

EC axial fan

sickle-shaped blades (S series)

with round full nozzle

W3G300-CB56-11 ebmpapst Datasheet

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Nominal data

Type	W3G300-CB56-11	
Motor	M3G074-CF	
Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 277
Frequency	Hz	50/60
Method of obtaining data		fa
Speed (rpm)	min ⁻¹	1710
Power consumption	W	76
Current draw	A	0.55
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

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

Subject to change



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Technical description

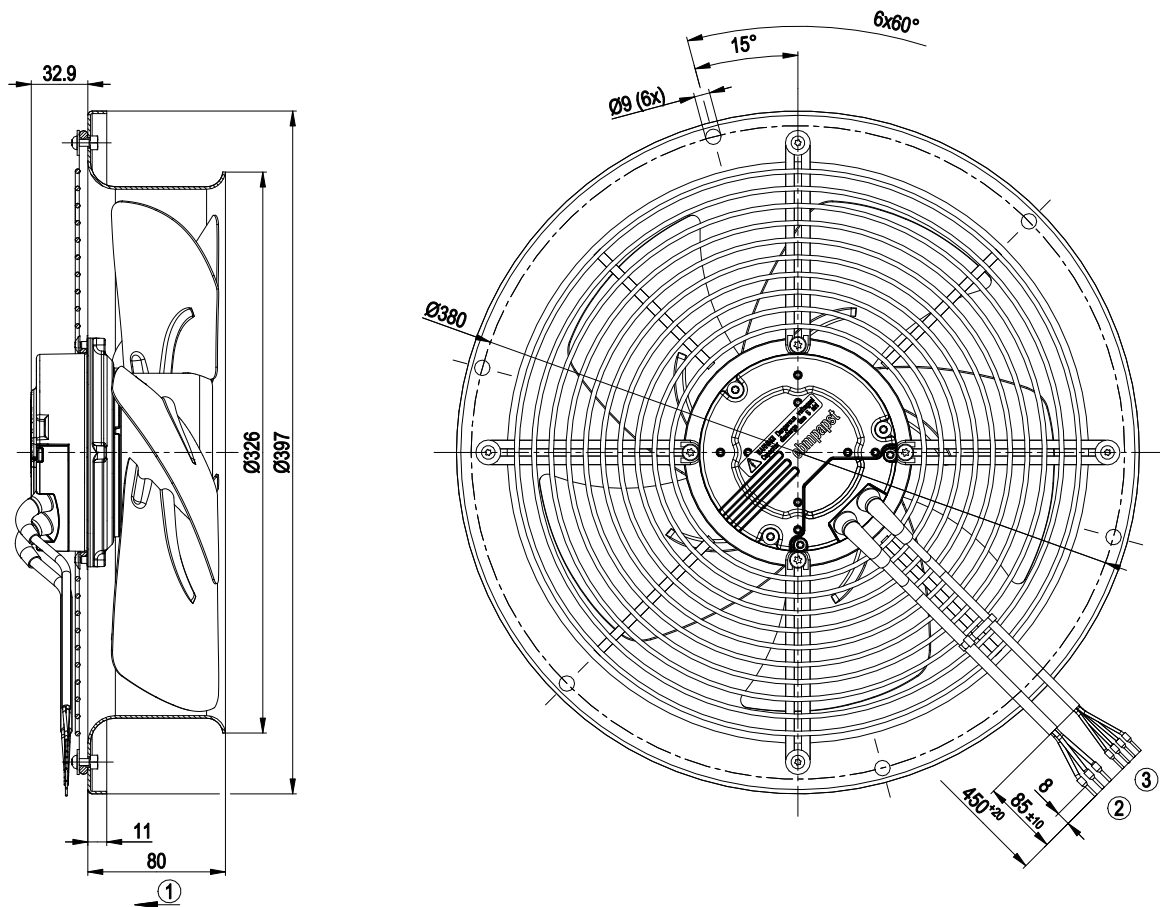
Weight	4.3 kg
Fan size	300 mm
Rotor surface	Painted black
Electronics housing material	Die-cast aluminum, painted black
Blade material	Sheet steel, painted black
Fan housing material	Sheet steel, galvanized and coated with black plastic (RAL 9005)
Guard grille material	Steel, coated with black plastic (RAL 9005)
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F3-1
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
Technical features	- Tach output - Soft start - Control input 0-10 VDC / PWM - Control interface with SELV potential safely disconnected from the mains - Thermal overload protection for motor
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Approval	CSA; UL



