

8300100547
VBH0500CTTLS

EC centrifugal module - RadiPac

backward-curved, single-intake
with support bracket

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Nominal data

Item	8300100547	
Motor	E15037-55	
Phase		3~
Nominal voltage	VAC	400
Nominal voltage range	VAC	380 .. 480
Frequency	Hz	50/60
Method of obtaining data		ml
Status		prelim.
Speed (rpm)	min ⁻¹	2450
Power consumption	W	4000
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}	%	71.9	57.8	09 Power consumption P_{ed}	kW	4
02 Measurement category		A		09 Air flow q_v	m³/h	10385
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	959
04 Efficiency grade N		76.1	62	10 Speed (rpm) n	min ⁻¹	2435
05 Variable speed drive		Yes		11 Specific ratio*		1.01

Data obtained at optimum efficiency level. * Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$ LU-220201

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	38,3
Size	500 mm
Motor size	150
Rotor surface	Painted black
Terminal box material	Die-cast aluminum
Impeller material	PP plastic
Support plate material	Sheet steel, galvanized
Support bracket material	Steel, painted black
Inlet nozzle material	ABS 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; (sealed)
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 V6.4 - Motor current limitation - PFC, active - 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
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Terminal box
Motor protection	Electronic motor protection
Protection class assignment	I; If a protective earth is connected to the PE connection point. The built-in component has several local protection class assignments. The final protection class is determined by the intended installation.

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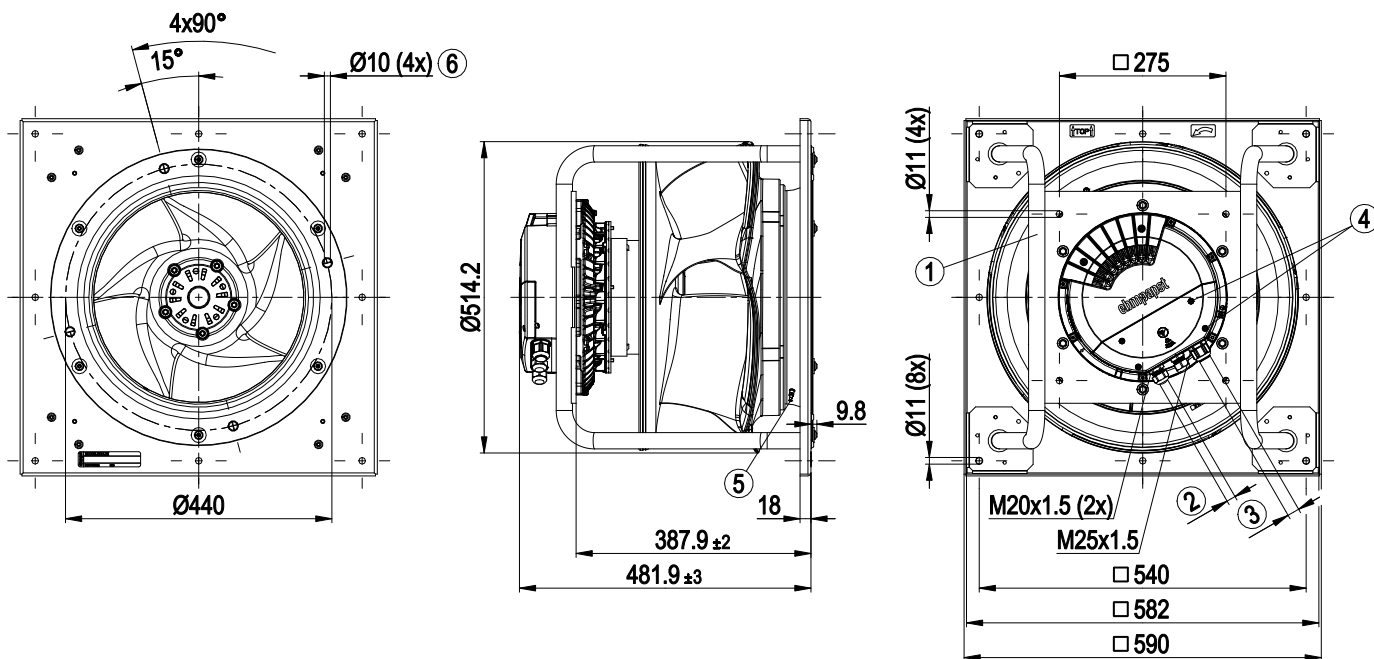
Conformity with standards	EN 61800-5-1; CE; UKCA
Approval	CSA C22.2 No. 77 + CAN/CSA-E60730-1; EAC; UL 1004-7 + 60730-1
Comment	Maximum permissible operating altitude 4000 m above sea level according to DIN 61800-5-1_2008_Sec. 4.3.6.4.1 overvoltage category II. Up to 2000 m above sea level, overvoltage category III applies.

