

8300101556
VVY0630NSNJS

EC axial panel fan - AxiTone

sickle-shaped blades (S series)

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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Item	8300101556	
Motor	E07433-43	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Method of obtaining data		ml
Status		prelim.
Speed (rpm)	min ⁻¹	500
Power consumption	W	105
Current draw	A	0.9
Max. back pressure	Pa	34
Max. back pressure	in. wg	0.14
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

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

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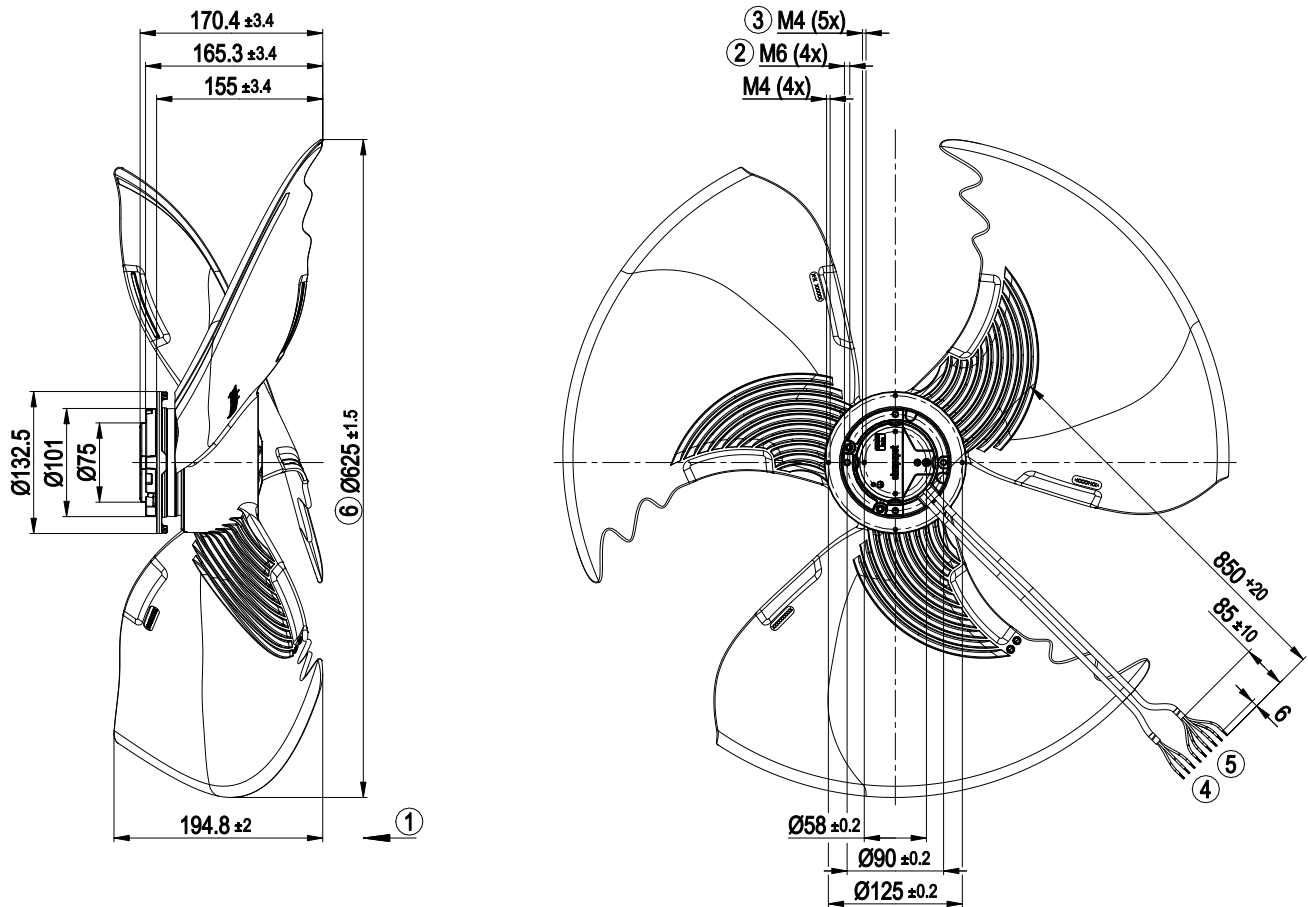
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Technical description

Size	630 mm
Motor size	74
Rotor surface	Thick-film passivated
Electronics housing material	Die-cast aluminum
Impeller material	PP plastic
Number of blades	3
Airflow direction	V
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)	+80 °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
Technical features	- Output 10 VDC, max. 10 mA - Locked-rotor detection - Tach output - Speed control - Power limiter - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Overvoltage detection - Thermal overload protection for electronics/motor - Line undervoltage detection
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Electronic motor protection
With cable	Variable
Protection class assignment	I; If a protective earth is connected. The built-in component has several local protection class assignments. The final protection class is determined by the intended installation.
Conformity with standards	EN 60034-1; EN 60204-1; EN 60335-1; CE; UKCA
Approval	CSA C22.2 No. 77 + CAN/CSA-E60730-1; UL 1004-7 + 60730-1

Product drawing

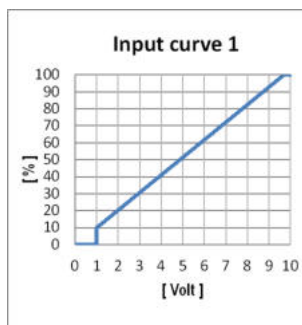


1	Airflow direction "V"
2	Max. clearance for screw 10 mm
3	Max. clearance for screw 5 mm
4	Supply line (PWR) PVC AWG20
	3x splice
5	Control wire (CTRL) PVC AWG22
	6x splice
6	The diameter of the impeller becomes larger than indicated on the drawing due to the centrifugal forces during operation. The dimension indicated refers to the condition on delivery.

