S1G305-DA01-02

EC axial panel fan - HyBlade

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

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Nominal data

Type	**S1G305-DA01-02**		
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}	1600	1200
Power consumption	W	60	
Current draw	A	0.5	
Max. back pressure	Pa	70	
Max. back pressure	in. wg	0.28	
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

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Technical description

Weight	1.5 kg
Size	305 mm
Motor size	55
Rotor surface	Cast in PP plastic
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)	+ 70 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal
Condensation drainage holes	None
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; <= 3.5 mA
Motor protection	Locked-rotor protection
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 <125W.
Approval	EAC; CCC

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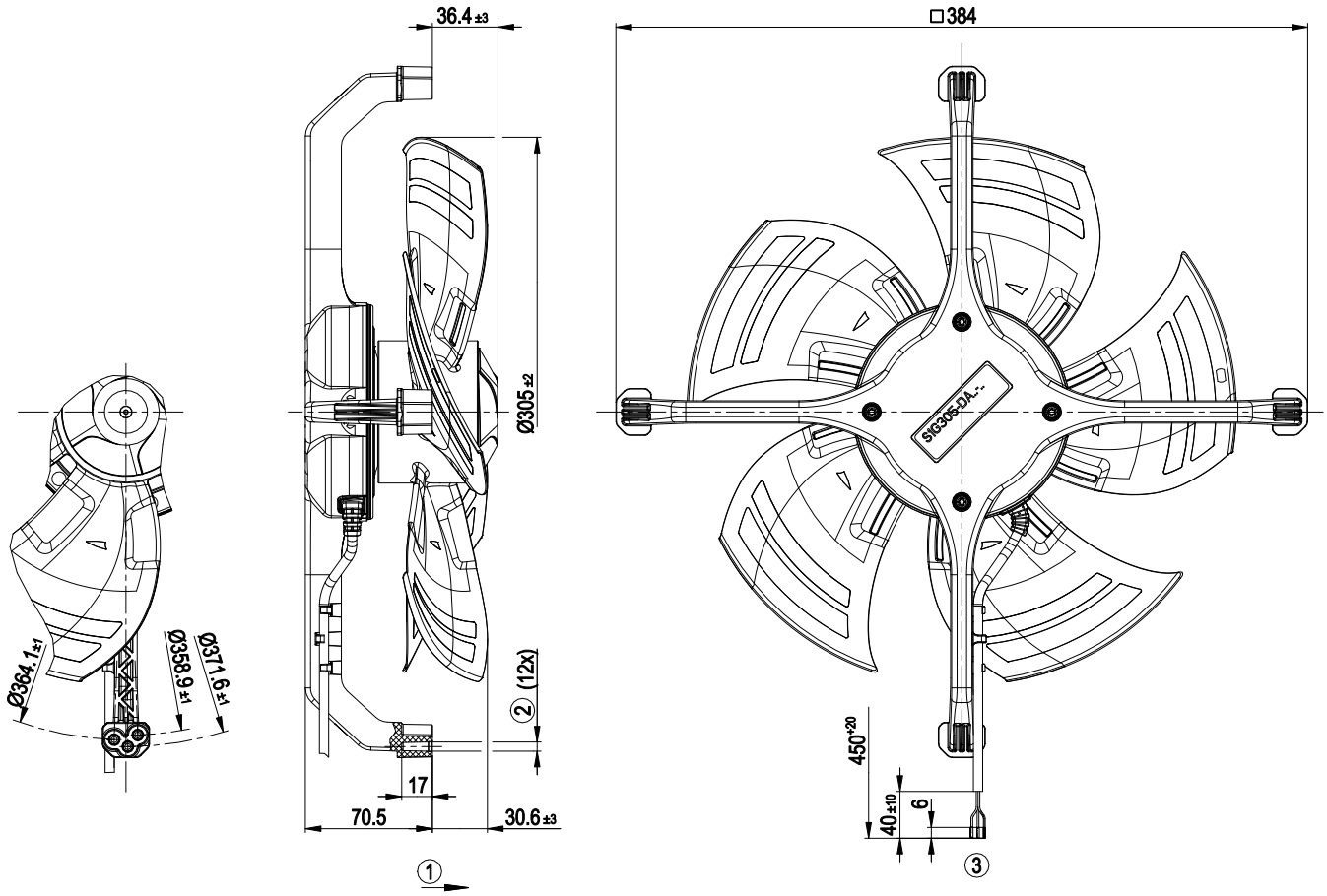
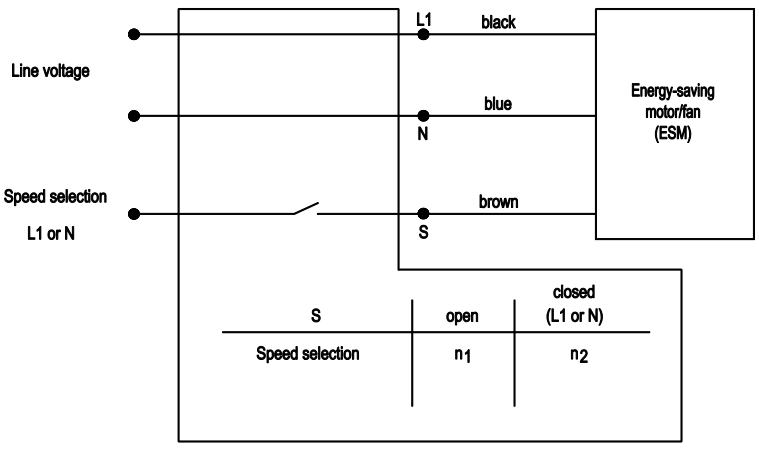
Product drawing



