

EC axial panel fan - HyBlade

sickle-shaped blades (S series), single-intake
with guard grille for short nozzle

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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	S1G300-HQ01-11				
Motor	M1G055-DF				
Phase		1~	1~	1~	1~
Nominal voltage	VAC	230	230	230	230
Nominal voltage range	VAC	200 .. 240	200 .. 240	200 .. 240	200 .. 240
Frequency	Hz	50/60	50/60	50/60	50/60
Method of obtaining data		ml			
Speed (rpm)	min ⁻¹	1600	1400	1200	1000
Power consumption	W	85			
Current draw	A	0.7			
Max. back pressure	Pa	50			
Max. back pressure	in. wg	0.2			
Min. ambient temperature	°C	-40	-40	-40	-40
Max. ambient temperature	°C	40	40	40	40

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

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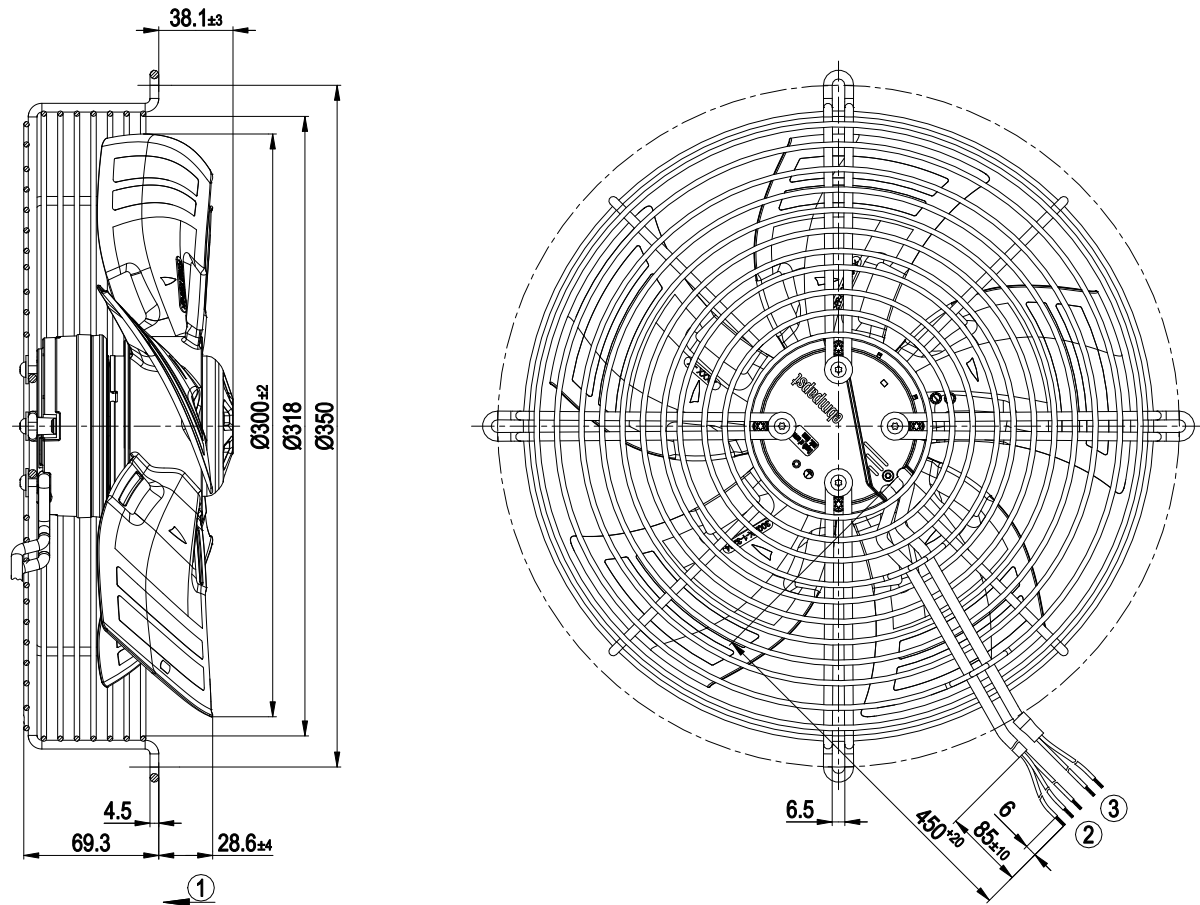
Technical description

