A3G500-AN37-61

Van Hool NV

EC axial fan - HyBlade

sickled blades (S series)

Automotive

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Nominal data

Type	**A3G500-AN37-61**
Motor	**M3G112-GA**

Nominal voltage	VDC	720
Nominal voltage range	VDC	500 .. 750
Type of data definition		ml
Speed (rpm)	min^{-1}	1615
Power input	W	1000
Current draw	A	1.4
Max. back pressure	Pa	205
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

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Technical features

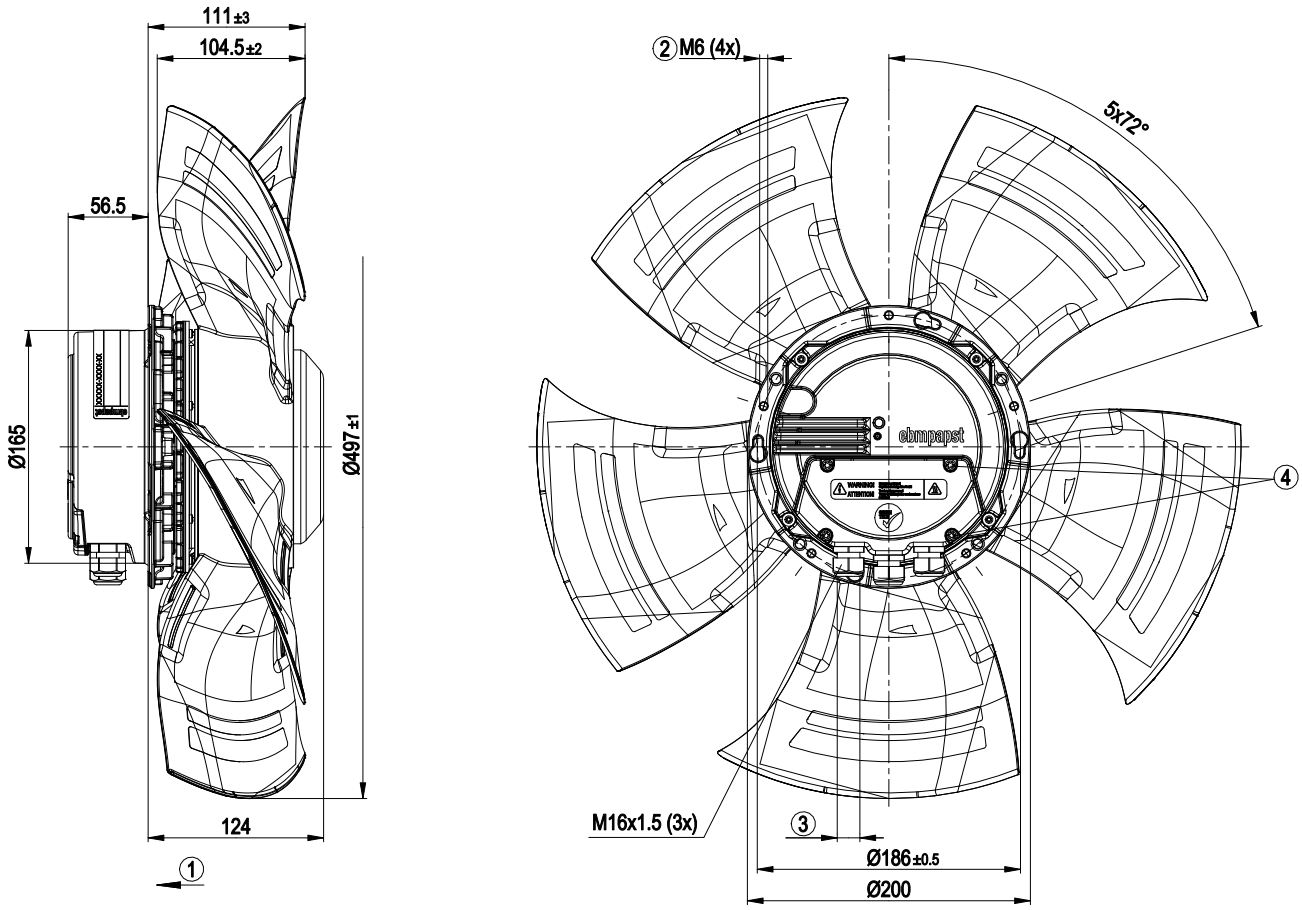
Mass	9.3 kg
Size	500 mm
Motor size	112
Surface of rotor	Coated in black
Material of electronics housing	Die-cast aluminium, coated in black
Material of impeller	Plastic PP, galvanised round sheet-metal plate
Number of blades	5
Direction of air flow	V
Direction of rotation	Counter-clockwise, seen on rotor
Protection rating	IP54
Insulation class	"B"
Humidity (F) / environmental protection class (H)	H2
Note ambient temperature	Occasional start-up between -40°C and -25°C is permissible. For continuous operation at ambient temperatures below -25°C (e.g. refrigeration applications) we recommend our fan version with special low-temperature bearings.
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Alarm relay - Output limit - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Over-temperature protected electronics / motor - Reverse polarity protection
Electrical connection	Terminal box
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 61800-5-1

