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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	S1G305-DA02-10	
Motor	M1G055-DF	
Phase		1~
Nominal voltage	VAC	115
Nominal voltage range	VAC	100 .. 240
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	1650
Power consumption	W	70
Current draw	A	1.25
Max. back pressure	Pa	75
Max. back pressure	in. wg	0.3
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	40

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



Technical description

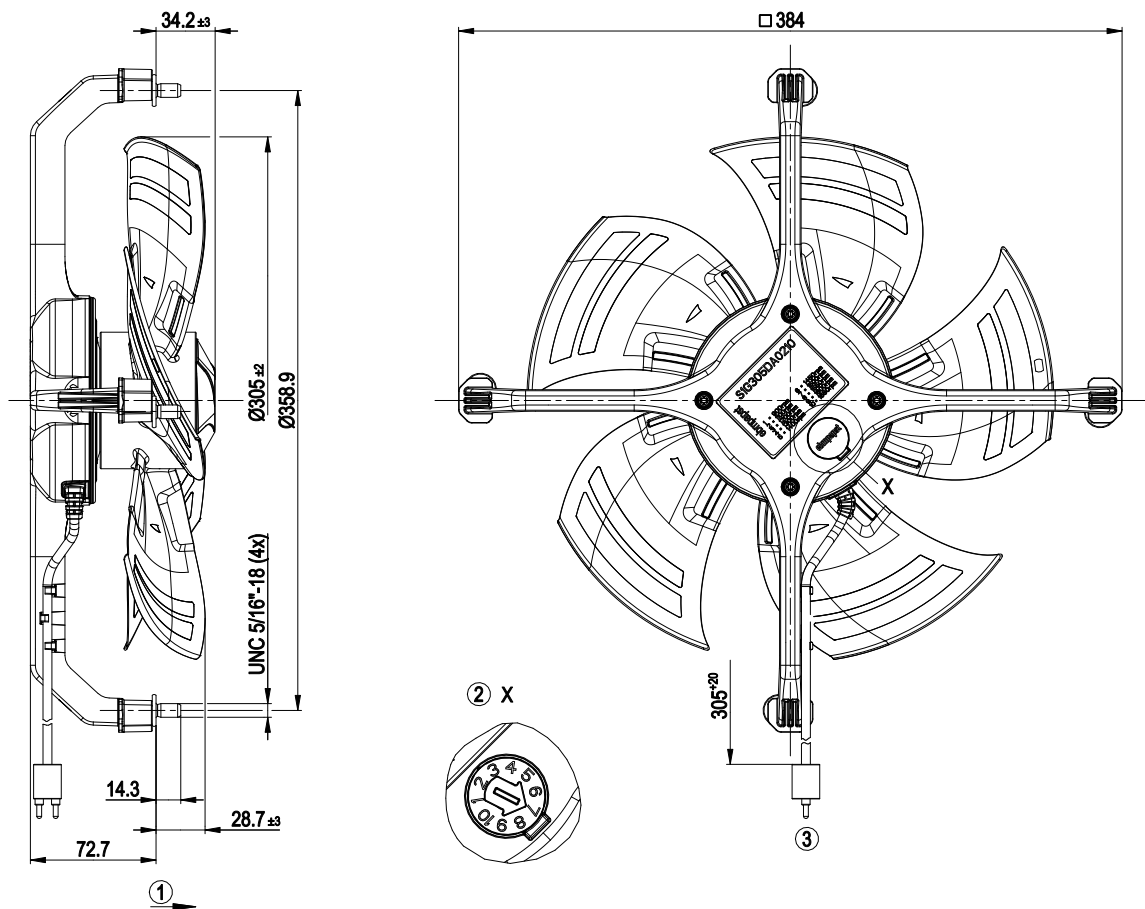
Weight	1.66 kg
Size	305 mm
Motor size	55
Rotor surface	Cast in PP plastic
Blade material	PP plastic
Number of blades	5
Airflow direction	A
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1+
Max. permitted 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	- Motor current limitation - Soft start - Thermal overload protection for motor
Speed levels	10
Electrical hookup	Connector with cable
Motor protection	Locked-rotor protection
With cable	Variable
Protection class	II
Approval	CSA C22.2 No. 77 + CAN/CSA-E60730-1; EAC; UL 1004-7 + 60730-1



