AC axial compact fan

sickle-shaped blades (S series), single-intake

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Amtsgericht (court of registration) Stuttgart · HRA 590344

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Nominal data

Type	**W2E200-HK38-12**			
Motor	**M2E068-BF**			
Phase		1~	1~	1~
Nominal voltage	VAC	230	230	230
Frequency	Hz	50	60	60
Method of obtaining data		fa	fa	fa
Valid for approval/standard		CE	UL 2111	CE
Speed (rpm)	min^{-1}	2550	3000	2800
Power consumption	W	64	75	80
Current draw	A	0.29	0.33	0.35
Capacitor	µF	1.5	1.5	1.5
Capacitor voltage	VDB	450	450	450
Capacitor standard		S0 (CE)	UL	S0 (CE)
Max. back pressure	Pa	80	95	95
Max. back pressure	in. wg	0.32	0.38	0.38
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	55	65	65
Starting current	A	0.55	0.54	0.54

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

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Technical description

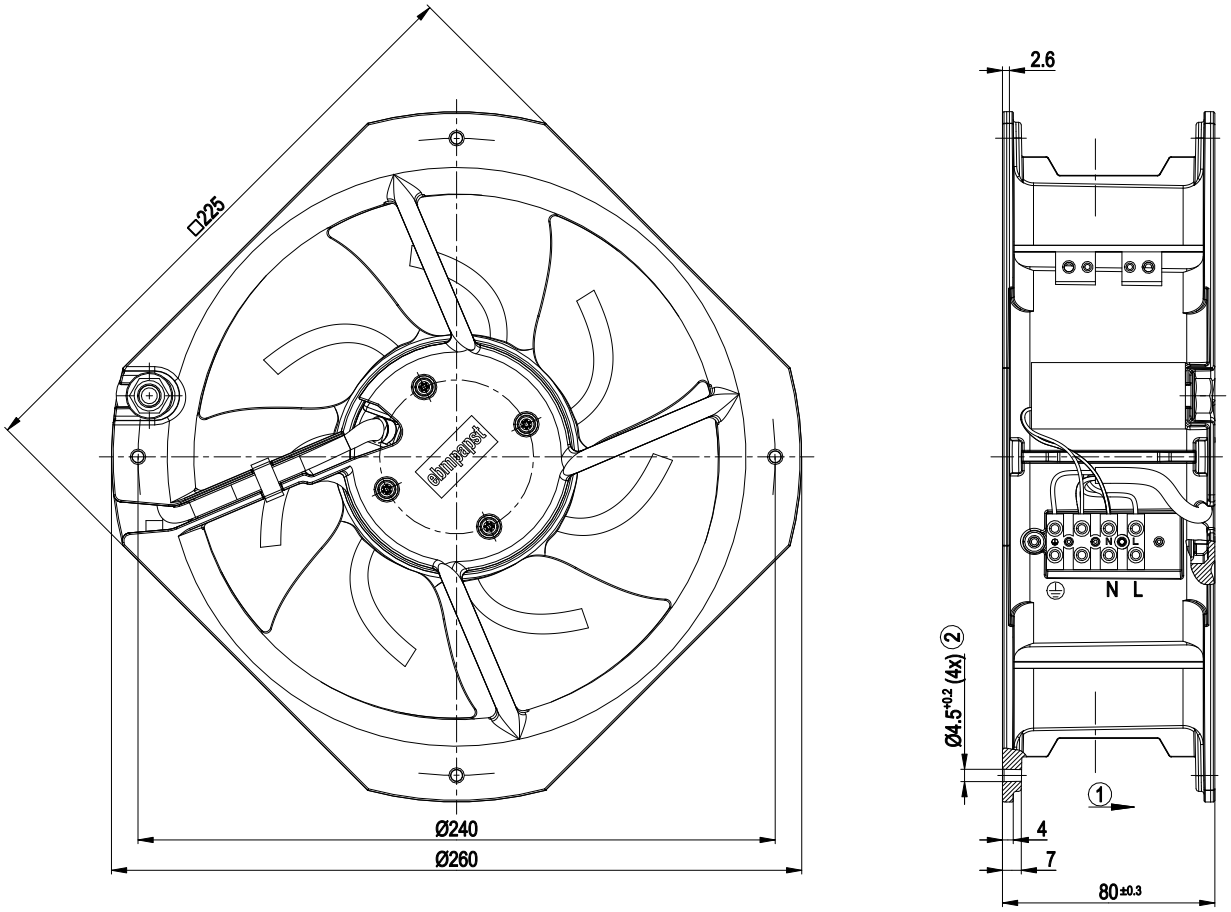
Weight	2.13 kg
Size	200 mm
Motor size	68
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Fan housing material	Die-cast aluminum
Number of blades	7
Airflow direction	V
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
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	Hybrid bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical hookup	Terminal strip; Capacitor connected
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	S0
Conformity with standards	EN 60335-1; CE
Approval	EAC; CSA C22.2 No. 77; UL 1004-3

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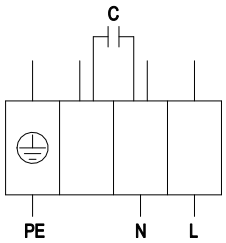
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Product drawing