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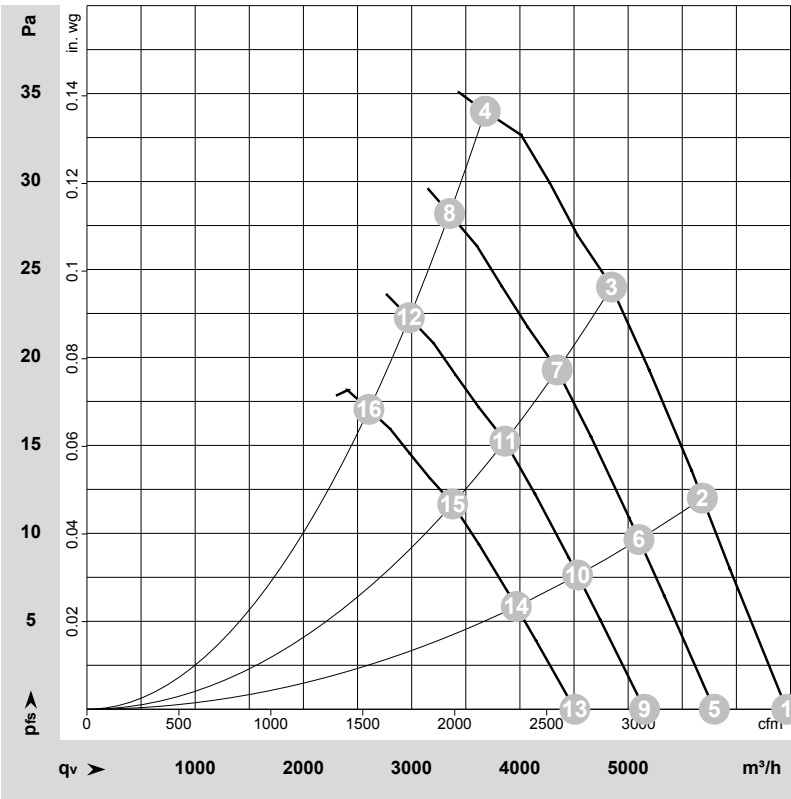
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Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	PWR	L	black	Power supply, phase, see nameplate for voltage range
	PWR	N	blue	Power supply, neutral conductor, see nameplate for voltage range
	PWR	PE	green/yellow	Protective earth
	CTRL	GND	blue	Reference ground for control interface, SELV
	CTRL	IO1	yellow	Factory setting: Analog input 0-10 V/PWM, Ri=100 KΩ, fPWM=1 kHz..10 kHz, Function: Speed set value Characteristic curve parameterizable (see "Input curve 1"), SELV Function parameterizable at the factory (see Optional interface functions table)
	CTRL	IO2	white	Factory setting: Open collector output, Umax=50 VDC, I _{max} = 10 mA, function: Tach output 1 pulse/revolution, SELV Function parameterizable at factory (see table Optional interface functions)
	CTRL	Vout	red	Voltage output 10 VDC +/-3%, I _{max} =10 mA Short-circuit-proof, power supply for external devices, SELV
	CTRL	-	gray	No function
	CTRL	-	brown	No function

Curves: Air performance 50 Hz



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

Measurement: LU-233017-1
Date: 2024-06-25
Housing: 10633-2-4037

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}	LwA	q _v	P _{fs}	q _v	P _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	dB	m³/h	Pa	cfm	in. wg
1	1~	230	50	500	70	0.61	45	50	49	52	6465	0	3805	0.00
2	1~	230	50	500	82	0.72	42	47	46	50	5685	12	3345	0.05
3	1~	230	50	500	94	0.82	39	45	45	48	4845	24	2850	0.10
4	1~	230	50	495	105	0.91	43	49	49	52	3680	34	2165	0.14
5	1~	230	50	450	50	0.44	42	47	46	50	5795	0	3410	0.00
6	1~	230	50	450	59	0.52	39	44	44	47	5100	10	3000	0.04
7	1~	230	50	450	67	0.59	37	42	42	45	4345	19	2555	0.08
8	1~	230	50	450	79	0.69	40	47	47	50	3350	28	1970	0.11
9	1~	230	50	400	35	0.31	39	44	43	47	5150	0	3030	0.00
10	1~	230	50	400	42	0.36	36	41	41	44	4535	8	2670	0.03
11	1~	230	50	400	47	0.41	34	39	39	42	3860	15	2275	0.06
12	1~	230	50	400	56	0.48	37	44	44	47	2980	22	1755	0.09
13	1~	230	50	350	24	0.21	36	41	40	43	4510	0	2655	0.00
14	1~	230	50	350	28	0.24	32	38	37	41	3965	6	2335	0.02
15	1~	230	50	350	32	0.28	30	36	36	39	3380	12	1990	0.05
16	1~	230	50	350	37	0.32	34	40	40	43	2605	17	1535	0.07

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