

EC axial fan

sickle-shaped blades (S series)

with support ring

S3G350-AG03-53 ebmpapst Datasheet

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Nominal data

Type	S3G350-AG03-53	
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 (rpm)	min ⁻¹	1115
Power consumption	W	85
Current draw	A	0.73
Max. back pressure	Pa	60
Max. back pressure	inH ₂ O	0.24
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	2.3 kg
Fan size	350 mm
Rotor surface	Thick-film passivated
Blade material	Press-fitted sheet steel blank, sprayed with PP plastic
Guard grille material	Steel, coated with black plastic (RAL 9005)
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
Electrical hookup	Via terminal box
Motor protection	Locked-rotor protection
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE

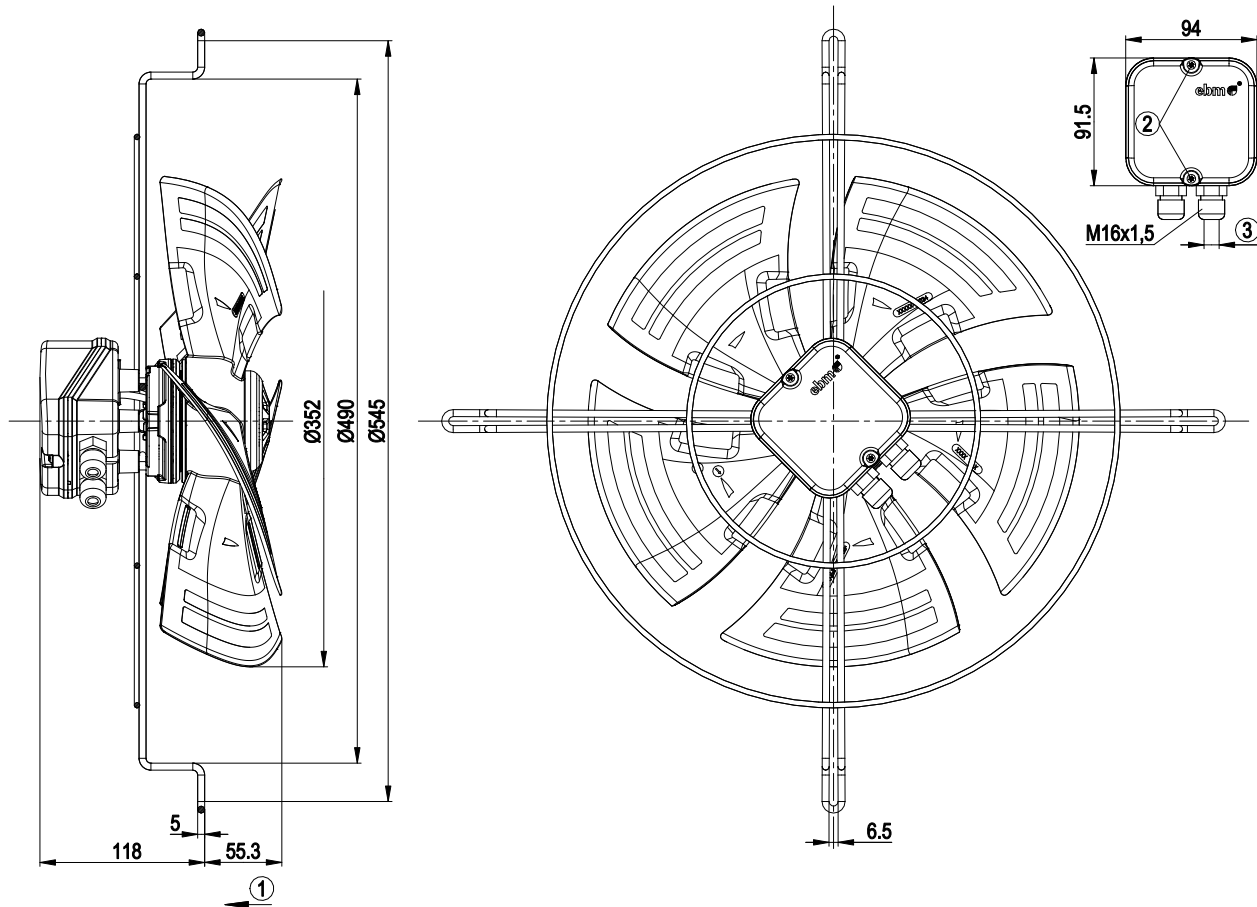


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Product drawing



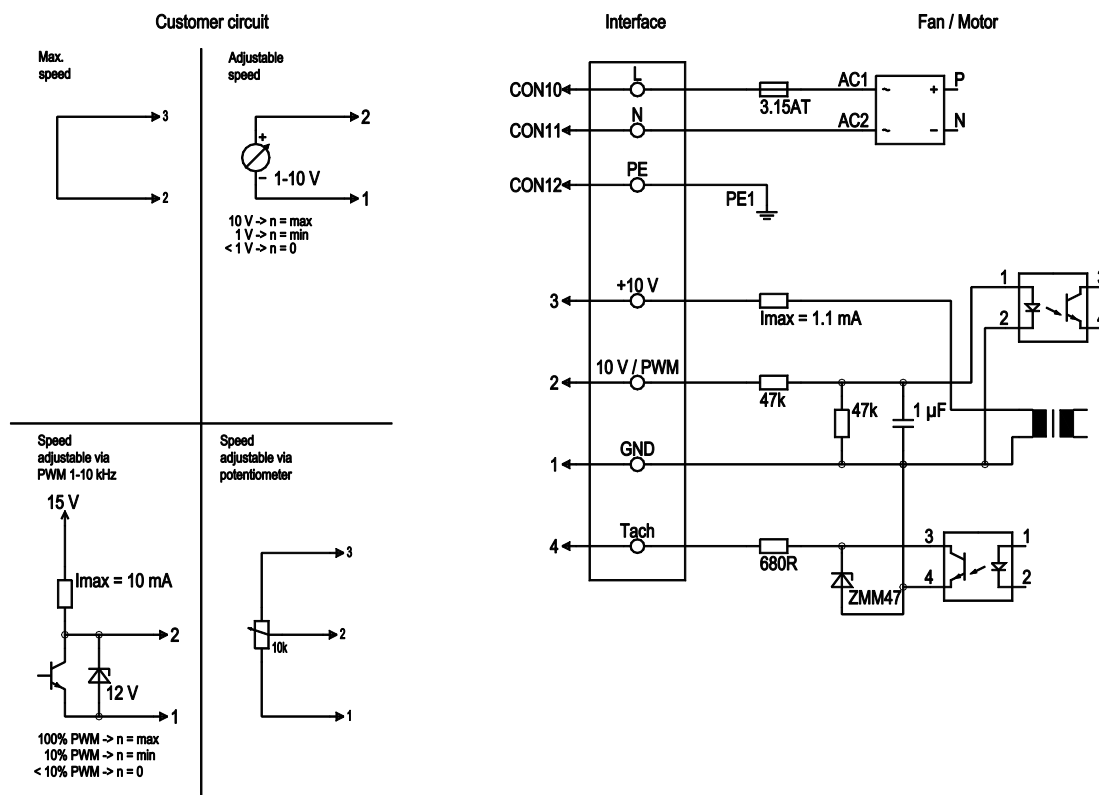
1	Direction of air flow "V"
2	Tightening torque 0.8 ± 0.15 Nm
3	Cable diameter max. 7.5 mm; tightening torque 2 ± 0.3 Nm

