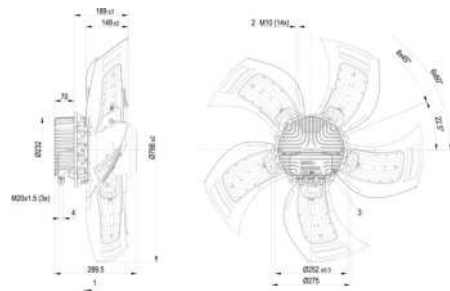


KARTA KATALOGOWA

A3G800-AV05-71

Wentylator osiowy EC na płycie montażowej HyBlade, łopatki
sierpowe (seria S)

Producent: ebm-papst



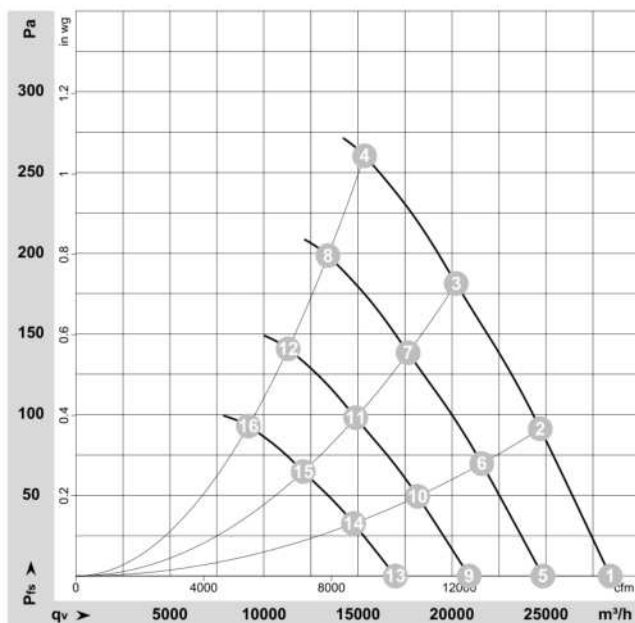
Dane znamionowe	
Napięcie znamionowe	3~ 400 V (380...480 V)
Częstotliwość	50/60 Hz
Prędkość obrotowa	1090 obr/min
Pobór mocy	2980 W
Pobór prądu	4,5 A
Maks. przeciwcisnienie	260 Pa
Temperatura otoczenia	-40...+65 °C
Regulacja obrotów	0-10 V / PWM, MODBUS RTU

Dane ErP (UE 327/2011)	
Sprawność całkowita	44,6 %
Przepływ w pkt. optymalnym	18445 m³/h
Przyrost ciśnienia	217 Pa
Regulacja prędkości (ErP)	tak

Budowa	
Wielkość	800 mm
Silnik	M3G150-NA
Materiał wirnika	wkładka z blachy aluminiowej natryskiwana tworzywem PP
Obudowa elektroniki	odlew aluminiowy malowany na czarno
Liczba łopatek	5
Kierunek obrotów	w prawo, patrząc na wirnik
Stopień ochrony	IP55
Klasa izolacji	F
Zabezpieczenie silnika	ochrona przed odwrotną polaryzacją i zablokowaniem wirnika
Łożyskowanie	kulkowe
Podłączenie	skrzynka zaciskowa
Masa	30,14 kg

Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz


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

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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.

Dane na okładce wg karty katalogowej producenta ebm-papst (oryginał na kolejnych stronach).
Wartości przy maksymalnym obciążeniu; producent zastrzega możliwość zmian.

Dobór, wycena i dostawa – zapytaj LUFTBERG

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biuro@luftberg.pl · www.luftberg.pl

A3G800-AV05-71

EC axial panel fan - HyBlade

sickle-shaped blades (S series)

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Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Nominal data

Type	A3G800-AV05-71	
Motor	M3G150-NA	
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	1090
Power consumption	W	2980
Current draw	A	4.5
Max. back pressure	Pa	260
Max. back pressure	in. wg	1.04
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	65

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

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), a fan design with special low-temperature bearings must be used.

