W2E250-HJ40-07

AC axial compact fan

sickle-shaped blades (S series)



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Nominal data

Type	**W2E250-HJ40-07**
Motor	**M2E068-DF**

Phase		1~	1~	1~
Nominal voltage	VAC	115	115	115
Frequency	Hz	50	60	60
Method of obtaining data		ce	ce	ce
Valid for approval/standard		CE	CE	UL 2111
Speed	min^{-1}	2600	2800	2800
Power consumption	W	165	230	240
Current draw	A	1.45	2.03	2.03
Capacitor	µF	16	16	16
Capacitor voltage	VDB	220	220	220
Max. back pressure	Pa	90	110	110
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	35	40	40

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

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Technical description

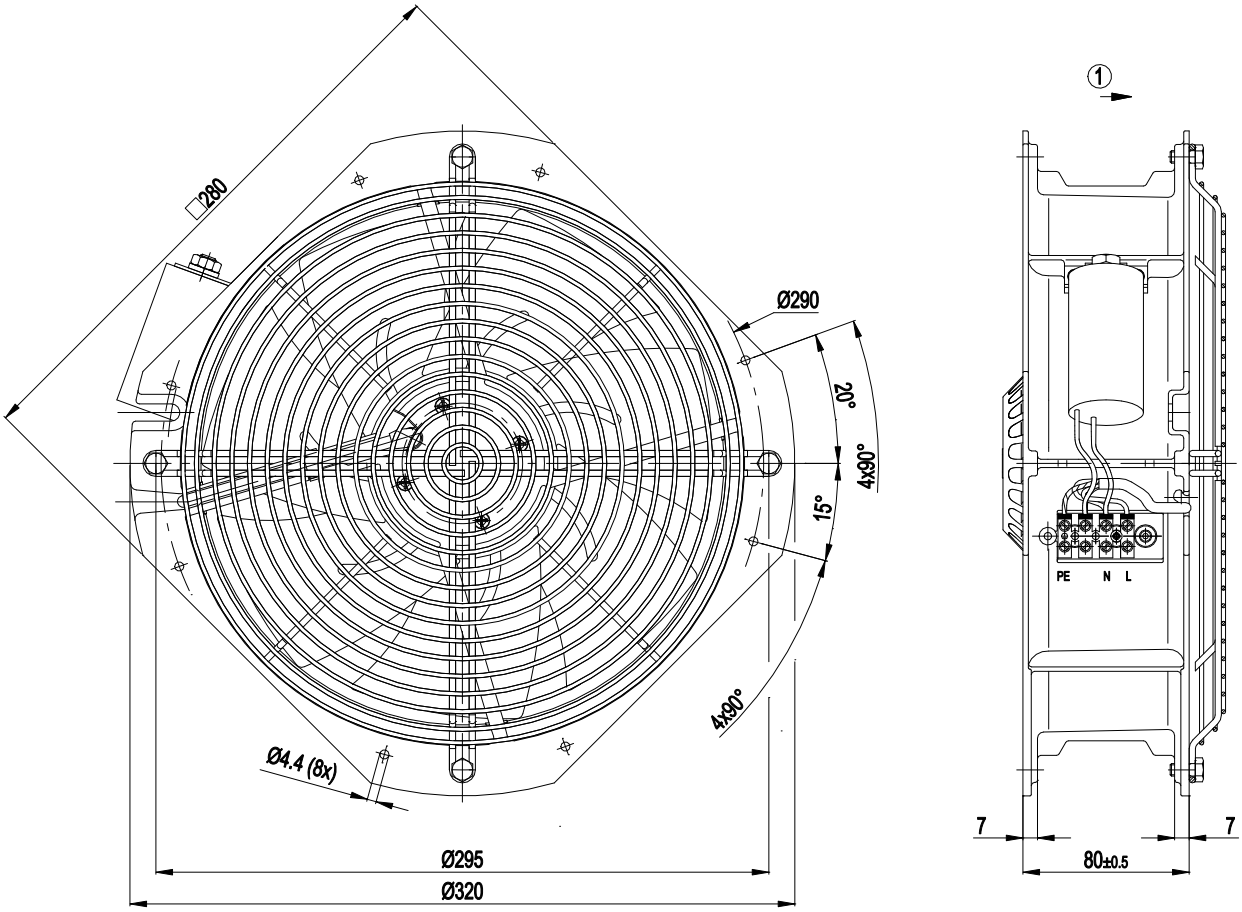
Weight	3.6 kg
Fan size	250 mm
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Housing material	Die-cast aluminum
Guard grille material	Steel, phosphated and coated with black plastic
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F0
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 storage	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	P0/S0
Conformity with standards	EN 60335-1; CE
Approval	CCC; UL 2111; CSA C22.2 No. 77

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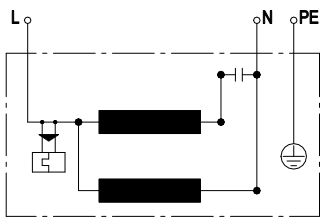
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Product drawing



