

8300100077
VBS0400CTRNS

EC centrifugal fan - RadiPac

backward-curved, single-intake

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Nominal data

Item	8300100077	
Motor	E11233-80	
Phase		3~
Nominal voltage	VAC	400
Nominal voltage range	VAC	380 .. 480
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	3540
Power consumption	W	3740
Current draw	A	5.8
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	40

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

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

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	68.8	57.4	09 Power consumption P_{ed}	kW	3.65
02 Measurement category		A		09 Air flow q_v	m³/h	7030
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	1232
04 Efficiency grade N		73.4	62	10 Speed (rpm) n	min ⁻¹	3540
05 Variable speed drive		Yes		11 Specific ratio*		1.01

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 = $1 + p_b / 100\,000\text{ Pa}$ LU-215179



Technical description

Weight	13.5 kg
Size	400 mm
Motor size	112
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum
Impeller material	PP plastic
Number of blades	5
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP55
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H1
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 - Vibration sensor
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	According to EN 61000-6-3 (household environment), except EN 61000-3-2 for professionally used equipment with a total rated power greater than 1 kW
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 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 61800-5-1; CE; UKCA
Approval	CSA C22.2 No. 77 + CAN/CSA-E60730-1; EAC; UL 1004-7 + 60730-1

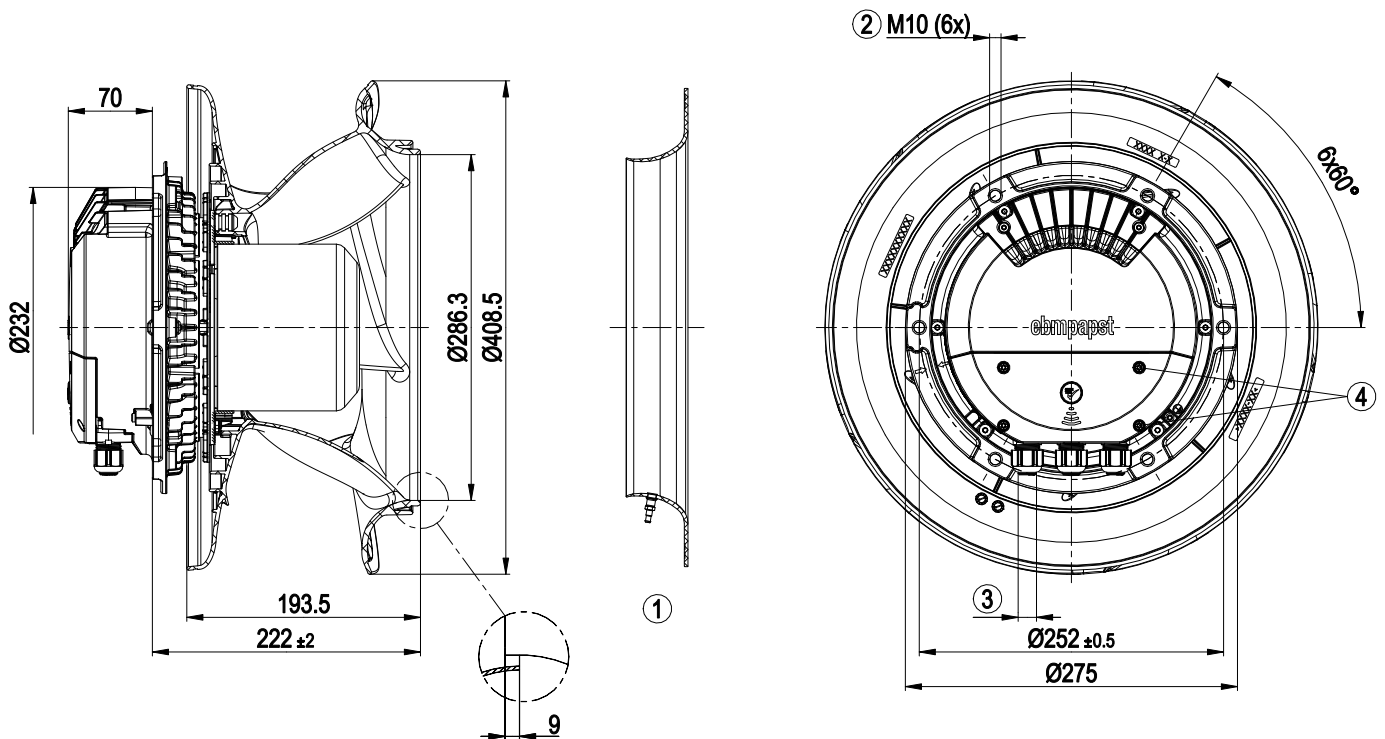


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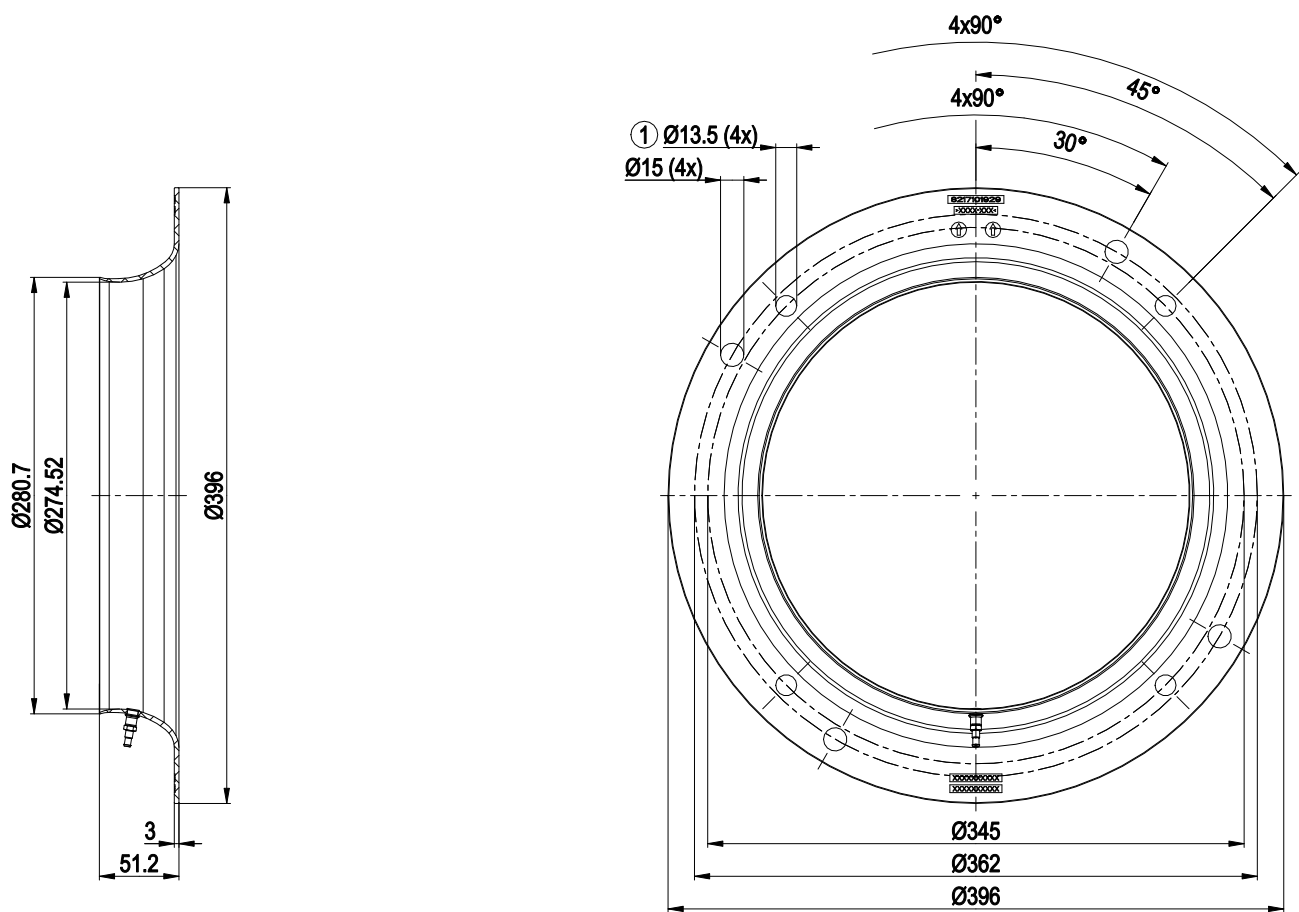
Product drawing



