W2E200-HK38-01

AC axial compact fan

sickled blades (S series)

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Nominal data

Type	**W2E200-HK38-01**		
Motor	**M2E068-BF**		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		fa	fa
Valid for approval / standard		CE	CE
Speed (rpm)	min^{-1}	2550	2800
Power input	W	64	80
Current draw	A	0.29	0.35
Motor capacitor	µF	1.5	1.5
Capacitor voltage	VDB	450	450
Capacitor standard		S0 (CE)	S0 (CE)
Max. back pressure	Pa	80	95
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	55	65
Starting current	A	0.55	0.54

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

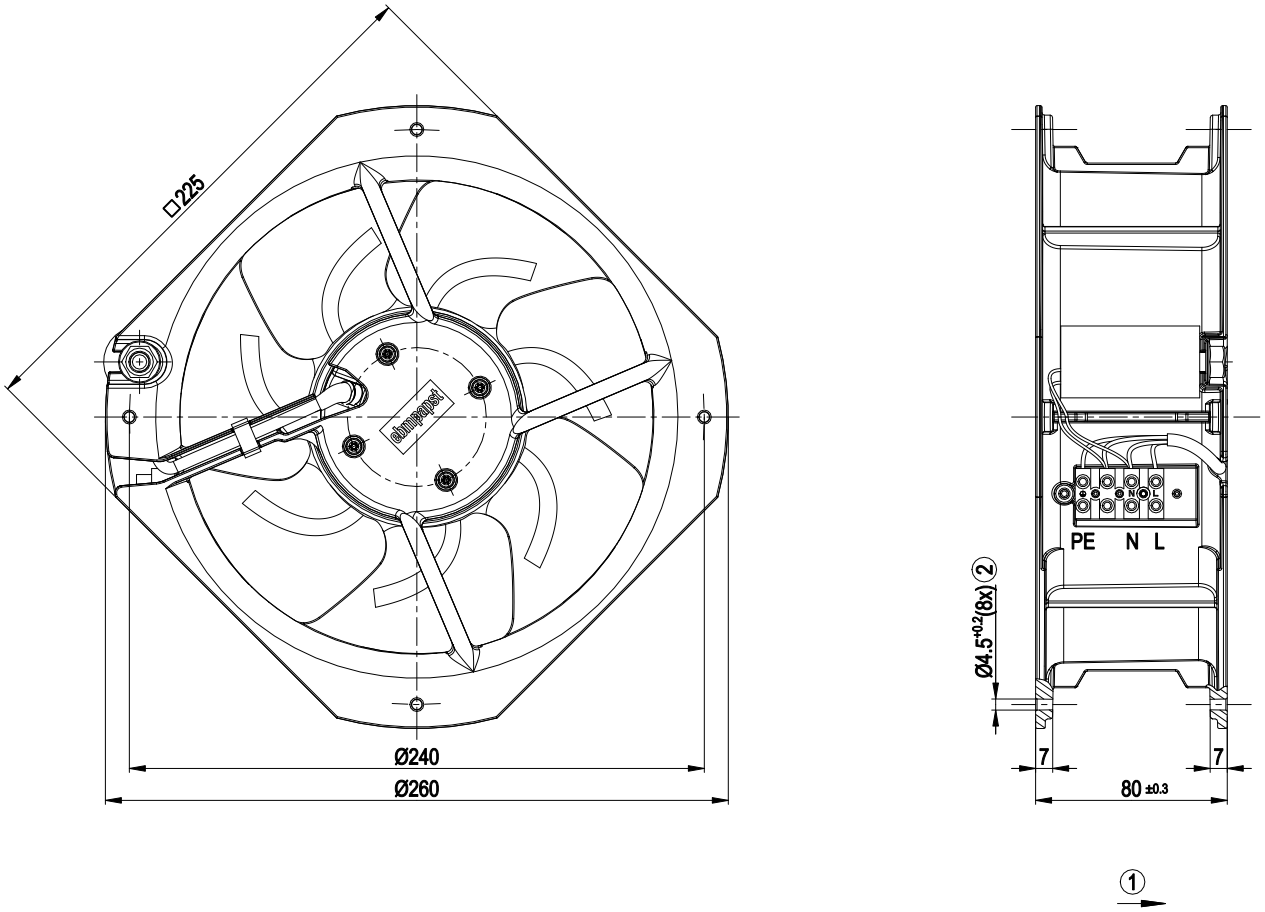
Mass	2.1 kg
Size	200 mm
Motor size	68
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Material of wall ring	Die-cast aluminium
Number of blades	7
Direction of air flow	V
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP44; Depending on installation and position
Insulation class	"B"
Humidity (F) / environmental protection class (H)	H0 - dry environment
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensation drainage holes	None
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Electrical connection	Terminal strip; Capacitor connected
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Motor capacitor according to EN 60252-1 in safety protection class	S0
Product conforming to standard	EN 60335-1; CE
Standard conformity	UKCA
Approval	CSA C22.2 no. 113; EAC; UL 1004-3; VDE; CCC

