AC axial compact fan

sickled blades (S series), single inlet

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Nominal data

Type	**W2E200-HH38-25**
Motor	**M2E068-BF**

Phase		1~	1~
Nominal voltage	VAC	230	230
Nominal voltage range	VAC	220 .. 240	220 .. 240
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	400	400
Max. back pressure	Pa	100	120
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	60	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

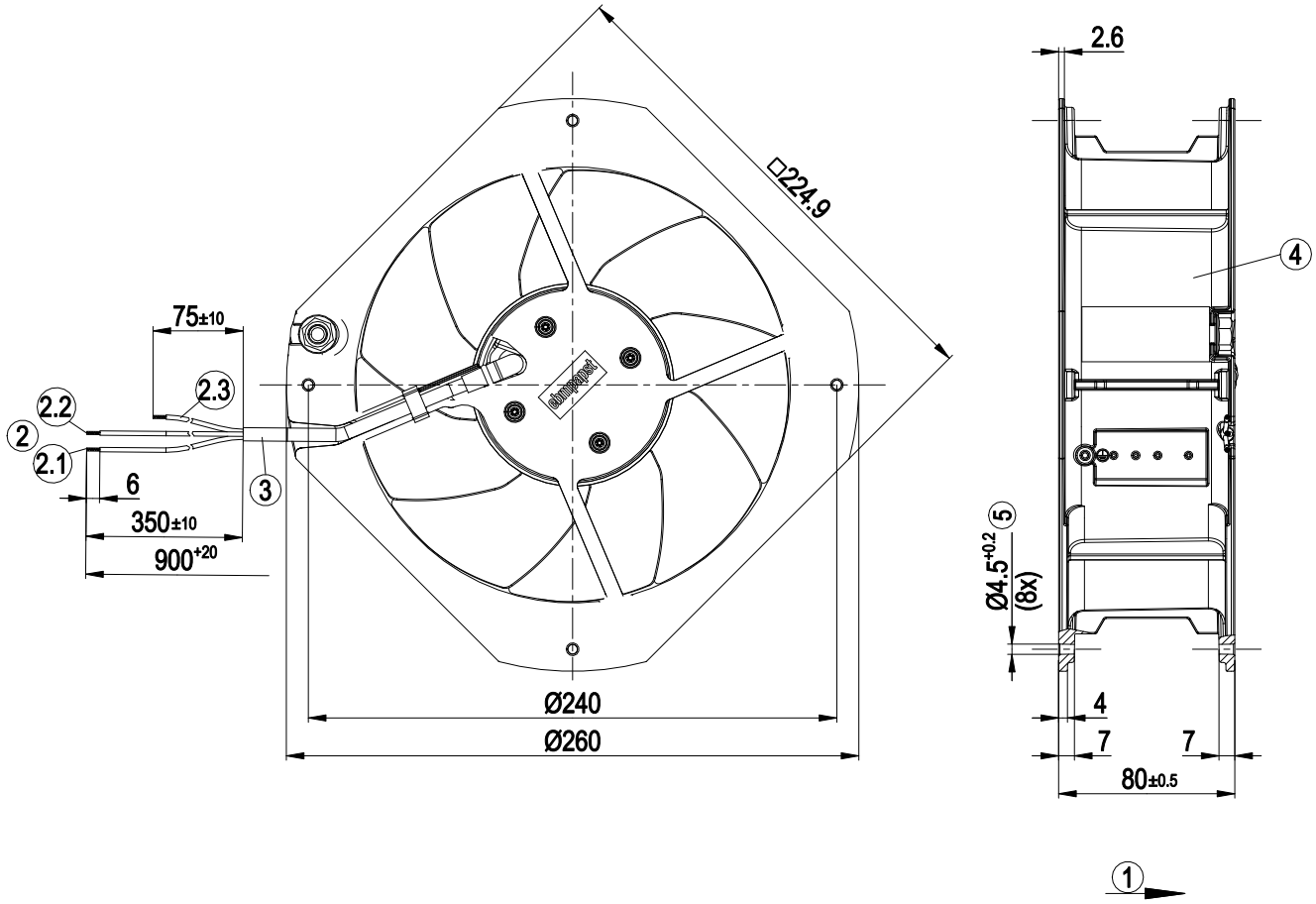
Mass	2.0 kg
Size	200 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Material of wall ring	Die-cast aluminium
Number of blades	9
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"B"
Humidity (F)/environmental protection class (H)	H0+
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
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
Approval	CSA C22.2 No.100; UL 1004-1

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Product drawing



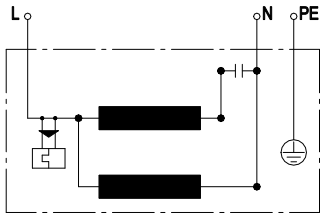
1	Direction of air flow "V"
2	Connection line silicone 3G 1 mm², 3x lead tips crimped
2.1	green/yellow
2.2	blue
2.3	black
3	Heat shrink tube
4	Capacitor
5	For self-tapping M5 screws

