

W2E200-HH38-17 ebmpapst Datasheet

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Nominal data

Type	W2E200-HH38-17			
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	CE	UL 2111
Speed (rpm)	min ⁻¹	2550	2800	2800
Power consumption	W	64	80	85
Current draw	A	0.29	0.35	0.36
Capacitor	μF	1.5	1.5	1.5
Capacitor voltage	VDB	400	400	400
Max. back pressure	Pa	100	120	120
Max. back pressure	in. wg	0.4	0.48	0.48
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	60	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

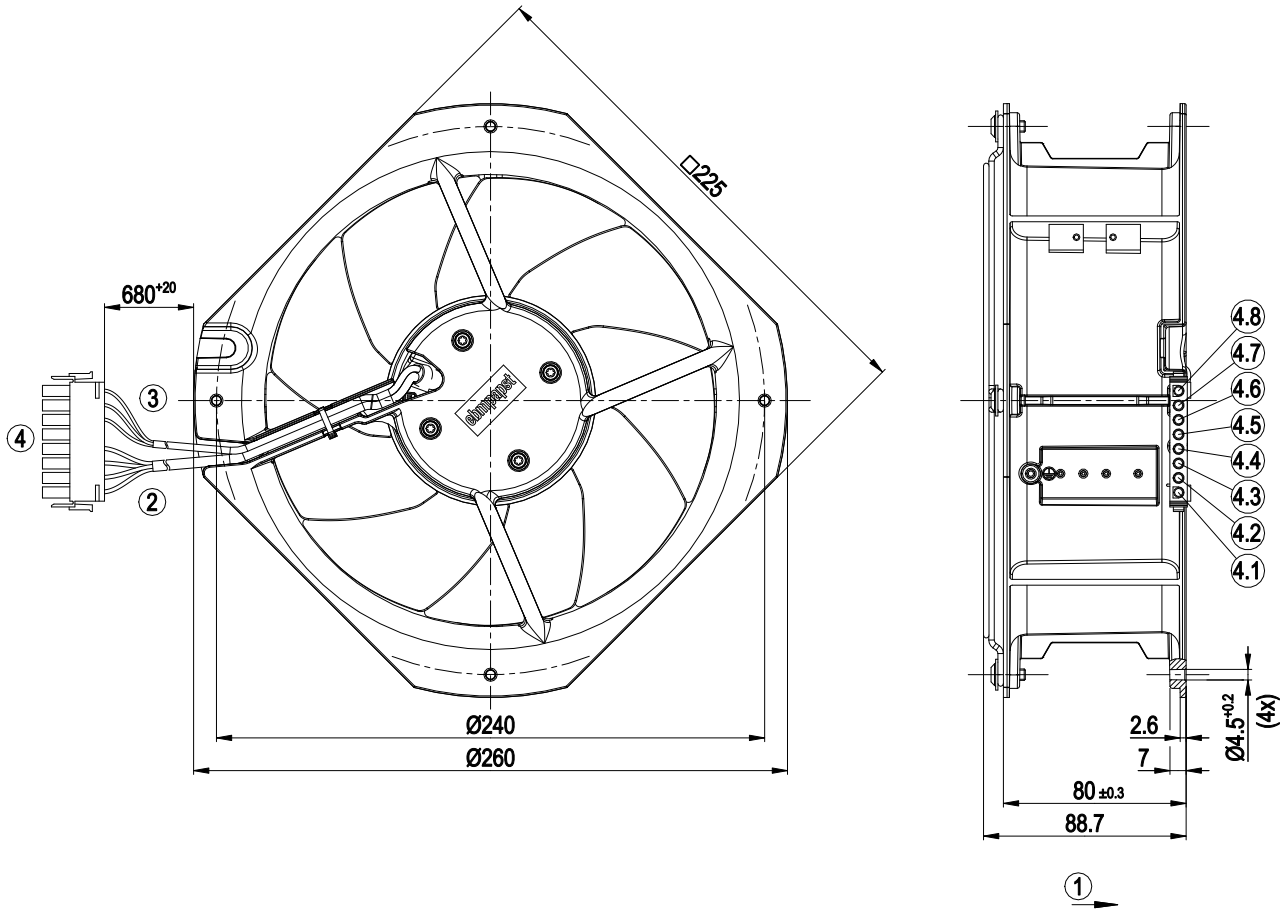


Technical description

Weight	2.3 kg
Size	200 mm
Motor size	68
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Fan housing material	Die-cast aluminum
Guard grille material	Steel, phosphated and coated with black plastic
Number of blades	9
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	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical hookup	Connector with cable
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	CE
Approval	CSA C22.2 No. 113; UL 507

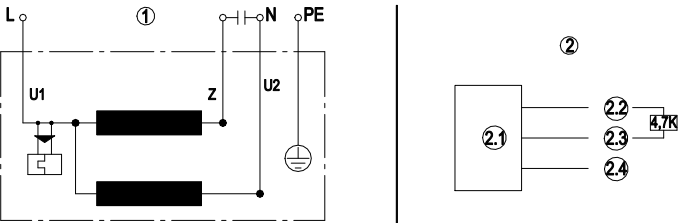


Product drawing



1	Airflow direction "V"
2	Cable PVC AWG20
	4x plug pin TE 350218-1
3	Cable Raychem Spec. 44, AWG24
	3x plug pin TE 926885-1
4	8-pole connector housing TE 926301-3
4.1	U1 (blue)
4.2	Z (brown)
4.3	U2 (black)
4.4	PE (green/yellow)
4.5	not used
4.6	+5 V (red)
4.7	out (white)
4.8	0 V (black)