1	Direction of air flow "V"
2	For self-tapping M5 screws

Connection diagram



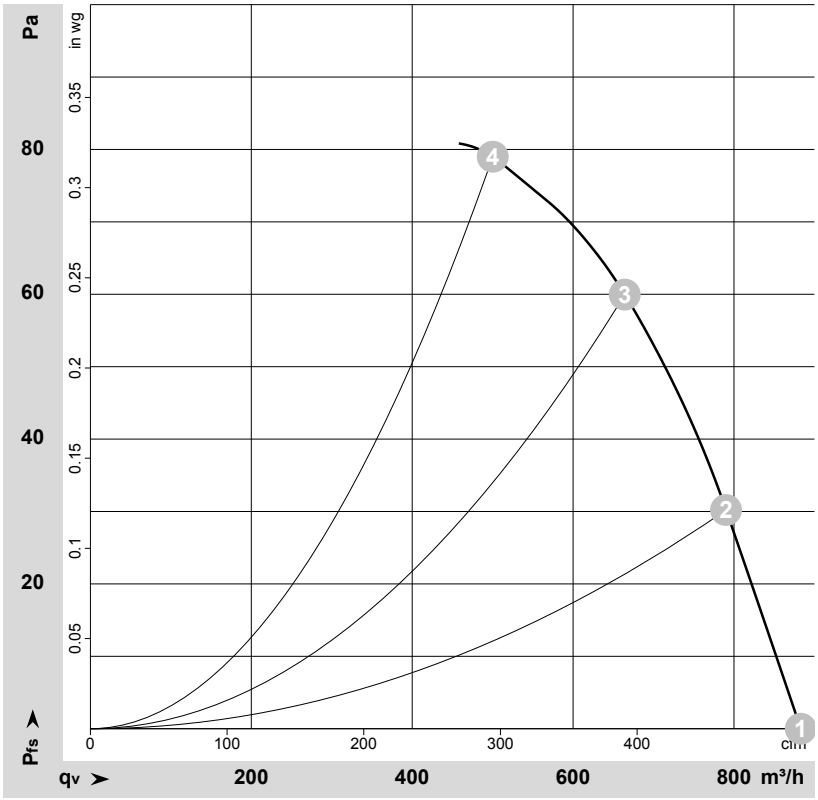
PE	green/yellow	N	black	L	blue

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sickle-shaped blades (S series), single-intake

Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-62128-1

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_e	I	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	230	50	2630	60	0.30	885	0	520	0.00
2	230	50	2585	64	0.31	790	30	465	0.12
3	230	50	2525	67	0.31	665	60	390	0.24
4	230	50	2480	69	0.32	500	80	295	0.32

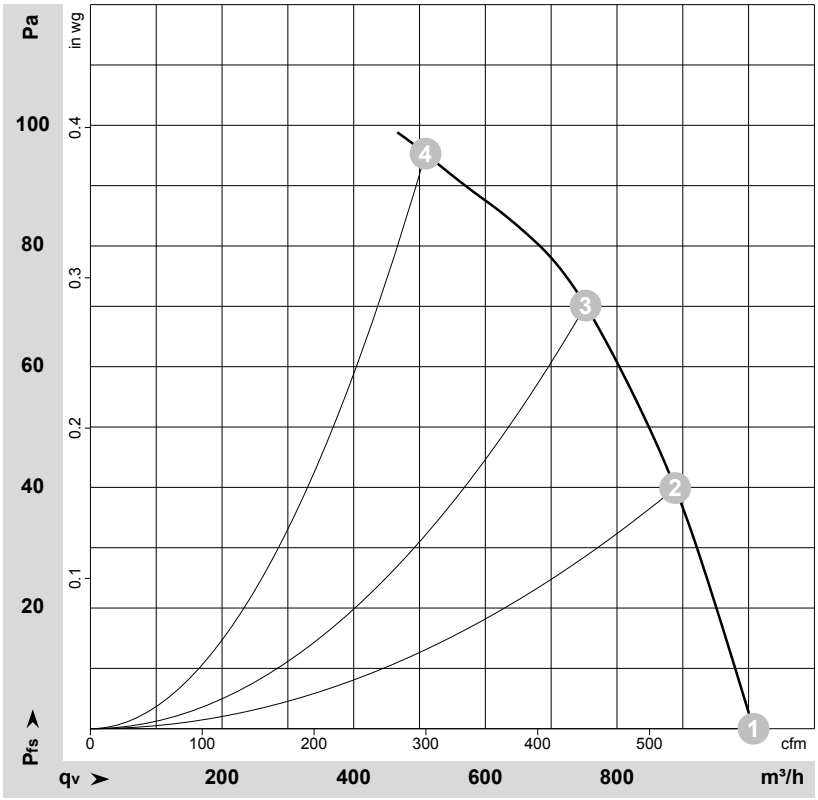
U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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Curves: Air performance 60 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-62129-1

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_e	I	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	230	60	3000	70	0.31	1005	0	595	0.00
2	230	60	2900	75	0.33	890	40	525	0.16
3	230	60	2800	79	0.35	750	70	445	0.28
4	230	60	2705	83	0.36	510	95	300	0.38

U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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