

EC axial fan

straight blades (A series)
with guard grille for full nozzle

S3G350-FF09-06 ebmpapst Datasheet

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Nominal data

Type	S3G350-FF09-06	
Motor	M3G055-CF	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	207 .. 253
Frequency	Hz	50/60
Method of obtaining data		me
Speed (rpm)	min ⁻¹	1100
Power consumption	W	69
Current draw	A	0.55
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

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	2.5 kg
Fan size	350 mm
Rotor surface	Thick-film passivated
Impeller material	PA plastic
Guard grille material	Steel, coated with black plastic (RAL 9005)
Number of blades	7
Airflow direction	"A"
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
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	On rotor side
Cooling hole/opening	On rotor side
Mode	S1
Motor bearing	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 motor
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
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
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Lateral
Protection class	I (with customer connection of protective earth)
Conformity with standards	CE

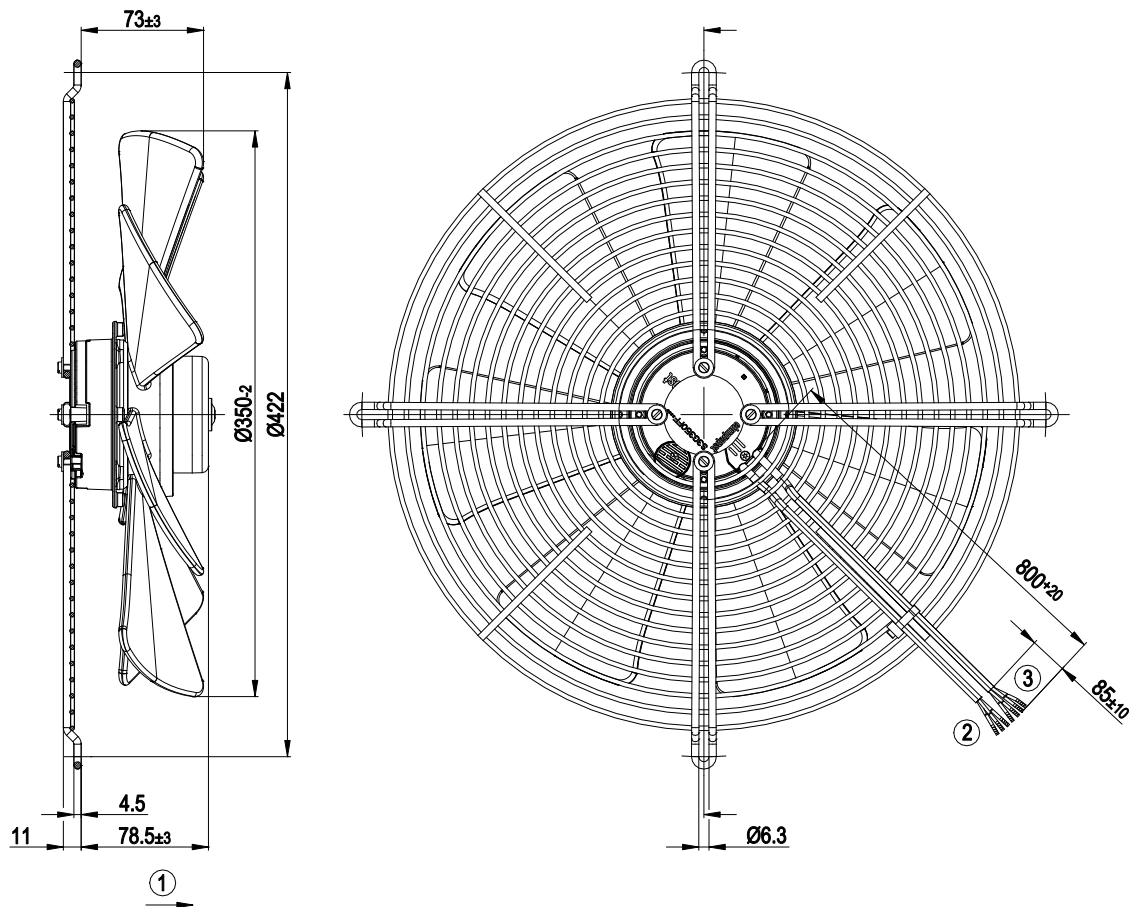


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Product drawing



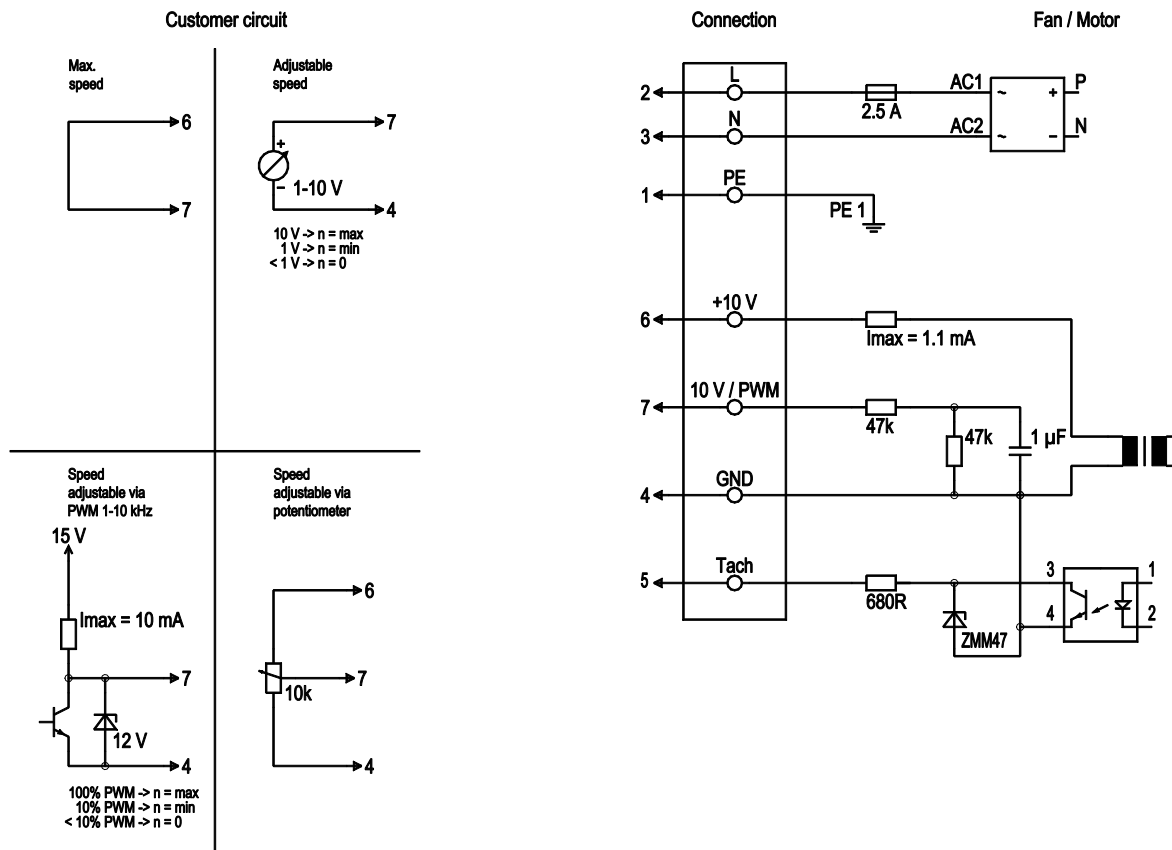
1	Direction of air flow "A"
2	Cable H03VV-F3G 0.5, 3 x crimped splices
3	Cable A03VV-F4x0.25, 4 x crimped splices

