8300100637

VMA0630HSPKZ

EC axial panel fan - HyBlade

sickle-shaped blades (S series)

with guard grille for short nozzle

8300100637 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Nominal data

Item	**8300100637**
Motor	**E08420-50**

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min^{-1}	700
Power consumption	W	180
Current draw	A	0.8
Max. back pressure	Pa	58
Max. back pressure	in. wg	0.23
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50

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}	%	44.5	28.9
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		55.6	40
05 Variable speed drive		Yes	

09 Power consumption P_{ed}	kW	0.17
09 Air flow q_v	m^3/h	5095
09 Pressure increase p_{fs}	Pa	50
10 Speed (rpm) n	min^{-1}	710
11 Specific ratio*		1.00

Data obtained at optimum efficiency level.

* Specific ratio = 1 + p_{fs} / 100 000 Pa

LU-222004

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	11.1 kg
Size	630 mm
Motor size	84
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum, painted black
Blade material	Press-fitted sheet steel blank, sprayed with PP plastic
Guard grille material	Steel, coated with black plastic (RAL 9005)
Number of blades	5
Airflow direction	V
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP55
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H2
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 made of stainless steel; (sealed)
Technical features	- Output 10 VDC, max. 10 mA - Operation and alarm display - Alarm relay - Integrated PID controller - Power limiter - Motor current limitation - PFC, active - RS-485 MODBUS-RTU - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Thermal overload protection for electronics/motor - Line undervoltage / phase failure detection
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC circuit feedback	According to EN 61000-3-2/3
EMC interference emission	According to EN 61000-6-3 (household environment)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Electrical hookup	Connector with cable
Motor protection	Thermal switch auto reset, internally connected
With cable	Variable

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Protection class assignment	I; If a protective earth is connected by the customer This component for installation may have several local protection classes. This information relates to this component's basic design. The final protection class is based on the component's intended installation and connection.
Conformity with standards	EN 61800-5-1; CE
Approval	CSA C22.2 No. 77 + CAN/CSA-E60730-1; EAC; UL 1004-7 + 60730-1

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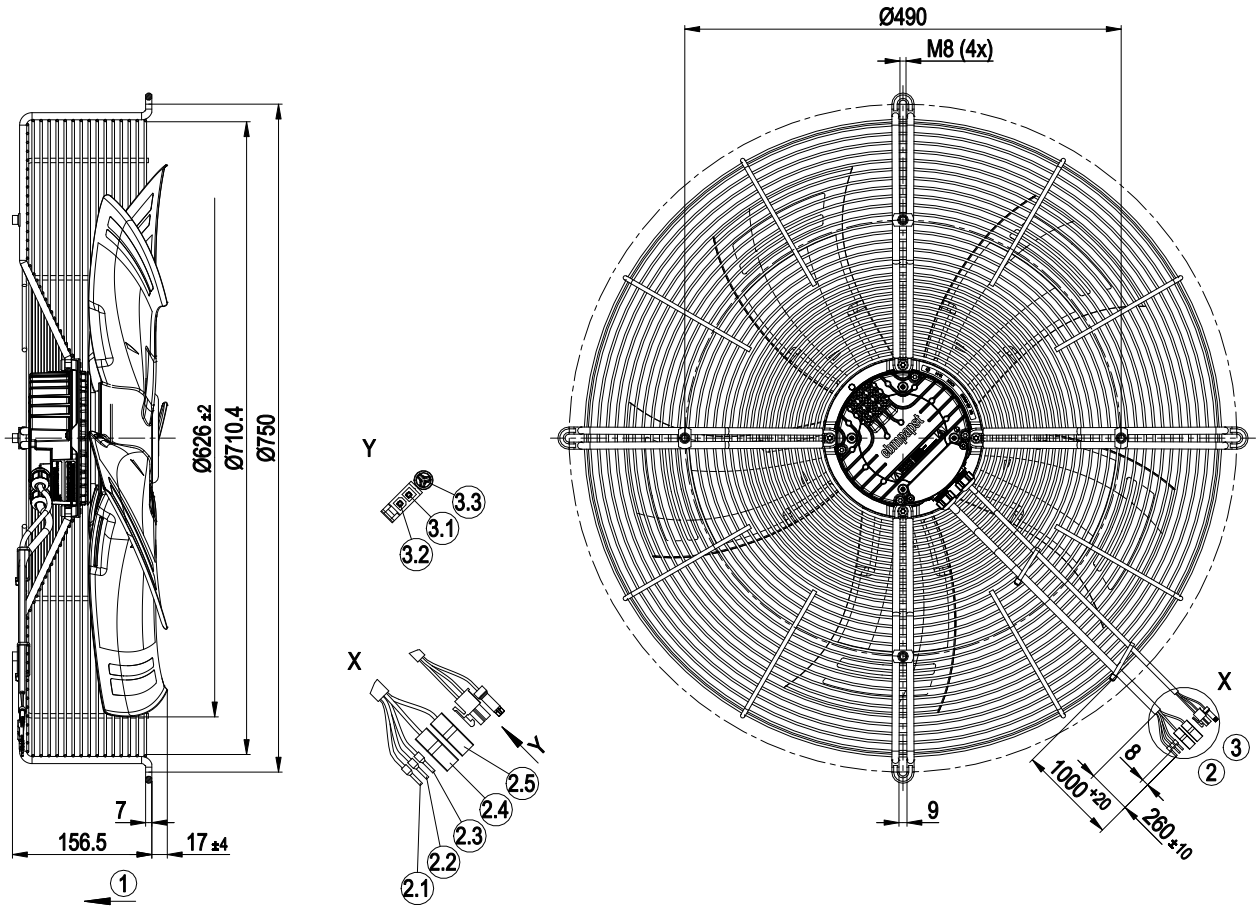
Product drawing



