

8300101310
VUB0450CSNFS

EC axial panel fan - AxiEco

with inlet ring and air inlet grille

ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
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	8300101310	
Motor	E07432-29	
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	85
Current draw	A	0.7
Max. back pressure	Pa	64
Max. back pressure	in. wg	0.26
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

8300101310
VUB0450CSNFS

EC axial panel fan - AxiEco

with inlet ring and air inlet grille

Technical description

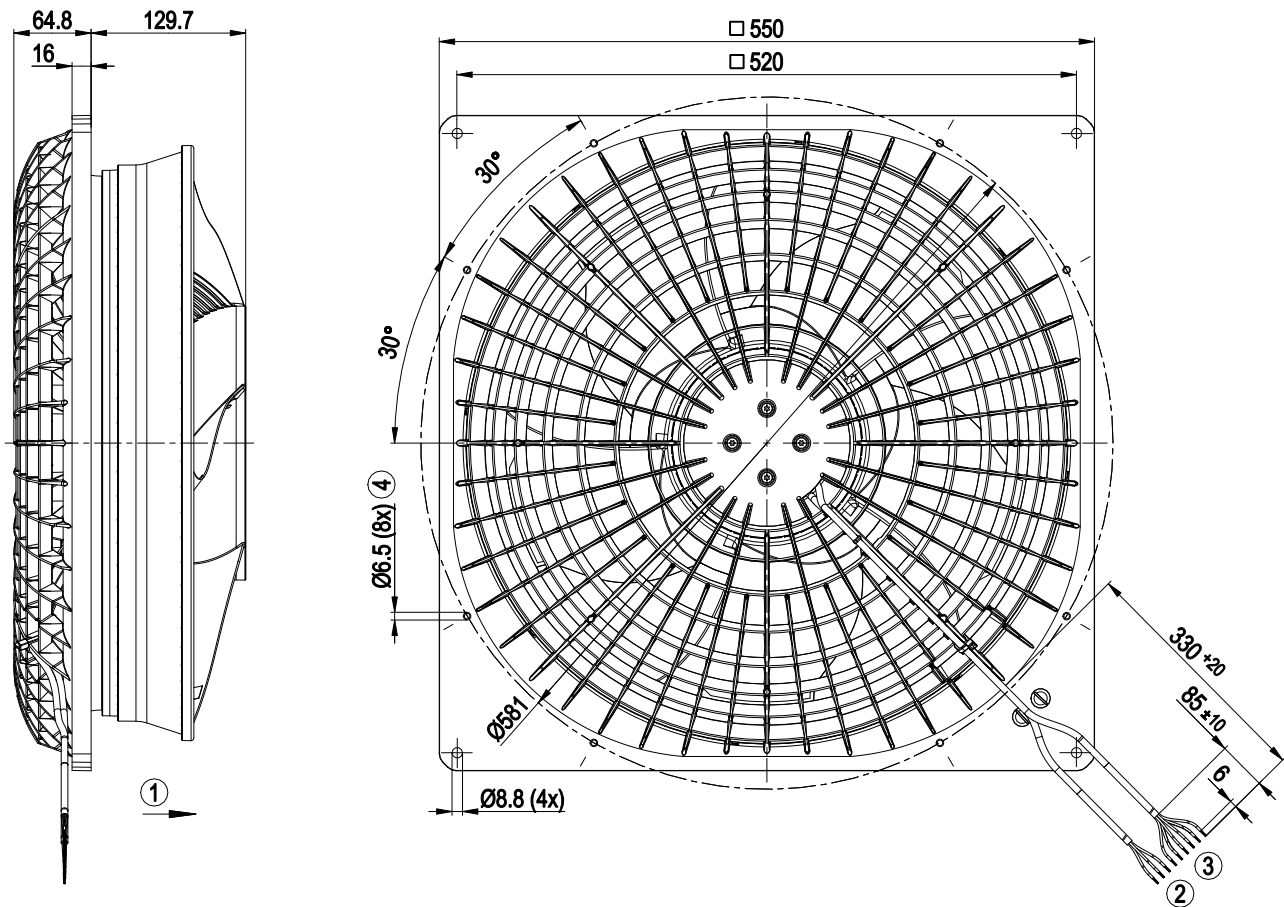
Size	450 mm
Motor size	74
Rotor surface	Thick-film passivated
Impeller material	PP plastic
Inlet ring material	ABS plastic
Flowgrid material	PP plastic
Number of blades	5
Airflow direction	A
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"B"
Moisture (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
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC circuit feedback	According to EN 61000-3-2/3
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
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 60335-1; EN 60034-1; EN 60204-1; CE; UKCA
Comment on CE	Ecodesign Directive 2009/125/EC + Fan Directive (EC) No. 327/2011 does not apply, as power consumption <125W.