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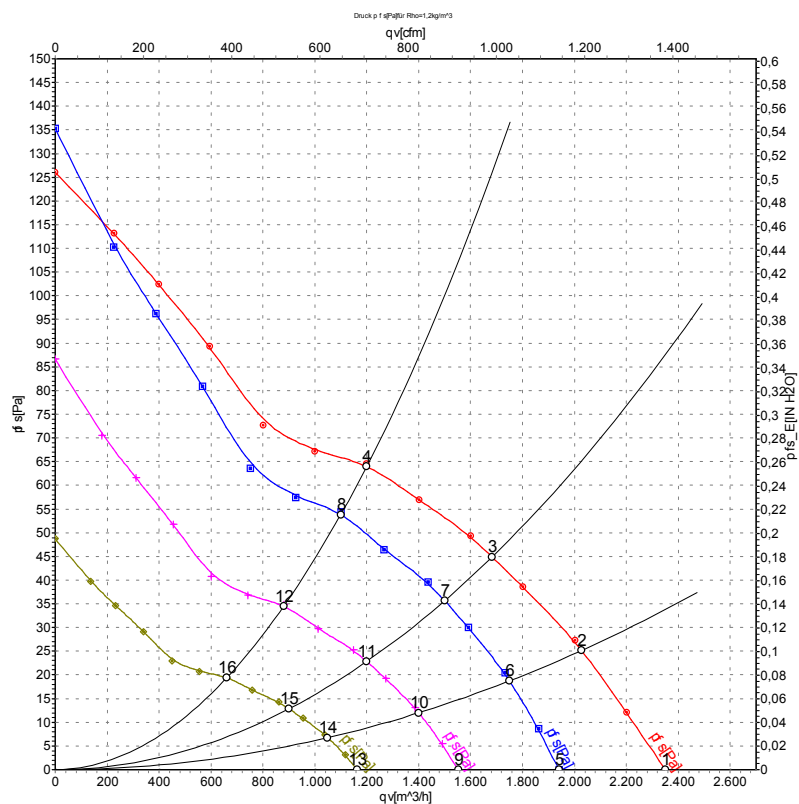
Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	2	L	brown	Power supply 230 VAC, 50-60 Hz, see nameplate for voltage range
	3	N	blue	Neutral conductor
	1	PE	green/yellow	Protective earth
	7	0-10 V PWM	yellow	Control input 0-10 V or PWM, electrically isolated
	5	Tach	white	Tach output: open collector, 1 pulse per revolution, electrically isolated
	6	10V / max. 1.1 mA	red	Voltage output 10 V / 1.1 mA, electrically isolated, not short-circuit-proof
	4	GND	blue	GND connection for control interface



Curves: Air performance 50 Hz



Measurement: LU-115505-1

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	m ³ /h	Pa	CFM	inH ₂ O
1	230	50	1210	56	0.42	2350	0	1385	0.00
2	230	50	1160	63	0.47	2025	25	1195	0.10
3	230	50	1120	67	0.50	1685	45	990	0.18
4	230	50	1100	69	0.55	1200	64	705	0.26
5	230	50	1000	32	0.24	1940	0	1140	0.00
6	230	50	1000	40	0.30	1750	19	1030	0.08
7	230	50	1000	47	0.36	1500	36	885	0.14
8	230	50	1000	54	0.41	1100	54	645	0.22
9	230	50	800	16	0.12	1555	0	915	0.00
10	230	50	800	21	0.16	1400	12	825	0.05
11	230	50	800	24	0.18	1200	23	705	0.09
12	230	50	800	28	0.21	880	35	520	0.14
13	230	50	600	6.8	0.05	1165	0	685	0.00
14	230	50	600	8.7	0.07	1050	7	615	0.03
15	230	50	600	10	0.08	900	13	530	0.05
16	230	50	600	12	0.09	660	20	390	0.08

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