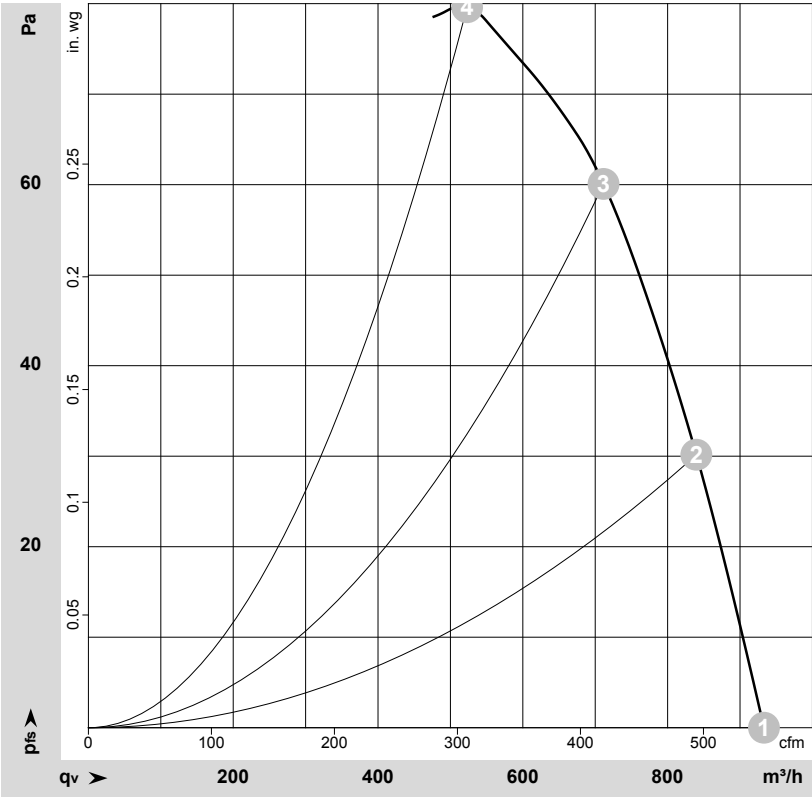
Connection diagram



1	Fan connection diagram
U1	blue
Z	brown
U2	black
PE	green/yellow
2	Hall IC circuit
2.1	Hall IC
2.2	red (+5 V)
2.3	white (out)
2.4	black (0 V)



Curves: Air performance 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-57318-1

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

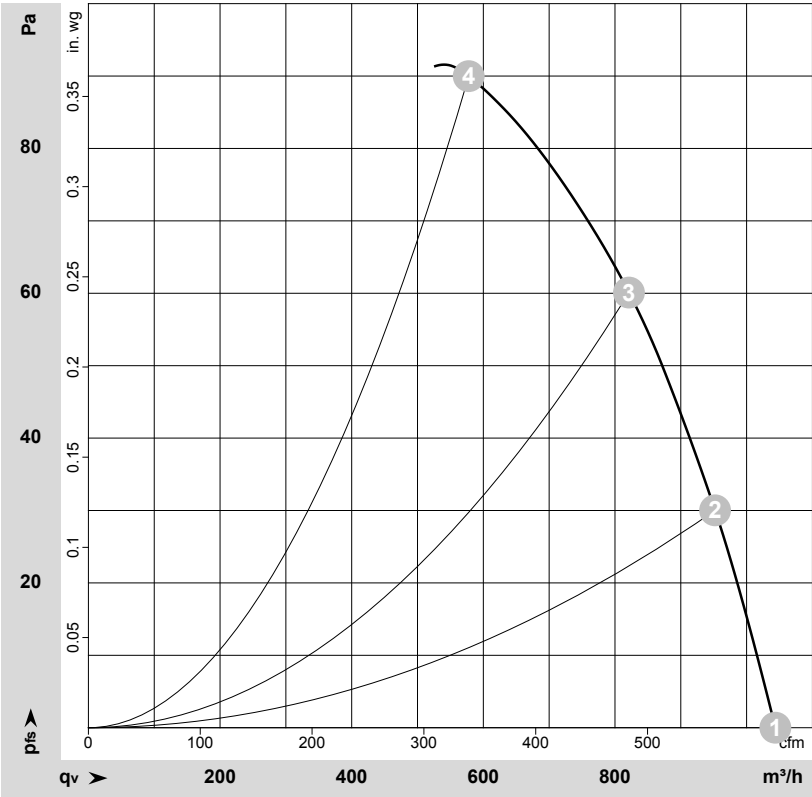
	Wired	U	f	n	P _e	I	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	m ³ /h	Pa	cfm	in. wg
1	1~	230	50	2550	64	0.29	935	0	550	0.00
2	1~	230	50	2500	67	0.32	840	30	495	0.12
3	1~	230	50	2445	70	0.32	710	60	420	0.24
4	1~	230	50	2410	72	0.33	525	80	310	0.32

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



AC axial compact fan
sickle-shaped blades (S series)

Curves: Air performance 60 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-57319-1

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

	Wired	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	1~	230	60	2800	80	0.35	1045	0	615	0.00
2	1~	230	60	2770	81	0.35	950	30	560	0.12
3	1~	230	60	2675	85	0.37	820	60	485	0.24
4	1~	230	60	2555	89	0.39	580	90	340	0.36

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

