

8300100632
VCH0560CTTRS

EC centrifugal module - RadiPac

backward-curved, single-intake
with housing

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Nominal data

Item	8300100632	
Motor	E15034-120	
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	2370
Power consumption	W	6350
Current draw	A	9.7
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}	%	77.9	59.9	09 Power consumption P_{ed}	kW	6.32
02 Measurement category		A		09 Air flow q_v	m³/h	11945
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	1438
04 Efficiency grade N		80	62	10 Speed (rpm) n	min ⁻¹	2365
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-222519

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Technical description

Weight	81.3 kg
Size	560 mm
Motor size	150
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum
Impeller material	PP plastic
Housing material	Sheet steel, galvanized
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	See legend on product drawing
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 V6.3 - 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
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), 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

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Motor protection	Electronic motor protection
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	CSA C22.2 No. 77 + CAN/CSA-E60730-1; EAC; UL 1004-7 + 60730-1

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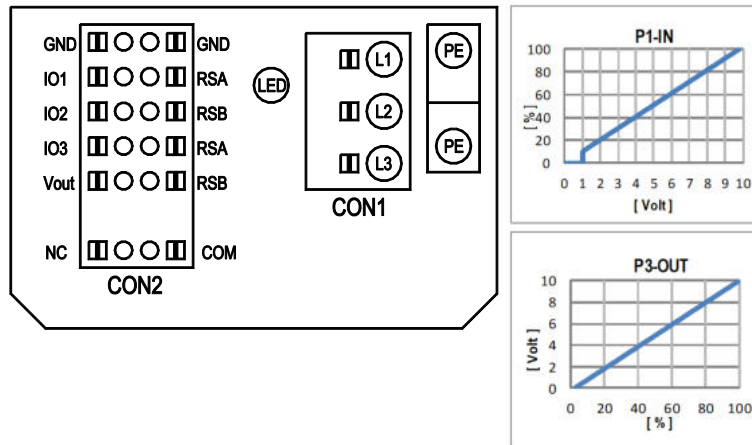
1	Installed position: shaft horizontal (install support struts only vertically as illustrated) or rotor on bottom; rotor on top on request
2	Cable diameter min. 4 mm, max. 10 mm, tightening torque 4 ± 0.6 Nm
3	Cable diameter min. 5 mm, max. 14 mm, tightening torque 6 ± 0.9 Nm
	(The tightening torque 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: 381)
6	Attachment holes for FlowGrid 50710-2-2957 (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		OUTPUT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CON2	configurable IO mode	digital input			active: applied voltage 3.5-50VDC, SELV	D158 [0]	switch: set value source	D16A [...]	D16C [...]	D148 [...]	D12E [...]	D104 [...]	D147 [...]	D101 [...]	source: set value	D101 [...]	source: sensor value	D147 [...]	D104 [...]	switch: parameter set: #1 / #2	D12E [...]	switch: direction of rotation: cw / ccw	D148 [...]	switch: fan enable / disable	D16A [...]	signal: tach out (selected directly via IO mode)	signal: diagnostics out (selected directly via IO mode)	signal: fan modulation level %	D130 [0]	signal: actual speed	D130 [1]	signal: system modulation level %	D130 [2]	signal: remote control output 0-10V	D130 [5]	pulse input for auto-addressing	D00C [1]	pulse output for auto-addressing	D130 [4]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
					not active: pin open or applied voltage < 1.5VDC	D158 [2]	switch: control function: heating (pos.) / cooling (neg.)	D158 [5]	switch: parameter set: #1 / #2	D158 [6]	switch: control function: heating (pos.) / cooling (neg.)	D159 [0]	switch: direction of rotation: cw / ccw	D159 [2]	switch: fan enable / disable	D159 [3]	switch: parameter set: #1 / #2	D15A [0]	switch: fan enable / disable	D15A [1]	switch: direction of rotation: cw / ccw	D15A [7]	switch: fan enable / disable	D15A [8]	switch: control function: heating (pos.) / cooling (neg.)	D15A [4]	switch: fan enable / disable	D15A [5]	switch: fan enable / disable	D15A [6]	switch: control function: heating (pos.) / cooling (neg.)	D15A [7]	switch: fan enable / disable	D15A [8]	switch: control function: heating (pos.) / cooling (neg.)	D15A [9]	switch: fan enable / disable	D15A [10]	switch: control function: heating (pos.) / cooling (neg.)	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D15A [29]	switch: fan enable / disable	D15A [30]	switch: control function: heating (pos.) / cooling (neg.)	D15A [31]	switch: fan enable / disable	D15A [32]	switch: control function: heating (pos.) / cooling (neg.)	D15A [33]	switch: fan enable / disable	D15A [34]	switch: control function: heating (pos.) / cooling (neg.)	D15A [35]	switch: fan enable / disable	D15A [36]	switch: control function: heating (pos.) / cooling (neg.)	D15A [37]	switch: fan enable / disable	D15A [38]	switch: control function: heating (pos.) / cooling (neg.)	D15A [39]	switch: fan enable / disable	D15A [40]	switch: control function: heating (pos.) / cooling (neg.)	D15A [41]	switch: fan enable / disable	D15A [42]	switch: control function: heating (pos.) / cooling (neg.)	D15A [43]	switch: fan enable / disable	D15A [44]	switch: control function: heating (pos.) / cooling (neg.)	D15A [45]	switch: fan enable / disable	D15A [46]	switch: control function: heating (pos.) / cooling (neg.)	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D15A [245]	switch: fan enable / disable	D15A [246]	switch: control function: heating (pos.) / cooling (neg.)	D15A [247]	switch: fan enable / disable	D15A [248]	switch: control function: heating (pos.) / cooling (neg.)	D15A [249]	switch: fan enable / disable	D15A [250]	switch: control function: heating (pos.) / cooling (neg.)	