W2E250-HJ52-06

AC axial compact fan

straight blades (A series)

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Nominal data

Type	**W2E250-HJ52-06**
Motor	**M2E068-DF**

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		-	UL 2111	-
Speed (rpm)	min^{-1}	2650	2950	2950
Power consumption	W	135	215	200
Current draw	A	0.6	0.92	0.88
Capacitor	µF	4	4	4
Capacitor voltage	VDB	400	400	400
Capacitor standard		S0 (CE)	UL	S0 (CE)
Max. back pressure	Pa	150	160	160
Max. back pressure	inH2O	0.6	0.64	0.64
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	55	45	45
Starting current	A	1.3		1.25

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

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Technical description

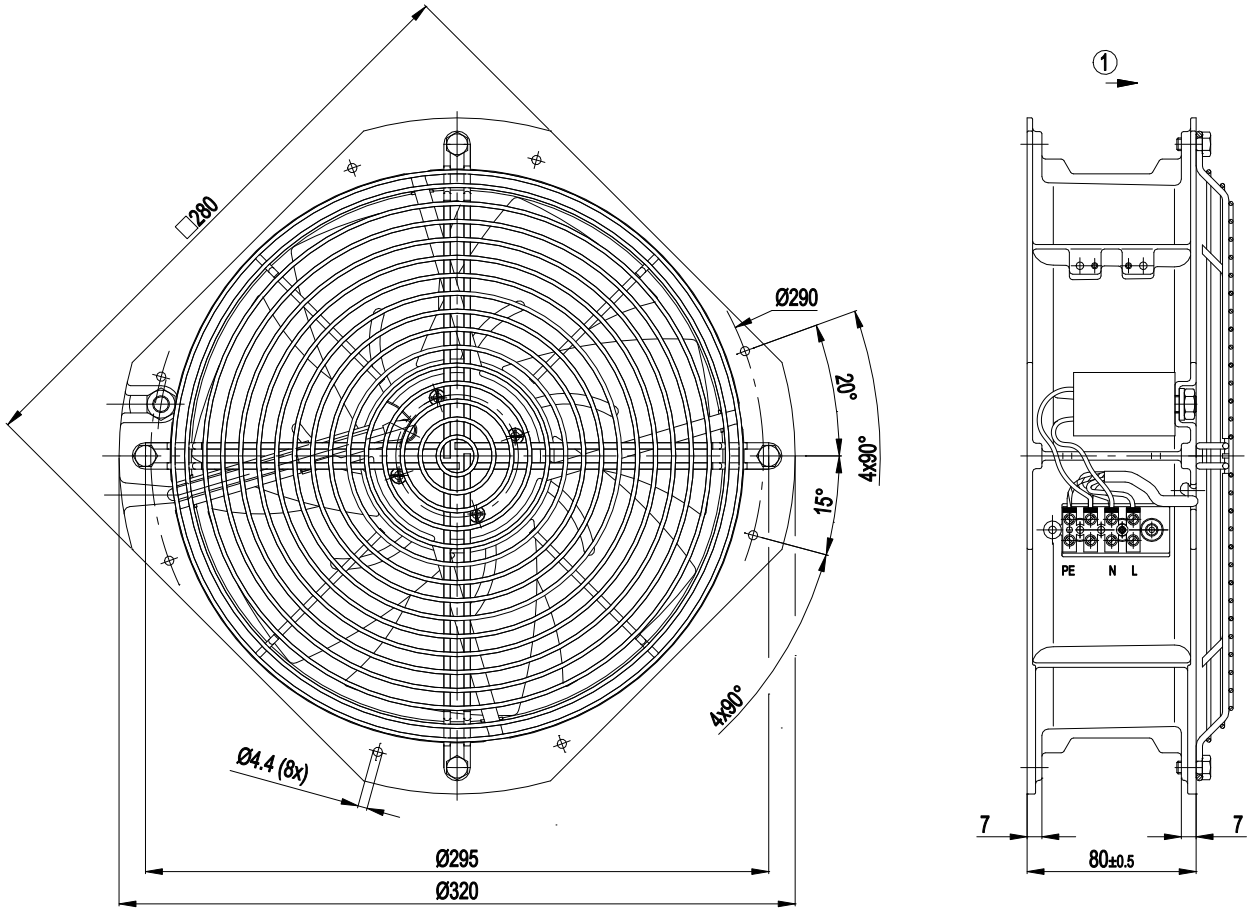
Weight	3.5 kg
Fan size	250 mm
Blade material	Sheet steel, painted black
Housing material	Die-cast aluminum
Guard grille material	Steel, phosphated and coated with black plastic
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and 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	Via 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
Approval	CCC; CSA C22.2 No. 77; UL 2111

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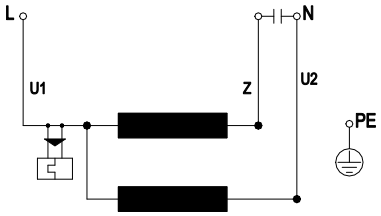
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Product drawing



