

EC axial fan - ESM

sickle-shaped blades (S series)
ESM fan housing



W3G200-EB09-10 ebmpapst Datasheet
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Nominal data

Type	W3G200-EB09-10	
Motor	M3G055-BD	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min ⁻¹	700/500
Power consumption	W	4
Current draw	A	0.04
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

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



Technical description

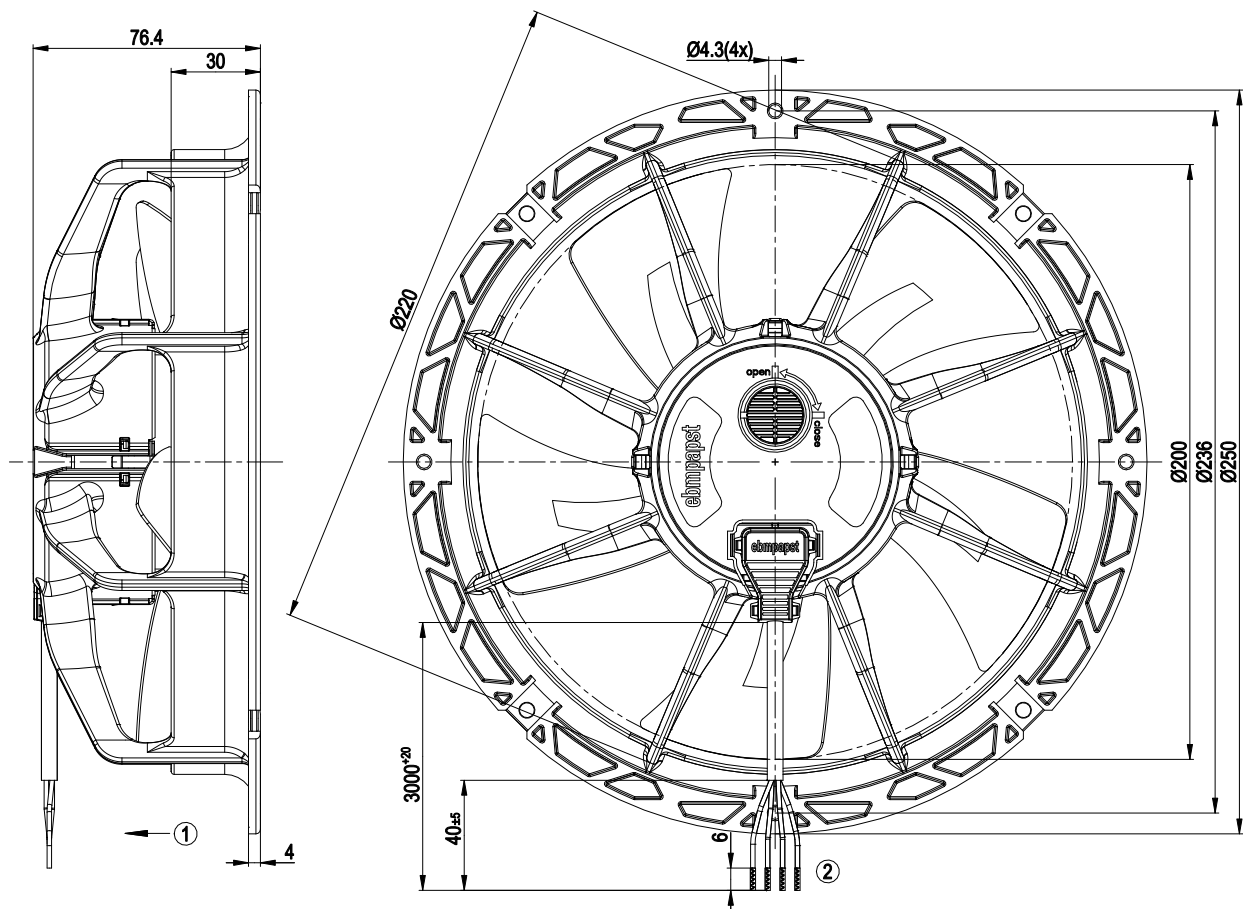
Weight	1 kg
Fan size	200 mm
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Fan housing material	Plastic, PP
Number of blades	5
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44
Insulation class	"B"
Moisture (F) / Environmental (H) protection 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	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Technical features	- Speed setting input (230 V) - Soft start
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)
With cable	Lateral
Protection class	II

