8300100067

VMA0300CSLES

EC axial fan - AxiEco

with guard grille

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Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
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Nominal data

Item	**8300100067**
Motor	**E06001-23 (M3G060-CD)**

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}	1425
Power consumption	W	85
Current draw	A	0.7
Max. back pressure	Pa	102
Max. back pressure	in. wg	0.41
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

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

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Technical description

Size	300 mm
Motor size	60
Rotor surface	Thick-film passivated
Electronics housing material	Die-cast aluminum
Impeller material	PP plastic
Guard grille material	Steel, coated with black plastic (RAL 9005)
Number of blades	5
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. 1.1 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 by the customer This component for installation may have several local protection classes. This information relates to this component's basic design. The final protection class is based on the component's intended installation and connection.
Conformity with standards	EN 60034-1; EN 60204-1; EN 60335-1; CE

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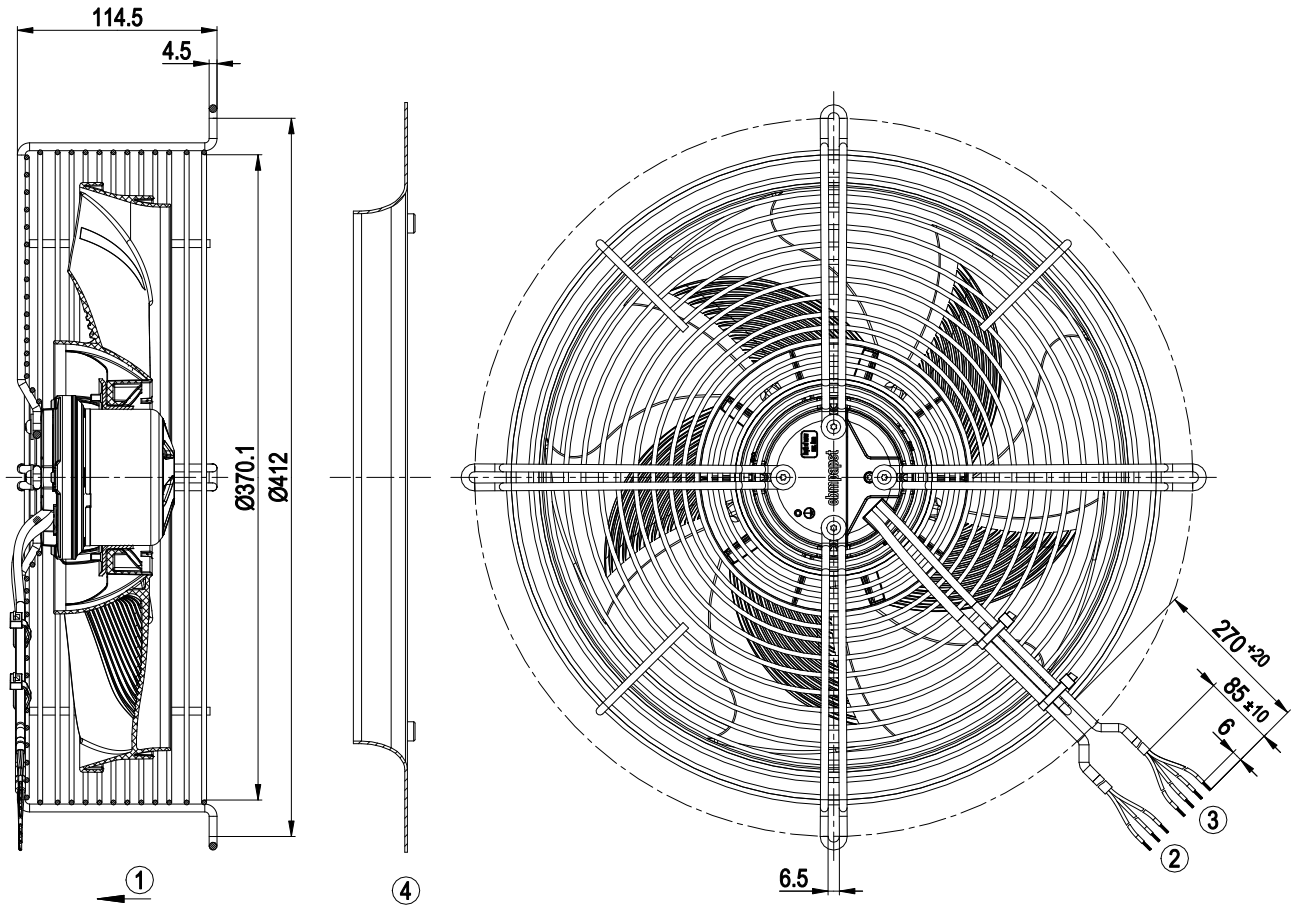
Product drawing



