

AC axial fan - HyBlade

sickle-shaped blades (S series)
with support ring, for barn ventilation

S6D910-DI01-35 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Nominal data

Type	S6D910-DI01-35		
Motor	M6D138-HF		
Phase		3~	3~
Nominal voltage	VAC	400	400
Wiring		Δ	Y
Frequency	Hz	50	50
Method of obtaining data		ml	ml
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	880	650
Power consumption	W	1290	790
Current draw	A	2.65	1.54
Max. back pressure	Pa	140	77
Max. back pressure	in. wg	0.56	0.31
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	65	65
Starting current	A	9	3

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

Data according to Commission Regulation (EU) 327/2011 (EN 17166)

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	38.6	34.2	09 Power consumption P_e	kW	1.22
02 Measurement category	A			09 Air flow q_v	m³/h	14545
03 Efficiency category	Static			09 Pressure increase p_{fs}	Pa	118
04 Efficiency grade N	44.4		40	10 Speed (rpm) n	min ⁻¹	885
05 Variable speed drive	No			11 Specific ratio*		1.00

Data obtained at optimum efficiency level.
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

LU-120995



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Technical description

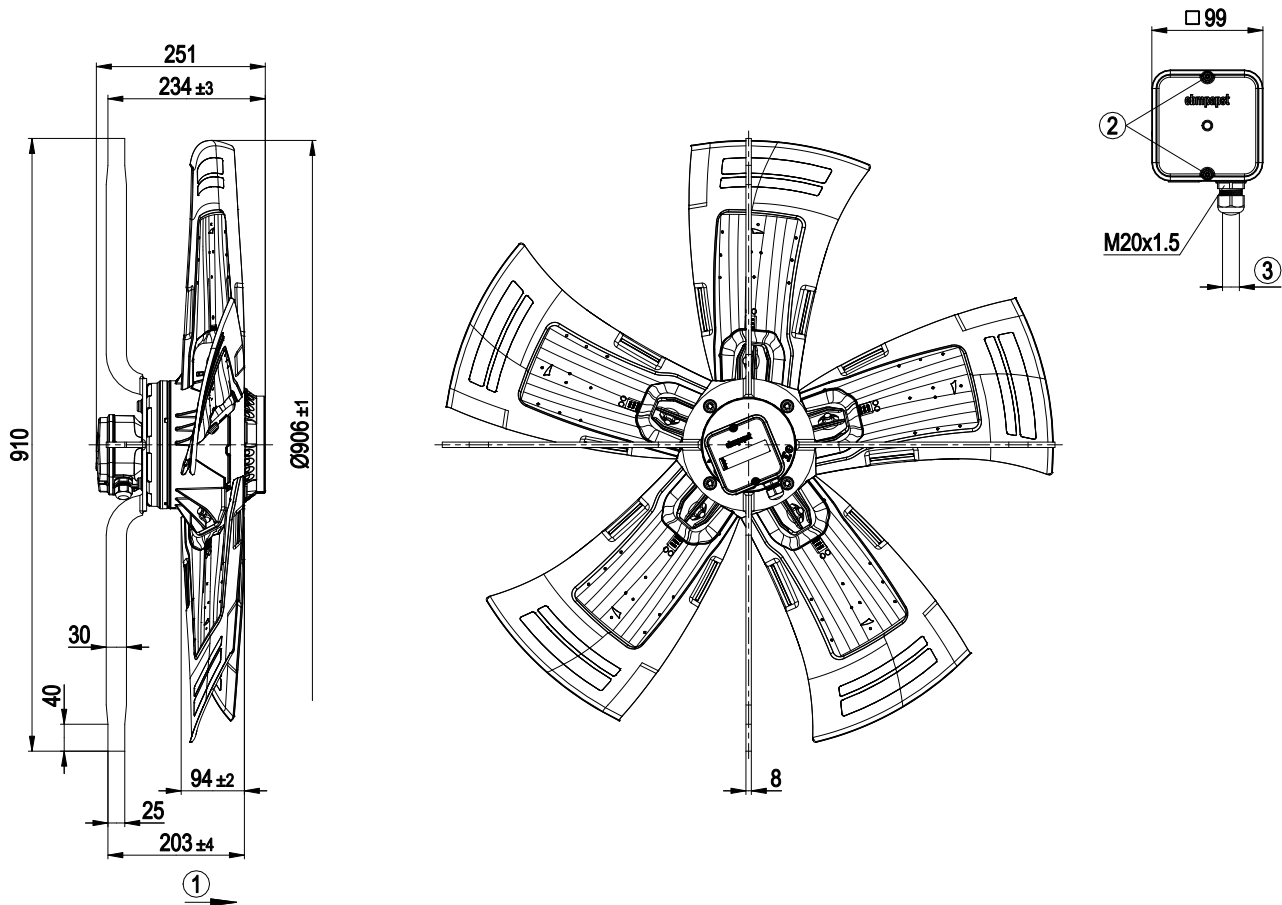
Weight	23.9 kg
Size	910 mm
Motor size	138
Rotor surface	Painted black
Terminal box material	PP plastic
Blade material	Sheet aluminum insert (painted black), sprayed with PP plastic
Support ring material	Steel, coated with black plastic (RAL 9005)
Number of blades	5
Blade pitch	-10°
Airflow direction	A
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H2+A
Ambient temperature note	Occasional start-up at temperatures between -40°C and -25°C is permitted. For continuous operation at ambient temperatures below -25°C (such as refrigeration applications), use must be made of a fan design with special low-temperature bearings.
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Shaft horizontal or rotor on top; rotor on bottom on request
Condensation drainage holes	On stator side
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	≤ 3.5 mA
Electrical hookup	Terminal box
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Axial
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60034-1 (2010); CE
Approval	VDE; EAC