Weight	2.8 kg
Size	300 mm
Motor size	55
Rotor surface	Thick-film passivated
Impeller 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"
Moisture (F) / Environmental (H) protection class	H1
Max. permitted ambient temp. for motor (transport/storage)	+ 70 °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 with low-temperature lubricant
Technical features	- Speed setting input (230 V) - Power limiter - Motor current limitation - Soft start - Thermal overload protection for motor
Speed levels	4
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 switch auto reset, internally connected
With cable	Lateral
Protection class assignment	I; If a protective earth is connected. The built-in component has several local protection class assignments. The final protection class is determined by the intended installation.
Safety class of the permissible refrigerants according to EN378 / ISO5149-1	A3/B3
Maximum surface temperature	253 °C
Conformity with standards	EN 60034-1; EN 60204-1; EN 60335-1; EN 60335-2-89; CE
Comment on CE	Ecodesign Directive 2009/125/EC + Fan Directive (EC) No. 327/2011 does not apply, as power consumption <125W.
Approval	EAC

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Product drawing

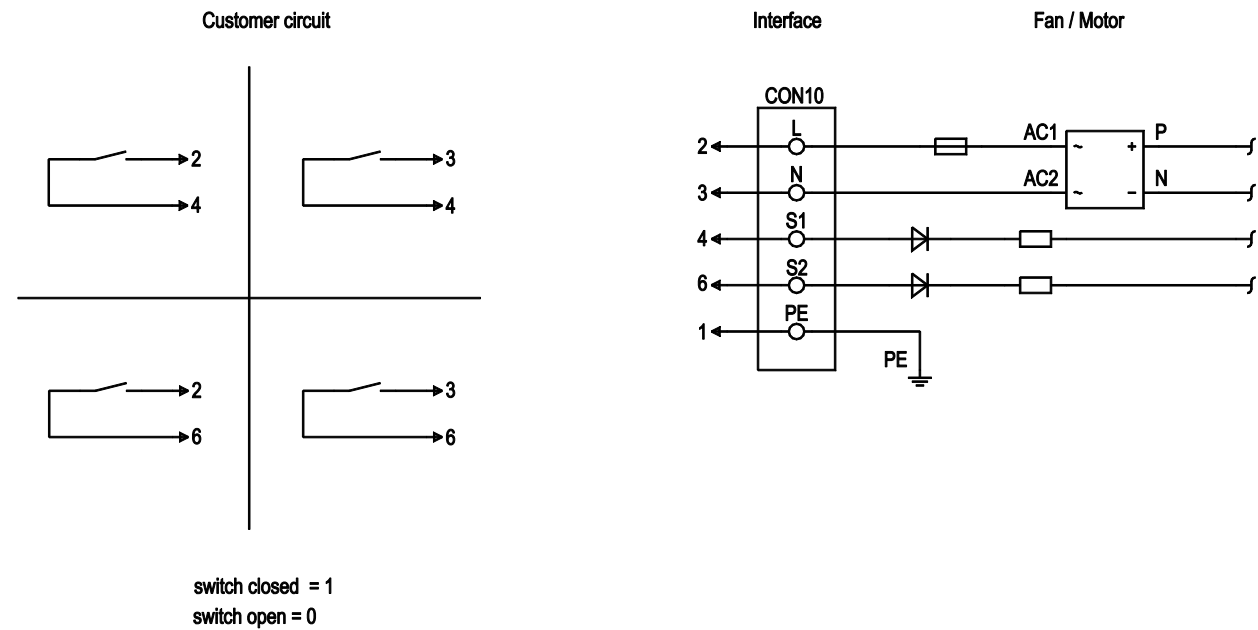


1	Airflow direction "V"
2	Cable PVC AWG20
	3x splice
3	Cable PVC AWG22
	2x splice

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Connection diagram



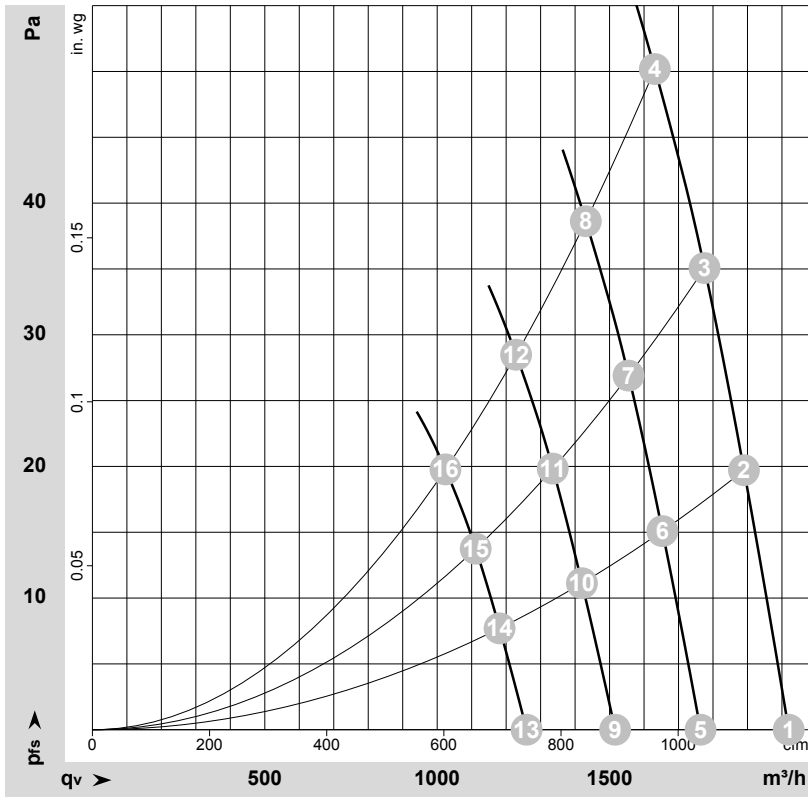
S1	S2	level of rotation speed
0	0	1
1	0	2
0	1	3
1	1	4