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Product drawing



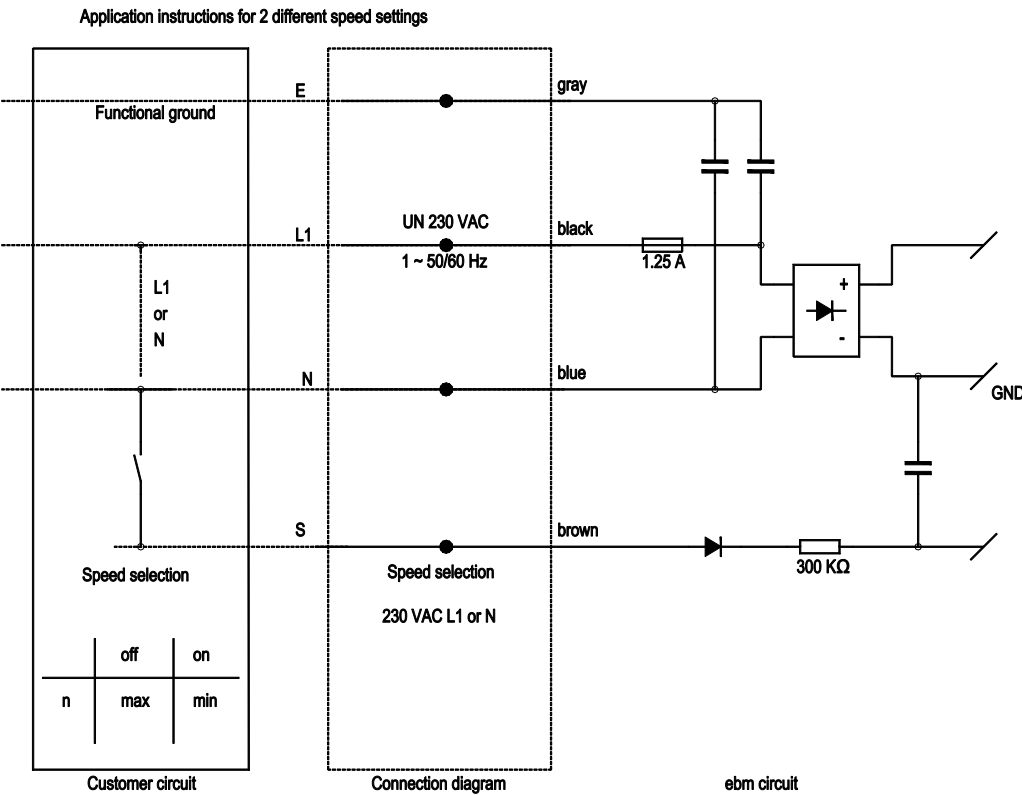
- | | |
|---|----------------------------------|
| 1 | Direction of air flow "V" |
| 2 | Cable AWG20, 4 x crimped splices |



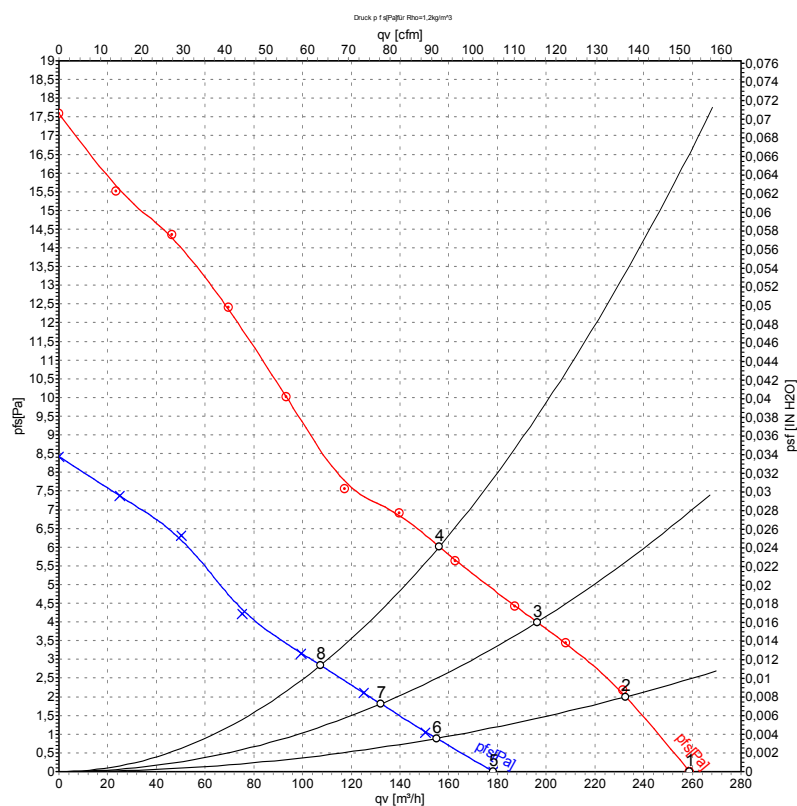
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Connection diagram



Curves: Air performance 50 Hz



Measurement: LU-69087-1

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	m ³ /h	Pa	CFM	inH2O
1	230	50	700	4.0	0.04	260	0	150	0.00
2	230	50	700	4.0	0.04	235	2	135	0.01
3	230	50	700	4.0	0.04	195	4	115	0.02
4	230	50	700	4.0	0.04	155	6	90	0.02
5	230	50	500	2.00	0.03	180	0	105	0.00
6	230	50	500	2.00	0.03	155	1	90	0.00
7	230	50	500	2.00	0.03	130	2	80	0.01
8	230	50	500	2.00	0.03	105	3	65	0.01

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