1	Direction of air flow "A"
2	Tapping hole ready for Ø 6 mm self-tapping screw for fastening plastics
3	Cable PVC AWG18, 3x crimped splices

Connection diagram



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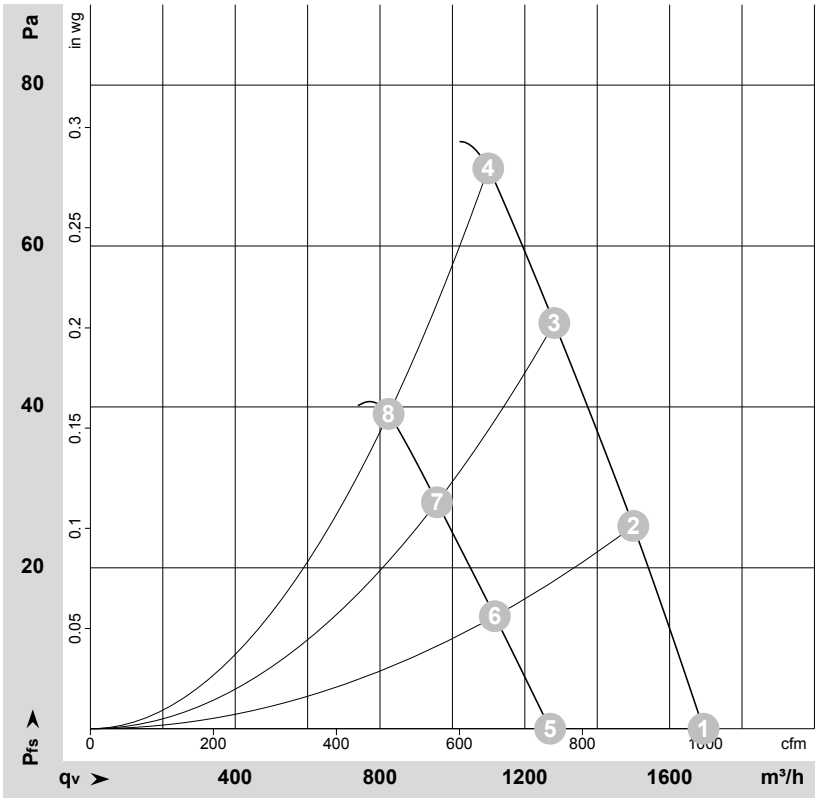
Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-167817-1
Date: 2014-11-07

Measurement: LU-167865-1
Date: 2014-11-07

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	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	230	50	1600	35	0.32	1695	0	995	0.00
2	230	50	1600	44	0.39	1500	25	885	0.10
3	230	50	1600	52	0.46	1280	50	755	0.20
4	230	50	1600	60	0.50	1100	70	645	0.28
5	230	50	1200	16	0.17	1270	0	745	0.00
6	230	50	1200	20	0.20	1115	14	655	0.06
7	230	50	1200	23	0.22	955	28	565	0.11
8	230	50	1200	26	0.25	825	39	485	0.16

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

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