1	Direction of air flow "V"

Connection diagram



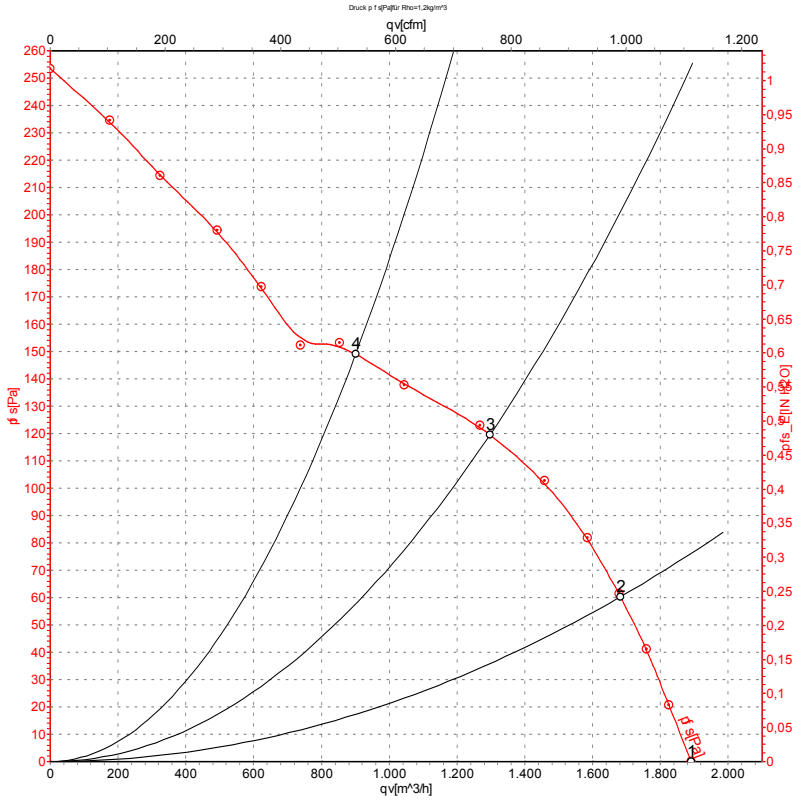
U1	blue	Z	brown	U2	black
PE	green/yellow				

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AC axial compact fan

straight blades (A series)

Curves: Air performance 50 Hz



Measurement: LU-38028-1

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	inH2O
1	230	50	2650	135	0.60	1890	0	1110	0.00
2	230	50	2615	144	0.63	1680	60	990	0.24
3	230	50	2530	160	0.70	1295	120	765	0.48
4	230	50	2475	169	0.73	900	150	530	0.60

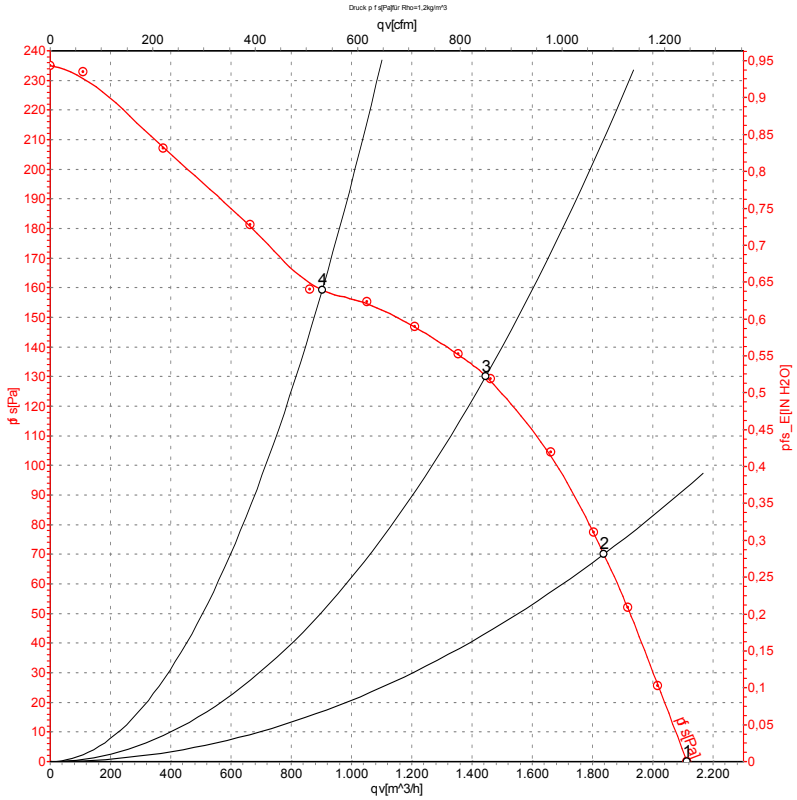
U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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AC axial compact fan

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Curves: Air performance 60 Hz



Measurement: LU-40617-1

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	inH2O
1	230	60	2950	200	0.88	2120	0	1250	0.00
2	230	60	2885	207	0.91	1835	70	1080	0.28
3	230	60	2720	221	0.96	1445	130	850	0.52
4	230	60	2685	222	0.97	900	160	530	0.64

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

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