

EC centrifugal module - RadiPac

backward-curved, single-intake
with cube design

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General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	K3G400-PA27-W5	
Motor	M3G150-FF	
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	2800
Power consumption	W	3650
Current draw	A	5.5
Min. ambient temperature	°C	-40
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}	%	69.1	57.4	09 Power consumption P_{ed}	kW	3.63
02 Measurement category		A		09 Air flow q_v	m ³ /h	6980
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	1242
04 Efficiency grade N		73.7	62	10 Speed (rpm) n	min ⁻¹	2795
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-204601

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).

Technical description

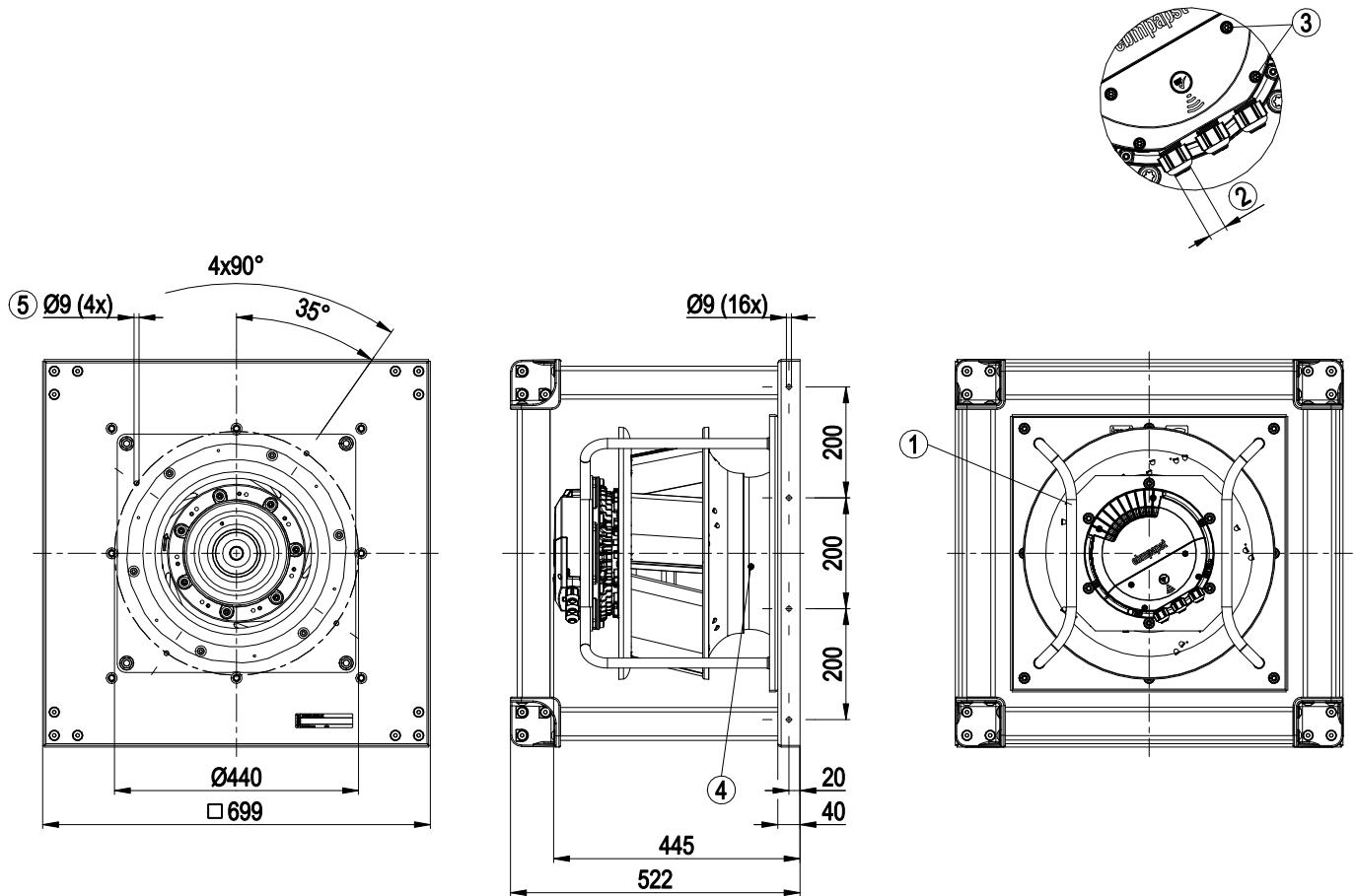
Weight	55.2 kg
Size	400 mm
Motor size	150
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum
Impeller material	Sheet aluminum
Support plate material	Sheet steel, galvanized
Support bracket material	Steel, painted black
Spacer material	Aluminum
Inlet nozzle material	Sheet steel, galvanized
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)
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	According to EN 61000-6-4 (industrial environment)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Terminal box

