

8300100291
VWA0910CTTRS

EC axial panel fan - AxiEco

with inlet ring and guard grill

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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Item	8300100291	
Motor	E15031-120	
Phase		3~
Nominal voltage	VAC	200
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Method of obtaining data		ml
Status		prelim.
Speed (rpm)	min ⁻¹	1070
Power consumption	W	2600
Current draw	A	7.9
Max. back pressure	Pa	460
Max. back pressure	in. wg	1.85
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}	%	55.9	36.1	09 Power consumption P_{ed}	kW	2.41
02 Measurement category		A		09 Air flow q_v	m ³ /h	14950
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	308
04 Efficiency grade N		59.8	40	10 Speed (rpm) n	min ⁻¹	1075
05 Variable speed drive		Yes		11 Specific ratio*		1.00

Data obtained at optimum efficiency level.

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

LU-220186

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).

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Technical description

Weight	66.9 kg
Size	910 mm
Motor size	150
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum, painted gray
Impeller material	PP plastic, ABS ring plastic
Inlet ring material	Sheet steel, galvanized and coated with black plastic (RAL 9005)
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	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
Technical features	- Operation and alarm display with LED - External 15-50 VDC input (parameterization) - Alarm relay - Integrated PI controller - Configurable inputs/outputs (I/O) - MODBUS V6.3 - Motor current limitation - RS-485 MODBUS-RTU - Soft start - Voltage output 3.3-24 VDC, Pmax = 800 mW - Control interface with SELV potential safely disconnected from the mains - Thermal overload protection for electronics/motor - Line undervoltage / phase failure detection
Power Factor Correction (PFC)	Passive (through low-capacitance DC link)
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	According to EN 61000-6-3 (household environment)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Terminal box
Motor protection	Electronic motor protection

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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 61800-5-1; CE; UKCA
Approval	EAC; UL 1004-7 + 60730-1; CSA C22.2 No. 77 + CAN/CSA-E60730-1

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Technical drawing of a square axial fan, showing side and front views with dimensions.

Side View (Left):

- Overall width: 340
- Overall height: Ø1048
- Mounting flange diameter: Ø232
- Motor housing width: 20
- Base width: 308.5
- Label 1 points to the base.

Front View (Right):

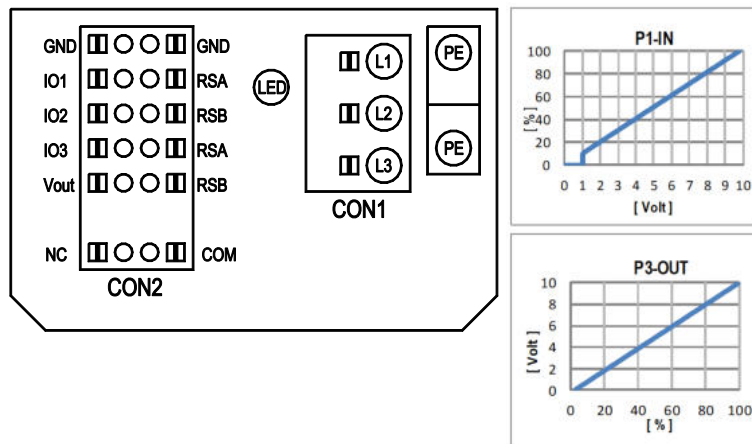
- Blade angle: 30°
- Blade count: 4x90°
- Outer diameter: Ø1075
- Inner diameter: Ø1070
- Mounting holes: 4xØ10(4x)
- Label 2 points to a mounting hole.
- Label 3 points to the fan cage.
- Label 4 points to the mounting flange.
- Overall width: 1010 (1070)
- Overall height: Ø14.5 (12x)

1	Airflow direction "V"
2	Cable diameter min. 4 mm, max. 10 mm, tightening torque 4 ± 0.6 Nm (The tightening torque is designed for PVC cables. If the cable materials are different, the tightening torque may have to be adjusted)
3	Tightening torque 1.5 ± 0.2 Nm
4	Attachment holes for FlowGrid 91000-2-2957 (not included in scope of delivery)

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Connection diagram



No.	Conn.	Designation	Function/assignment
	CON1	L1, L2, L3	Power supply, phase, see nameplate for voltage range
	PE	PE	Protective earth
	CON2	RSA	RS485 interface for MODBUS, RSA; SELV
	CON2	RSB	RS485 interface for MODBUS, RSB; SELV
	CON2	GND	Reference ground for control interface, SELV
	CON2	IO1	Function parameterizable (see "Optional interface functions" table) Factory setting: Digital input - high active, function: Disable input, SELV - inactive: Pin open or applied voltage < 1.5 VDC - active: applied voltage 3.5-50 VDC Reset function: Triggering of error reset on change of state from "enabled" to "disabled"
	CON2	IO2	Function parameterizable (see "Optional interface functions" table) Factory setting: Analog input 0-10 V/PWM, Ri=100 kΩ, function: Set value Characteristic curve parameterizable (see input characteristic curve P1-IN), SELV
	CON2	IO3	Function parameterizable (see "Optional interface functions" table) Factory setting: Analog output 0-10 V, max. 5 mA, function: Actual speed Characteristic curve parametrizable (see output characteristic curve P3-OUT), SELV
	CON2	Vout	Voltage output 3.3-24 VDC ±5%, Pmax=800 mW, voltage parameterizable Factory setting: 10 VDC short-circuit-proof, supply for external devices, SELV alternatively: 15-50 VDC input for parameterization via MODBUS without line voltage
	CON2	COM	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
	CON2	NC	Status relay, floating status contact, break for failure
		LED	green: status = good, ready for operation orange: status = warning red: status = failure
		P1-IN	Input characteristic curve
		P3-OUT	Output characteristic curve