D15A [251]	switch: fan enable / disable	D15A [252]	switch: control function: heating (pos.) / cooling (neg.)	D15A [253]	switch: fan enable / disable	D15A [254]	switch: control function: heating (pos.) / cooling (neg.)	D15A [255]	switch: fan enable / disable	D15A [256]	switch: control function: heating (pos.) / cooling (neg.)	D15A [257]	switch: fan enable / disable	D15A [258]	switch: control function: heating (pos.) / cooling (neg.)	D15A [259]	switch: fan enable / disable	D15A [260]	switch: control function: heating (pos.) / cooling (neg.)	D15A [261]	switch: fan enable / disable	D15A [262]	switch: control function: heating (pos.) / cooling (neg.)	D15A [263]	switch: fan enable / disable	D15A [264]	switch: control function: heating (pos.) / cooling (neg.)	D15A [265]	switch: fan enable / disable	D15A [266]	switch: control function: heating (pos.) / cooling (neg.)	D15A [267]	switch: fan enable / disable	D15A [268]	switch: control function: heating (pos.) / cooling (neg.)	D15A [269]	switch: fan enable / disable	D15A [270]	switch: control function: heating (pos.) / cooling (neg.)	D15A [271]	switch: fan enable / disable	D15A [272]	switch: control function: heating (pos.) / cooling (neg.)	D15A [273]	switch: fan enable / disable	D15A [274]	switch: control function: heating (pos.) / cooling (neg.)	D15A [275]	switch: fan enable / disable	D15A [276]	switch: control function: heating (pos.) / cooling (neg.)	D15A [277]	switch: fan enable / disable	D15A [278]	switch: control function: heating (pos.) / cooling (neg.)	D15A [279]	switch: fan enable / disable	D15A [280]	switch: control function: heating (pos.) / cooling (neg.)	D15A [281]	switch: fan enable / disable	D15A [282]	switch: control function: heating (pos.) / cooling (neg.)	D15A [283]	switch: fan enable / disable	D15A [284]	switch: control function: heating (pos.) / cooling (neg.)	D15A [285]	switch: fan enable / disable	D15A [286]	switch: control function: heating (pos.) / cooling (neg.)	D15A [287]	switch: fan enable / disable	D15A [288]	switch: control function: heating (pos.) / cooling (neg.)	D15A [289]	switch: fan enable / disable	D15A [290]	switch: control function: heating (pos.) / cooling (neg.)	D15A [291]	switch: fan enable / disable	D15A [292]	switch: control function: heating (pos.) / cooling (neg.)	D15A [293]	switch: fan enable / disable	D15A [294]	switch: control function: heating (pos.) / cooling (neg.)	D15A [295]	switch: fan enable / disable	D15A [296]	switch: control function: heating (pos.) / cooling (neg.)	D15A [297]	switch: fan enable / disable	D15A [298]	switch: control function: heating (pos.) / cooling (neg.)	D15A [299]	switch: fan enable / disable	D15A [300]	switch: control function: heating (pos.) / cooling (neg.)	D15A [301]	switch: fan enable / disable	D15A [302]	switch: control function: heating (pos.) / cooling (neg.)	D15A [303]	switch: fan enable / disable	D15A [304]	switch: control function: heating (pos.) / cooling (neg.)	D15A [305]	switch: fan enable / disable	D15A [306]	switch: control function: heating (pos.) / cooling (neg.)	D15A [307]	switch: fan enable / disable	D15A [308]	switch: control function: heating (pos.) / cooling (neg.)	D15A [309]	switch: fan enable / disable	D15A [310]	switch: control function: heating (pos.) / cooling (neg.)	D15A [311]	switch: fan enable / disable	D15A [312]	switch: control function: heating (pos.) / cooling (neg.)	D15A [313]	switch: fan enable / disable	D15A [314]	switch: control function: heating (pos.) / cooling (neg.)	D15A [315]	switch: fan enable / disable	D15A [316]	switch: control function: heating (pos.) / cooling (neg.)	D15A [317]	switch: fan enable / disable	D15A [318]	switch: control function: heating (pos.) / cooling (neg.)	D15A [319]	switch: fan enable / disable	D15A [320]	switch: control function: heating (pos.) / cooling (neg.)	D15A [321]	switch: fan enable / disable	D15A [322]	switch: control function: heating (pos.) / cooling (neg.)	D15A [323]	switch: fan enable / disable	D15A [324]	switch: control function: heating (pos.) / cooling (neg.)	D15A [325]	switch: fan enable / disable	D15A [326]	switch: control function: heating (pos.) / cooling (neg.)	D15A [327]	switch: fan enable / disable	D15A [328]	switch: control function: heating (pos.) / cooling (neg.)	D15A [329]	switch: fan enable / disable	D15A [330]	switch: control function: heating (pos.) / cooling (neg.)	D15A [331]	switch: fan enable / disable	D15A [332]	switch: control function: heating (pos.) / cooling (neg.)	D15A [333]	switch: fan enable / disable	D15A [334]	switch: control function: heating (pos.) / cooling (neg.)	D15A [335]	switch: fan enable / disable	D15A [336]	switch: control function: heating (pos.) / cooling (neg.)	D15A [337]	switch: fan enable / disable	D15A [338]	switch: control function: heating (pos.) / cooling (neg.)	D15A [339]	switch: fan enable / disable	D15A [340]	switch: control function: heating (pos.) / cooling (neg.)	D15A [341]	switch: fan enable / disable	D15A [342]	switch: control function: heating (pos.) / cooling (neg.)	D15A [343]	switch: fan enable / disable	D15A [344]	switch: control function: heating (pos.) / cooling (neg.)	