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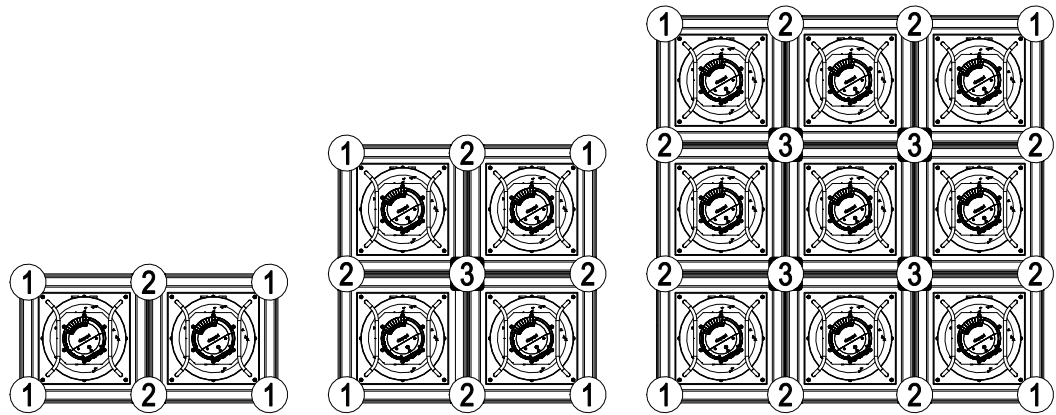
Protection class assignment	I; If a protective earth is connected. The built-in component has several local protection class assignments. The final protection class is determined by the intended installation.
Conformity with standards	EN 61800-5-1; CE
Approval	EAC; UL 1004-7 + 60730-1; CSA C22.2 No. 77 + CAN/CSA-E60730-1

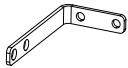
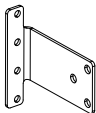
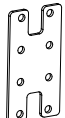
Product drawing



- | | |
|---|---|
| 1 | Installation position: Shaft horizontal (only install support struts vertically as illustrated) |
| 2 | 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) |
| 3 | Tightening torque 1.5 ± 0.2 Nm |
| 4 | Inlet ring with pressure tap (k-factor: 188) |
| 5 | Attachment holes for FlowGrid 35505-2-2957 (not included in scope of delivery) |

Accessory part



① 	4x	4x	4x
② 	2x	4x	8x
③ 	-	1x	4x

1 Angle connector 93570-2-4060 for fastening to the floor, wall, or ceiling

2 Side connector 93572-2-4060 for fastening to the floor, wall, ceiling, or additional FanGrid fan

3 Cross connector 93574-2-4060

The angle, side and cross connectors are fastened with the screws already present on the fan in the corner connectors. The screws have to be fitted by hand and secured with a tightening torque of 30 ± 4.5 Nm. Screws for fastening to the floor, wall, or ceiling are not included in scope of delivery.