1	Airflow direction "V"
2	Cable PVC AWG18
	2x flat push-on receptacle 6.3x0.8 with insulating sleeve, 3x wire-end ferrule
2.1	NC (white 1)
2.2	COM (white 2)
2.3	PE (green/yellow)
2.4	N (blue)
2.5	L (black)
3	Cable PVC AWG22
	2-pole connector housing Molex 39-01-2020, 2x socket Molex 39-00-0059
3.1	0-10 V
3.2	GND
3.3	+10 V (red) with wire-end ferrule and connector

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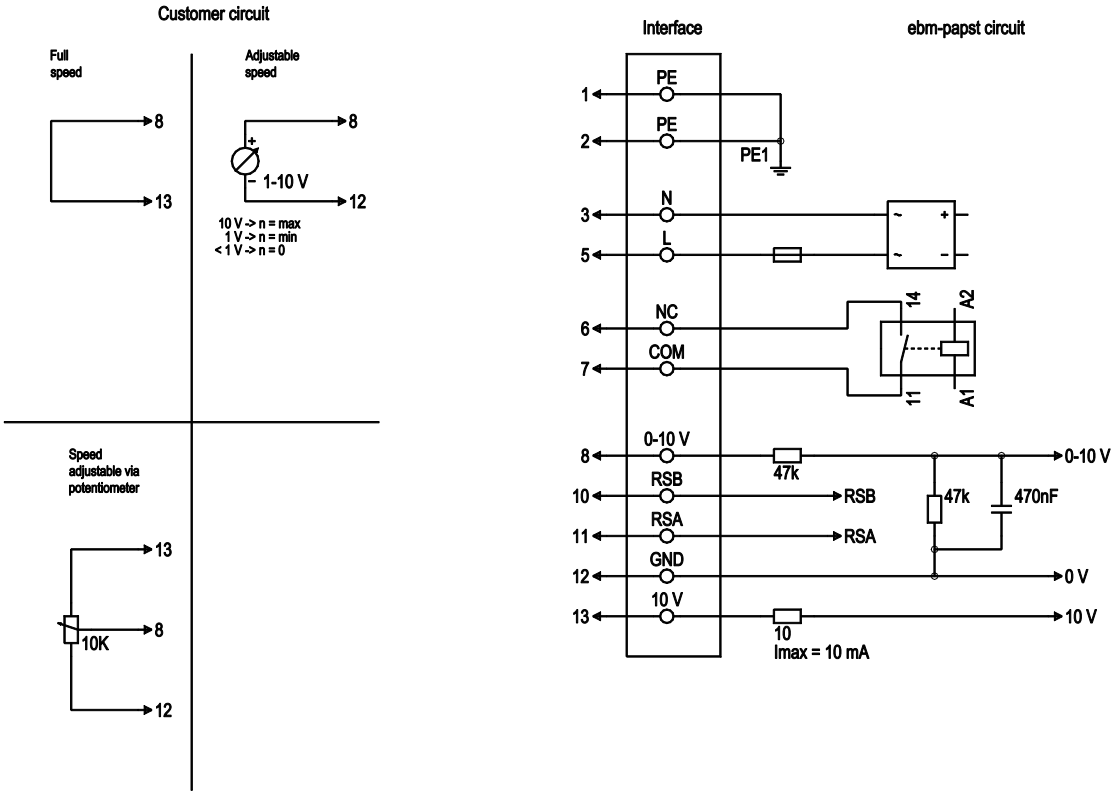
Connection diagram