EC axial fan - HyBlade

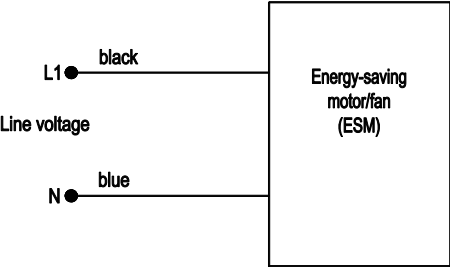
sickle-shaped blades (S series)

Product drawing

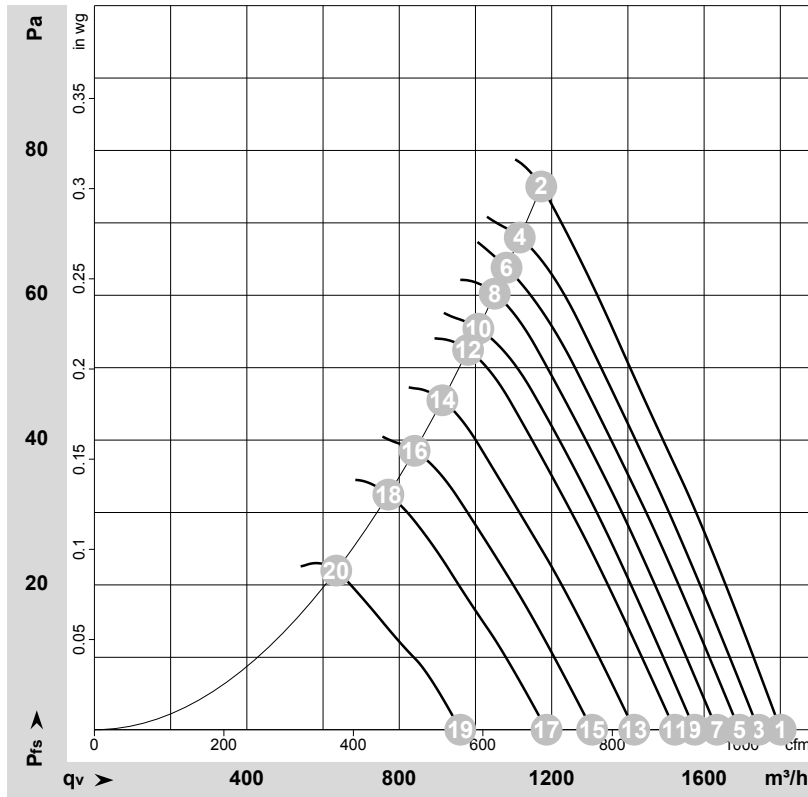


1	Direction of air flow "A"
2	Illustration without cover plate; speed selection
3	Cable PVC AWG18, connector housing compatible with EMF Corporation P-2-1-075, 2x plug contact tyco 61013-2

Connection diagram



Curves: Air performance 50 Hz



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

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 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	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	in. wg
1	10	115	50	1650	39	0.70	58	66	1800	0	1060	0.00
2	10	115	50	1650	70	1.25	56	64	1175	75	690	0.30
3	9	115	50	1600	36	0.66			1745	0	1025	0.00
4	9	115	50	1600	61	1.06			1115	68	655	0.27
5	8	115	50	1550	33	0.60			1690	0	995	0.00
6	8	115	50	1550	55	0.98			1080	64	635	0.26
7	7	115	50	1500	30	0.58			1635	0	960	0.00
8	7	115	50	1500	52	0.92			1050	62	620	0.25
9	6	115	50	1450	27	0.52			1575	0	925	0.00
10	6	115	50	1450	46	0.82			1010	56	595	0.22
11	5	115	50	1400	25	0.48			1525	0	895	0.00
12	5	115	50	1400	42	0.76			980	54	575	0.22
13	4	115	50	1300	21	0.40			1415	0	835	0.00
14	4	115	50	1300	35	0.64			915	47	535	0.19
15	3	115	50	1200	17	0.34			1305	0	770	0.00
16	3	115	50	1200	27	0.50			840	39	495	0.16
17	2	115	50	1100	14	0.30			1185	0	700	0.00
18	2	115	50	1100	22	0.42			770	33	455	0.13
19	1	115	50	900	9.0	0.22			960	0	565	0.00
20	1	115	50	900	13	0.28			635	22	375	0.09

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

