

KARTA KATALOGOWA

8300100633

Moduł promieniowy EC RadiPac, łopatki zakrzywione do tyłu, jednostronnie ssący (typ VCH0630CTTRS)

Producent: ebm-papst



Zdjęcie poglądowe

Dane znamionowe	
Napięcie znamionowe	3~ 400 V (380...480 V)
Częstotliwość	50/60 Hz
Prędkość obrotowa	1910 obr/min
Pobór mocy	5850 W
Pobór prądu	9 A
Maks. wydajność	22750 m³/h
Maks. ciśnienie statyczne	1740 Pa
Temperatura otoczenia	-40...+40 °C

Dane ErP (UE 327/2011)	
Sprawność całkowita	79,1 %
Przepływ w pkt. optymalnym	14065 m³/h
Przyrost ciśnienia	1152 Pa
Regulacja obrotów	tak (0-10 V / PWM / MODBUS)

Budowa	
Średnica wirnika	630 mm
Materiał wirnika	tworzywo PP
Liczba łopatek	5
Stopień ochrony	IP55
Klasa izolacji	F
Masa	100 kg

Charakterystyka przepływowa (50 Hz)



Dane na podstawie karty producenta ebm-papst (oryginał na kolejnych stronach).
Wartości znamionowe dla punktu maksymalnego obciążenia; producent zastrzega możliwość zmian.

Dobór, wycena i dostawa – zapytaj LUFTBERG

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backward-curved, single-intake

with housing

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Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Item	8300100633	
Motor	E15034-120	
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	1910
Power consumption	W	5850
Current draw	A	9.0
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}	%	79.1		59.6		09 Power consumption P_{ed}	kW	5.87	
02 Measurement category		A				09 Air flow q_v	m³/h	14065	
03 Efficiency category		Static				09 Pressure increase p_{fs}	Pa	1152	
04 Efficiency grade N		81.5	62			10 Speed (rpm) n	min ⁻¹	1880	
05 Variable speed drive		Yes				11 Specific ratio*		1.01	

Data obtained at optimum efficiency level.

* Specific ratio = $1 + p_b / 100\,000\text{ Pa}$

LU-223340

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	100 kg
Size	630 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
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)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Terminal box
Motor protection	Electronic motor protection

8300100633
VCH0630CTTRS

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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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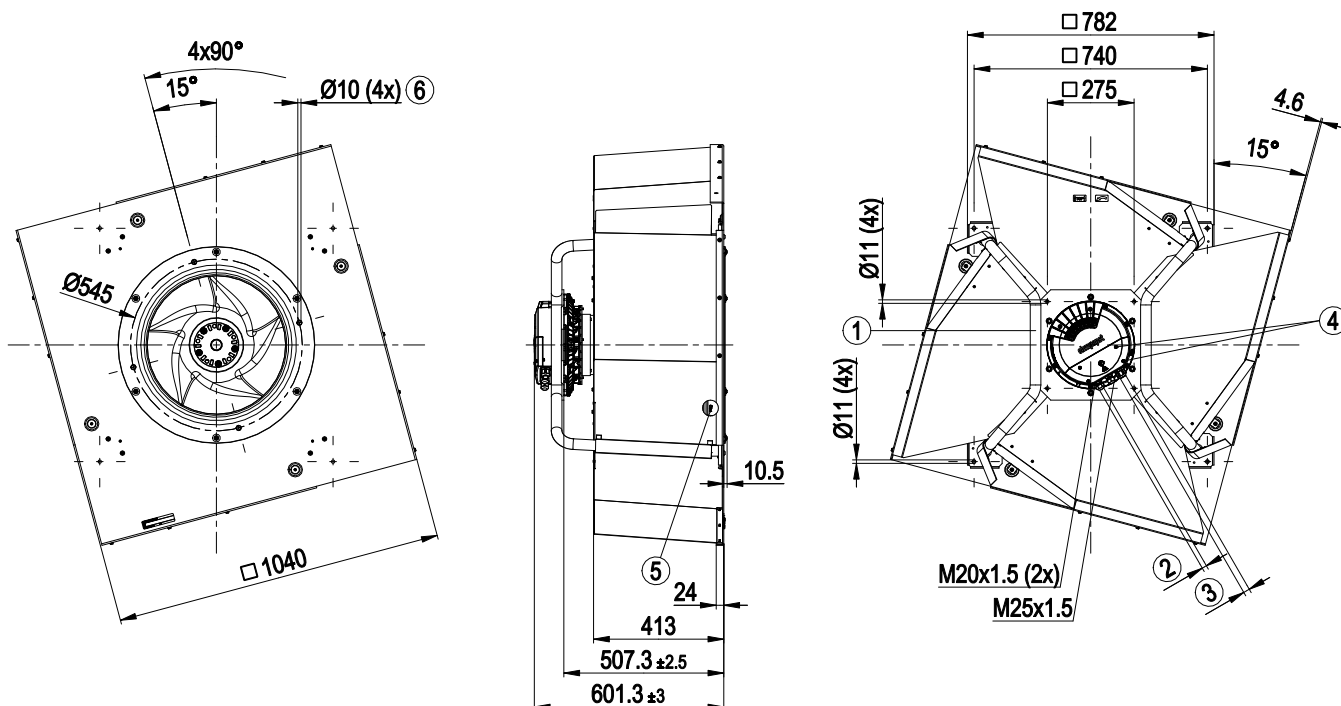
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Product drawing



