S3G350-FD09-08

EC axial fan

straight blades (A series)

with guard grille for full nozzle

Nominal data

Type	**S3G350-FD09-08**
Motor	**M3G055-CF**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Type of data definition		ml
Speed (rpm)	min^{-1}	1135
Power input	W	63
Current draw	A	0.6
Max. back pressure	Pa	55
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	55

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

EC axial fan

straight blades (A series)

with guard grille for full nozzle

Technical features

Mass	2.5 kg
Size	350 mm
Surface of rotor	Thick layer passivated
Material of impeller	PA plastic
Material of guard grille	Steel, coated in black plastic (RAL9005)
Number of blades	7
Direction of air flow	"A"
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54; Depending on installation and position as per EN 60034-5
Insulation class	"B"
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	None, open rotor
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Tach output - Output limit - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Overvoltage detection - Over-temperature protected electronics / motor - Line undervoltage detection
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	<= 3.5 mA
Motor protection	Locked-rotor protection
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	CE

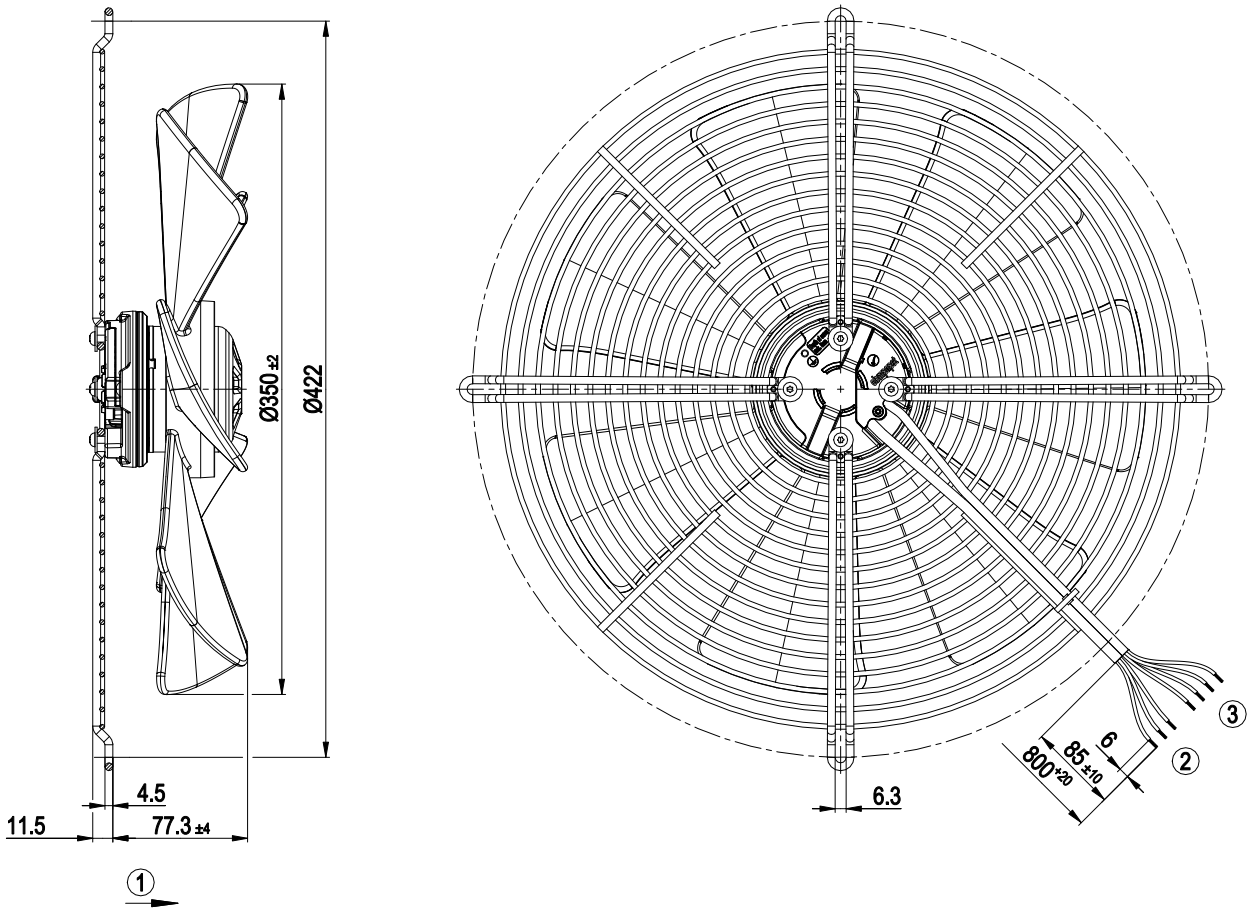
S3G350-FD09-08

EC axial fan

straight blades (A series)

with guard grille for full nozzle

Product drawing



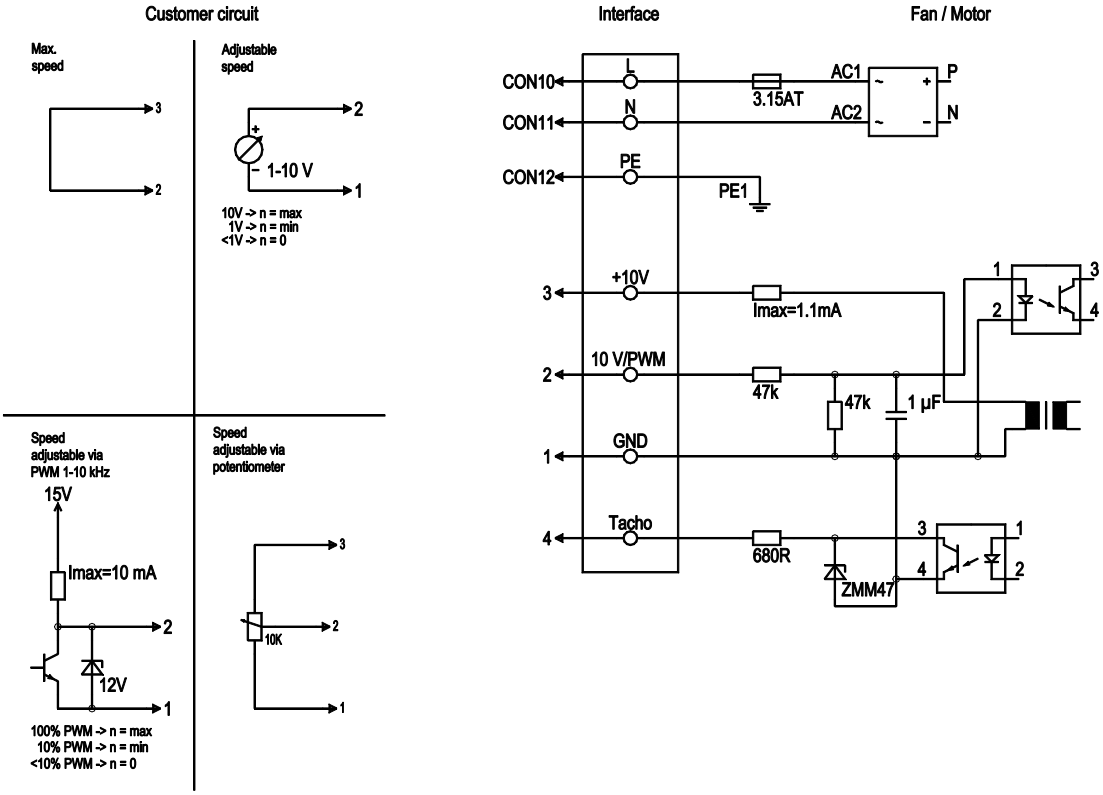
1	Direction of air flow "A"
2	Connection line PVC 3G AWG20, 3x lead tips crimped
3	Connection line PVC 4x AWG22, 4x lead tips crimped

