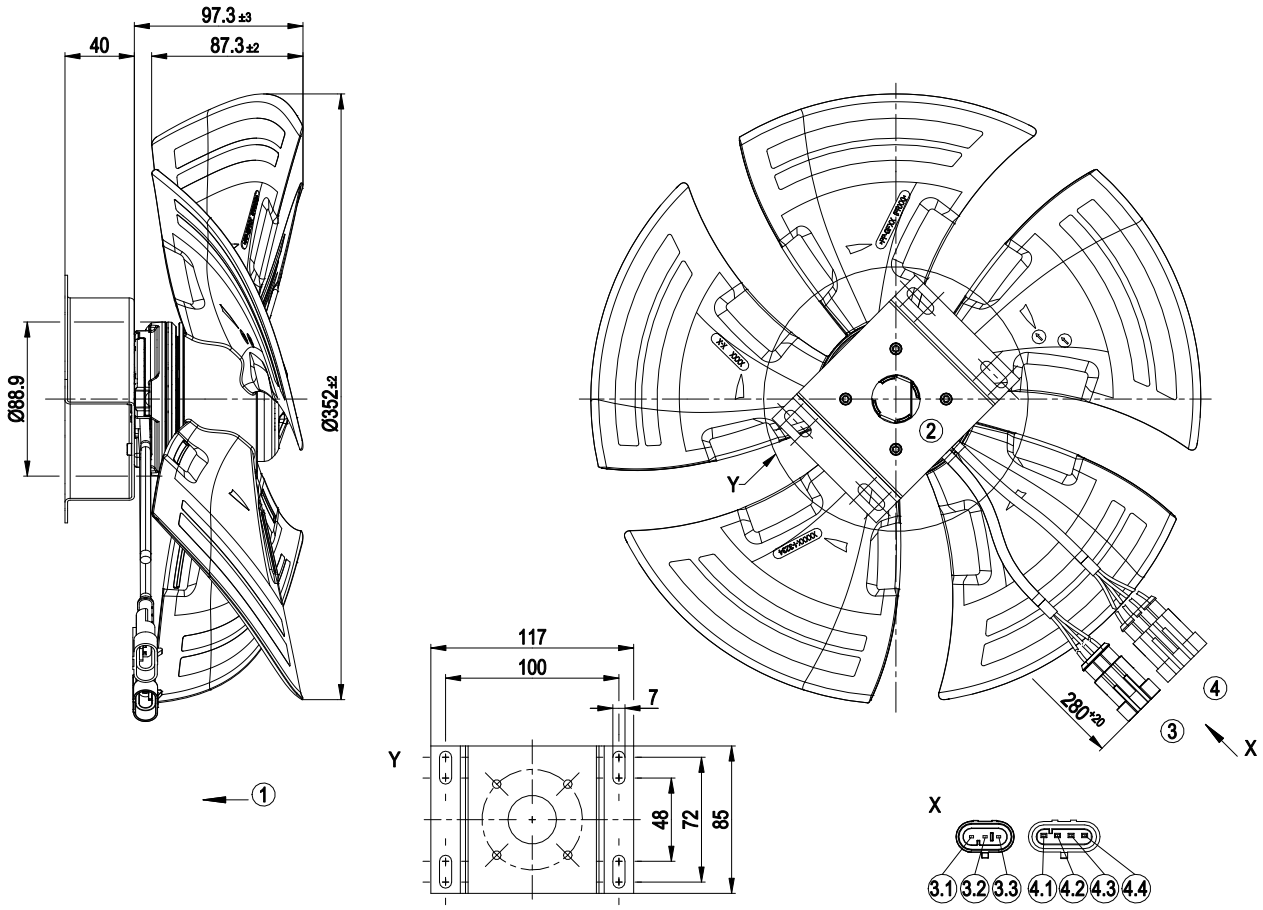
Product drawing



1	Direction of air flow "V"
2	Mounting bracket
3	Cable PVC 3X AWG20, AMP connector housing 282105-1 with 3x flat plug 282109-1
4	Cable PVC 4X AWG22, AMP connector housing 282106-1 with 4x flat plug 282109-1