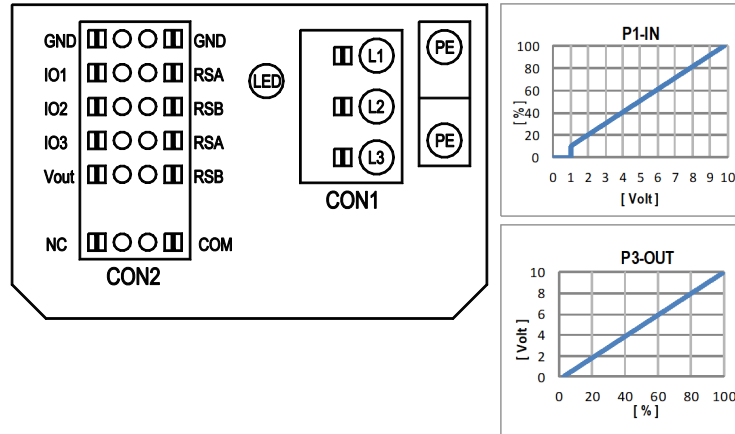
1	Installed position: shaft horizontal (install support struts only vertically as illustrated) or rotor on bottom; rotor on top on request
2	Cable diameter min. 4 mm, max. 10 mm, tightening torque 4 ± 0.6 Nm
3	Cable diameter min. 5 mm, max. 14 mm, tightening torque 6 ± 0.9 Nm
	(The tightening torque 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: 463)
6	Fastening holes for FlowGrid 00630-2-2957 (not included in scope of delivery) are provided and must be subsequently opened as required

8300100633
VCH0630CTTRS

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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