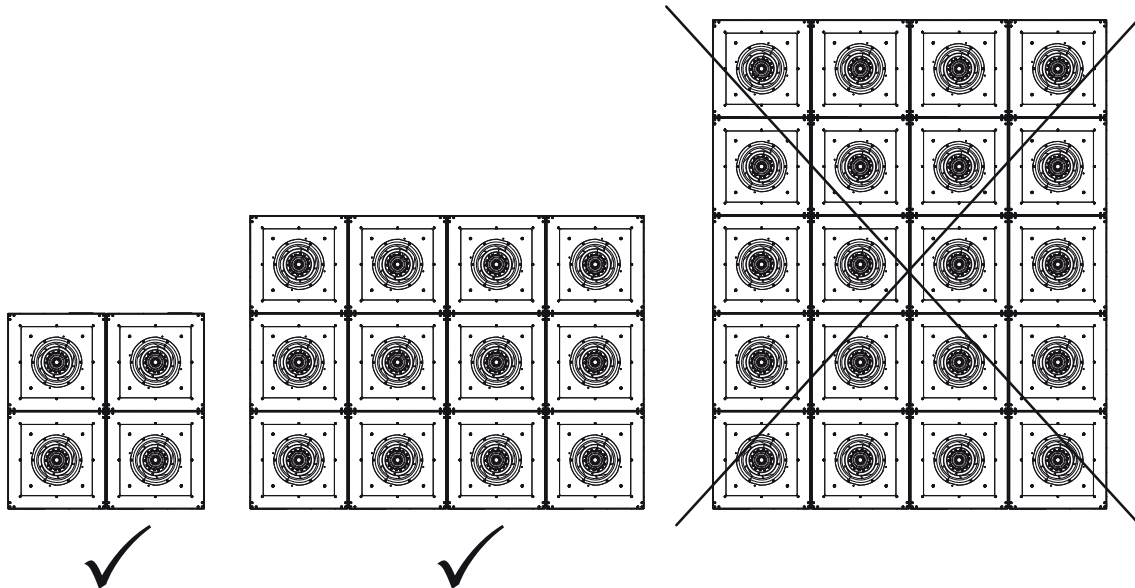
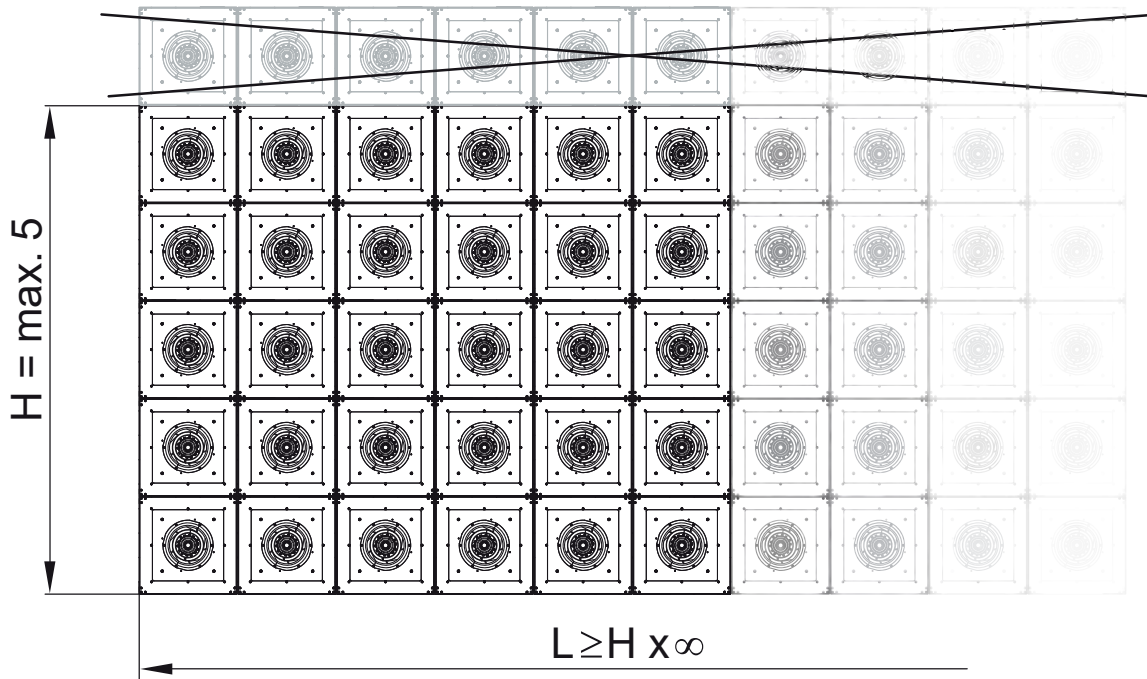
There are four holes on each edge of the flange plate for screws. These holes must also be used for fastening to the floor, wall, ceiling or adjacent fans. Use M8 or 8 mm diameter screws and, if necessary, screw anchors of sufficient size and strength that the fan assembly cannot come loose even under heavy load.

