S1G305-DA02-10

EC axial fan

sickled blades (S series)

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Nominal data

Type	**S1G305-DA02-10**
Motor	**M1G055-DF**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	100 .. 240
Frequency	Hz	50/60
Type of data definition		ml
Speed (rpm)	min^{-1}	1650
Power input	W	70
Current draw	A	0.6
Max. back pressure	Pa	75
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	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

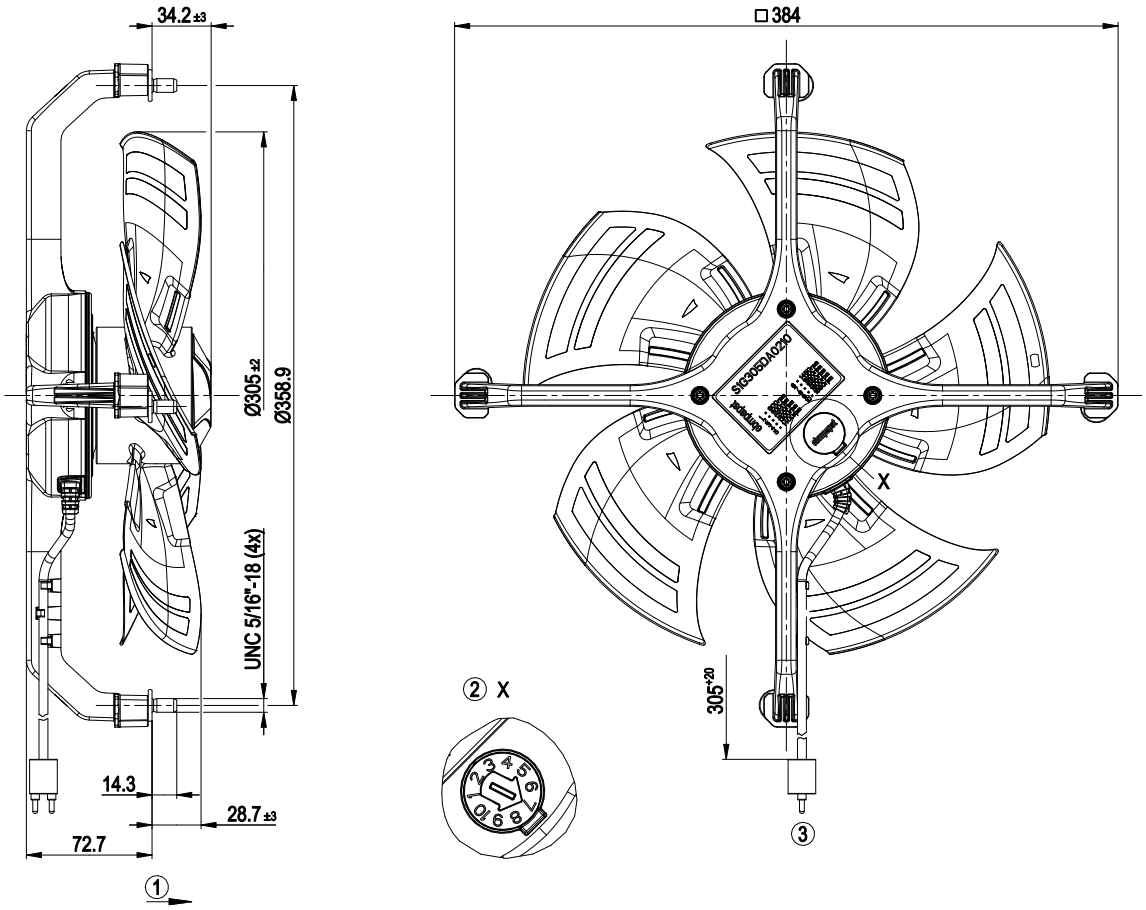
Mass	1.7 kg
Size	305 mm
Surface of rotor	Thick layer passivated
Material of blades	PP plastic
Number of blades	5
Direction of air flow	"A"
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP54
Insulation class	"B"
Humidity (F)/environmental protection class (H)	H1
Max. permissible ambient motor temp. (transp./ storage)	+ 70 °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	- Motor current limit - Soft start - Over-temperature protected motor
Speed steps	10
Electrical leads	With plug
Motor protection	Locked-rotor protection
Cable exit	Variable
Protection class	II
Approval	C22.2 Nr.77 + CAN/CSA-E60730-1; EAC; UL 1004-7 + 60730

