

8300101412
VVY0630NSPLS

EC axial panel fan - AxiTone

sickle-shaped blades (S series)

ebm-papst Mulfingen GmbH & Co. KGaA & Co. KG
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
info1@de.fansco.com
www.fansco.com

Limited partnership · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Item	8300101412	
Motor	E09002-55	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Method of obtaining data		ml
Status		prelim.
Speed (rpm)	min ⁻¹	760
Power consumption	W	350
Current draw	A	1.55
Max. back pressure	Pa	85
Max. back pressure	in. wg	0.34
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	60

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

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

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	43.7	30.7	09 Power consumption P_{ed}	kW	0.33
02 Measurement category		A		09 Air flow q_v	m ³ /h	6150
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	77
04 Efficiency grade N		53	40	10 Speed (rpm) n	min ⁻¹	760
05 Variable speed drive		Yes		11 Specific ratio*		1.00

Data obtained at optimum efficiency level.

The efficiency values displayed for achieving conformity with the Ecodesign Regulation EU 327/2011 has been reached with defined air duct components (e.g. inlet rings).
The dimensions must be requested from ebm-papst. If other air conduction geometries are used on the installation side, the ebm-papst evaluation loses its validity/the conformity must be confirmed again.

The product does not fall within the scope of Regulation (EU) 2019/1781 due to the exception specified in Article 2 (2a) (motors completely integrated into a product).

* Specific ratio = $1 + p_s / 100\,000\text{ Pa}$ LU-234073

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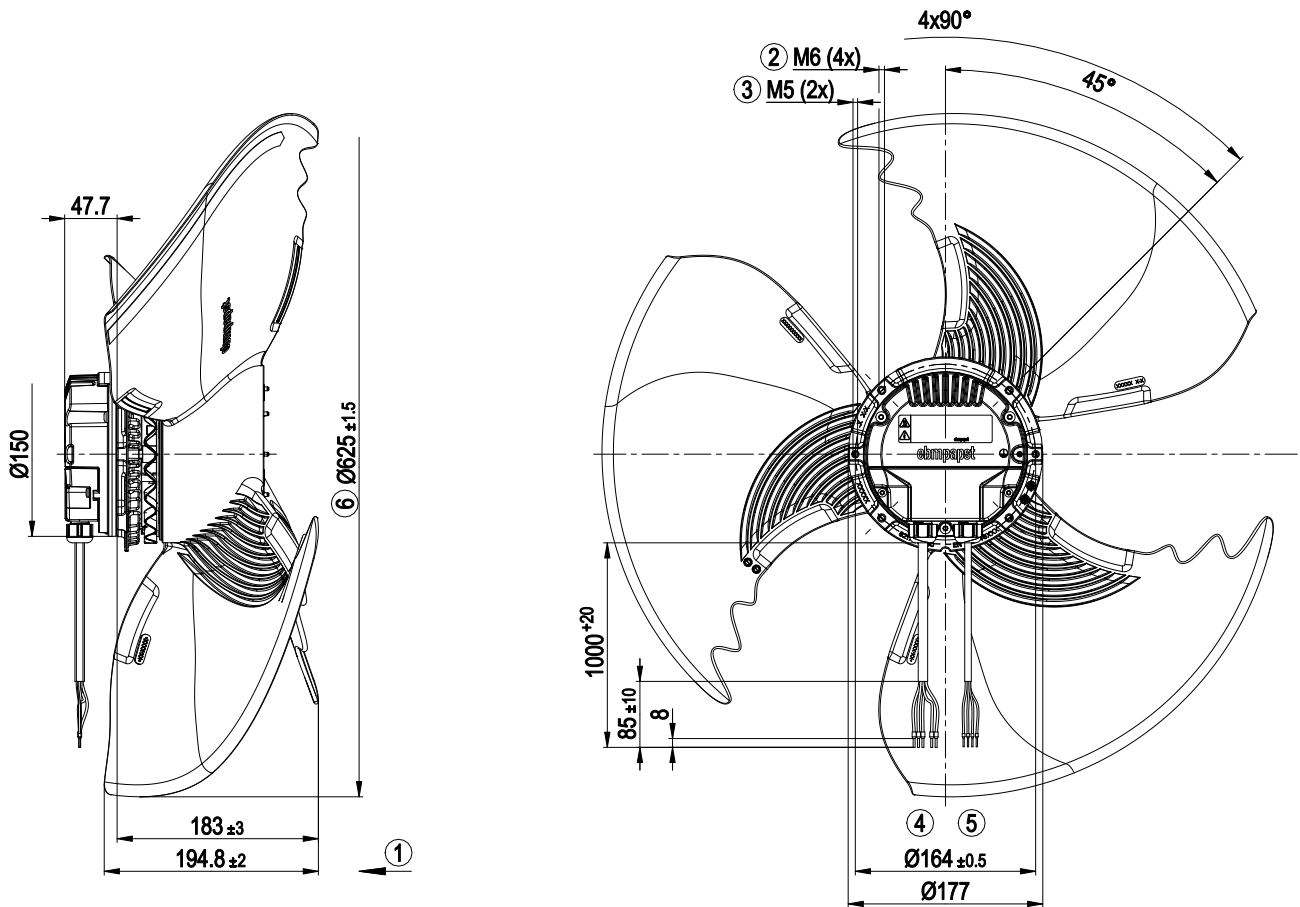
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Technical description

