S1G305-DA01-02

EC axial fan - ESM

sickled blades (S series), single inlet

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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
Type of data definition		ml	
Speed (rpm)	min^{-1}	1600	1200
Power input	W	60	-
Current draw	A	0.5	
Max. back pressure	Pa	70	
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	40	40

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

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Technical features

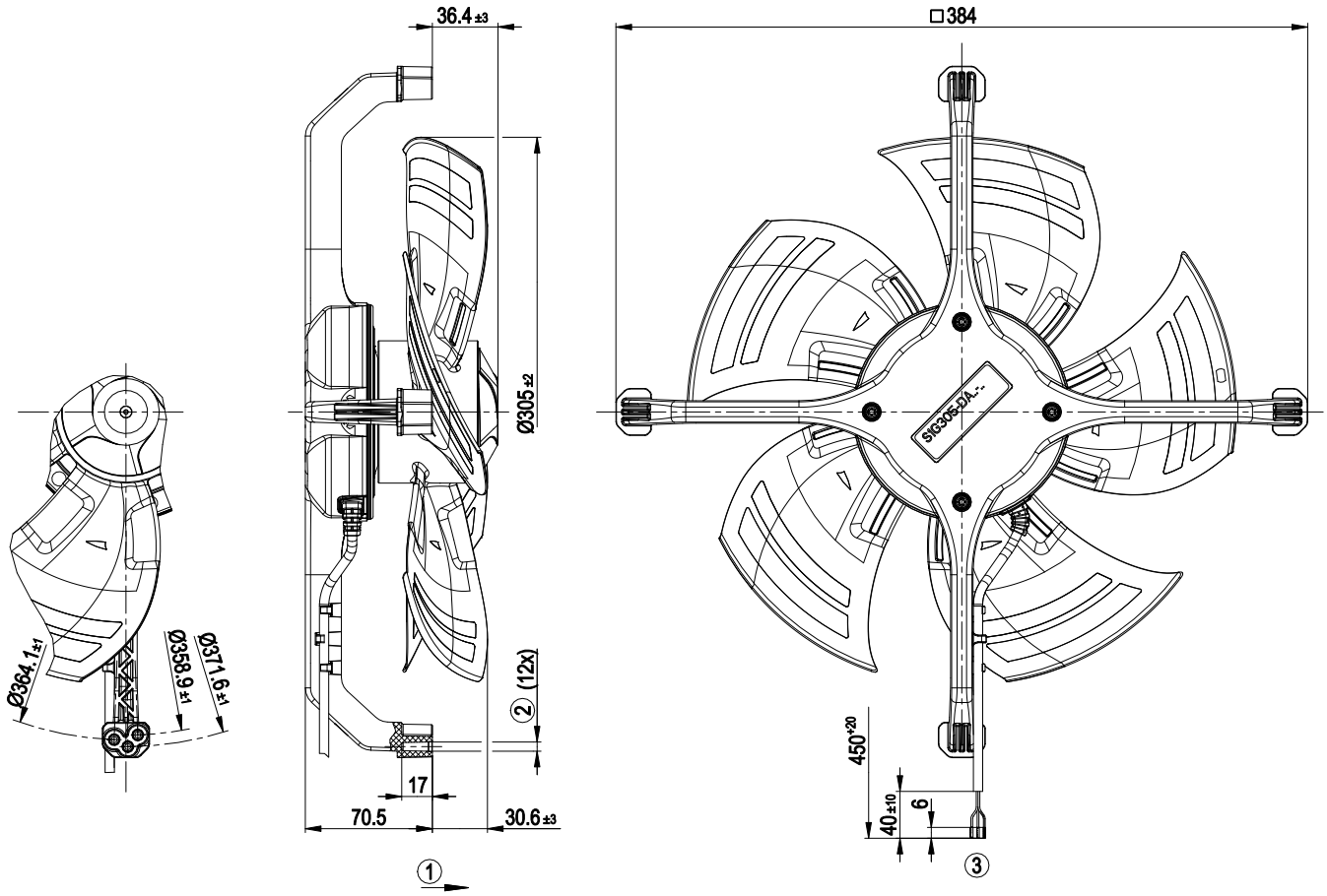
Mass	1.5 kg
Size	305 mm
Surface of rotor	Cast in PP plastic
Material of blades	PP plastic
Number of blades	5
Direction of air flow	"A"
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP54
Insulation class	"B"
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing with anti-freezing grease
Technical features	- Speed adjustment input (230 V) - Output limit - Motor current limit - Soft start - Over-temperature protected motor
Speed steps	2
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)
Motor protection	Locked-rotor protection
Cable exit	Lateral
Protection class	II
Product conforming to standard	CE
Approval	EAC; CCC