D15A [345]	switch: fan enable / disable	D15A [346]	switch: control function: heating (pos.) / cooling (neg.)	D15A [347]	switch: fan enable / disable	D15A [348]	switch: control function: heating (pos.) / cooling (neg.)	D15A [349]	switch: fan enable / disable	D15A [350]	switch: control function: heating (pos.) / cooling (neg.)	D15A [351]	switch: fan enable / disable	D15A [352]	switch: control function: heating (pos.) / cooling (neg.)	D15A [353]	switch: fan enable / disable	D15A [354]	switch: control function: heating (pos.) / cooling (neg.)	D15A [355]	switch: fan enable / disable	D15A [356]	switch: control function: heating (pos.) / cooling (neg.)	D15A [357]	switch: fan enable / disable	D15A [358]	switch: control function: heating (pos.) / cooling (neg.)	D15A [359]	switch: fan enable / disable	D15A [360]	switch: control function: heating (pos.) / cooling (neg.)	D15A [361]	switch: fan enable / disable	D15A [362]	switch: control function: heating (pos.) / cooling (neg.)	D15A [363]	switch: fan enable / disable	D15A [364]	switch: control function: heating (pos.) / cooling (neg.)	D15A [365]	switch: fan enable / disable	D15A [366]	switch: control function: heating (pos.) / cooling (neg.)	D15A [367]	switch: fan enable / disable	D15A [368]	switch: control function: heating (pos.) / cooling (neg.)	D15A [369]	switch: fan enable / disable	D15A [370]	switch: control function: heating (pos.) / cooling (neg.)	D15A [371]	switch: fan enable / disable	D15A [372]	switch: control function: heating (pos.) / cooling (neg.)	D15A [373]	switch: fan enable / disable	D15A [374]	switch: control function: heating (pos.) / cooling (neg.)	D15A [375]	switch: fan enable / disable	D15A [376]	switch: control function: heating (pos.) / cooling (neg.)	D15A [377]	switch: fan enable / disable	D15A [378]	switch: control function: heating (pos.) / cooling (neg.)	D15A [379]	switch: fan enable / disable	D15A [380]	switch: control function: heating (pos.) / cooling (neg.)	D15A [381]	switch: fan enable / disable	D15A [382]	switch: control function: heating (pos.) / cooling (neg.)	D15A [383]	switch: fan enable / disable	D15A [384]	switch: control function: heating (pos.) / cooling (neg.)	D15A [385]	switch: fan enable / disable	D15A [386]	switch: control function: heating (pos.) / cooling (neg.)	D15A [387]	switch: fan enable / disable	D15A [388]	switch: control function: heating (pos.) / cooling (neg.)	D15A [389]	switch: fan enable / disable	D15A [390]	switch: control function: heating (pos.) / cooling (neg.)	D15A [391]	switch: fan enable / disable	D15A [392]	switch: control function: heating (pos.) / cooling (neg.)	D15A [393]	switch: fan enable / disable	D15A [394]	switch: control function: heating (pos.) / cooling (neg.)	D15A [395]	switch: fan enable / disable	D15A [396]	switch: control function: heating (pos.) / cooling (neg.)	D15A [397]	switch: fan enable / disable	D15A [398]	switch: control function: heating (pos.) / cooling (neg.)	D15A [399]	switch: fan enable / disable	D15A [400]	switch: control function: heating (pos.) / cooling (neg.)	D15A [401]	switch: fan enable / disable	D15A [402]	switch: control function: heating (pos.) / cooling (neg.)	D15A [403]	switch: fan enable / disable	D15A [404]	switch: control function: heating (pos.) / cooling (neg.)	D15A [405]	switch: fan enable / disable	D15A [406]	switch: control function: heating (pos.) / cooling (neg.)	D15A [407]	switch: fan enable / disable	D15A [408]	switch: control function: heating (pos.) / cooling (neg.)	D15A [409]	switch: fan enable / disable	D15A [410]	switch: control function: heating (pos.) / cooling (neg.)	D15A [411]	switch: fan enable / disable	D15A [412]	switch: control function: heating (pos.) / cooling (neg.)	D15A [413]	switch: fan enable / disable	D15A [414]	switch: control function: heating (pos.) / cooling (neg.)	D15A [415]	switch: fan enable / disable	D15A [416]	switch: control function: heating (pos.) / cooling (neg.)	D15A [417]	switch: fan enable / disable	D15A [418]	switch: control function: heating (pos.) / cooling (neg.)	D15A [419]	switch: fan enable / disable	D15A [420]	switch: control function: heating (pos.) / cooling (neg.)	D15A [421]	switch: fan enable / disable	D15A [422]	switch: control function: heating (pos.) / cooling (neg.)	D15A [423]	switch: fan enable / disable	D15A [424]	switch: control function: heating (pos.) / cooling (neg.)	D15A [425]	switch: fan enable / disable	D15A [426]	switch: control function: heating (pos.) / cooling (neg.)	D15A [427]	switch: fan enable / disable	D15A [428]	switch: control function: heating (pos.) / cooling (neg.)	D15A [429]	switch: fan enable / disable	D15A [430]	switch: control function: heating (pos.) / cooling (neg.)	D15A [431]	switch: fan enable / disable	D15A [432]	switch: control function: heating (pos.) / cooling (neg.)	D15A [433]	switch: fan enable / disable	D15A [434]	switch: control function: heating (pos.) / cooling (neg.)	D15A [435]	switch: fan enable / disable	D15A [436]	switch: control function: heating (pos.) / cooling (neg.)	D15A [437]	switch: fan enable / disable	D15A [438]	switch: control function: heating (