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Connection screen



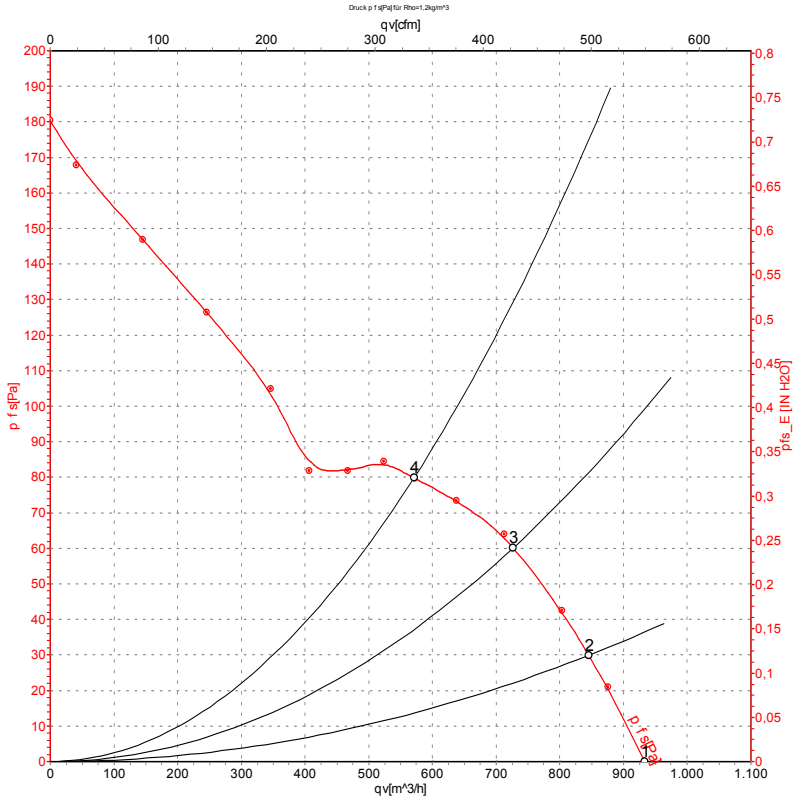
L	blue	N	black	PE	green/yellow

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Charts: Air flow 50 Hz



Measurement: LU-57318-1

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	inH2O
1	230	50	2550	64	0.29	935	0	550	0.00
2	230	50	2500	67	0.32	845	30	495	0.12
3	230	50	2450	70	0.32	725	60	425	0.24
4	230	50	2410	72	0.33	570	80	335	0.32

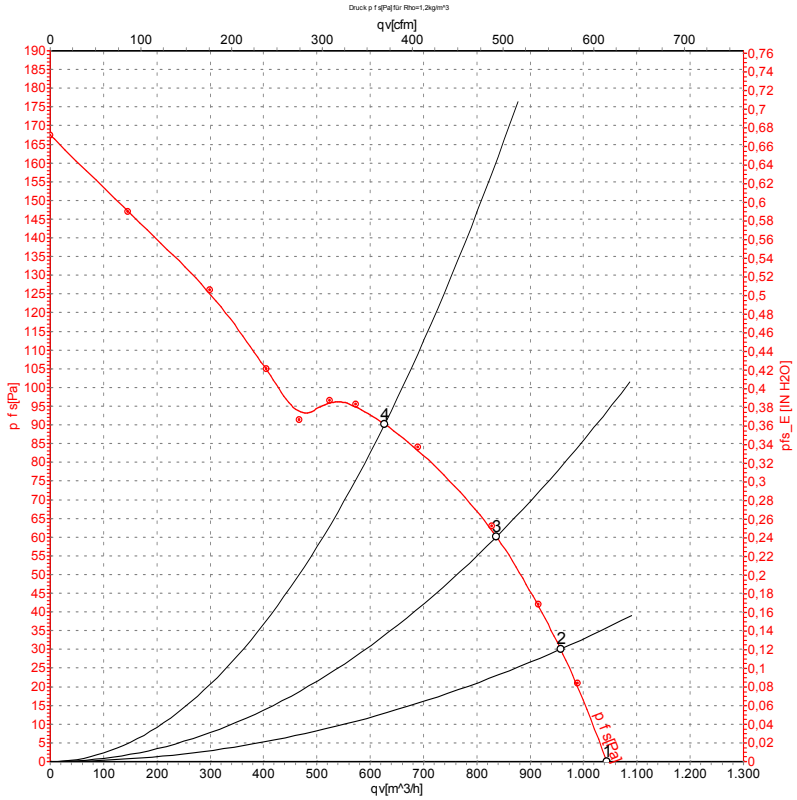
U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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Charts: Air flow 60 Hz



Measurement: LU-57319-1

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	inH2O
1	230	60	2800	80	0.35	1045	0	615	0.00
2	230	60	2775	81	0.35	955	30	565	0.12
3	230	60	2685	84	0.37	835	60	495	0.24
4	230	60	2575	88	0.38	625	90	370	0.36

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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