Maximum height: 5 FanGrid fans vertically. The assembly must be at least as wide as it is high. Example:
3 FanGrid fans vertically = at least 3 FanGrid fans horizontally.

In a structure of one FanGrid fan in height and several FanGrid fans wide, the FanGrid fans must be screwed to the floor, the ceiling and the adjacent FanGrid fans.

For a height of two or more FanGrid fans, the FanGrid fans must be screwed to the floor, the ceiling, the wall and the adjacent FanGrid fans.

Fitting instructions



Assembled FanGrids may not be transported.

There is a risk that the assembly could fall over or be damaged.

If it is not possible to mount the fan combination to the floor, wall and ceiling, the fan combination must be mounted in an auxiliary construction that is suitably stable.

The construction in which the fans are mounted must have sufficient strength to bear any loads that may occur over the entire service life.

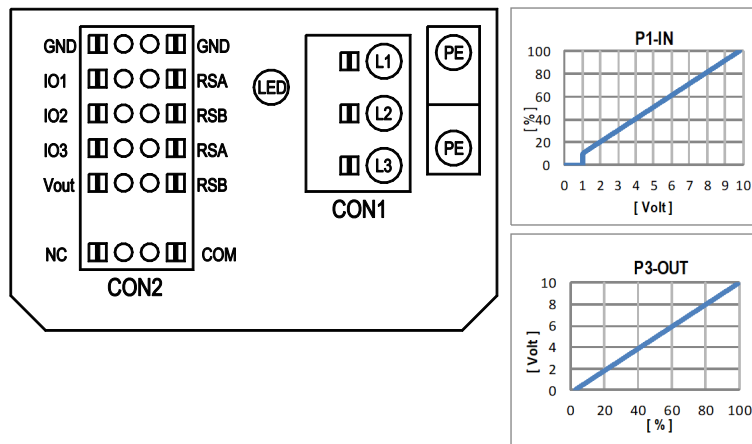
In order to avoid heavy loads due to the composite bending, from a height of four fans and a width of four fans, a consistent, vertical strut must be installed approximately in the center.

From a width of six fans, a corresponding number of additional vertical struts must be installed. The struts can be attached to both the intake and the delivery side. The trim between the fans and the wall or ceiling (as bulkhead) must not be used as a supporting element.