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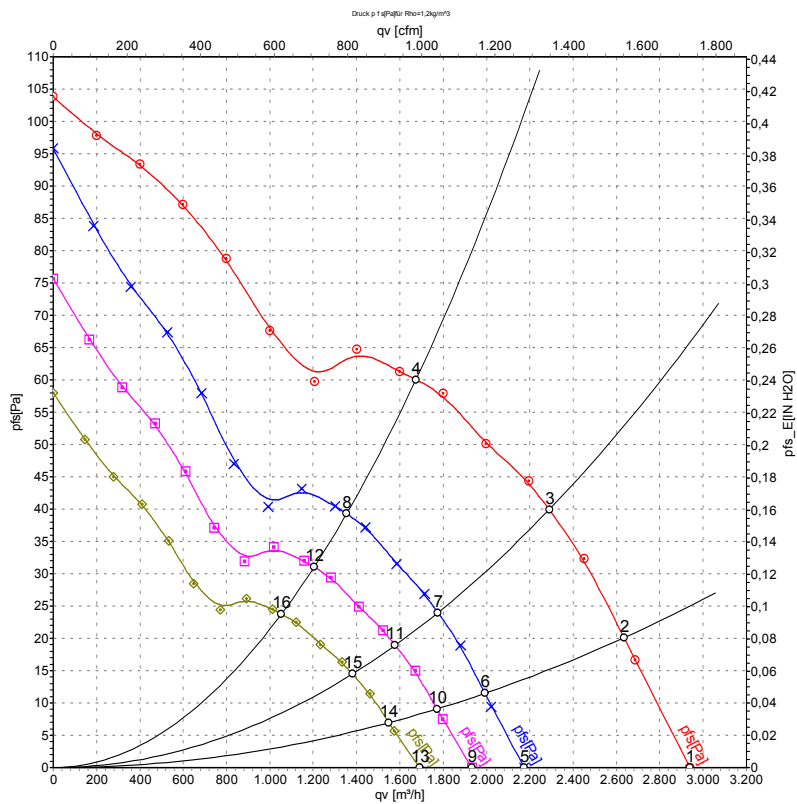
Connection diagram



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



Curves: Air performance 50 Hz



Measurement: LU-132710-1

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

	Stage	U	f	n	P _{ed}	I	qv	p _{fs}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	CFM	inH2O
1	2	230	50	1215	75	0.63	2940	0	1730	0.00
2	2	230	50	1190	80	0.67	2635	20	1550	0.08
3	2	230	50	1160	84	0.70	2290	40	1350	0.16
4	2	230	50	1115	85	0.73	1675	60	985	0.24
5	2	230	50	900	30	0.26	2175	0	1280	0.00
6	2	230	50	900	34	0.29	1995	11	1175	0.04
7	2	230	50	900	39	0.33	1775	24	1045	0.10
8	2	230	50	900	45	0.38	1355	39	795	0.16
9	2	230	50	800	21	0.18	1930	0	1135	0.00
10	2	230	50	800	24	0.21	1770	9	1040	0.04
11	2	230	50	800	27	0.23	1580	19	930	0.08
12	2	230	50	800	31	0.26	1205	31	710	0.12
13	2	230	50	700	14	0.12	1690	0	995	0.00
14	2	230	50	700	16	0.14	1550	7	910	0.03
15	2	230	50	700	18	0.15	1380	14	815	0.06
16	2	230	50	700	21	0.18	1055	24	620	0.10

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