8300101310
VUB0450CSNFS

EC axial panel fan - AxiEco

with inlet ring and air inlet grille

Product drawing

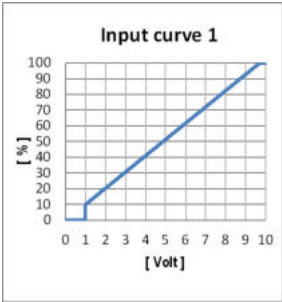


1	Direction of air flow "A"
2	Supply line (PWR) PVC AWG20
	3x splice
3	Control wire (CTRL) PVC AWG22
	6x splice
4	Fastening holes are provided and must be opened subsequently if necessary

EC axial panel fan - AxiEco

with inlet ring and air inlet grille

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, Imax= 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%, Imax=1.1 mA Not short-circuit-proof, power supply for external devices, SELV

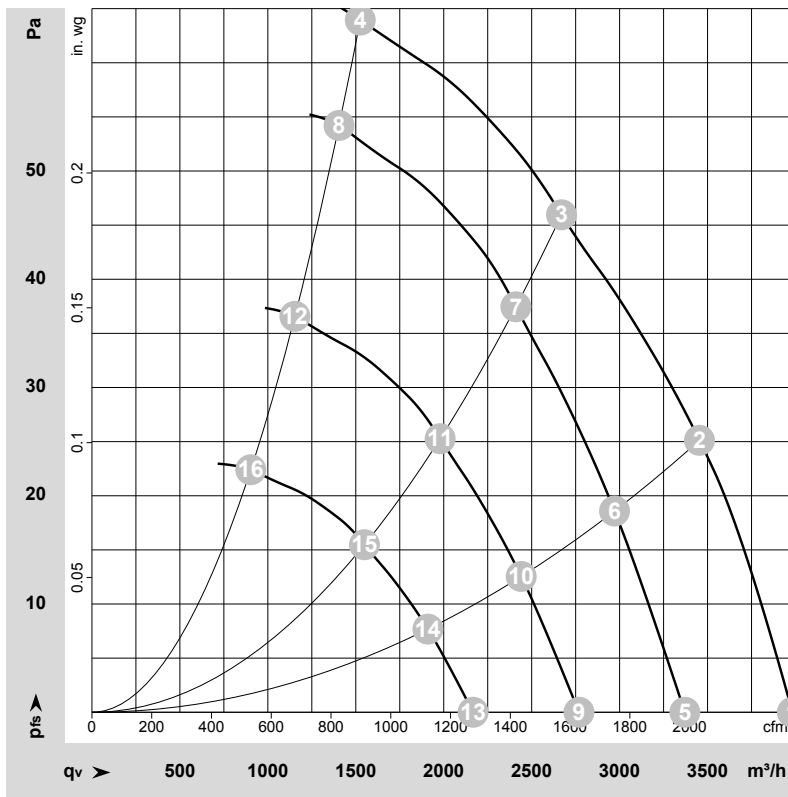
8300101310

VUB0450CSNFS

EC axial panel fan - AxiEco

with inlet ring and air inlet grille

Curves: Air performance 50 Hz



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

Measurement: LU-230415-1
Date: 2024-01-22
Nozzle: 8217118772

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	m ³ /h	Pa	cfm	in. wg
1	1~	230	50	825	72	0.60	59	66	69	71	3980	0	2345	0.00
2	1~	230	50	815	85	0.70	55	63	65	67	3455	25	2035	0.10
3	1~	230	50	775	85	0.70	50	58	61	63	2670	45	1570	0.18
4	1~	230	50	760	85	0.70	51	59	62	63	1525	64	900	0.26
5	1~	230	50	700	44	0.37	55	62	64	66	3370	0	1985	0.00
6	1~	230	50	700	53	0.43	51	59	61	63	2970	19	1750	0.08
7	1~	230	50	700	62	0.51	48	56	58	60	2410	37	1420	0.15
8	1~	230	50	700	66	0.54	49	57	60	61	1405	54	825	0.22
9	1~	230	50	575	24	0.20	50	57	59	61	2770	0	1630	0.00
10	1~	230	50	575	29	0.24	46	54	56	58	2440	13	1435	0.05
11	1~	230	50	575	34	0.28	43	51	53	55	1980	25	1165	0.10
12	1~	230	50	575	37	0.30	44	52	55	56	1155	37	680	0.15
13	1~	230	50	450	12	0.10	44	51	53	55	2165	0	1275	0.00
14	1~	230	50	450	14	0.12	40	48	50	52	1910	8	1125	0.03
15	1~	230	50	450	17	0.13	37	44	47	49	1550	15	910	0.06
16	1~	230	50	450	18	0.14	38	46	48	50	905	22	530	0.09

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