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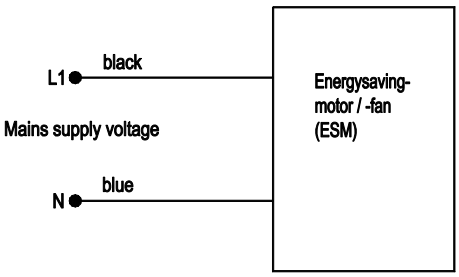
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Product drawing



1	Direction of air flow "A"
2	Shown without end cover; speed selection
3	Connection line PVC AWG18, connector housing compatible with EMF Corporation P-2-1-075, 2x plug contact tyco 61013-2

Connection screen

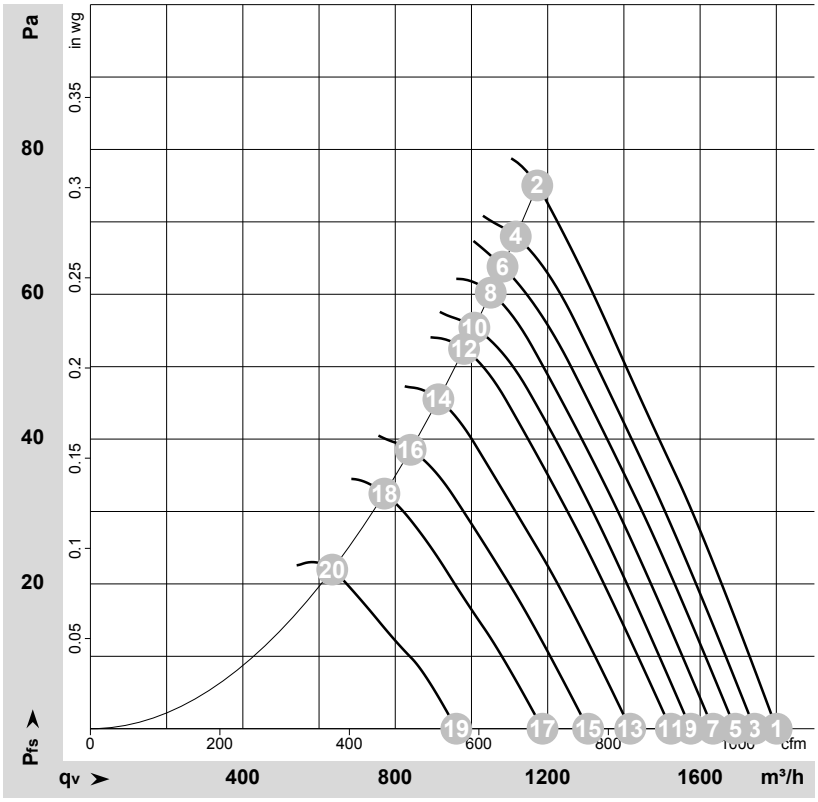


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Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-176774-1
Measurement: LU-177180-1
Measurement: LU-177221-1
Measurement: LU-177225-1
Measurement: LU-177227-1
Measurement: LU-177232-1
Measurement: LU-177235-1
Measurement: LU-177237-1
Measurement: LU-177239-1
Measurement: LU-177241-1

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

	Stage	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)	m^3/h	Pa	cfm	inH2O
1	10	230	50	1650	39	0.35	58	66	1800	0	1060	0.00
2	10	230	50	1650	70	0.60	56	64	1175	75	690	0.30
3	9	230	50	1600	36	0.33			1745	0	1025	0.00
4	9	230	50	1600	61	0.53			1115	68	655	0.27
5	8	230	50	1550	33	0.30			1690	0	995	0.00
6	8	230	50	1550	55	0.49			1080	64	635	0.26
7	7	230	50	1500	30	0.29			1635	0	960	0.00
8	7	230	50	1500	52	0.46			1050	62	620	0.25
9	6	230	50	1450	27	0.26			1575	0	925	0.00
10	6	230	50	1450	46	0.41			1010	56	595	0.22
11	5	230	50	1400	25	0.24			1525	0	895	0.00
12	5	230	50	1400	42	0.38			980	54	575	0.22
13	4	230	50	1300	21	0.20			1415	0	835	0.00
14	4	230	50	1300	35	0.32			915	47	535	0.19
15	3	230	50	1200	17	0.17			1305	0	770	0.00
16	3	230	50	1200	27	0.25			840	39	495	0.16
17	2	230	50	1100	14	0.15			1185	0	700	0.00
18	2	230	50	1100	22	0.21			770	33	455	0.13
19	1	230	50	900	9.0	0.11			960	0	565	0.00
20	1	230	50	900	13	0.14			635	22	375	0.09

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · q_V = Air flow
p_{fs} = Pressure increase

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