

EC axial fan - HyBlade

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

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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	S1G315-DN02-02		
Motor	M1G055-DF		
Phase		1~	1~
Nominal voltage	VAC	115	115
Nominal voltage range	VAC	100 .. 240	100 .. 240
Frequency	Hz	50/60	50/60
Method of obtaining data		ml	ml
Speed (rpm)	min ⁻¹	1300	950
Power consumption	W	74	32
Current draw	A	1.3	
Max. back pressure	Pa	55	
Max. back pressure	in. wg	0.22	
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	25	25

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

Subject to change

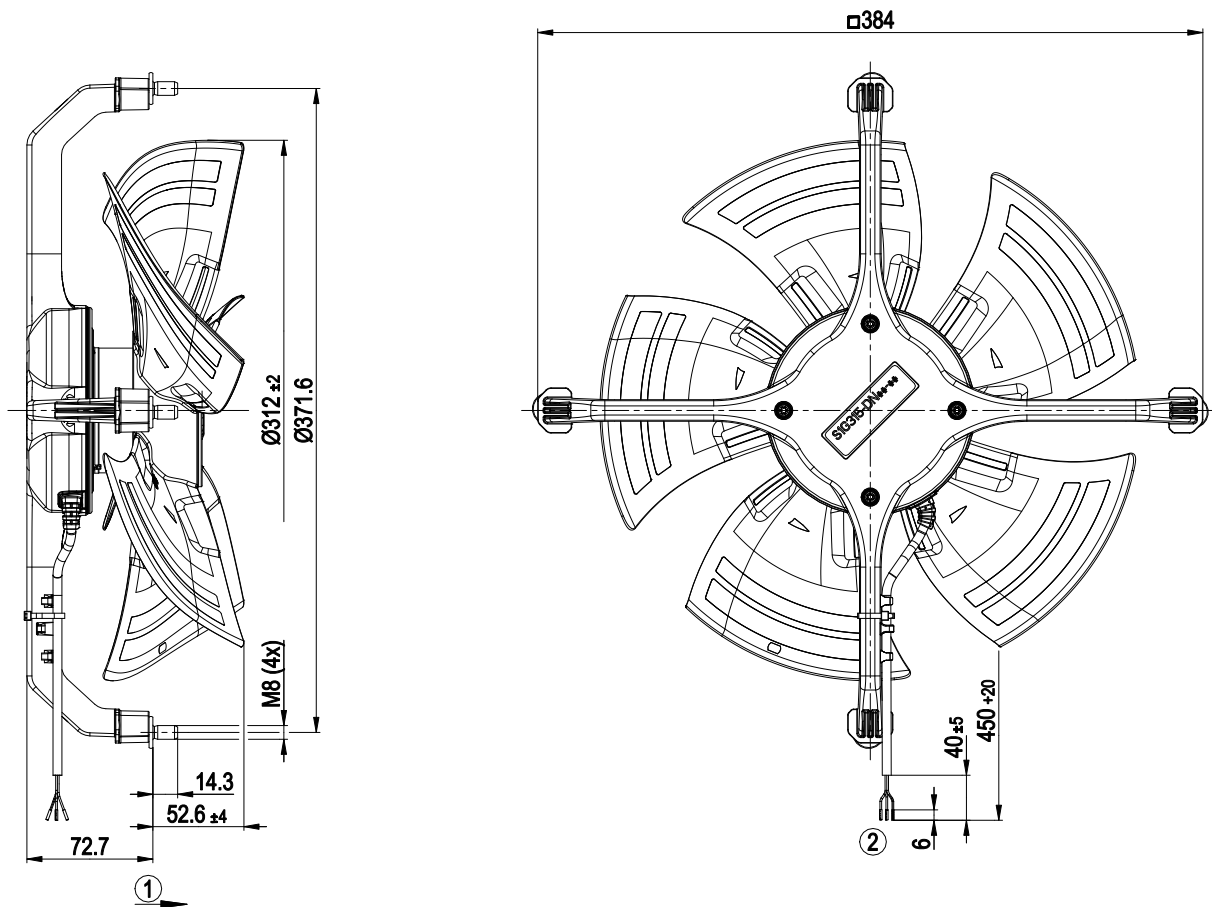


Technical description

Size	315 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)	+ 70 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	None, open rotor
Mode	S1
Motor bearing	Ball bearing with low-temperature lubricant
Technical features	- Speed setting input (230 V) - 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)
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Lateral
Protection class	II
Conformity with standards	EN 60034-1; EN 60204-1; EN 60335-1; CE
Approval	CSA C22.2 No. 77 + CAN/CSA-E60730-1; UL 1004-7 + 60730-1