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Product drawing

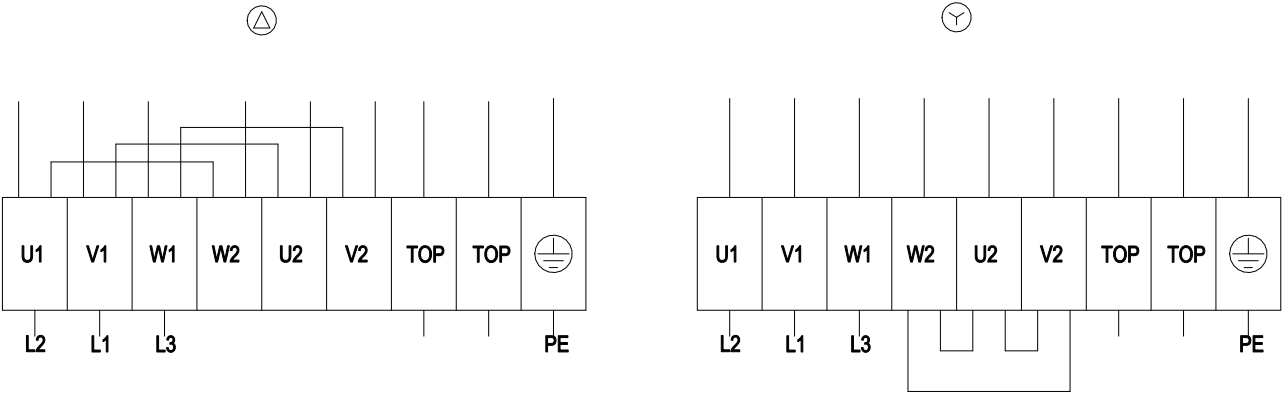


1	Direction of air flow "A"
2	Tightening torque 1.5 ± 0.2 Nm
3	Cable diameter min. 7 mm, max. 14 mm, tightening torque 2 ± 0.3 Nm

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Connection diagram



Δ	Delta connection	Y	Star connection	L1	= V1 = blue
L2	= U1 = black	L3	= W1 = brown	W2	yellow
U2	green	V2	white	TOP	2x gray
PE	green/yellow				

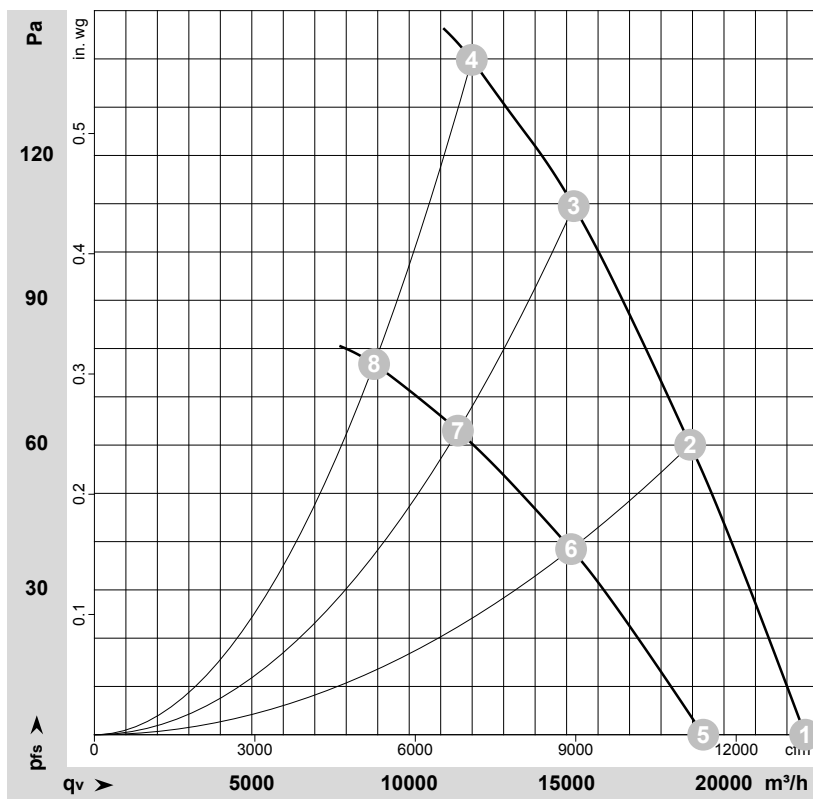


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Curves: Air performance 50 Hz



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

Measurement: LU-120995-1
Measurement: LU-121001-1

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

	Wired	U	f	n	P _e	I	LpA _{in}	LwA _{in}	LwA _{out}	q _V	p _{fs}	q _V	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	Δ	400	50	935	785	2.07	72	79	79	22580	0	13290	0.00
2	Δ	400	50	910	1034	2.34	69	77	76	18925	60	11140	0.24
3	Δ	400	50	890	1205	2.55	71	78	78	15225	110	8960	0.44
4	Δ	400	50	880	1290	2.65	80	87	88	11990	140	7055	0.56
5	Y	400	50	800	589	1.12	68	75	75	19340	0	11385	0.00
6	Y	400	50	730	703	1.35	64	71	70	15145	38	8915	0.15
7	Y	400	50	675	765	1.49	65	72	72	11550	63	6795	0.25
8	Y	400	50	650	790	1.54	71	78	79	8885	77	5230	0.31

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
LwA_{out} = Sound power level outlet side · q_V = Air flow · p_{fs} = Pressure increase

