

8300101567
VWB0630NSPLS

EC axial panel fan - AxiTone

sickle-shaped blades (S series)
Fan housing with mounting grille

www.fansco.com
sales@fansco.com

Nominal data

Item	8300101567	
Motor	E09001-55	
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	760
Power consumption	W	340
Current draw	A	2.1
Max. back pressure	Pa	78
Max. back pressure	in. wg	0.31
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

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

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	42	30.6	09 Power consumption P_{ed}	kW	0.33
02 Measurement category		A		09 Air flow q_v	m ³ /h	6070
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	74
04 Efficiency grade N		51.4	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 = $1 + p_g / 100\,000\text{ Pa}$ LU-234924

8300101567

VWB0630NSPLS

EC axial panel fan - AxiTone

sickle-shaped blades (S series)

Fan housing with mounting grille

Technical description

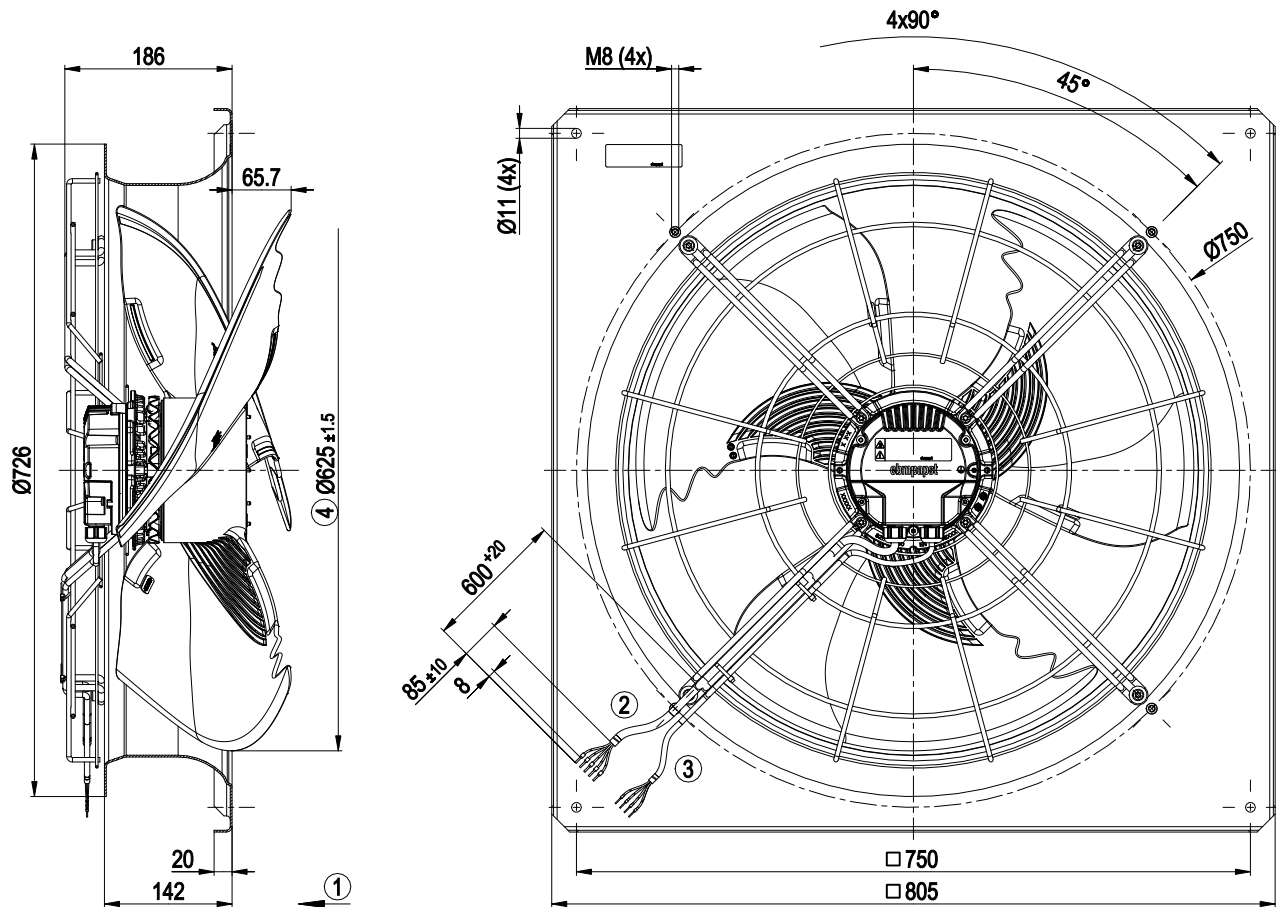
Weight	19.1 kg
Size	630 mm
Motor size	90
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum, painted gray
Impeller material	PP plastic
Support ring material	Steel, coated with black plastic (RAL 9005)
Fan housing material	Sheet steel, galvanized and coated with black plastic (RAL 9005)
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 = Wet – direct exposure to water
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, passive - 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)	Passive
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.
Maximum surface temperature	240 °C
Conformity with standards	EN 60335-1; UKCA; CE
Approval	CSA C22.2 No. 77 + CAN/CSA-E60730-1; UL 1004-7 + 60730-1

8300101567
VWB0630NSPLS

EC axial panel fan - AxiTone

sickle-shaped blades (S series)
Fan housing with mounting grille

Product drawing

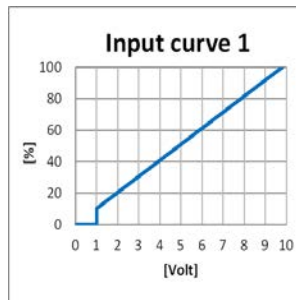


1	Airflow direction "V"
2	Supply line (PWR) PVC AWG18 5x wire-end ferrule
3	Control wire (CTRL) PVC AWG22 4x wire-end ferrule
4	The diameter of the impeller becomes larger than indicated on the drawing due to the centrifugal forces during operation. The dimension indicated refers to the condition on delivery.