Product drawing

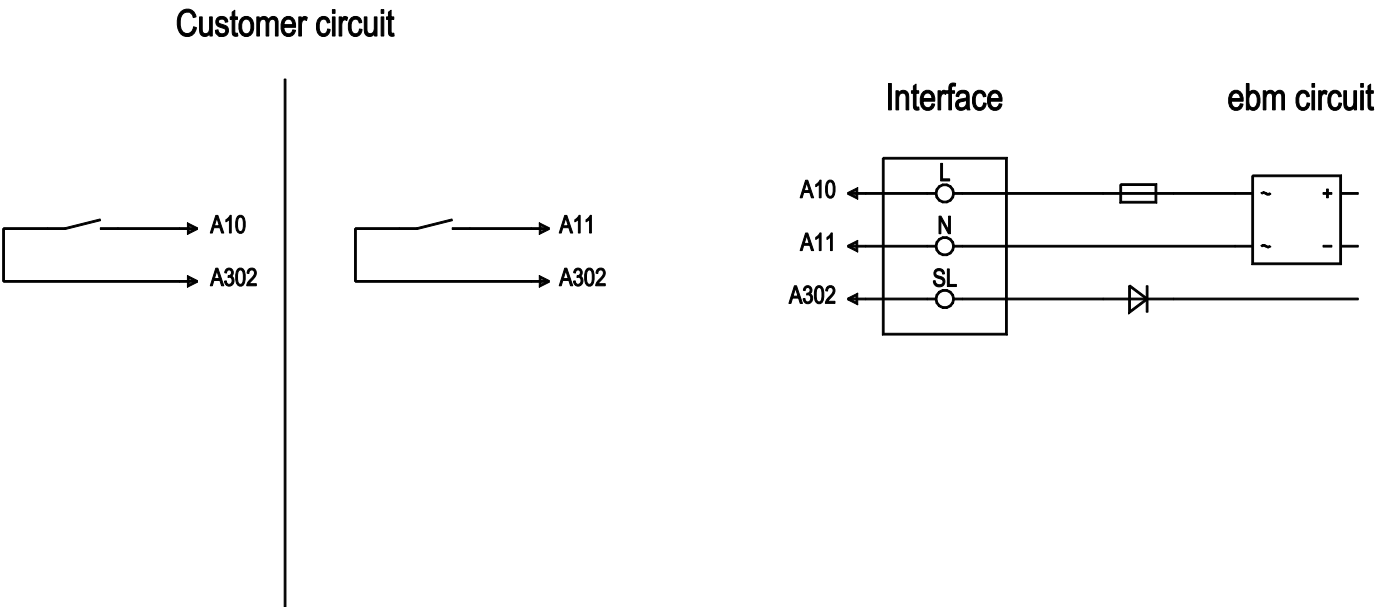


- | | |
|---|---------------------------|
| 1 | Direction of air flow "A" |
| 2 | Cable PVC AWG18 |
| | 3x splice |

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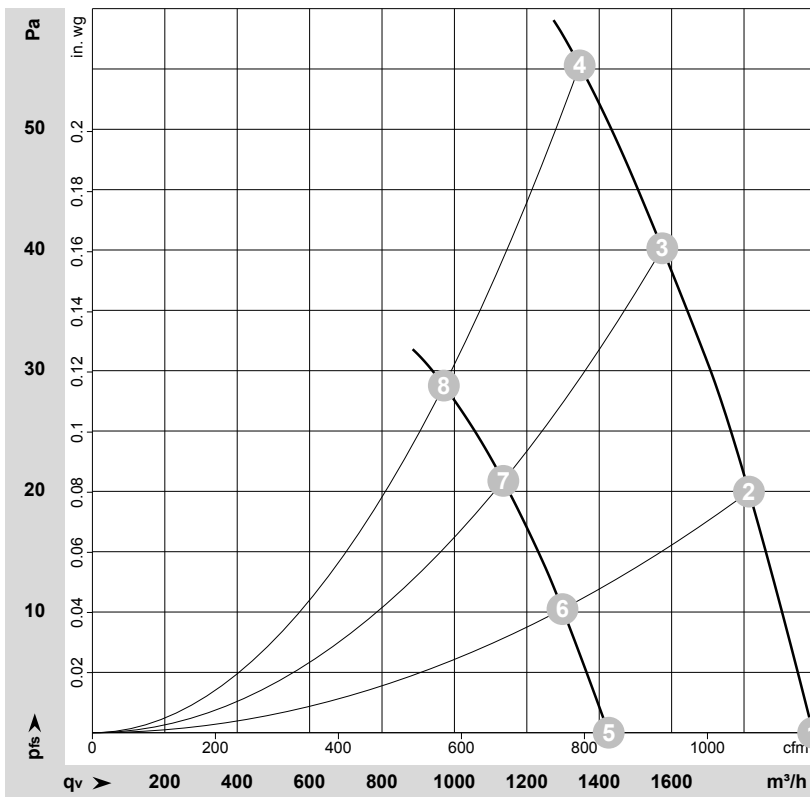
Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	A10	L	black	Supply connection, power supply, phase, voltage range see nameplate, 50/60 Hz
	A11	N	blue	Supply connection, power supply, neutral conductor, voltage range see nameplate, 50/60 Hz
	A302	SL	brown	Speed selection: switch open speed 1, switch closed speed 2



Curves: Air performance 50 Hz



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

Measurement: LU-185271-1
Measurement: LU-185298-1

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	Wired	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	2	1~	115	50	1300	60	1.10	58	66	1990	0	1170	0.00
2	2	1~	115	50	1300	67	1.15	57	65	1815	20	1070	0.08
3	2	1~	115	50	1300	71	1.20	56	64	1575	40	925	0.16
4	2	1~	115	50	1300	74	1.30	57	65	1345	55	790	0.22
5	1	1~	115	50	950	25	0.47	49	57	1425	0	840	0.00
6	1	1~	115	50	950	27	0.50	48	56	1300	11	765	0.04
7	1	1~	115	50	950	28	0.52	47	55	1135	21	670	0.08
8	1	1~	115	50	950	30	0.56	46	54	970	29	570	0.12

Wired = Wiring · 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