Data according to Commission Regulation (EU) 327/2011 (prEN 17166)

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	44.6	36.3	09 Power consumption P_{ed}	kW	2.64
02 Measurement category		A		09 Air flow q_v	m³/h	18445
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	217
04 Efficiency grade N		48.3	40	10 Speed (rpm) n	min ⁻¹	1090
05 Variable speed drive		Yes		11 Specific ratio*		1.00

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 = $1 + p_{fs} / 100\,000\text{ Pa}$

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A3G800-AV05-71

EC axial panel fan - HyBlade

sickle-shaped blades (S series)

Technical description

Weight	30.14 kg
Size	800 mm
Motor size	150
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum, painted black
Blade material	Sheet aluminum insert, sprayed with PP plastic
Number of blades	5
Blade pitch	0°
Airflow direction	V
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP55
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H2
Ambient temperature note	Occasional start-up between -40°C and -25°C is permissible. For continuous operation at temperatures below -25°C (e.g. refrigeration applications) we recommend our 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
Technical features	- Output 10 VDC, max. 10 mA - Operation and alarm display - External 24 V input (parameter setting) - External release input - Alarm relay - Integrated PID controller - Motor current limitation - PFC, passive - RS-485 MODBUS-RTU - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from supply - Thermal overload protection for electronics/motor - Line undervoltage / phase failure detection
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
Motor protection	Reverse polarity and locked-rotor protection

A3G800-AV05-71

EC axial panel fan - HyBlade
sickle-shaped blades (S series)

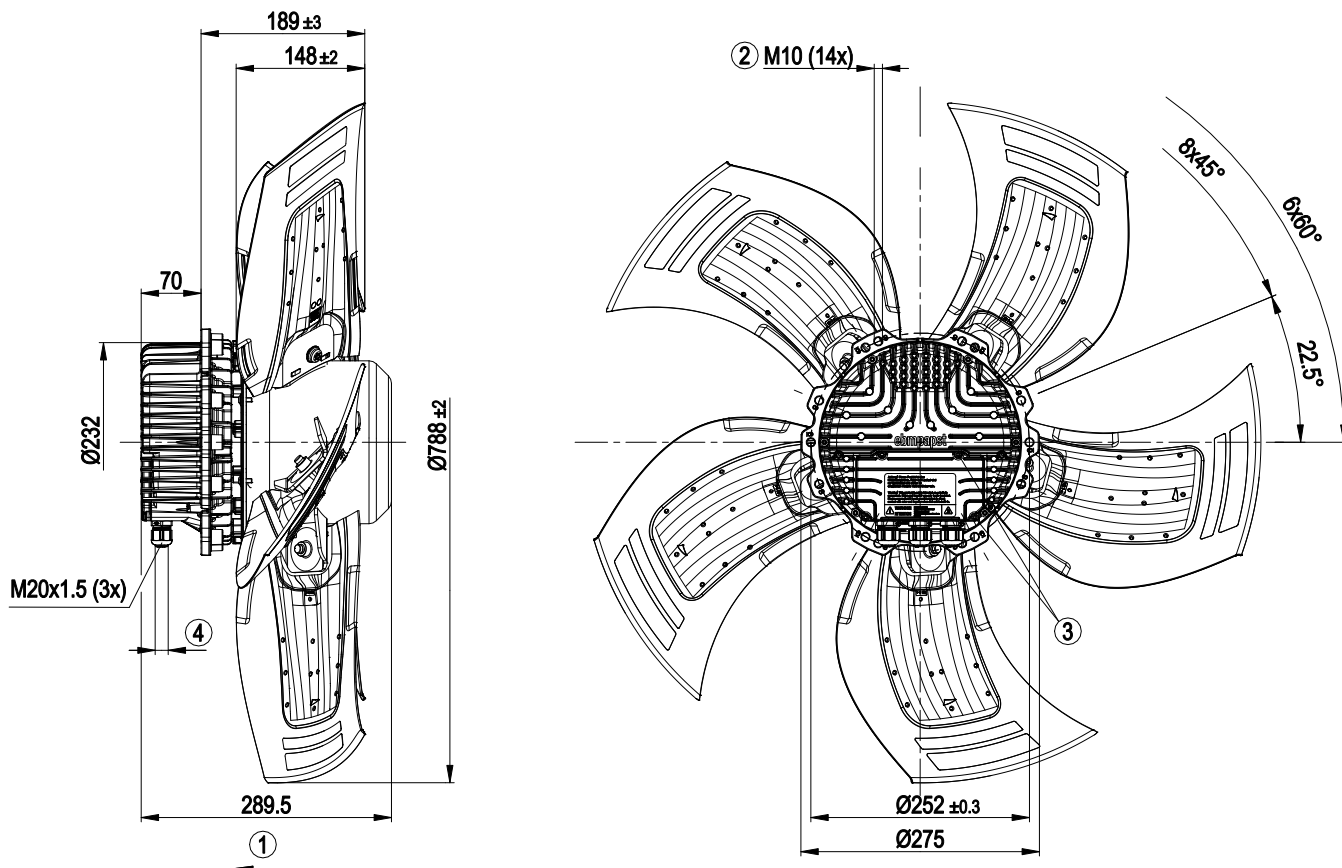
Protection class assignment	I; If a protective earth is connected. The built-in component has several local protection class assignments. The final protection class is determined by the intended installation.
Conformity with standards	EN 61800-5-1; CE; UKCA
Approval	EAC