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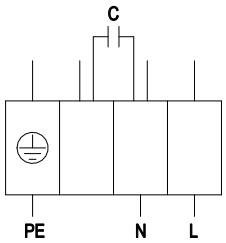
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Product drawing



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

Connection screen



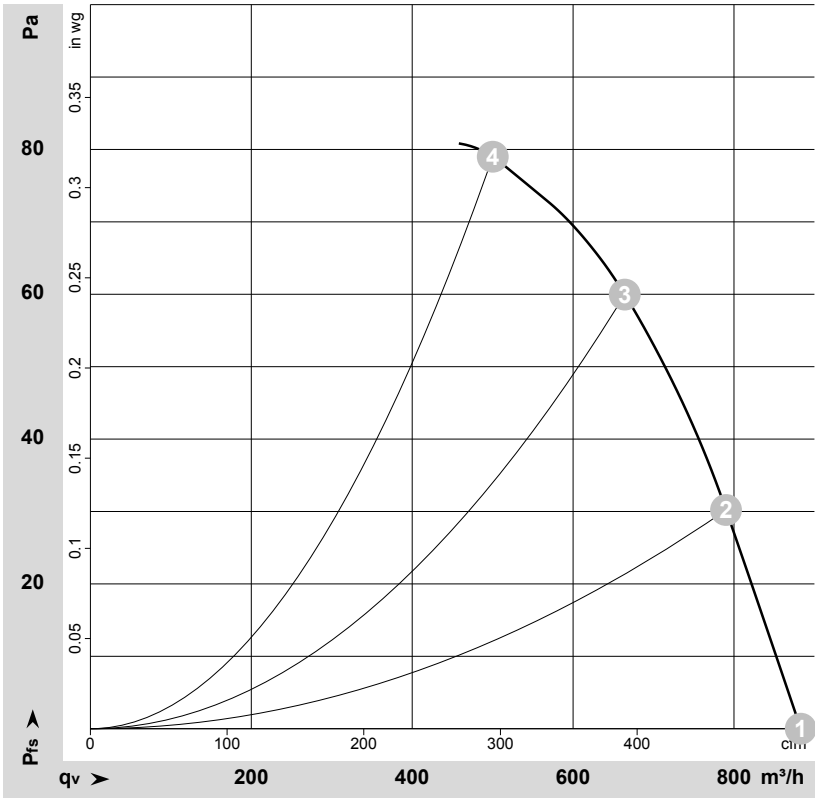
PE	green/yellow	N	black	L	blue

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AC axial compact fan

sickled blades (S series)

Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-62128-1

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	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

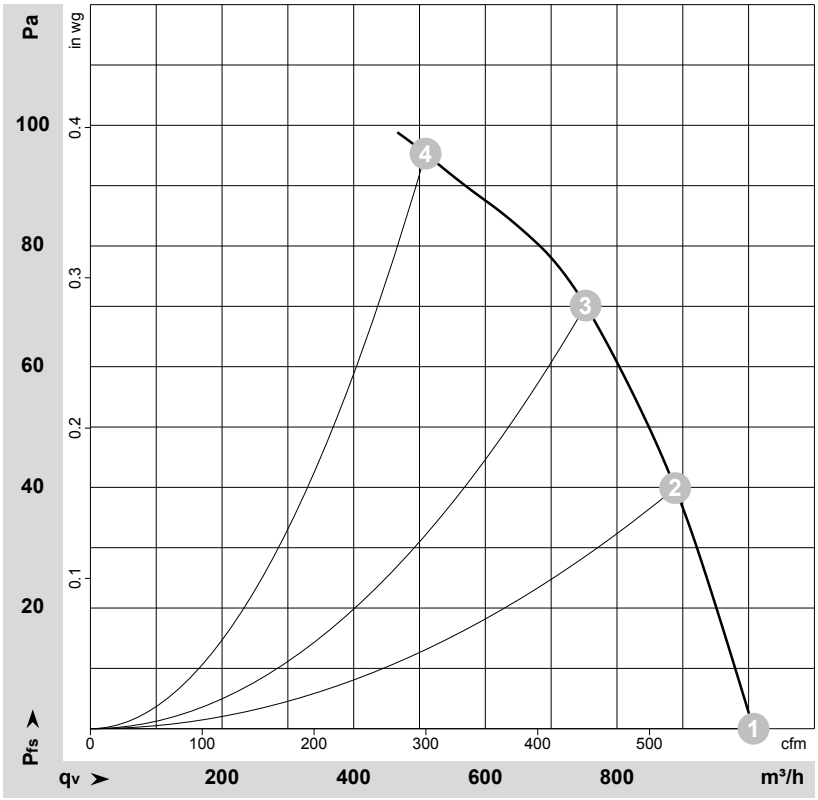
U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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Charts: Air flow 60 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-62129-1

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	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

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