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Connection diagram

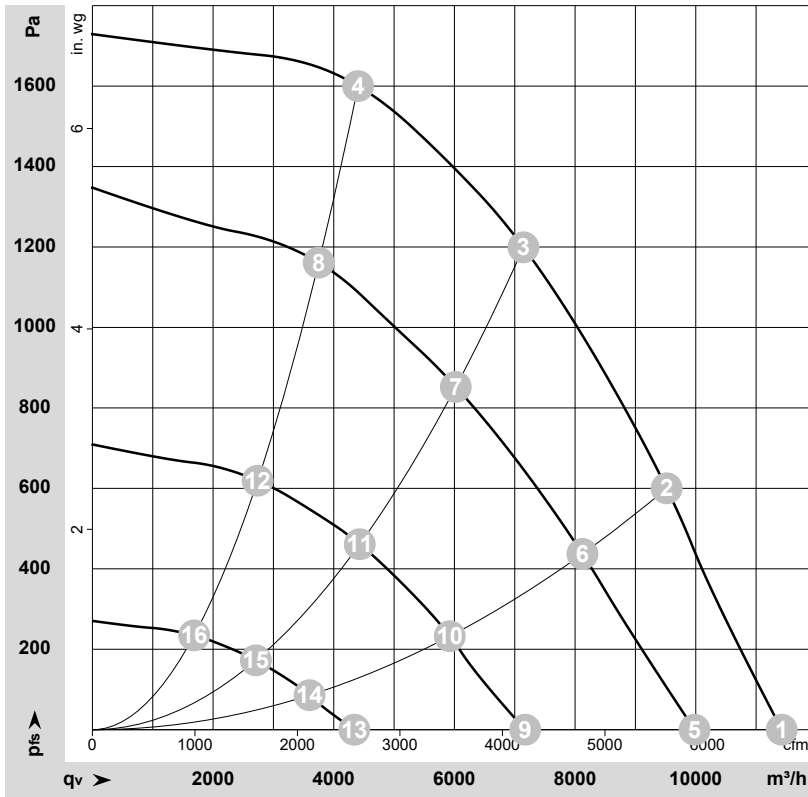


No.	Conn.	Designation	Function/assignment
	CON1	L1, L2, L3	Power supply, phase, see nameplate for voltage range
	PE	PE	Protective earth
	CON2	RSA	RS485 interface for MODBUS, RSA; SELV
	CON2	RSB	RS485 interface for MODBUS, RSB; SELV
	CON2	GND	Reference ground for control interface, SELV
	CON2	IO1	Function 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: Fan modulation level Characteristic curve parameterizable (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 IO functions: normal / inverse		MODBUS Register for IO mode configuration	electrical specification	configurable IO mode		OUTPUT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
				Din1 (active high): digital input	D158 [0]	active: applied voltage 3.5-50VDC, SELV not active: pin open or applied voltage < 1.5VDC	switch: set value source	D16A [...]	(selected directly via IO mode)	D130 [0]	signal: tach out	(selected directly via IO mode)	D130 [10]	signal: fan modulation level %	D130 [11]	signal: actual speed	D130 [2]	signal: system modulation level %	D130 [5]	signal: remote control output 0-10V	D00C [1]	pulse input for auto-addressing	D130 [4]	pulse output for auto-addressing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
IO1	Din1 (active high): digital input	D158 [2]	RI = 100k, characteristic curve parameterizable, f _{PWM} = 1k..10kHz, SELV U _{max} = 50VDC, I _{max} = 20mA, SELV U _{max} = 50VDC, I _{max} = 20mA, SELV	switch: control function: heating (pos.) / cooling (neg.)	switch: direction of rotation: cw / ccw	switch: fan enable / disable	switch: tach out	signal: diagnostics out	signal: fan modulation level %	signal: actual speed	signal: system modulation level %	signal: remote control output 0-10V	D00C [1]	pulse input for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [5]	signal: remote control output 0-10V	D130 [5]	signal: system modulation level %	D130 [2]	signal: actual speed	D130 [11]	signal: fan modulation level %	D130 [10]	signal: diagnostics out	signal: tach out	signal: fan modulation level %	D130 [11]	signal: actual speed	D130 [2]	signal: system modulation level %	D130 [5]	signal: remote control output 0-10V	D00C [1]	pulse input 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out	signal: fan modulation level %	D130 [11]	signal: actual speed	D130 [2]	signal: system modulation level %	D130 [5]	signal: remote control output 0-10V	D00C [1]	pulse input for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [5]	signal: remote control output 0-10V	D130 [5]	signal: system modulation level %	D130 [2]	signal: actual speed	D130 [11]	signal: fan modulation level %	D130 [10]	signal: diagnostics out	signal: tach out	signal: fan modulation level %	D130 [11]	signal: actual speed	D130 [2]	signal: system modulation level %	D130 [5]	signal: remote control output 0-10V	D00C [1]	pulse input for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [5]	signal: remote control output 0-10V	D130 [5]	signal: system modulation level %	D130 [2]	signal: actual speed	D130 [11]	signal: fan modulation level %	D130 [10]	signal: diagnostics out	signal: tach out	signal: fan modulation level %	D130 [11]	signal: actual speed	D130 [2]	signal: system modulation level %	D130 [5]	signal: remote control output 0-10V	D00C [1]	pulse input for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [5]	signal: remote control output 0-10V	D130 [5]	signal: system modulation level %	D130 [2]	signal: actual speed	D130 [11]	signal: fan modulation level %	D130 [10]	signal: diagnostics out	signal: tach out	signal: fan modulation level %	D130 [11]	signal: actual speed	D130 [2]	signal: system modulation level %	D130 [5]	signal: remote control output 0-10V	D00C [1]	pulse input for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [5]	signal: remote control output 0-10V	D130 [5]	signal: system modulation level %	D130 [2]	signal: actual speed	D130 [11]	signal: fan modulation level %	D130 [10]	signal: diagnostics out	signal: tach out	signal: fan modulation level %	D130 [11]	signal: actual speed	D130 [2]	signal: system modulation level %	D130 [5]	signal: remote control output 0-10V	D00C [1]	pulse input for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [5]	signal: remote control output 0-10V	D130 [5]	signal: system modulation level %	D130 [2]	signal: actual speed	D130 [11]	signal: fan modulation level %	D130 [10]	signal: diagnostics out	signal: tach out	signal: fan modulation level %	D130 [11]	signal: actual speed	D130 [2]	signal: system modulation level %	D130 [5]	signal: remote control output 0-10V	D00C [1]	pulse input for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [5]	signal: remote control output 0-10V	D130 [5]	signal: system modulation level %	D130 [2]	signal: actual speed	D130 [11]	signal: fan modulation level %	D130 [10]	signal: diagnostics out	signal: tach out	signal: fan modulation level %	D130 [11]	signal: actual speed	D130 [2]	signal: system modulation level %	D130 [5]	signal: remote control output 0-10V	D00C [1]	pulse input for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [5]	signal: remote control output 0-10V	D130 [5]	signal: system modulation level %	D130 [2]	signal: actual speed	D130 [11]	signal: fan modulation level %	D130 [10]	signal: diagnostics out	signal: tach out	signal: fan modulation level %	D130 [11]	signal: actual speed	D130 [2]	signal: system modulation level %	D130 [5]	signal: remote control output 0-10V	D00C [1]	pulse input for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [4]	pulse output for auto-addressing	D130 [5]	signal: remote control output 0-10V	D130 [5]	signal: system modulation level %	D130 [2]	signal: actual speed	D130 [11]	signal: fan modulation level %	D130 [10]	signal: diagnostics out	signal: tach out	signal: fan modulation level %	D130 [11]	signal: actual speed	D130 [2]	signal: system modulation level %	D130 [5]	signal: remote control output 0-10V	D00C [1]	pulse input for auto-addressing	D130 [4]	pulse output for auto