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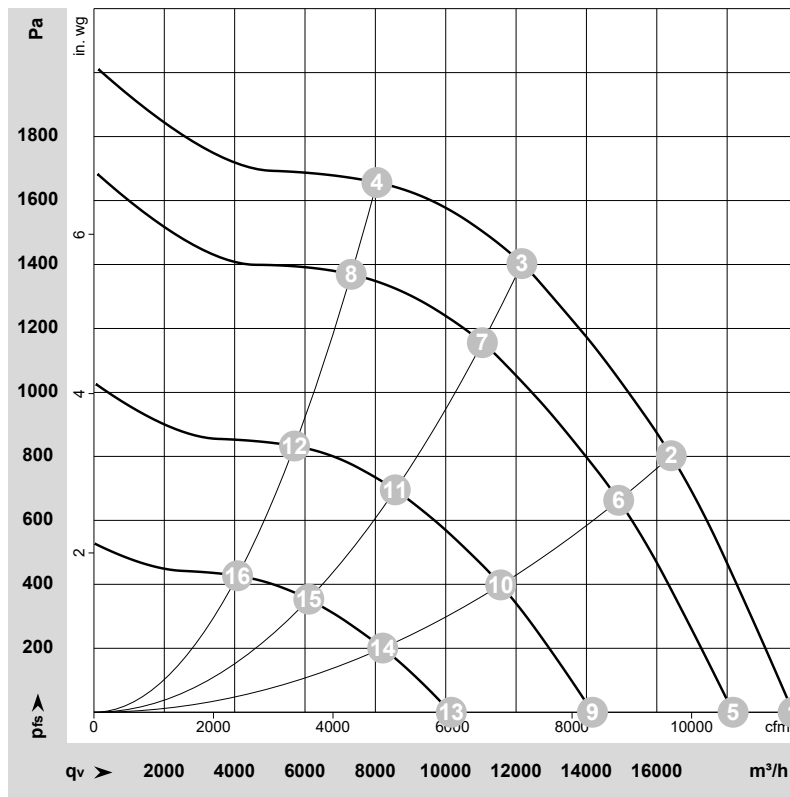
VCH0560CTTRS