No.	Conn.	Designation	Color	Function/assignment
1	1, 2	PE	green/yellow	Protective earth
1	3	N	blue	Power supply, neutral conductor, 50/60 Hz
1	5	L	black	Power supply, phase, 50/60 Hz
1	6	NC	white 1	Status relay, floating status contact; break for failure, contact rating 250 VAC/2 A (AC1) min. 10 mA, basic insulation on supply side and reinforced insulation on control interface side
1	7	COM	white 2	Status relay, floating status contact; common connection, contact rating 250 VAC/2 A (AC1) min. 10 mA, basic insulation on supply side and reinforced insulation on control interface side
2	8	0-10V	yellow	Analog input (set value); 0-10 V; Ri = 100 kΩ; adjustable curve
2	10	RSB		not brought out via wire
2	11	RSA		not brought out via wire
2	12	GND	blue	Reference ground for control interface, SELV
2	13	+10V	red	Fixed voltage output 10 VDC; +10 V +/-3%; max. 10 mA; short-circuit-proof; power supply for ext. devices (e.g. potentiometer)

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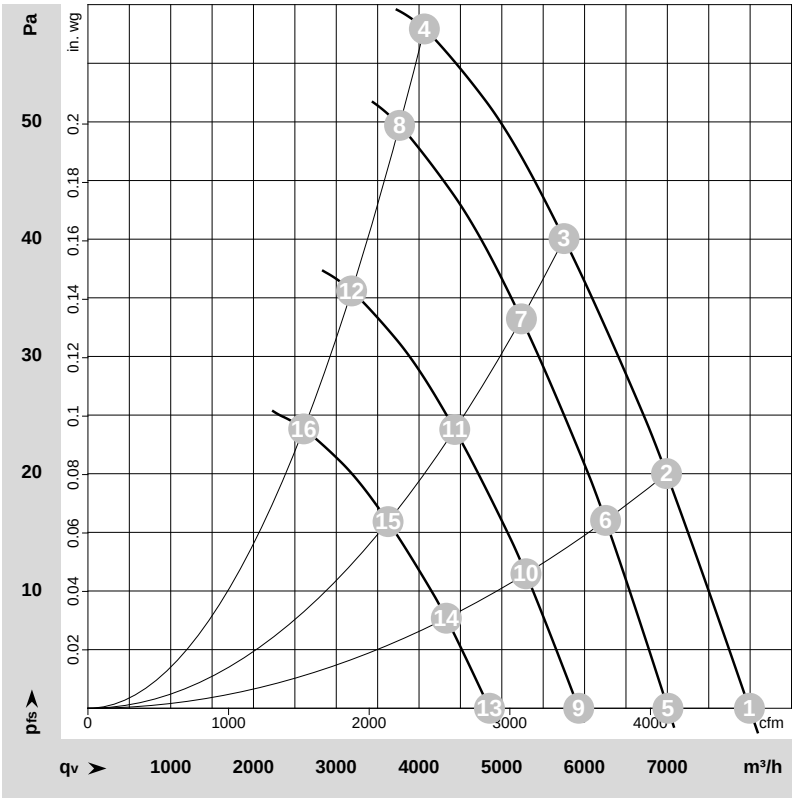
Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-222004-1
Date: 2026-06-27
Housing: 10633-2-4037

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	m^3/h	Pa	cfm	in. wg
1	1~	230	50	740	135	0.60	54	60	60	63	7990	0	4705	0.00
2	1~	230	50	725	153	0.68	54	60	59	62	6990	20	4115	0.08
3	1~	230	50	715	168	0.74	55	60	60	63	5750	40	3385	0.16
4	1~	230	50	700	180	0.80	58	65	66	69	4065	58	2390	0.23
5	1~	230	50	650	91	0.41	51	57	56	60	7005	0	4125	0.00
6	1~	230	50	650	109	0.49	51	57	56	60	6255	16	3680	0.06
7	1~	230	50	650	127	0.56	52	58	57	61	5235	33	3080	0.13
8	1~	230	50	650	142	0.63	56	63	64	67	3765	50	2215	0.20
9	1~	230	50	550	55	0.25	47	52	52	55	5930	0	3490	0.00
10	1~	230	50	550	66	0.30	47	53	52	55	5290	12	3115	0.05
11	1~	230	50	550	77	0.34	48	54	53	56	4430	24	2610	0.10
12	1~	230	50	550	86	0.38	52	59	60	62	3185	36	1875	0.14
13	1~	230	50	450	30	0.14	42	47	47	50	4850	0	2855	0.00
14	1~	230	50	450	36	0.16	42	48	47	50	4330	8	2550	0.03
15	1~	230	50	450	42	0.19	43	49	48	51	3625	16	2135	0.06
16	1~	230	50	450	47	0.21	47	54	55	57	2605	24	1535	0.10

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

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