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Product drawing



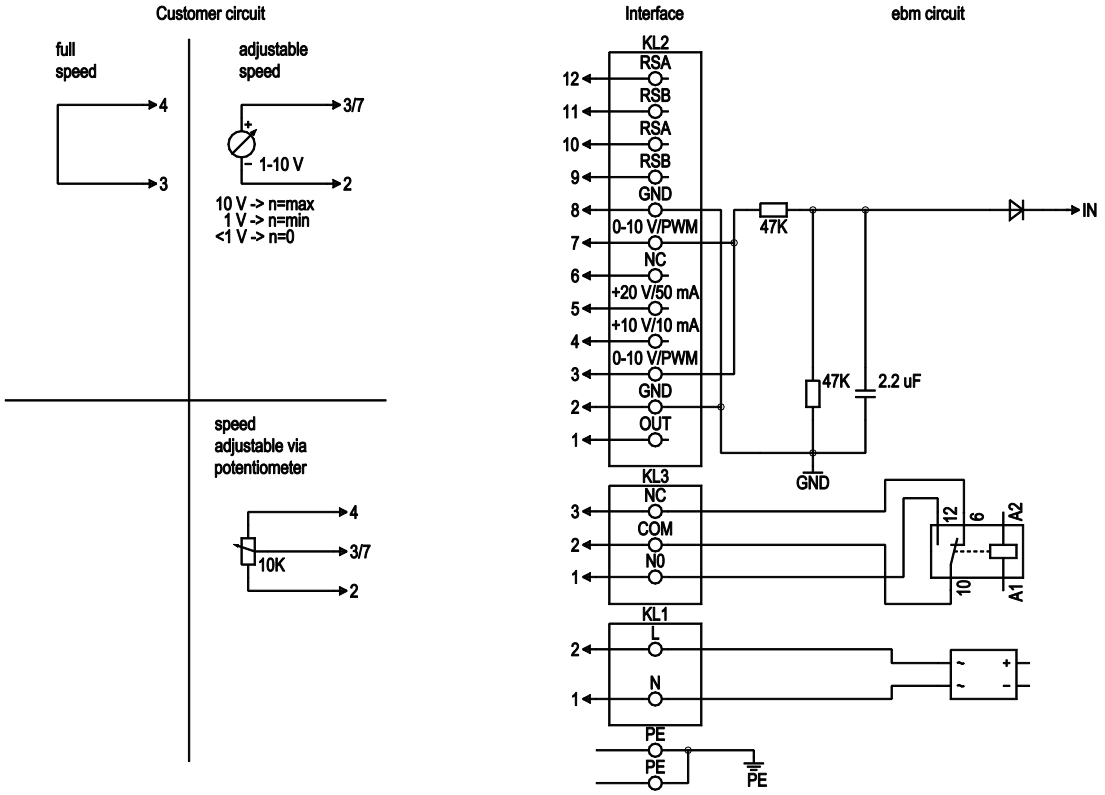
1	Direction of air flow "V"
2	Thread reach max. 10 mm
3	Cable diameter min. 4 mm, max. 10 mm, tightening torque 2.5±0.4 Nm
4	Tightening torque 3.5±0.5 Nm