CON2	configurable IO mode	electrical specification	MODBUS Register for IO mode configuration	functions: normal / inverse	source: set value	D101 [...]	D147 [...]	D104 [...]	D12E [...]	D148 [...]	D16C [...]	D16A [...]	(selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D00C [1]	D130 [4]						
					signal: tach out	(selected directly via IO mode)	signal: fan modulation level %	signal: actual speed	signal: system modulation level %	signal: remote control output 0-10V	pulse input for auto-addressing														
					signal: diagnostics out	(selected directly via IO mode)	signal: tach out	switch: fan enable / disable	switch: set value source	switch: direction of rotation: cw / ccw	switch: set value source	switch: fan enable / disable	signal: tach out	signal: fan modulation level %	signal: actual speed	signal: system modulation level %	signal: remote control output 0-10V	pulse input for auto-addressing							
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					source: set value	D101 [...]	source: sensor value	D147 [...]	switch: parameter set: #1 / #2	D104 [...]	switch: control function: heating (pos.) / cooling (neg.)	D12E [...]	switch: direction of rotation: cw / ccw	D148 [...]	switch: set value source	D16C [...]	switch: fan enable / disable	D16A [...]	(selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D00C [1]	D130 [4]
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IO1	configurable IO mode	electrical specification	MODBUS Register for IO mode configuration	functions: normal / inverse	source: set value	D101 [...]	D147 [...]	D104 [...]	D12E [...]	D148 [...]	D16C [...]	D16A [...]	(selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D00C [1]	D130 [4]
					signal: tach out	(selected directly via IO mode)	signal: fan modulation level %	signal: actual speed	signal: system modulation level %	signal: remote control output 0-10V	pulse input for auto-addressing								
					signal: diagnostics out	(selected directly via IO mode)	signal: tach out	switch: fan enable / disable	switch: set value source	switch: direction of rotation: cw / ccw	switch: set value source	switch: fan enable / disable	signal: tach out	signal: fan modulation level %	signal: actual speed	signal: system modulation level %	signal: remote control output 0-10V	pulse input for auto-addressing	
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					signal: tach out	(selected directly via IO mode)	signal: fan modulation level %	signal: actual speed	signal: system modulation level %	signal: remote control output 0-10V	pulse input for auto-addressing								
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					signal: diagnostics out	(selected directly via IO mode)	signal: tach out	switch: fan enable / disable	switch: set value source	switch: direction of rotation: cw / ccw	switch: set value source	switch: fan enable / disable	signal: tach out	signal: fan modulation level %	signal: actual speed	signal: system modulation level %	signal: remote control output 0-10V	pulse input for auto-addressing	
					source: sensor value	D147 [...]	switch: parameter set: #1 / #2	D104 [...]	switch: control function: heating (pos.) / cooling (neg.)	D12E [...]	switch: direction of rotation: cw / ccw	D148 [...]	switch: set value source	D16C [...]	switch: fan enable / disable	D16A [...]	(selected directly via IO mode)	D130 [0]	D130 [1]

IO3	configurable IO mode	electrical specification	MODBUS Register for IO mode configuration	functions: normal / inverse	source: set value	D101 [...]	D147 [...]	D104 [...]	D12E [...]	D148 [...]	D16C [...]	D16A [...]	(selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D00C [1]	D130 [4]
					signal: tach out	(selected directly via IO mode)	signal: fan modulation level %	signal: actual speed	signal: system modulation level %	signal: remote control output 0-10V	pulse input for auto-addressing								
					signal: diagnostics out	(selected directly via IO mode)	signal: tach out	switch: fan enable / disable	switch: set value source	switch: direction of rotation: cw / ccw	switch: set value source	switch: fan enable / disable	signal: tach out	signal: fan modulation level %	signal: actual speed	signal: system modulation level %	signal: remote control output 0-10V	pulse input for auto-addressing	
					source: sensor value	D147 [...]	switch: parameter set: #1 / #2	D104 [...]	switch: control function: heating (pos.) / cooling (neg.)	D12E [...]	switch: direction of rotation: cw / ccw	D148 [...]	switch: set value source	D16C [...]	switch: fan enable / disable	D16A [...]	(selected directly via IO mode)	D130 [0]	D130 [1]

IO3	configurable IO mode	electrical specification	MODBUS Register for IO mode configuration	functions: normal / inverse	source: set value	D101 [...]	D147 [...]	D104 [...]	D12E [...]	D148 [...]	D16C [...]	D16A [...]	(selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D00C [1]	D130 [4]
					signal: tach out	(selected directly via IO mode)	signal: fan modulation level %	signal: actual speed	signal: system modulation level %	signal: remote control output 0-10V	pulse input for auto-addressing								
					signal: diagnostics out	(selected directly via IO mode)	signal: tach out	switch: fan enable / disable	switch: set value source	switch: direction of rotation: cw / ccw	switch: set value source	switch: fan enable / disable	signal: tach out	signal: fan modulation level %	signal: actual speed	signal: system modulation level %	signal: remote control output 0-10V	pulse input for auto-addressing	
					source: sensor value	D147 [...]	switch: parameter set: #1 / #2	D104 [...]	switch: control function: heating (pos.) / cooling (neg.)	D12E [...]	switch: direction of rotation: cw / ccw	D148 [...]	switch: set value source	D16C [...]	switch: fan enable / disable	D16A [...]	(selected directly via IO mode)	D130 [0]	D130 [1]

