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General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	S1G300-DN01-02		
Motor	M1G055-DF		
Phase		1~	1~
Nominal voltage	VAC	230	230
Nominal voltage range	VAC	200 .. 240	200 .. 240
Frequency	Hz	50/60	50/60
Method of obtaining data		ml	
Speed (rpm)	min ⁻¹	1400	1100
Power consumption	W	62	
Current draw	A	0.55	
Max. back pressure	Pa	55	
Max. back pressure	in. wg	0.22	
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	40	40

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

Subject to change

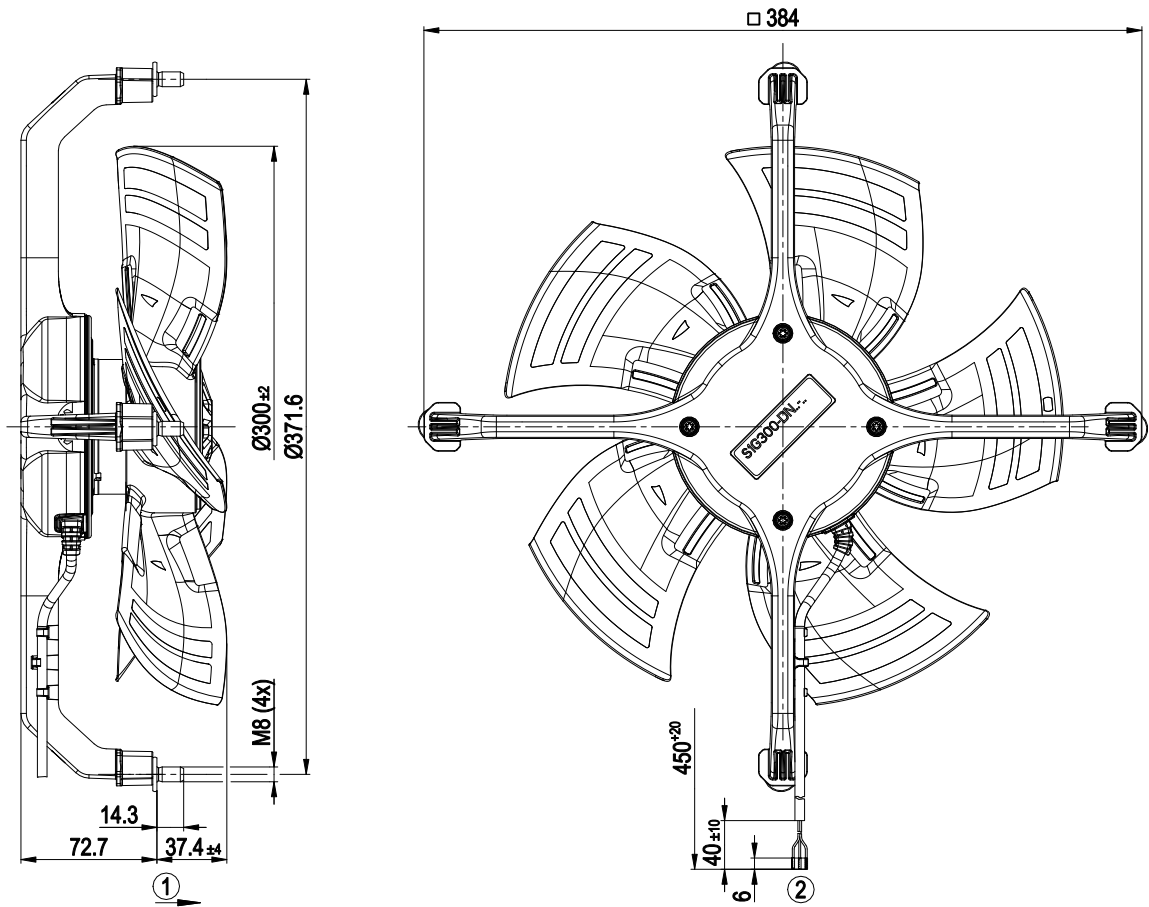
Technical description

Weight	1.6 kg
Size	300 mm
Motor size	55
Rotor surface	Thick-film passivated
Blade material	PP plastic
Number of blades	5
Airflow direction	A
Direction of rotation	Clockwise, 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)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal
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	2
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)	≤ 0.25 mA
Motor protection	Thermal switch auto reset, internally connected
With cable	Lateral
Protection class assignment	II; The built-in component has several local protection class assignments. The final protection class is determined by the intended installation.
Conformity with standards	CE
Comment on CE	Ecodesign Directive 2009/125/EC + Fan Directive (EC) No. 327/2011 does not apply, as power consumption <125 W.
Approval	CCC; EAC