Curves: Air performance 50 Hz



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

Measurement: LU-204601-1
Date: 2020-02-21
Nozzle: 40070-2-4013

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 _{ed}	I	LpA _{in}	LwA _{in}	LwA _{out}	q _V	p _{fs}	q _V	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	dB(A)	m ³ /h	Pa	cfm	in. wg
1	3~	400	50	2800	2291	3.54	91	98	100	11425	0	6725	0.00
2	3~	400	50	2800	3219	4.92	83	91	96	9520	600	5600	2.41
3	3~	400	50	2800	3650	5.50	78	86	93	7145	1200	4205	4.82
4	3~	400	50	2800	3429	5.23	82	89	95	4405	1600	2590	6.42
5	3~	400	50	2455	1579	2.51	87	94	96	9980	0	5875	0.00
6	3~	400	50	2375	2009	3.13	79	87	91	8120	441	4780	1.77
7	3~	400	50	2360	2200	3.42	73	81	88	6025	855	3545	3.43
8	3~	400	50	2380	2133	3.32	77	84	89	3750	1163	2210	4.67
9	3~	400	50	1770	665	1.24	78	85	88	7175	0	4220	0.00
10	3~	400	50	1745	846	1.48	70	78	83	5925	236	3485	0.95
11	3~	400	50	1735	931	1.59	65	73	80	4430	463	2610	1.86
12	3~	400	50	1740	891	1.54	68	75	81	2740	620	1610	2.49
13	3~	400	50	1090	199	0.56	65	73	75	4340	0	2555	0.00
14	3~	400	50	1075	237	0.62	58	66	72	3600	87	2120	0.35
15	3~	400	50	1070	256	0.66	54	62	68	2710	173	1595	0.69
16	3~	400	50	1070	248	0.64	55	62	69	1685	235	990	0.94

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_{ed} = 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