IO3	configurable IO mode	electrical specification	MODBUS Register for IO mode configuration	functions: normal / inverse	source: set value	D101 [...]	D147 [...]	D104 [...]	D12E [...]	D148 [...]	D16C [...]	D16A [...]	(selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D00C [1]	D130 [4]
					signal: tach out	(selected directly via IO mode)	signal: fan modulation level %	signal: actual speed	signal: system modulation level %	signal: remote control output 0-10V	pulse input for auto-addressing								
					signal: diagnostics out	(selected directly via IO mode)	signal: tach out	switch: fan enable / disable	switch: set value source	switch: direction of rotation: cw / ccw	switch: set value source	switch: fan enable / disable	signal: tach out	signal: fan modulation level %	signal: actual speed	signal: system modulation level %	signal: remote control output 0-10V	pulse input for auto-addressing	
					source: sensor value	D147 [...]	switch: parameter set: #1 / #2	D104 [...]	switch: control function: heating (pos.) / cooling (neg.)	D12E [...]	switch: direction of rotation: cw / ccw	D148 [...]	switch: set value source	D16C [...]	switch: fan enable / disable	D16A [...]	(selected directly via IO mode)	D130 [0]	D130 [1]

IO3	configurable IO mode	electrical specification	MODBUS Register for IO mode configuration	functions: normal / inverse	source: set value	D101 [...]	D147 [...]	D104 [...]	D12E [...]	D148 [...]	D16C [...]	D16A [...]	(selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D00C [1]	D130 [4]
					signal: tach out	(selected directly via IO mode)	signal: fan modulation level %	signal: actual speed	signal: system modulation level %	signal: remote control output 0-10V	pulse input for auto-addressing								
					signal: diagnostics out	(selected directly via IO mode)	signal: tach out	switch: fan enable / disable	switch: set value source	switch: direction of rotation: cw / ccw	switch: set value source	switch: fan enable / disable	signal: tach out	signal: fan modulation level %	signal: actual speed	signal: system modulation level %	signal: remote control output 0-10V	pulse input for auto-addressing	
					source: sensor value	D147 [...]	switch: parameter set: #1 / #2	D104 [...]	switch: control function: heating (pos.) / cooling (neg.)	D12E [...]	switch: direction of rotation: cw / ccw	D148 [...]	switch: set value source	D16C [...]	switch: fan enable / disable	D16A [...]	(selected directly via IO mode)	D130 [0]	D130 [1]