EC axial panel fan - HyBlade

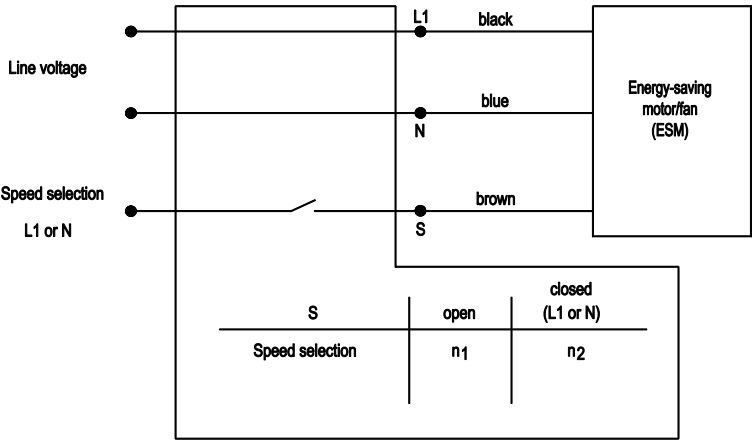
sickle-shaped blades (S series), single-intake

Product drawing

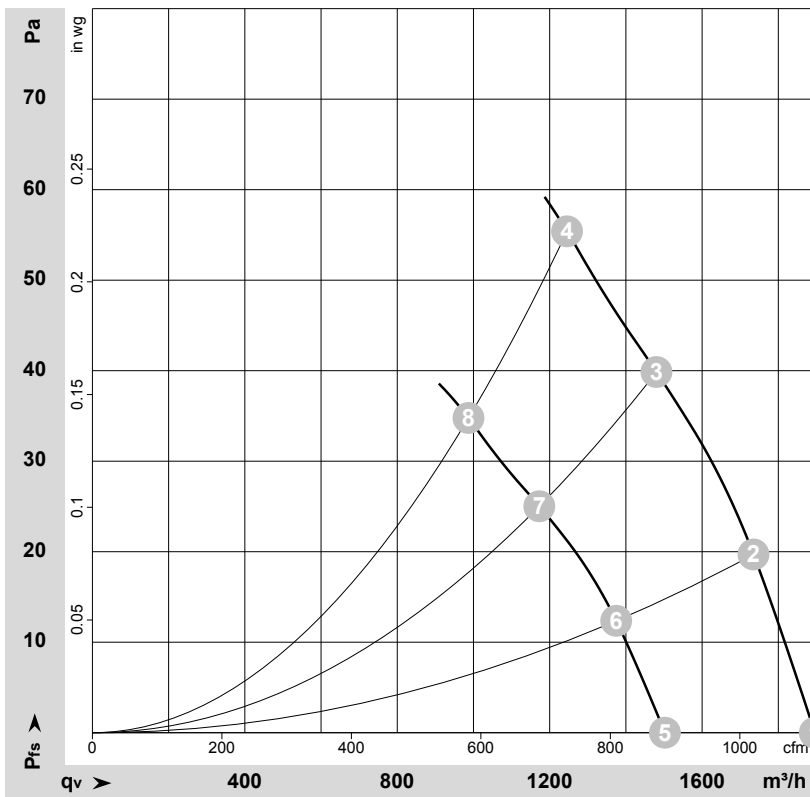


- | | |
|---|-------------------------------------|
| 1 | Direction of air flow "A" |
| 2 | Cable PVC AWG18, 3x crimped splices |

Connection diagram



Curves: Air performance 50 Hz



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

Measurement: LU-178706-1
Date: 2016-04-20

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	LpA _{in}	LwA _{in}	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	230	50	1400	41	0.37	57	65	1895	0	1115	0.00
2	230	50	1400	47	0.42	55	63	1735	20	1020	0.08
3	230	50	1400	54	0.48	53	61	1480	40	870	0.16
4	230	50	1400	62	0.55	53	61	1245	55	735	0.22
5	230	50	1100	20	0.19	51	59	1500	0	885	0.00
6	230	50	1100	23	0.21	49	57	1375	12	810	0.05
7	230	50	1100	27	0.24	48	56	1175	25	690	0.10
8	230	50	1100	30	0.26	47	55	985	35	580	0.14

U = Voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
q_v = Air flow · p_{fs} = Pressure increase