A3G800-AV05-71

EC axial panel fan - HyBlade

sickle-shaped blades (S series)

Product drawing



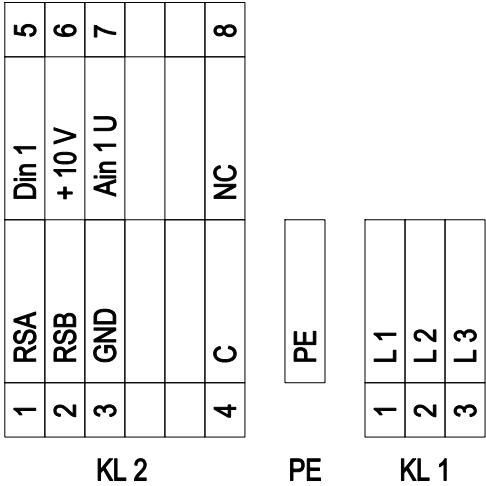
1	Direction of air flow "V"
2	Max. clearance for screw 25 mm
3	Tightening torque 3.5 ± 0.5 Nm
4	Cable diameter min. 4 mm, max. 10 mm, tightening torque 4 ± 0.6 Nm

A3G800-AV05-71

EC axial panel fan - HyBlade

sickle-shaped blades (S series)

Connection diagram



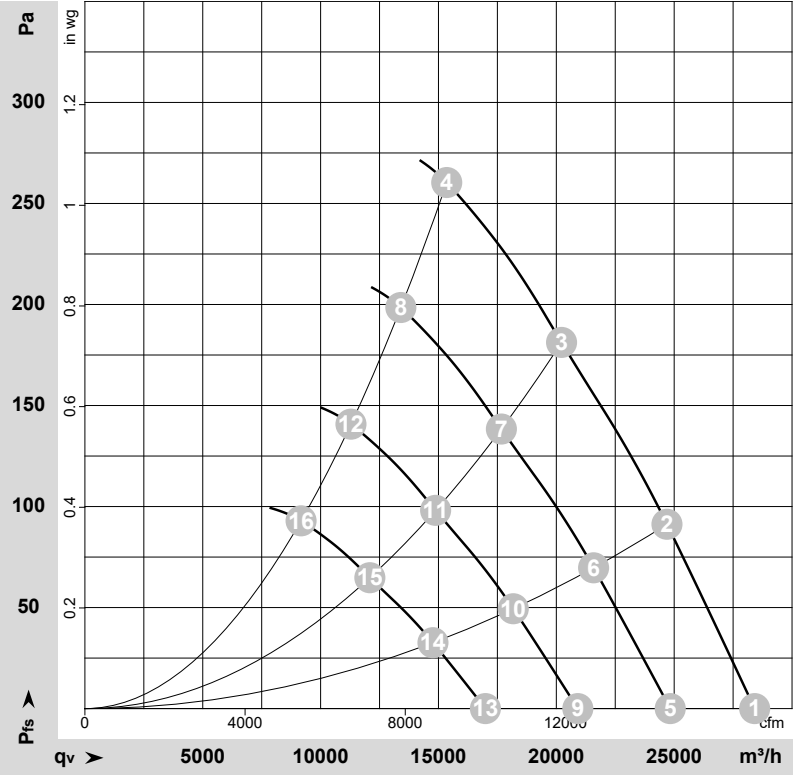
No.	Conn.	Designation	Function/assignment
KL 1	1	L1	Supply connection, power supply 3-phase 380-480 VAC, 50/60 Hz
KL 1	2	L2	Supply connection, power supply 3-phase 380-480 VAC, 50/60 Hz
KL 1	3	L3	Supply connection, power supply 3-phase 380-480 VAC, 50/60 Hz
PE		PE	Ground connection, PE connection
KL 2	1	RSA	Bus connection RS485, RSA, MODBUS-RTU; SELV
KL 2	2	RSB	Bus connection RS485, RSB, MODBUS-RTU; SELV
KL 2	3	GND	Reference ground for control interface; SELV
KL2	4	C	Status relay, floating status contact, break for failure; contact rating 250 VAC / max. 2 A (AC1) / min. 10 mA
KL 2	5	Din1	Digital input 1 enable electronics, enable: pin open or applied voltage 5-50 VDC disable: bridge to GND or applied voltage < 1 VDC reset function: triggers software reset after a level change to < 1 V; SELV
KL 2	6	+ 10 V	Fixed voltage output 10 VDC, +10 V ±3%, max. 10 mA, short-circuit-proof, power supply for external devices (e.g. pot); SELV Or: +24 VDC input for parameter setting via MODBUS without line voltage