1	Airflow direction "V"
2	Supply line (PWR) PVC AWG20
	3x splice
3	Control wire (CTRL) PVC AWG22
	4x splice
4	Accessory part: Inlet ring 30100-2-4013 not included in scope of delivery

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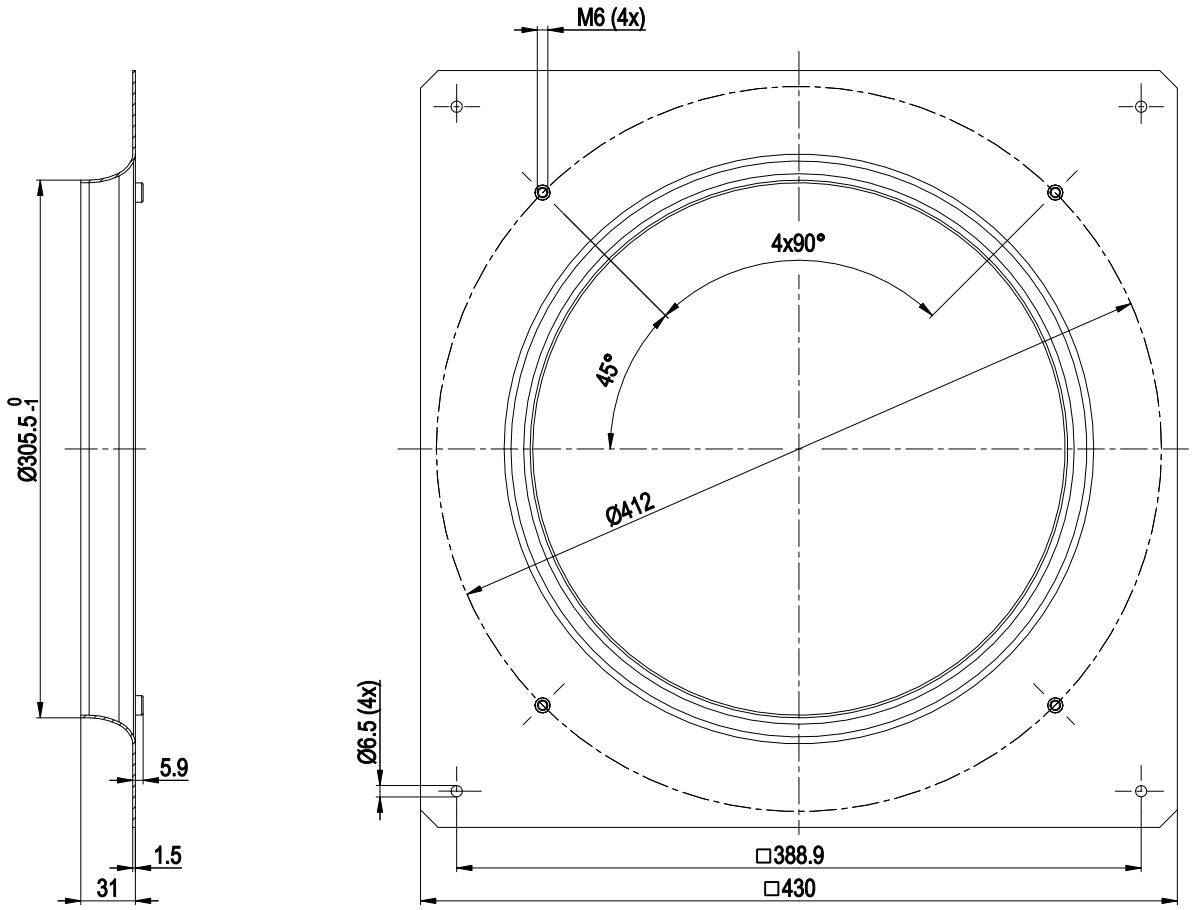
Accessory part