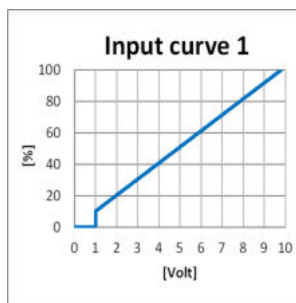
Size	630 mm
Motor size	90
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum, painted gray
Impeller material	PP plastic
Number of blades	3
Airflow direction	V
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP55
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H2
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 bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing; (sealed)
Technical features	- Locked-rotor detection - Speed control - Alarm relay - Power limiter - Motor current limitation - PFC, active - Soft start - Control interface with SELV potential safely disconnected from the mains - Temperature derating - Thermal overload protection for electronics/motor - Line undervoltage / phase failure detection
Power Factor Correction (PFC)	Active
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Electronic motor protection
With cable	Lateral
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 60335-1; EN 61800-5-1; UKCA; CE
Approval	UL 1004-7 + 60730-1; CSA C22.2 No. 77 + CAN/CSA-E60730-1

Product drawing



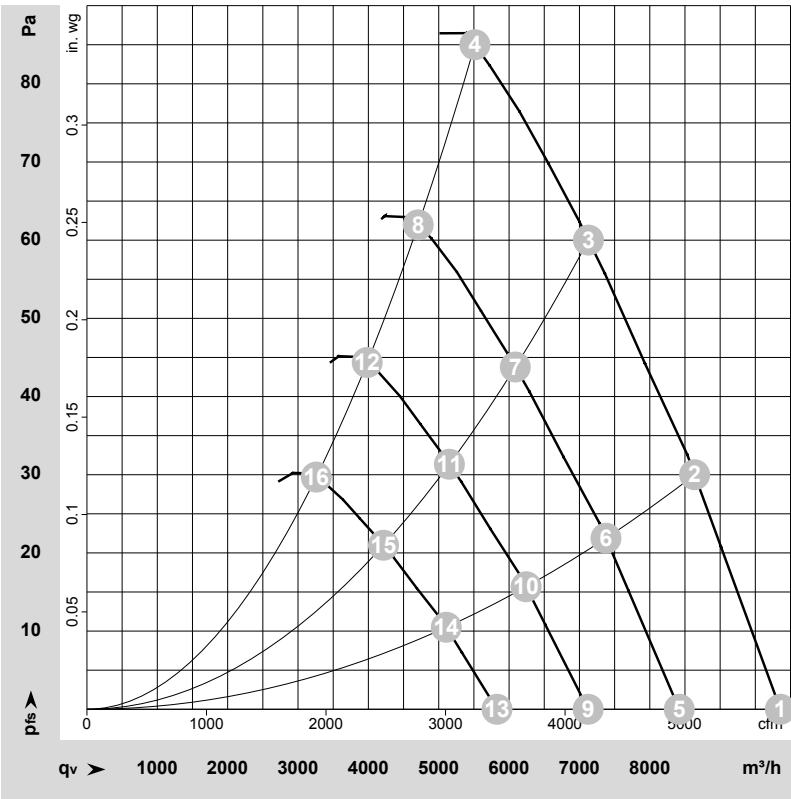
1	Airflow direction "V"
2	Max. clearance for screw 10 mm
3	Max. clearance for screw 10 mm
	The tapped holes can be used to attach hoisting equipment.
4	Supply line (PWR) PVC AWG18
	5x wire-end ferrule
5	Control wire (CTRL) PVC AWG22
	4x wire-end ferrule
6	The diameter of the impeller becomes larger than indicated on the drawing due to the centrifugal forces during operation. The dimension indicated refers to the condition on delivery.

Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	PWR	PE	green/yellow	Protective earth
	PWR	L	black	Power supply, phase, see nameplate for voltage range
	PWR	N	blue	Power supply, neutral conductor, see nameplate for voltage range
	PWR	COM	orange	Status relay, floating status contact, common connection, contact rating 250 VAC / 2 A (AC1) / min. 10 mA, reinforced insulation on supply side and on control interface side
	PWR	NC	orange	Status relay, floating status contact, break for failure
	CTRL	GND	blue	Reference ground for control interface, SELV
	CTRL	Vout	red	Voltage output 10 VDC +/-3%, I _{max} =10 mA Short-circuit-proof, power supply for external devices, SELV
	CTRL	IO1	yellow	Factory setting: Analog input 0-10 V / PWM, R _i =100 kΩ, function: set value Characteristic curve parameterizable (see input characteristic curve "Input curve 1"), SELV Function parameterizable at the factory (see table Optional interface functions)
	CTRL	IO2	white	Factory setting: Open collector output, U _{max} =50 VDC, I _{max} =20 mA, function:Tacho output 1 pulse/revolution, SELV Function parameterizable at factory (see table Optional interface functions)

Curves: Air performance 50 Hz



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

Measurement: LU-234073-1
Date: 2024-10-17
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	760	240	1.07	54	60	59	62	9855	0	5800	0.00
2	1~	230	50	760	279	1.24	51	57	57	60	8635	30	5085	0.12
3	1~	230	50	760	316	1.40	49	56	56	59	7130	60	4195	0.24
4	1~	230	50	760	348	1.54	55	62	62	65	5515	85	3245	0.34
5	1~	230	50	650	149	0.67	50	56	55	58	8420	0	4955	0.00
6	1~	230	50	650	174	0.77	47	53	53	56	7375	22	4340	0.09
7	1~	230	50	650	197	0.87	45	52	52	55	6090	44	3585	0.18
8	1~	230	50	650	217	0.96	51	58	58	61	4710	62	2770	0.25
9	1~	230	50	550	90	0.41	46	52	51	54	7125	0	4195	0.00
10	1~	230	50	550	105	0.47	43	49	49	52	6240	16	3675	0.06
11	1~	230	50	550	119	0.53	41	48	48	51	5150	31	3030	0.12
12	1~	230	50	550	131	0.58	47	54	54	57	3985	44	2345	0.18
13	1~	230	50	450	50	0.22	41	47	46	49	5830	0	3430	0.00
14	1~	230	50	450	58	0.26	38	44	44	47	5105	10	3005	0.04
15	1~	230	50	450	65	0.29	36	43	43	46	4215	21	2480	0.08
16	1~	230	50	450	72	0.32	42	49	49	52	3260	30	1920	0.12

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