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Product drawing

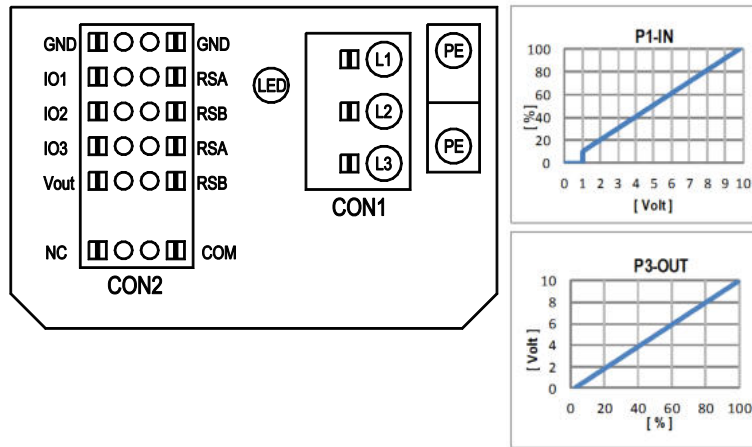


1	Installed position: shaft horizontal (install support struts only vertically as illustrated) or rotor on bottom; rotor on top on request
2	Cable diameter min. 4 mm, max. 10 mm, tightening torque 4 ± 0.6 Nm
3	Cable diameter min. 5 mm, max. 14 mm, tightening torque 6 ± 0.9 Nm
	(The tightening torque is designed for PVC cables. If the cable materials are different, the tightening torque may have to be adjusted)
4	Tightening torque 3 ± 0.3 Nm
5	Inlet ring with pressure tap (k-factor: 290)
6	Fastening holes for FlowGrid 35505-2-2957 (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, 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