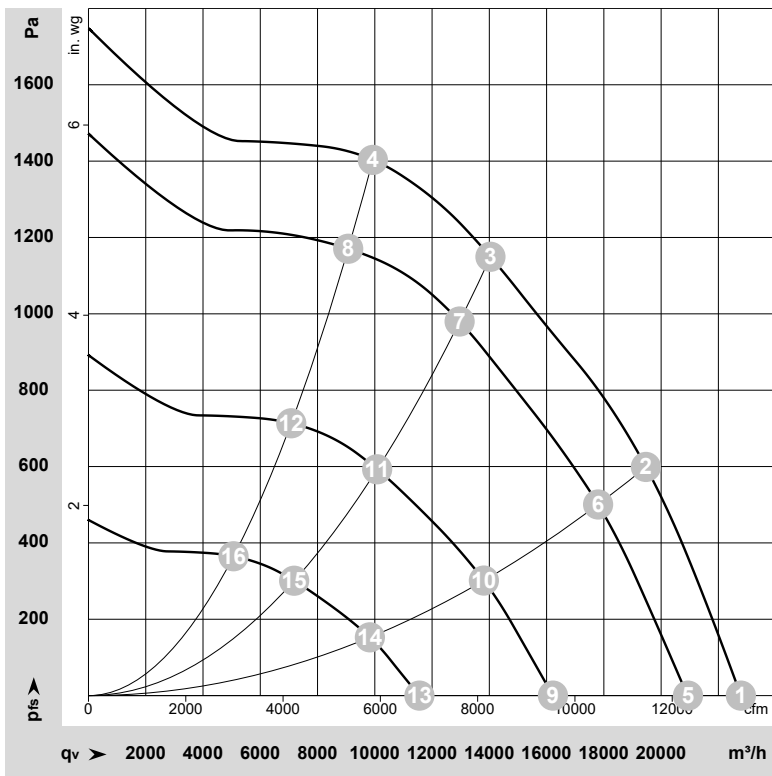
IO3	configurable IO mode	electrical specification	MODBUS Register for IO mode configuration	functions: normal / inverse	source: set value	D101 [...]	D147 [...]	D104 [...]	D12E [...]	D148 [...]	D16C [...]	D16A [...]	(selected directly via IO mode)	D130 [0]	D130 [1]	D130 [2]	D130 [5]	D00C [1]	D130 [4]
					signal: tach out	(selected directly via IO mode)	signal: fan modulation level %	signal: actual speed	signal: system modulation level %	signal: remote control output 0-10V	pulse input for auto-addressing								
					signal: diagnostics out	(selected directly via IO mode)	signal: tach out	switch: fan enable / disable	switch: set value source	switch: direction of rotation: cw / ccw	switch: set value source	switch: fan enable / disable	signal: tach out	signal: fan modulation level %	signal: actual speed	signal: system modulation level %	signal: remote control output 0-10V	pulse input for auto-addressing	
					source: sensor value	D147 [...]	switch: parameter set: #1 / #2	D104 [...]	switch: control function: heating (pos.) / cooling (neg.)	D12E [...]	switch: direction of rotation: cw / ccw	D148 [...]	switch: set value source						

8300100633
VCH0630CTTRS

EC centrifugal module - RadiPac

backward-curved, single-intake
with housing

Curves: Air performance 50 Hz



$\rho = 1.177 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-223340-1
Date: 2023-02-09
Nozzle: 8217101925

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	1910	3843	6.09	94	101	102	105	22785	0	13410	0.00
2	3~	400	50	1910	5424	8.41	85	92	94	96	19470	600	11460	2.41
3	3~	400	50	1910	5850	9.00	75	83	88	89	14040	1150	8265	4.62
4	3~	400	50	1910	5745	8.88	76	84	89	90	9930	1400	5845	5.62
5	3~	400	50	1745	2932	4.77	90	97	98	101	20940	0	12325	0.00
6	3~	400	50	1740	4120	6.49	81	88	91	93	17800	503	10475	2.02
7	3~	400	50	1740	4671	7.30	73	81	86	87	12960	986	7630	3.96
8	3~	400	50	1740	4428	6.95	74	82	86	88	9070	1174	5340	4.71
9	3~	400	50	1355	1475	2.75	78	87	89	91	16220	0	9550	0.00
10	3~	400	50	1355	2021	3.48	73	81	83	85	13810	302	8130	1.21
11	3~	400	50	1355	2247	3.80	66	74	79	80	10080	595	5935	2.39
12	3~	400	50	1355	2121	3.63	67	75	79	81	7080	717	4170	2.88
13	3~	400	50	970	612	1.50	69	78	80	82	11560	0	6805	0.00
14	3~	400	50	970	801	1.82	64	72	74	76	9830	153	5785	0.61
15	3~	400	50	965	895	1.97	57	65	68	70	7185	302	4230	1.21
16	3~	400	50	965	856	1.91	58	65	69	70	5065	367	2980	1.47

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