1	Accessory part: Inlet ring 8217102241 with pressure tap (k-factor: 190) (not included in scope of delivery)
2	Max. clearance for screw 20 mm
3	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)
4	Tightening torque 1.5 ± 0.2 Nm



Accessory part



Inlet ring 8217102241 with pressure tap (k-factor: 190)

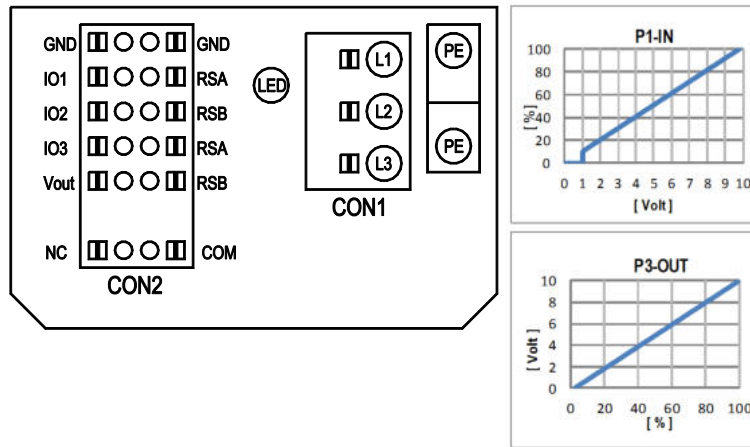
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|---|--|
| 1 | Fastening holes for FlowGrid 00400-2-2957 (not included in scope of delivery) are provided and must be subsequently opened as required |
|---|--|



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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, R _i =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%, P _{max} =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



Terminal/plug assignment

configurable option		For further information and additional functions see EC Control Software, Fan-Set-App. or MODBUS Parameter Specification V6.3	configurable IO functions: normal / inverse	MODBUS Register for IO mode configuration	electrical specification	configurable IO mode	CON2	OUTPUT																					
								source: set value	D101 [...]	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	D148 [...]	D16C [...]	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D130 [4]	D00C [1]				
						○		source: set value	D101 [...]			○		switch: fan enable / disable	D16A [...]		signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D130 [4]	D00C [1]					
						○		source: sensor value	D101 [...]			○		switch: control function: heating (pos.) / cooling (neg.)	D148 [...]		switch: direction of rotation: cw / ccw	D16C [...]	D16A [...]		signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D130 [4]	D00C [1]	
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						○		source: set value	D101 [...]			○		switch: parameter set: #1 / #2	D104 [...]		switch: control function: heating (pos.) / cooling (neg.)	D148 [...]	D16C [...]	D16A [...]		signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D130 [4]	D00C [1]
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						○		source: set value	D101 [...]			○		switch: parameter set: #1 / #2	D104 [...]		switch: control function: heating (pos.) / cooling (neg.)	D148 [...]	D16C [...]	D16A [...]		signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D130 [4]	D00C [1]
						○		source: set value	D101 [...]			○		switch: parameter set: #1 / #2	D104 [...]		switch: control function: heating (pos.) / cooling (neg.)	D148 [...]	D16C [...]	D16A [...]		signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D130 [4]	D00C [1]
						○		source: set value	D101 [...]			○		switch: parameter set: #1 / #2	D104 [...]		switch: control function: heating (pos.) / cooling (neg.)	D148 [...]	D16C [...]	D16A [...]		signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D130 [4]	D00C [1]
						○		source: set value	D101 [...]			○		switch: parameter set: #1 / #2	D104 [...]		switch: control function: heating (pos.) / cooling (neg.)	D148 [...]	D16C [...]	D16A [...]		signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D130 [4]	D00C [1]
						○		source: set value	D101 [...]			○		switch: parameter set: #1 / #2	D104 [...]		switch: control function: heating (pos.) / cooling (neg.)	D148 [...]	D16C [...]	D16A [...]		signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D130 [4]	D00C [1]
						○		source: set value	D101 [...]			○		switch: parameter set: #1 / #2	D104 [...]		switch: control function: heating (pos.) / cooling (neg.)	D148 [...]	D16C [...]	D16A [...]		signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D130 [4]	D00C [1]
						○		source: set value	D101 [...]																				

◦ configurable option
For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3



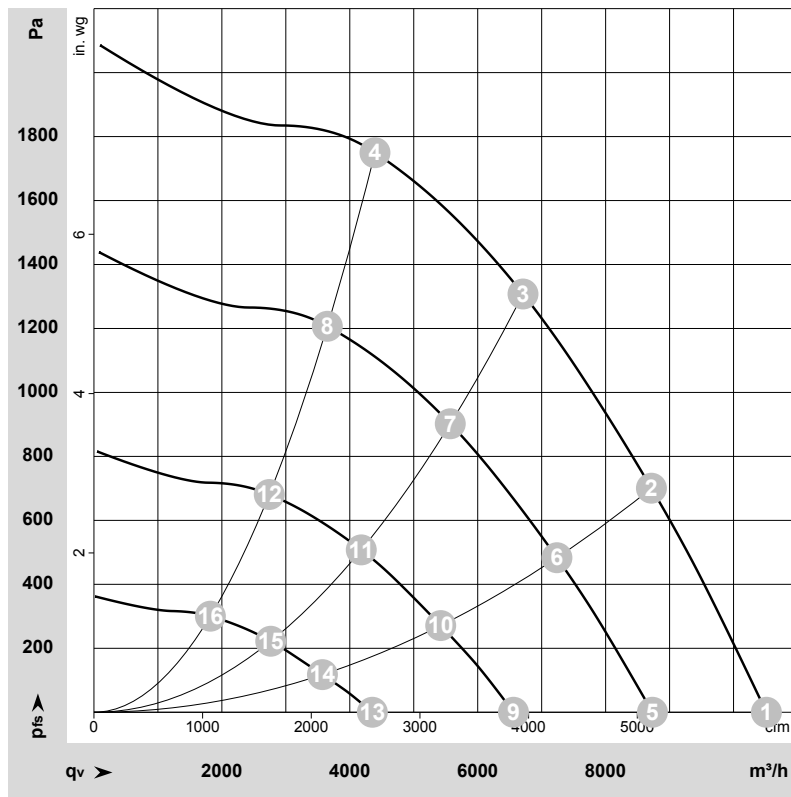
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VBS0400CTRNS

EC centrifugal fan - RadiPac

backward-curved, single-intake

Curves: Air performance 50 Hz



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

Measurement: LU-215179-1

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}	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	3~	400	50	3540	2882	4.42	93	101	103	105	10515	0	6190	0.00
2	3~	400	50	3540	3448	5.30	85	93	97	98	8715	700	5130	2.81
3	3~	400	50	3540	3740	5.80	81	89	93	94	6710	1300	3950	5.22
4	3~	400	50	3540	3570	5.48	82	89	94	96	4395	1750	2585	7.03
5	3~	400	50	2940	1680	2.66	88	95	98	100	8730	0	5140	0.00
6	3~	400	50	2940	2001	3.14	80	88	92	93	7240	483	4260	1.94
7	3~	400	50	2940	2135	3.34	76	84	88	90	5570	903	3280	3.63
8	3~	400	50	2940	2073	3.25	77	85	90	91	3650	1207	2150	4.85
9	3~	400	50	2210	777	1.40	79	87	90	92	6560	0	3860	0.00
10	3~	400	50	2210	903	1.57	72	80	84	85	5420	271	3190	1.09
11	3~	400	50	2210	957	1.64	69	76	81	82	4180	508	2460	2.04
12	3~	400	50	2210	935	1.61	70	77	82	83	2740	681	1615	2.73
13	3~	400	50	1470	272	0.69	68	76	80	81	4355	0	2560	0.00
14	3~	400	50	1470	304	0.75	61	69	73	75	3570	118	2100	0.47
15	3~	400	50	1470	321	0.77	58	65	70	71	2765	222	1625	0.89
16	3~	400	50	1470	316	0.76	58	66	70	72	1820	300	1070	1.20

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