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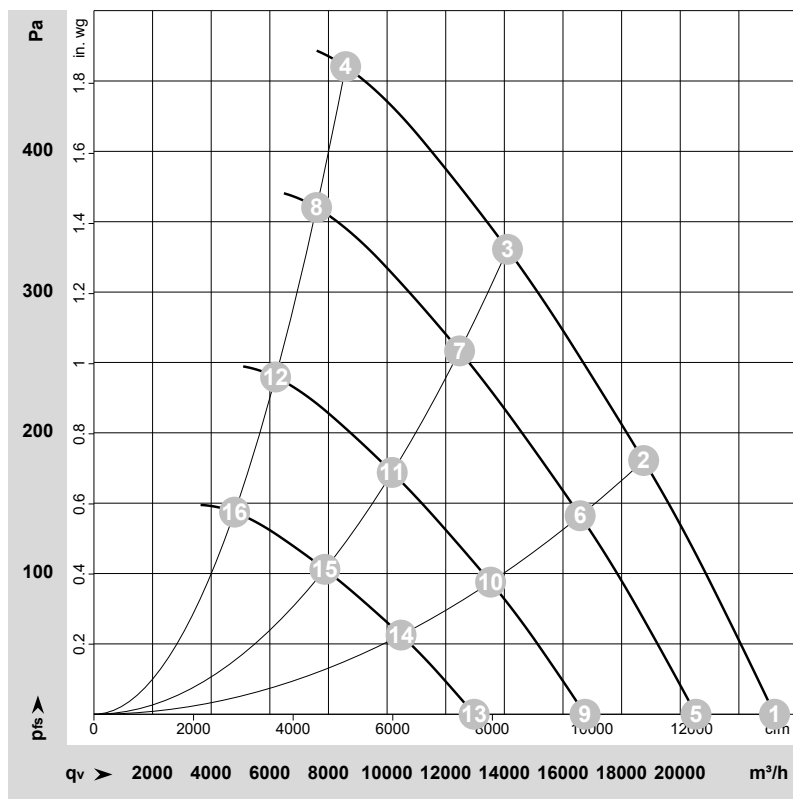
Terminal/plug assignment

○ configurable option		configurable IO functions: normal / inverse		MODBUS Register for IO mode configuration		electrical specification		configurable IO mode		CON2		OUTPUT																															
D130 [4]												D130 [1]		D130 [5]		D130 [2]		D130 [1]		D130 [0]		(selected directly via IO mode)		(selected directly via IO mode)																			
For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3		○ pulse output for auto-addressing		○ pulse input for auto-addressing		signal: tach out		signal: diagnostics out		signal: fan modulation level %		signal: actual speed		signal: system modulation level %		signal: remote control output 0-10V		D130 [5]		D130 [2]		D130 [1]		D130 [0]		(selected directly via IO mode)		(selected directly via IO mode)		D16A [...]		D16C [...]		D148 [...]		D12E [...]		D104 [...]		D147 [...]		D101 [...]	
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with inlet ring and guard grill

Curves: Air performance 50 Hz



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

Measurement: LU-220186-1
Date: 2022-04-01

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	3~	200	50	1070	1529	4.72	81	88	89	91	23215	0	13665	0.00
2	3~	200	50	1070	2135	6.52	75	82	84	86	18750	180	11035	0.72
3	3~	200	50	1070	2444	7.45	73	81	83	85	14110	330	8305	1.32
4	3~	200	50	1070	2600	7.90	77	84	88	90	8585	460	5055	1.85
5	3~	200	50	950	1058	3.26	78	84	86	88	20535	0	12085	0.00
6	3~	200	50	950	1478	4.51	72	79	80	83	16585	141	9765	0.57
7	3~	200	50	950	1689	5.14	70	77	80	82	12470	258	7340	1.04
8	3~	200	50	950	1791	5.45	74	81	85	87	7595	360	4470	1.45
9	3~	200	50	775	574	1.77	73	79	81	83	16755	0	9860	0.00
10	3~	200	50	775	802	2.45	67	74	75	78	13530	94	7965	0.38
11	3~	200	50	775	917	2.79	65	72	75	77	10175	172	5990	0.69
12	3~	200	50	775	972	2.96	69	76	80	81	6195	240	3645	0.96
13	3~	200	50	600	267	0.82	66	73	74	77	12970	0	7635	0.00
14	3~	200	50	600	372	1.14	60	68	69	71	10475	56	6165	0.22
15	3~	200	50	600	425	1.30	59	66	68	70	7875	103	4635	0.41
16	3~	200	50	600	451	1.37	62	70	73	75	4795	144	2825	0.58

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