EC axial panel fan - AxiTone

sickle-shaped blades (S series)
Fan housing with mounting grille

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)

8300101567
VWB0630NSPLS

EC axial panel fan - AxiTone

sickle-shaped blades (S series)
Fan housing with mounting grille

Terminal/plug assignment

		electrical specification		INPUT		OUTPUT			
IO1	configurable IO mode	active: parametrizable voltage x - 30 VDC not active: pin open or parametrizable voltage < x VDC, SELV Ri = 100 kΩ, characteristic curve parameterizable, f _{RPM} = 1 k - 10 kHz, SELV	digital input	source: set value	switch: parameter set: #1 / #2	switch: direction of rotation: cw / ccw	switch: enable/disable input	configurable function	signal: tach out
				○	○	○	○	○	signal: diagnostics out
									signal: alarm out
									signal: run monitoring
									signal: status
IO2	configurable IO mode	Umax = 50 VDC, Imax = 20 mA, SELV Umax = 50 VDC, Imax = 20 mA, SELV Umax = 50 VDC, Imax = 20 mA, SELV Umax = 50 VDC, Imax = 20 mA, SELV	analog input						signal: configurable function
COM	Relais	250 VAC / 2 A (AC1)							
NC									
Vout	Voltage output	Voltage 10 VDC, SELV							

Basic (B5)
Factory configuration option upon request

○ factory configuration option

8300101567

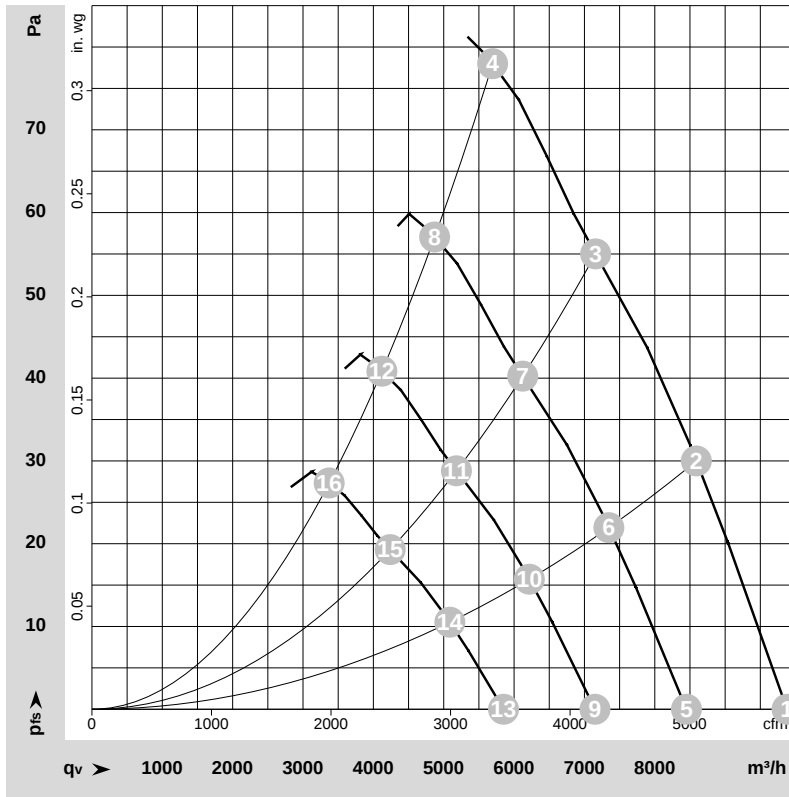
VWB0630NSPLS

EC axial panel fan - AxiTone

sickle-shaped blades (S series)

Fan housing with mounting grille

Curves: Air performance 50 Hz



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

Measurement: LU-234924-1

Date: 2025-01-23

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	232	1.50	55	61	62	65	9880	0	5815	0.00
2	1~	230	50	760	269	1.72	53	60	60	63	8590	30	5055	0.12
3	1~	230	50	760	307	1.94	52	59	61	63	7160	55	4215	0.22
4	1~	230	50	760	338	2.11	55	62	63	66	5695	78	3350	0.31
5	1~	230	50	650	145	0.94	51	58	58	61	8450	0	4975	0.00
6	1~	230	50	650	169	1.07	49	56	56	59	7345	22	4325	0.09
7	1~	230	50	650	192	1.21	48	55	57	59	6125	40	3605	0.16
8	1~	230	50	650	212	1.32	51	59	59	62	4870	57	2865	0.23
9	1~	230	50	550	88	0.57	47	53	53	56	7150	0	4210	0.00
10	1~	230	50	550	102	0.65	45	52	52	55	6215	16	3660	0.06
11	1~	230	50	550	117	0.74	44	51	53	55	5180	29	3050	0.12
12	1~	230	50	550	128	0.80	47	54	55	58	4120	41	2425	0.16
13	1~	230	50	450	48	0.31	42	48	48	51	5850	0	3445	0.00
14	1~	230	50	450	56	0.36	40	47	47	50	5085	11	2995	0.04
15	1~	230	50	450	64	0.40	39	46	47	50	4240	19	2495	0.08
16	1~	230	50	450	70	0.44	42	49	50	53	3370	27	1985	0.11

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