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Product drawing



1	Direction of air flow "V"
2	Cable PVC AWG18, 3x crimped ferrules
3	Cable PVC AWG22, 4x crimped ferrules

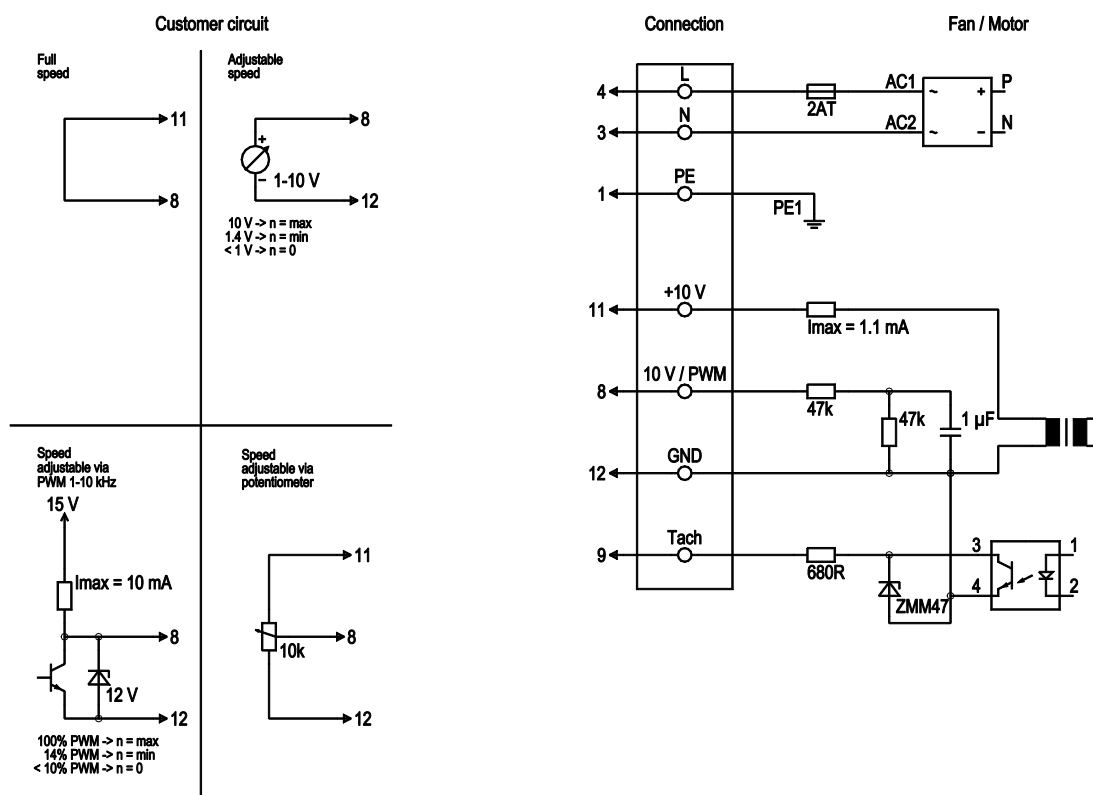


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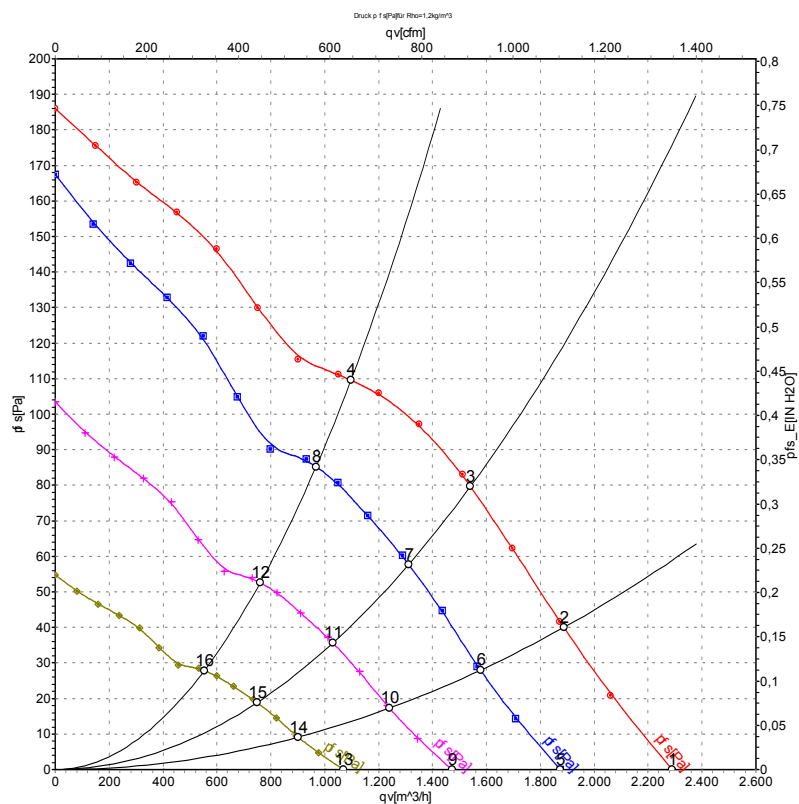
Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	4	L	black	Power supply 230 VAC, 50-60 Hz, see nameplate for voltage range
	3	N	blue	Neutral conductor
	1	PE	green/yellow	Protective earth
	8	0-10 V PWM	yellow	Control input 0-10 V or PWM, electrically isolated
	9	Tach	white	Tach output: open collector, 1 pulse per revolution, electrically isolated
	11	10V / max 1.1 mA	red	Voltage output 10 V/max. 1.1 mA, electrically isolated
	12	GND	blue	GND connection for control interface



Curves: Air performance 50 Hz



Measurement: LU-72521-1

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	qv	p _{fs}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	CFM	inH2O
1	230	50	1710	76	0.55	2290	0	1350	0.00
2	230	50	1675	84	0.61	1885	40	1110	0.16
3	230	50	1645	89	0.65	1540	80	905	0.32
4	230	50	1580	103	0.76	1095	110	645	0.44
5	230	50	1400	42	0.30	1875	0	1100	0.00
6	230	50	1400	49	0.36	1580	28	930	0.11
7	230	50	1400	55	0.40	1310	58	770	0.23
8	230	50	1400	70	0.51	970	85	570	0.34
9	230	50	1100	20	0.15	1470	0	865	0.00
10	230	50	1100	24	0.17	1240	17	730	0.07
11	230	50	1100	27	0.19	1030	36	605	0.14
12	230	50	1100	34	0.25	760	53	445	0.21
13	230	50	800	7.8	0.06	1070	0	630	0.00
14	230	50	800	9.1	0.07	900	9	530	0.04
15	230	50	800	10	0.08	750	19	440	0.08
16	230	50	800	13	0.10	555	28	325	0.11

U = Power supply · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