No.	Conn.	Designation	Color	Function/assignment
2	L		black	Power supply, phase, see nameplate for voltage range
3	N		blue	Power supply, neutral conductor, see nameplate for voltage range
1	PE		green/yellow	Protective earth
4	S1		yellow	Speed selection: see table
6	S2		white	Speed selection: see table

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Curves: Air performance 50 Hz



$$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$$

Measurement: LU-190915-1
Date: 2018-01-31

Measurement: LU-191137-1
Date: 2018-01-31

Measurement: LU-191140-1
Date: 2018-01-31

Measurement: LU-191142-1
Date: 2018-01-31

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	Wired	U	f	n	P _{ed}	I	q _v	p _{fs}	q _v	p _{fs}
			V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	1	1~	230	50	1600	68	0.59	2020	0	1190	0.00
2	1	1~	230	50	1600	74	0.64	1890	20	1110	0.08
3	1	1~	230	50	1600	79	0.68	1775	35	1045	0.14
4	1	1~	230	50	1600	85	0.70	1630	50	960	0.20
5	2	1~	230	50	1400	47	0.42	1765	0	1040	0.00
6	2	1~	230	50	1400	51	0.45	1655	16	975	0.06
7	2	1~	230	50	1400	54	0.48	1555	27	915	0.11
8	2	1~	230	50	1400	58	0.51	1430	39	840	0.16
9	3	1~	230	50	1200	30	0.28	1515	0	890	0.00
10	3	1~	230	50	1200	33	0.30	1420	12	835	0.05
11	3	1~	230	50	1200	35	0.31	1335	20	785	0.08
12	3	1~	230	50	1200	37	0.33	1230	29	725	0.12
13	4	1~	230	50	1000	18	0.17	1260	0	740	0.00
14	4	1~	230	50	1000	20	0.18	1180	8	695	0.03
15	4	1~	230	50	1000	21	0.19	1110	14	655	0.06
16	4	1~	230	50	1000	22	0.20	1025	20	605	0.08

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