1	Direction of air flow "V"

Connection diagram



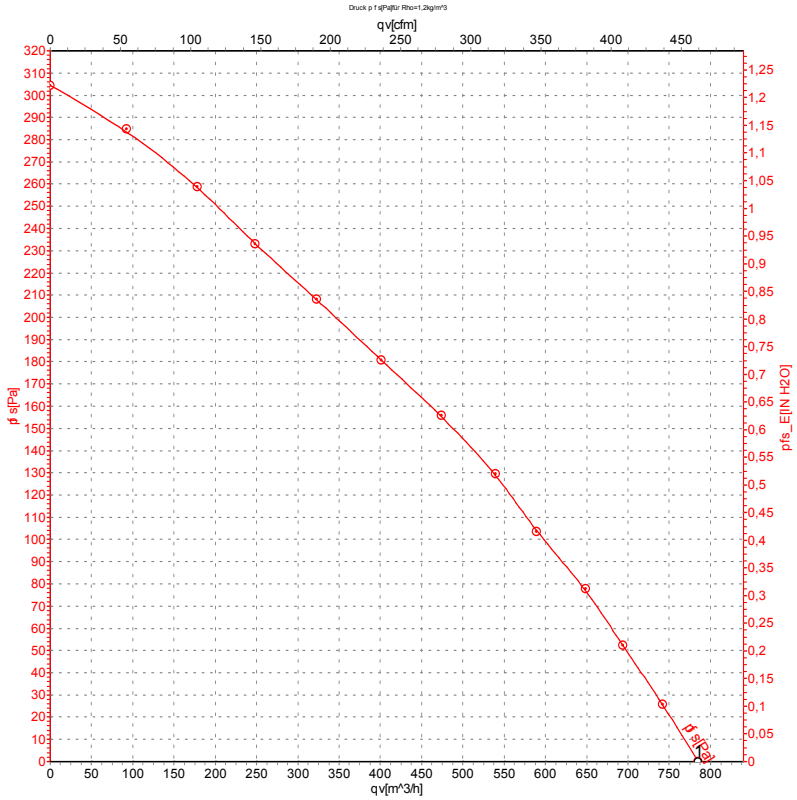
L	blue	N	black	PE	green/yellow

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AC axial compact fan

sickle-shaped blades (S series)

Curves: Air performance 50 Hz



Measurement: LU-40614

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	qv
	V	Hz	min^{-1}	W	A	m^3/h
1	115	50	2600	165	1.45	785

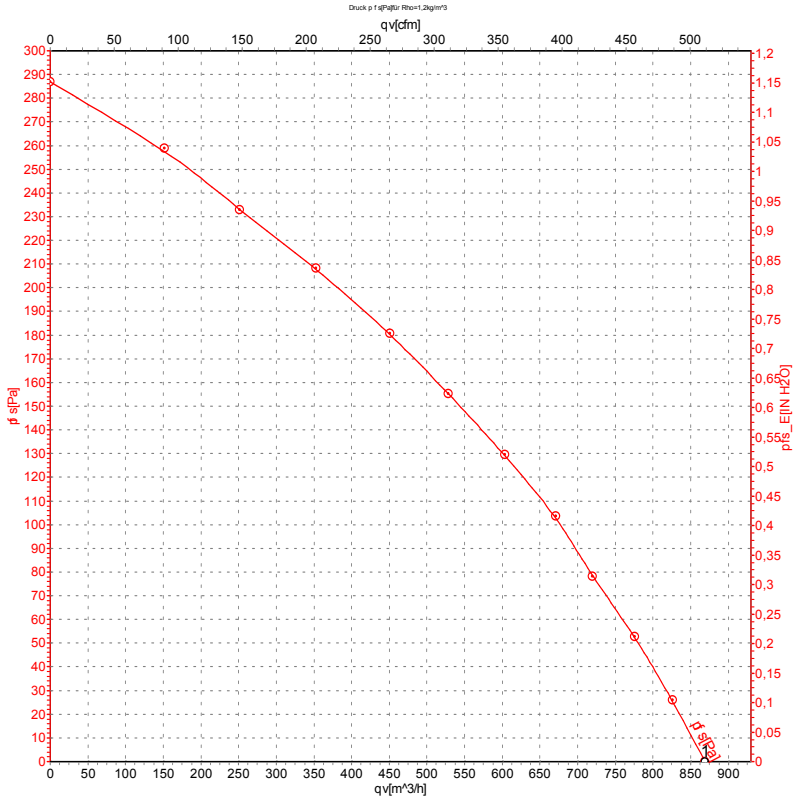
U = Power supply · f = Frequency · n = Speed · P_e = Power consumption · I = Current draw · qv = Air flow

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Curves: Air performance 60 Hz



Measurement: LU-40615

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	qv
	V	Hz	min^{-1}	W	A	m^3/h
1	115	60	2800	230	2.03	870

U = Power supply · f = Frequency · n = Speed · P_e = Power consumption · I = Current draw · qv = Air flow

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