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Connection screen



No.	Conn.	Designation	Function / assignment
PE	-	PE	Protective earth connection
KL1	1, 2	N, L	For power supply and voltage range refer to type plate, L1 (+) L3 (-)
KL3	1	NO	Relay contact for alarm, break for error message
KL3	2	COM	Relay contact for alarm, contact
KL3	3	NC	Alarm contact, error message causes contact to be made
KL2	1	OUT	not used
KL2	2, 8	GND	Signal ground for control interface, SELV
KL2	3, 7	0-10V	Control/current sensor value input 0-10 VDC, impedance 100 kOhm, use only as alternative to 4-20 mA input, SELV
KL2	4	+10V	not used
KL2	5	+20V	not used
KL2	6	NC	not used
KL2	9, 11	RSB	not used
KL2	10, 12	RSA	not used

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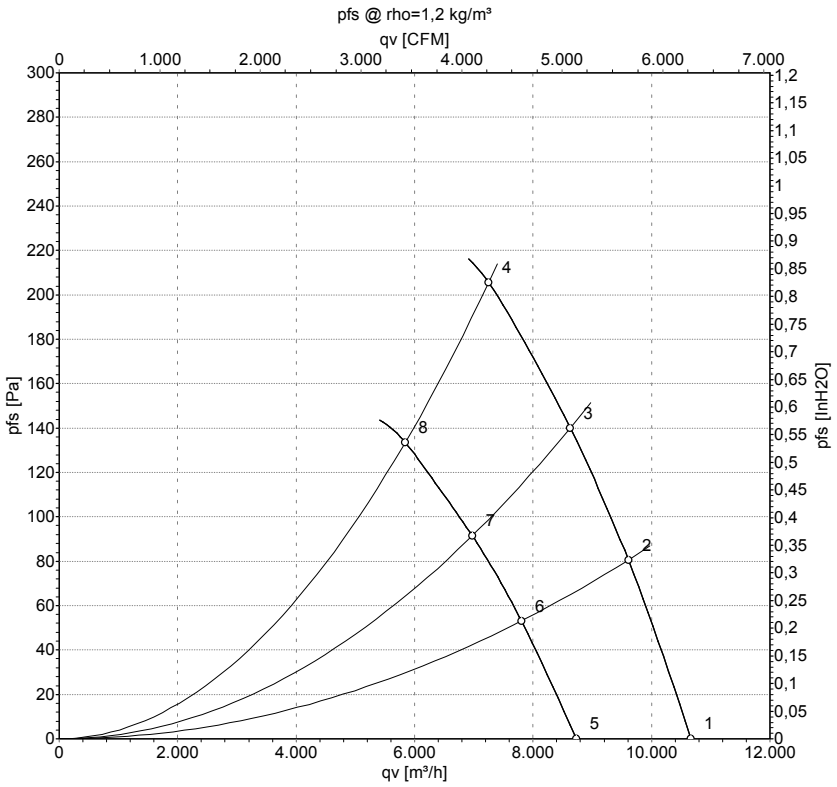
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Charts: Air flow



Measurement: LU-144548-1
Measurement: LU-144568-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	U	n	P_{ed}	I	q_V	p_{fs}	q_V	p_{fs}
	V	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	720-750	1610	745	1.04*	10665	0	6275	0.00
2	720-750	1610	856	1.19*	9610	80	5655	0.32
3	720-750	1610	926	1.29*	8625	140	5080	0.56
4	720-750	1615	1000	1.40*	7250	205	4265	0.82
5	500	1330	427	0.86	8735	0	5140	0.00
6	500	1315	466	0.93	7800	54	4590	0.22
7	500	1310	495	0.99	6975	92	4105	0.37
8	500	1300	523	1.05	5845	134	3440	0.54

U = Supply voltage · n = Speed (rpm) · P_{ed} = Power input · I = Current draw · * = Current measured at rated voltage · q_V = Air flow · p_{fs} = Pressure increase

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