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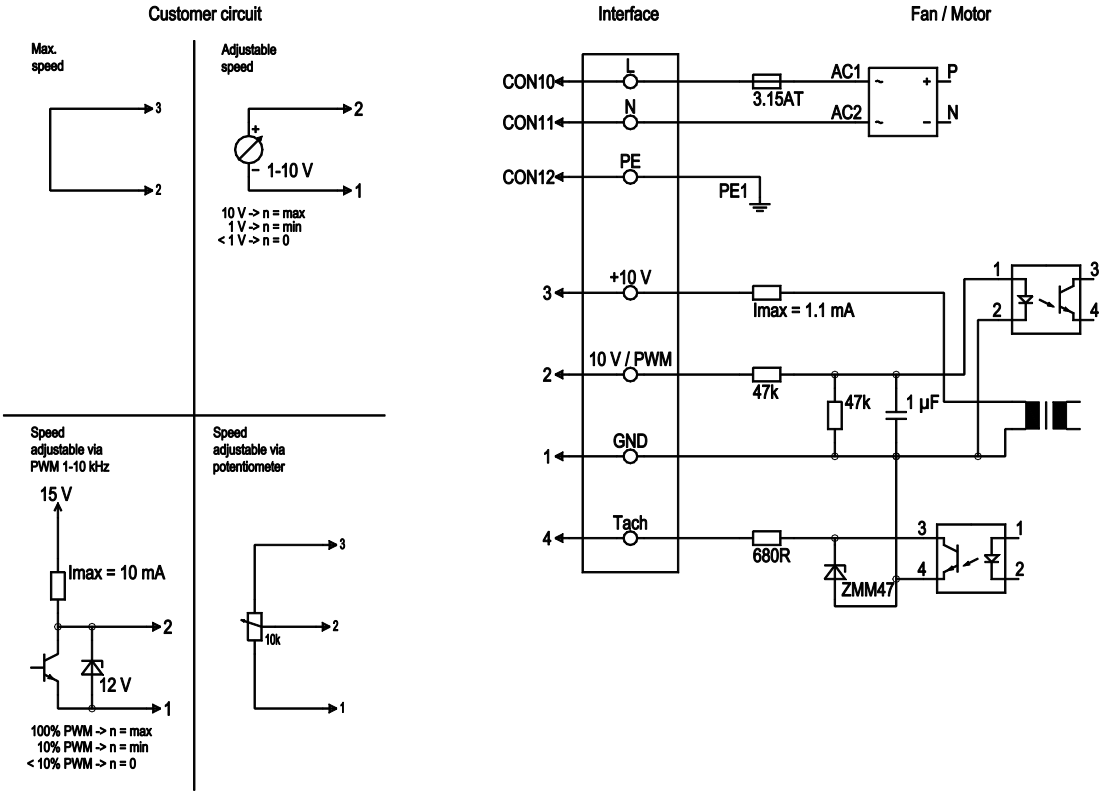
Connection diagram



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	10 V / max. 1,1 mA	red	Voltage output 10 VDC 1.1 mA, electrically isolated, short-circuit-proof
	4	Tacho	white	Tach output: open collector, 1 pulse per revolution, electrically isolated

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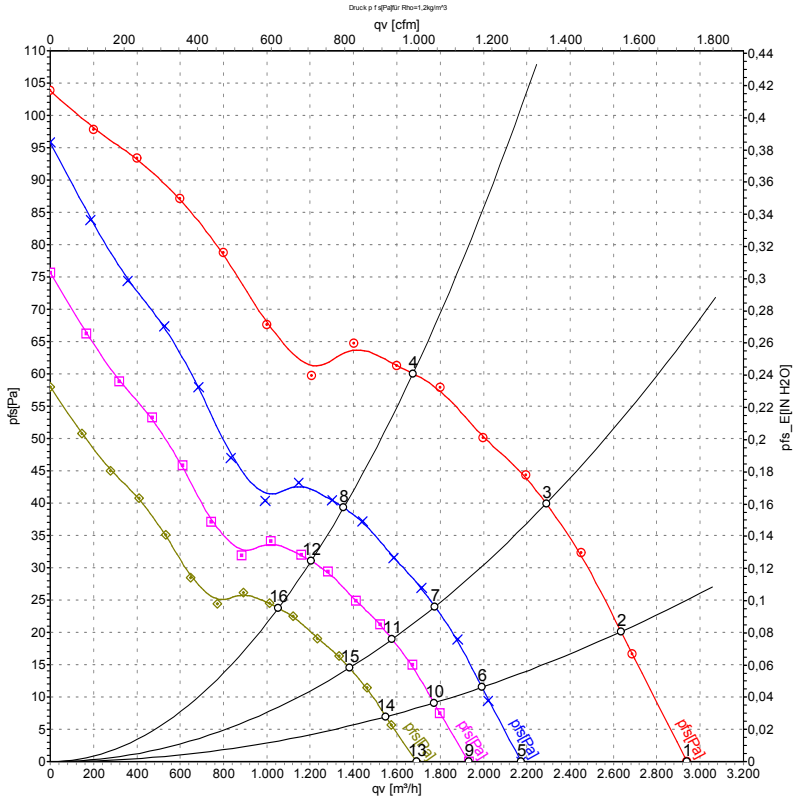
Curves: Air performance 50 Hz



Measurement: LU-132710

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

	Stage	U	f	n	P_{ed}	I	qv	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa
1	2	230	50	1215	75	0.63	2940	0
2	2	230	50	1190	80	0.67	2635	20
3	2	230	50	1160	84	0.70	2290	40
4	2	230	50	1115	85	0.73	1675	60
5	2	230	50	900	30	0.26	2175	0
6	2	230	50	900	34	0.29	1995	11
7	2	230	50	900	39	0.33	1775	24
8	2	230	50	900	45	0.38	1355	39
9	2	230	50	800	21	0.18	1930	0
10	2	230	50	800	24	0.21	1770	9
11	2	230	50	800	27	0.23	1580	19
12	2	230	50	800	31	0.26	1205	31
13	2	230	50	700	14	0.12	1690	0
14	2	230	50	700	16	0.14	1550	7
15	2	230	50	700	18	0.15	1380	14
16	2	230	50	700	21	0.18	1055	24

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