KL 2	7	Ain1 U	Analog input 1 (set value) 0-10 V, Ri = 100 kΩ, adjustable curve; SELV
KL2	8	NC	Status relay, floating status contact, break for failure

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EC axial panel fan - HyBlade

sickle-shaped blades (S series)

Curves: Air performance 50 Hz



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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

	U	f	n	P _{ed}	I	LwA _{in}	LwA _{out}	Q _v	P _{fs}	Q _v	P _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	cfm	in. wg
1	400	50	1090	1911	3.00	77	77	28415	0	16725	0.00
2	400	50	1090	2255	3.51	76	76	24695	90	14535	0.36
3	400	50	1090	2551	3.95	78	77	20220	180	11900	0.72
4	400	50	1090	2980	4.50	84	84	15350	260	9035	1.04
5	400	50	950	1276	2.00	73	74	24835	0	14615	0.00
6	400	50	950	1506	2.34	73	73	21580	70	12705	0.28
7	400	50	950	1702	2.64	75	74	17670	138	10400	0.55
8	400	50	950	1923	2.97	81	80	13405	199	7890	0.80
9	400	50	800	762	1.20	69	70	20910	0	12310	0.00
10	400	50	800	899	1.40	68	68	18175	49	10695	0.20
11	400	50	800	1017	1.57	70	69	14880	98	8760	0.39
12	400	50	800	1148	1.77	77	76	11290	141	6645	0.57
13	400	50	650	409	0.64	64	65	16990	0	10000	0.00
14	400	50	650	482	0.75	63	63	14765	33	8690	0.13
15	400	50	650	545	0.84	65	64	12090	65	7115	0.26
16	400	50	650	616	0.95	71	71	9170	93	5400	0.37

U = Voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · LwA_{in} = Sound power level intake side · LwA_{out} = Sound power level outlet side
Q_v = Air flow · p_{fs} = Pressure increase