EC centrifugal module - RadiPac

backward-curved, single-intake

with housing

Curves: Air performance 50 Hz



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

Measurement: LU-222519-1

Date: 2022-08-12

Nozzle: 8217101924

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	2370	3868	6.09	89	97	100	102	19875	0	11700	0.00
2	3~	400	50	2370	5768	8.90	82	90	94	95	16410	800	9660	3.21
3	3~	400	50	2370	6350	9.70	78	85	91	92	12165	1400	7160	5.62
4	3~	400	50	2370	5717	8.83	81	89	94	95	8045	1650	4735	6.62
5	3~	400	50	2160	2939	4.75	86	94	97	99	18170	0	10695	0.00
6	3~	400	50	2160	4347	6.81	79	87	91	93	14915	670	8780	2.69
7	3~	400	50	2160	4758	7.41	75	83	88	90	11040	1161	6500	4.66
8	3~	400	50	2160	4408	6.89	78	86	91	92	7315	1369	4305	5.50
9	3~	400	50	1680	1451	2.70	79	88	90	92	14170	0	8340	0.00
10	3~	400	50	1680	2091	3.57	73	81	85	86	11565	403	6805	1.62
11	3~	400	50	1680	2296	3.85	68	76	82	83	8565	696	5040	2.79
12	3~	400	50	1675	2191	3.71	71	79	83	84	5700	832	3355	3.34
13	3~	400	50	1200	621	1.50	71	79	81	83	10160	0	5980	0.00
14	3~	400	50	1200	846	1.87	64	73	76	77	8210	202	4830	0.81
15	3~	400	50	1200	919	2.00	60	68	72	74	6110	354	3595	1.42
16	3~	400	50	1200	875	1.91	60	68	73	74	4080	427	2405	1.71

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