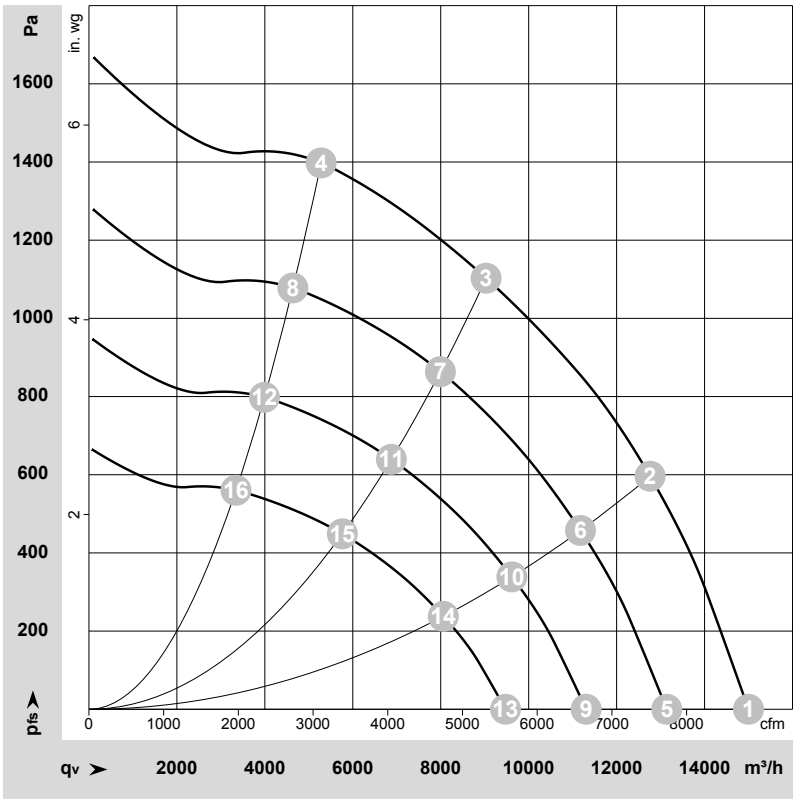
Terminal/plug assignment

configurable option		For further information and additional functions see EC Control Software, Fan-Set-App. or MODBUS Parameter Specification V6.4	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]			
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								source: set value	D101 [...]	source: sensor value	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]	pulse output for auto-addressing	D130 [4]
								source: set value	D101 [...]	source: sensor value	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]	pulse output for auto-addressing	D130 [4]
								source: set value	D101 [...]	source: sensor value	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]	pulse output for auto-addressing	D130 [4]
								source: set value	D101 [...]	source: sensor value	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]	pulse output for auto-addressing	D130 [4]
								source: set value	D101 [...]	source: sensor value	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]	pulse output for auto-addressing	D130 [4]
								source: set value	D101 [...]	source: sensor value	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]	pulse output for auto-addressing	D130 [4]
								source: set value	D101 [...]	source: sensor value	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]	pulse output for auto-addressing	D130 [4]
								source: set value	D101 [...]	source: sensor value	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]	pulse output for auto-addressing	D130 [4]
								source: set value	D101 [...]	source: sensor value	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]	pulse output for auto-addressing	D130 [4]
								source: set value	D101 [...]	source: sensor value	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]	pulse output for auto-addressing	D130 [4]
								source: set value	D101 [...]	source: sensor value	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]	pulse output for auto-addressing	D130 [4]
								source: set value	D101 [...]	source: sensor value	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]	pulse output for auto-addressing	D130 [4]
								source: set value	D101 [...]	source: sensor value	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]	pulse output for auto-addressing	D130 [4]
								source: set value	D101 [...]	source: sensor value	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]	pulse output for auto-addressing	D130 [4]
								source: set value	D101 [...]	source: sensor value	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]	pulse output for auto-addressing	D130 [4]
								source: set value	D101 [...]	source: sensor value	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 [					

EC centrifugal module - RadiPac

backward-curved, single-intake
with support bracket

Curves: Air performance 50 Hz



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

Measurement: LU-220201-1
Date: 2022-04-28
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	3~	400	50	2450	2647	3.82	85	93	97	98	15000	0	8830	0.00
2	3~	400	50	2450	3651	5.27	79	87	92	93	12760	600	7510	2.41
3	3~	400	50	2450	4000	5.80	73	81	87	88	9030	1100	5315	4.42
4	3~	400	50	2450	3715	5.36	79	86	92	93	5280	1400	3110	5.62
5	3~	400	50	2150	1780	2.57	82	90	93	95	13140	0	7735	0.00
6	3~	400	50	2150	2454	3.54	76	84	88	90	11180	457	6580	1.83
7	3~	400	50	2150	2790	4.03	70	78	84	85	7995	866	4705	3.48
8	3~	400	50	2150	2516	3.63	76	83	89	90	4635	1079	2730	4.33
9	3~	400	50	1850	1134	1.64	78	86	90	91	11305	0	6655	0.00
10	3~	400	50	1850	1563	2.26	72	80	84	86	9620	339	5660	1.36
11	3~	400	50	1850	1778	2.57	66	74	81	81	6875	641	4050	2.57
12	3~	400	50	1850	1603	2.31	72	79	85	86	3990	799	2350	3.21
13	3~	400	50	1550	667	0.96	73	82	85	87	9475	0	5575	0.00
14	3~	400	50	1550	919	1.33	67	75	80	81	8060	238	4745	0.96
15	3~	400	50	1550	1046	1.51	62	70	76	77	5760	450	3390	1.81
16	3~	400	50	1550	943	1.36	68	75	81	82	3345	561	1970	2.25

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