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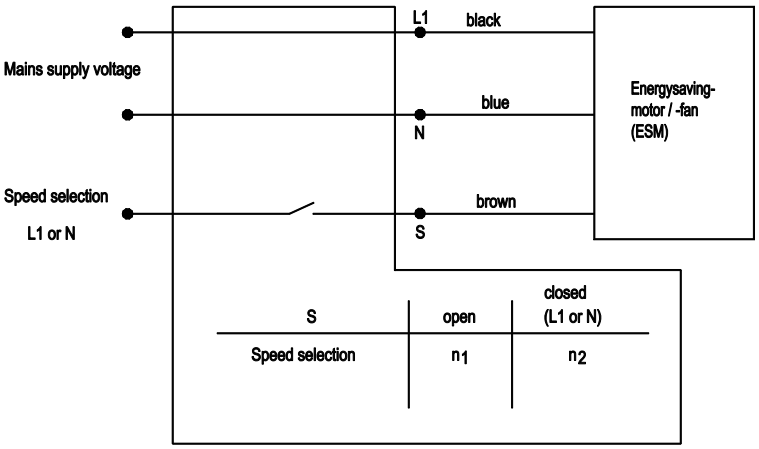
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Product drawing



1	Direction of air flow "A"
2	Pilot hole prepared for self-tapping plastic screw, Ø 6 mm
3	Connection line PVC AWG18, 3x lead tips crimped

Connection screen

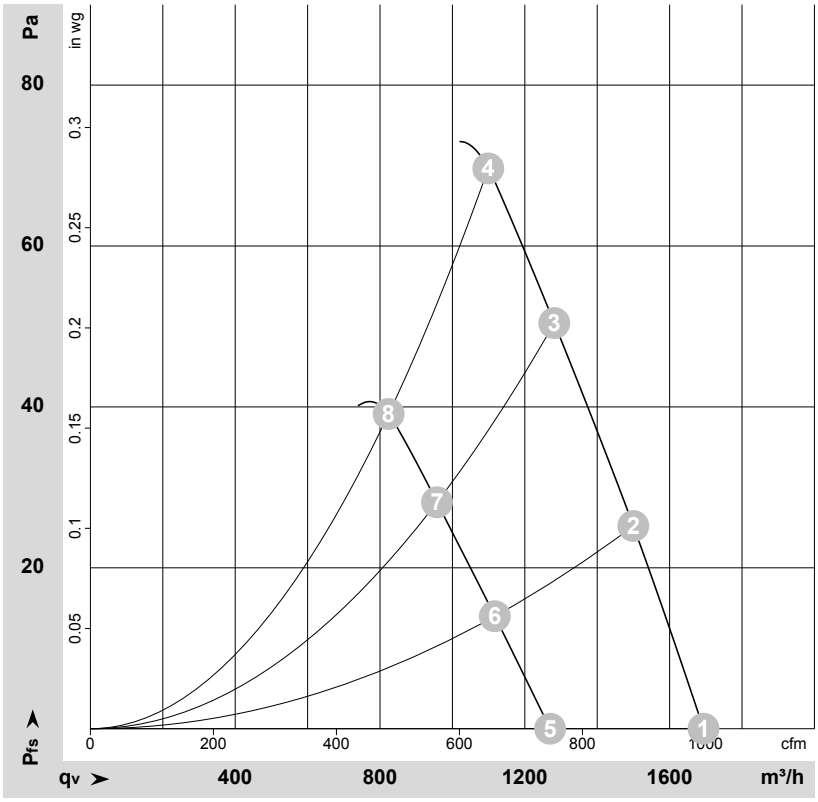


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Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-167817-1
Measurement: LU-167865-1

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

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