Inlet ring 30100-2-4013

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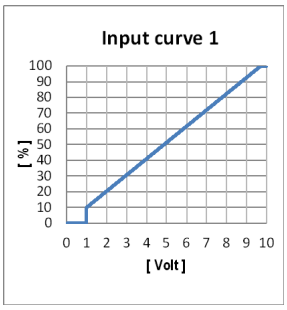
Connection diagram



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	Function parameterizable 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 characteristic curve “Input curve 1”), SELV
	CTRL	IO2	white	Function parameterizable Factory setting: Open collector output, Umax=50 VDC, Imax=10 mA, function: Tach output 1 pulse/revolution, SELV
	CTRL	Vout	red	Voltage output 10 VDC +/-3%, Imax=1.1 mA Not short-circuit-proof, power supply for external devices, SELV

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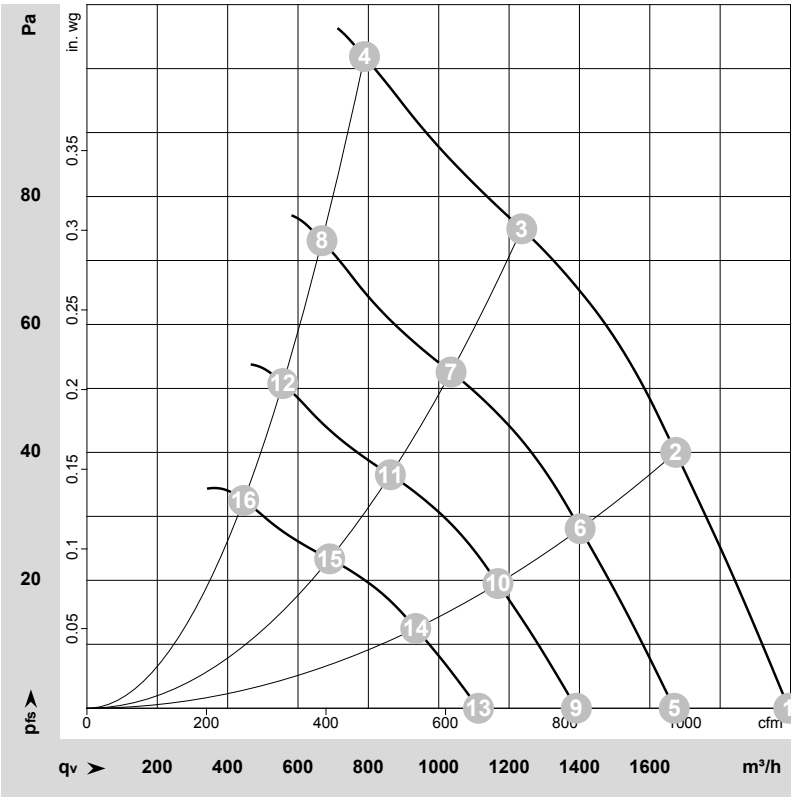
Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-219512-1

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}	q_V	p_{fs}	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa	cfm	in. wg
1	1~	230	50	1425	59	0.50	58	64	1995	0	1175	0.00
2	1~	230	50	1425	72	0.61	55	62	1675	40	985	0.16
3	1~	230	50	1425	82	0.68	54	61	1235	75	725	0.30
4	1~	230	50	1425	85	0.70	56	64	790	102	465	0.41
5	1~	230	50	1200	35	0.30	53	60	1670	0	985	0.00
6	1~	230	50	1200	43	0.36	51	57	1400	28	825	0.11
7	1~	230	50	1200	48	0.40	49	57	1035	53	610	0.21
8	1~	230	50	1200	51	0.42	52	59	670	73	395	0.29
9	1~	230	50	1000	20	0.17	49	55	1390	0	820	0.00
10	1~	230	50	1000	25	0.21	46	53	1170	20	685	0.08
11	1~	230	50	1000	28	0.23	45	52	865	37	510	0.15
12	1~	230	50	1000	29	0.24	47	55	555	51	330	0.20
13	1~	230	50	800	10	0.09	43	49	1115	0	655	0.00
14	1~	230	50	800	13	0.11	40	47	935	12	550	0.05
15	1~	230	50	800	14	0.12	39	46	690	23	405	0.09
16	1~	230	50	800	15	0.12	42	49	445	33	265	0.13

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
q_V = Air flow · p_{fs} = Pressure increase