EC axial fan

straight blades (A series)

with guard grille for full nozzle

Connection screen



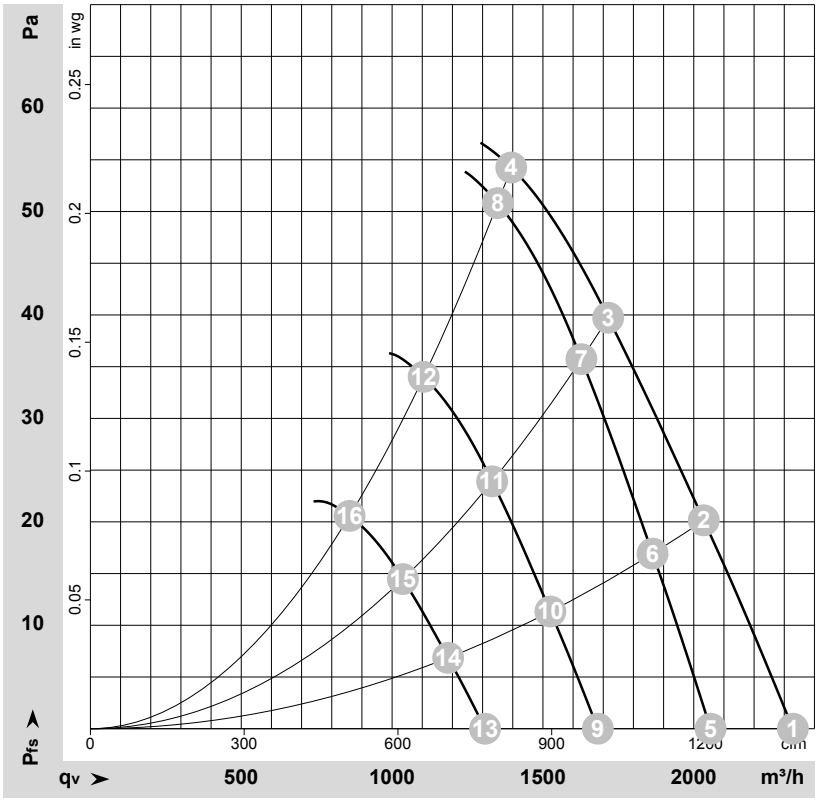
No.	Conn.	Designation	Colour	Function / assignment
	CON10	L	black	Power supply 230 VAC, 50-60 Hz, see type plate for voltage range
	CON11	N	blue	Neutral conductor
	CON12	PE	green/yellow	Protective earth
	1	GND	blue	GND connection for control interface
	2	0-10V PWM	yellow	Control input 0-10 V or PWM, 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

EC axial fan

straight blades (A series)

with guard grille for full nozzle

Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-180978-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	U	f	n	P_{ed}	I	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	50	1245	50	0.48	2330	0	1370	0.00
2	230	50	1200	56	0.53	2035	20	1195	0.08
3	230	50	1160	61	0.57	1715	40	1010	0.16
4	230	50	1135	63	0.60	1395	55	820	0.22
5	230	50	1100	35	0.33	2055	0	1210	0.00
6	230	50	1100	43	0.41	1865	17	1095	0.07
7	230	50	1100	52	0.48	1630	36	960	0.14
8	230	50	1100	58	0.53	1350	51	795	0.20
9	230	50	900	19	0.18	1680	0	990	0.00
10	230	50	900	24	0.22	1525	11	900	0.04
11	230	50	900	28	0.26	1330	24	785	0.10
12	230	50	900	32	0.29	1105	34	650	0.14
13	230	50	700	9.0	0.09	1310	0	770	0.00
14	230	50	700	11	0.11	1185	7	700	0.03
15	230	50	700	13	0.12	1035	14	610	0.06
16	230	50	700	15	0.14	860	21	505	0.08

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power input · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase