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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Item	8300100923	
Motor	E09001-28	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	1050
Power consumption	W	370
Current draw	A	2.3
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	55

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}	%	66.5	46.9	09 Power consumption P_{ed}	kW	0.36
02 Measurement category		A		09 Air flow q_v	m³/h	4055
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	196
04 Efficiency grade N		81.6	62	10 Speed (rpm) n	min ⁻¹	1050
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 = $1 + p_b / 100\,000\text{ Pa}$ LU-224856

8300100923
VBS0500CSPFS

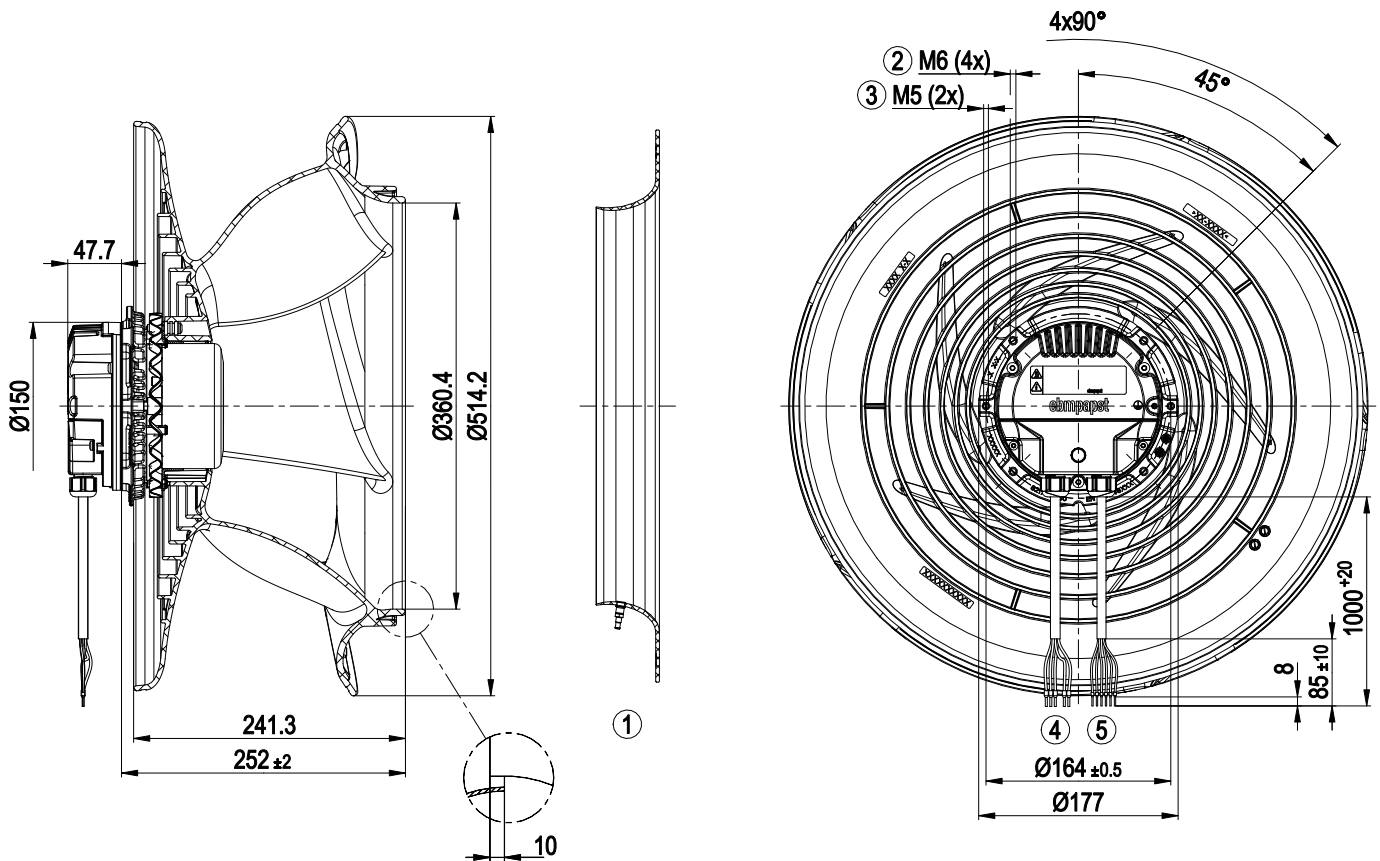
EC centrifugal fan - RadiPac

backward-curved, single-intake

Technical description

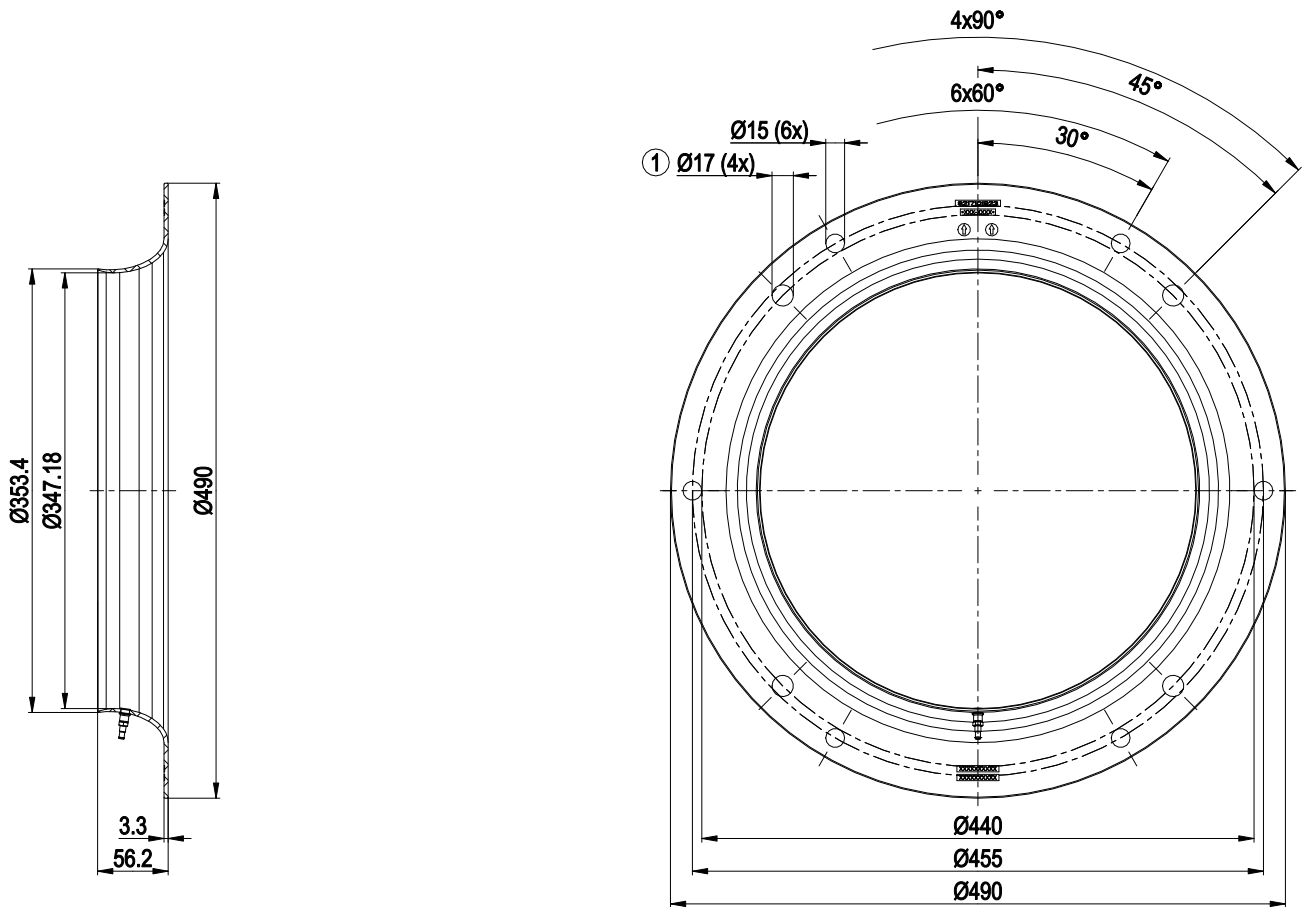
Weight	7.5 kg
Size	500 mm
Motor size	90
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum
Impeller material	PP plastic
Number of blades	5
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP55
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H1 = Moist – occasional or constantly high level of humidity
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	- Output 10 VDC, max. 10 mA - Operation and alarm display with LED - Locked-rotor detection - Speed control - External 15-30 VDC input (parameterization) - Alarm relay - Configurable inputs/outputs (I/O) - Power limiter - MODBUS - Motor current limitation - PFC, passive - RS-485 MODBUS-RTU - 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.
Conformity with standards	EN 60335-1; EN 61800-5-1; CE; UKCA
Approval	CSA C22.2 No. 77 + CAN/CSA-E60730-1; UL 1004-7 + 60730-1

Product drawing



1	Accessory part: Inlet ring 8217102238 with pressure tap (k-factor: 290) (not included in scope of delivery)
2	Max. clearance for screw 10 mm
3	Max. clearance for screw 10 mm The M5 tapped holes (2x) can be used to attach hoisting equipment.
4	Supply line (PWR) PVC AWG18 5x wire-end ferrule
5	Control wire (CTRL) PVC AWG22 6x wire-end ferrule

Accessory part



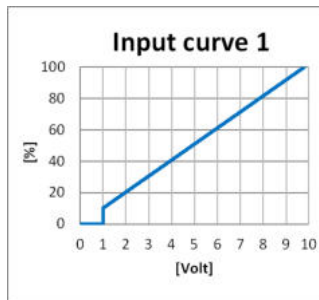
Inlet ring 8217102238 with pressure tap (k-factor: 290)

- | | |
|---|--|
| 1 | Fastening holes for FlowGrid 35505-2-2957 (not included in scope of delivery) are provided and must be subsequently opened as required |
|---|--|

EC centrifugal fan - RadiPac

backward-curved, single-intake

Connection diagram

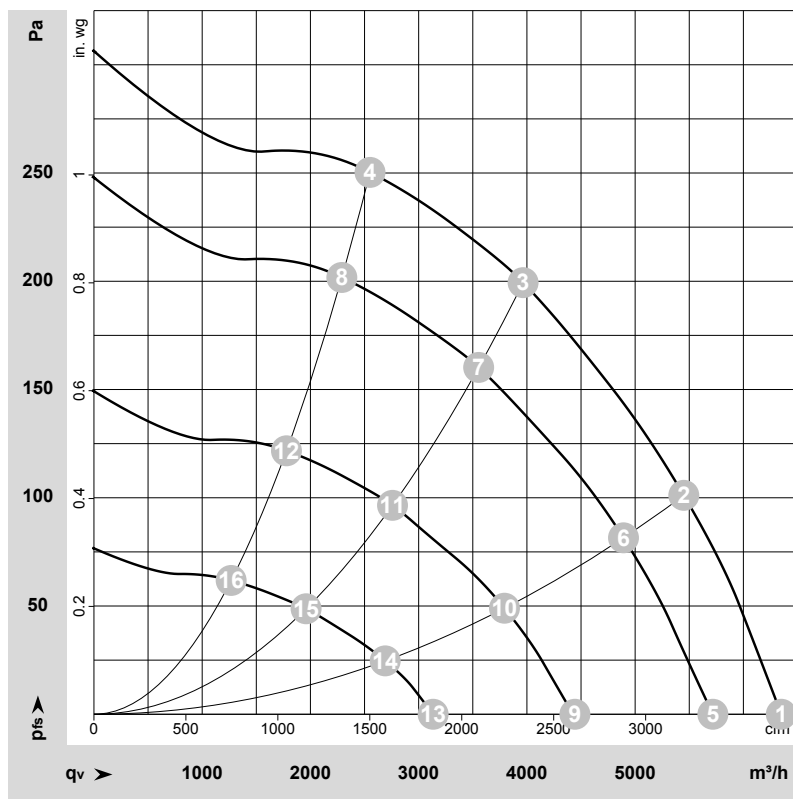


No.	Conn.	Designation	Color	Function/assignment
	PWR	PE	green/yellow	Protective earth
	PWR	L	black	Power supply, phase, see nameplate for voltage range
	PWR	N	blue	Power supply, neutral conductor, see nameplate for voltage range
	PWR	COM	orange	Status relay, floating status contact, common connection, 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 alternative: 15-30 VDC input for parameterization via MODBUS without line voltage
	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 (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 (see table Optional interface functions)
	CTRL	RSA	gray	RS-485 interface for MODBUS RSA, SELV dielectric strength to MODBUS RSB +/-14 V, dielectric strength to GND +/-7 V
	CTRL	RSB	brown	RS-485 interface for MODBUS RSB, SELV dielectric strength to MODBUS RSA +/-14 V, dielectric strength to GND +/-7 V
		LED		green: status = good, ready for operation orange: status = warning red: status = failure

Terminal/plug assignment

Medium (M2)		Functions and parameter description MODBUS V7.1		configurable IO mode		electrical specification		MODBUS Register for IO mode configuration		configurable IO functions: normal / inverse		INPUT		OUTPUT		selection direct via IO		D145		signal: status																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
IO1	Dim1 (high active): digital input	active: applied voltage 3.5 - 50 VDC		D158 [0]		not active: pin open or applied voltage < 1.5 VDC, SELV		source: input pulses autoaddressing		signal: tach out		D130 [1]		signal: actual speed 1/min		D130 [2]		signal: system modulation level %		D130 [3]		signal: fan modulation level %		D618		signal: DCI out		D130 [4]		signal: output pulses autoaddressing		signal: alarm out		signal: diagnostics out		signal: tach out		D638 [...]		D00C [1]		D16A [...]		D16C [...]		D148 [...]		D12E [...]		D104 [...]		D147 [...]		D101 [...]		source: set value		source: sensor value		switch: parameter set: #1 / #2		switch: control function: heating (pos.) / cooling (neg.)		switch: direction of rotation: cw / ccw		switch: set value source		switch: fan enable / disable		source: input pulses autoaddressing		source: DCI in		D638 [...]		D00C [1]		D16A [...]		D16C [...]		D148 [...]		D12E [...]		D104 [...]		D147 [...]		D101 [...]		source: set value		source: sensor value		switch: 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input pulses autoaddressing		source: DCI in		D638 [...]		D00C [1]		D16A [...]		D16C [...]		D148 [...]		D12E [...]		D104 [...]		D147 [...]		D101 [...]		source: set value		source: sensor value		switch: parameter set: #1 / #2		switch: control function: heating (pos.) / cooling (neg.)		switch: direction of rotation: cw / ccw		switch: set value source		switch: fan enable / disable		source: input pulses autoaddressing		source: DCI in		D638 [...]		D00C [1]		D16A [...]		D16C [...]		D148 [...]		D12E [...]		D104 [...]		D147 [...]		D101 [...]		source: set value		source: sensor value		switch: parameter set: #1 / #2		switch: control function: heating (pos.) / cooling (neg.)		switch: direction of rotation: cw / ccw		switch: set value source		switch: fan enable / disable		source: input pulses autoaddressing		source: DCI in		D638 [...]		D00C [1]		D16A [...]		D16C [...]		D148 [...]		D12E [...]		D104 [...]		D147 [...]		D101 [...]		source: set value		source: sensor value		switch: parameter set: #1 / #2		switch: control function: heating (pos.) / cooling (neg.)		switch: direction of rotation: cw / ccw		switch: set value source		switch: fan enable / disable		source: input pulses autoaddressing		source: DCI in		D638 [...]		D00C [1]		D16A [...]		D16C [...]		D148 [...]		D12E [...]		D104 [...]		D147 [...]		D101 [...]		source: set value		source: sensor value		switch: parameter set: #1 / #2		switch: control function: heating (pos.) / cooling (neg.)		switch: direction of rotation: cw / ccw		switch: set value source		switch: fan enable / disable		source: input pulses autoaddressing		source: DCI in		D638 [...]		D00C [1]		D16A [...]		D16C [...]		D148 [...]		D12E [...]		D104 [...]		D147 [...]		D101 [...]		source: set value		source: sensor value		switch: parameter set: #1 / #2		switch: control function: heating (pos.) / cooling (neg.)		switch: direction of rotation: cw / ccw		switch: set value source		switch: fan enable / disable		source: input pulses autoaddressing		source: DCI in		D638 [...]		D00C [1]		D16A [...]		D16C [...]		D148 [...]		D12E [...]		D104 [...]		D147 [...]		D101 [...]		source: set value		source: sensor value		switch: parameter set: #1 / #2		switch: control function: heating (pos.) / cooling (neg.)		switch: direction of rotation: cw / ccw		switch: set value source		switch: fan enable / disable		source: input pulses autoaddressing		source: DCI in		D638 [...]		D00C [1]		D16A [...]		D16C [...]		D148 [...]		D12E [...]		D104 [...]		D147 [...]		D101 [...]		source: set value		source: sensor value		switch: parameter set: #1 / #2		switch: control function: heating (pos.) / cooling (neg.)		switch: direction of rotation: cw / ccw		switch: set value source	

Curves: Air performance 50 Hz



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

Measurement: LU-224856-1
Date: 2023-01-19
Nozzle: 8217101923

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	1050	234	1.51	65	73	77	78	6350	0	3735	0.00
2	1~	230	50	1050	317	1.99	60	68	71	73	5450	100	3205	0.40
3	1~	230	50	1050	370	2.30	54	61	66	67	3965	200	2335	0.80
4	1~	230	50	1050	343	2.14	54	61	66	67	2550	250	1500	1.00
5	1~	230	50	945	171	1.13	62	71	74	76	5720	0	3365	0.00
6	1~	230	50	945	229	1.48	57	65	69	71	4890	82	2880	0.33
7	1~	230	50	945	263	1.68	51	59	64	65	3555	160	2090	0.64
8	1~	230	50	940	246	1.58	52	58	63	64	2290	202	1350	0.81
9	1~	230	50	730	84	0.60	58	66	70	71	4445	0	2615	0.00
10	1~	230	50	735	109	0.76	52	60	64	65	3795	49	2230	0.20
11	1~	230	50	735	123	0.85	47	53	58	59	2760	97	1625	0.39
12	1~	230	50	735	116	0.80	46	52	57	58	1780	122	1045	0.49
13	1~	230	50	525	34	0.27	48	56	63	64	3135	0	1845	0.00
14	1~	230	50	525	43	0.33	42	50	57	58	2690	25	1585	0.10
15	1~	230	50	525	48	0.36	38	46	53	53	1960	49	1155	0.20
16	1~	230	50	525	45	0.35	37	44	49	51	1270	62	745	0.25

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