W4E250-DI36-72

AC axial fan

sickled blades (S series), single inlet

Wall ring with guard grille

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Nominal data

Type	**W4E250-DI36-72**			
Motor	**M4E068-BF**			
Phase		1~	1~	1~
Nominal voltage	VAC	115	115	115
Frequency	Hz	50	60	60
Type of data definition		fa	fa	fa
Valid for approval / standard		CE	CE	UL 2111
Speed	min^{-1}	1390	1630	1630
Power input	W	42	44	47
Current draw	A	0.39	0.39	0.41
Motor capacitor	µF	6.0	6.0	6.0
Capacitor voltage	VDB	220	220	220
Max. ambient temperature	°C	45	70	70

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	3.3 kg
Size	250 mm
Surface of rotor	Coated in black
Material of blades	Steel plate
Material of wall ring	Sheet steel, galvanised
Material of guard grille	Steel, phosphated and coated in black plastic
Number of blades	9
Direction of air flow	"A"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"B"
Humidity class	F0
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
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)
Product conforming to standard	EN 60335-1; CE
Approval	UL 2111; CSA C22.2 Nr.77

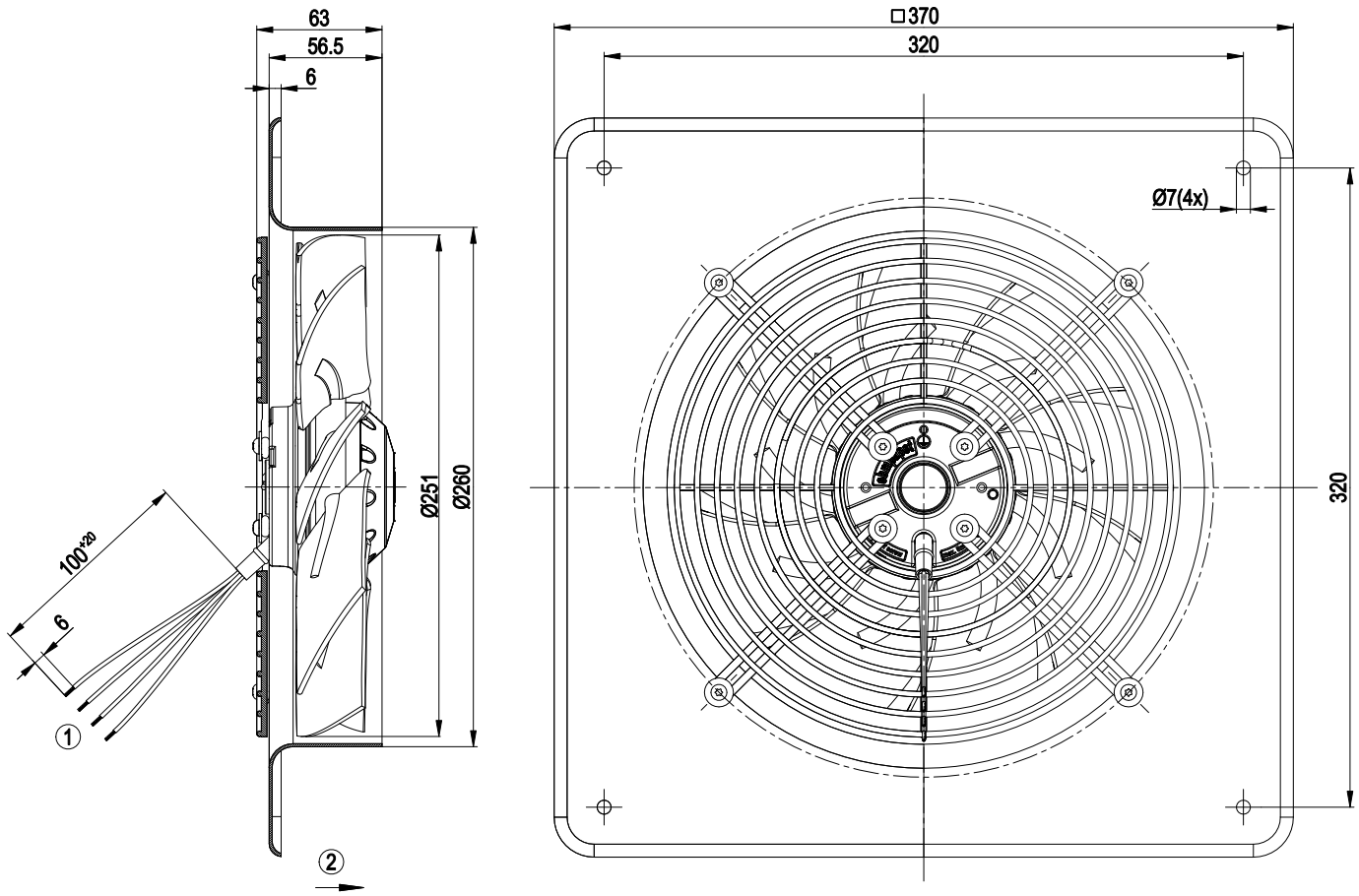
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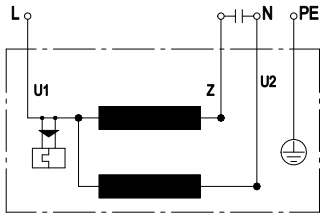
Wall ring with guard grille

Product drawing



1	Connection line PVC AWG20, 4x brass lead tips crimped
2	Direction of air flow "A"

Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow				

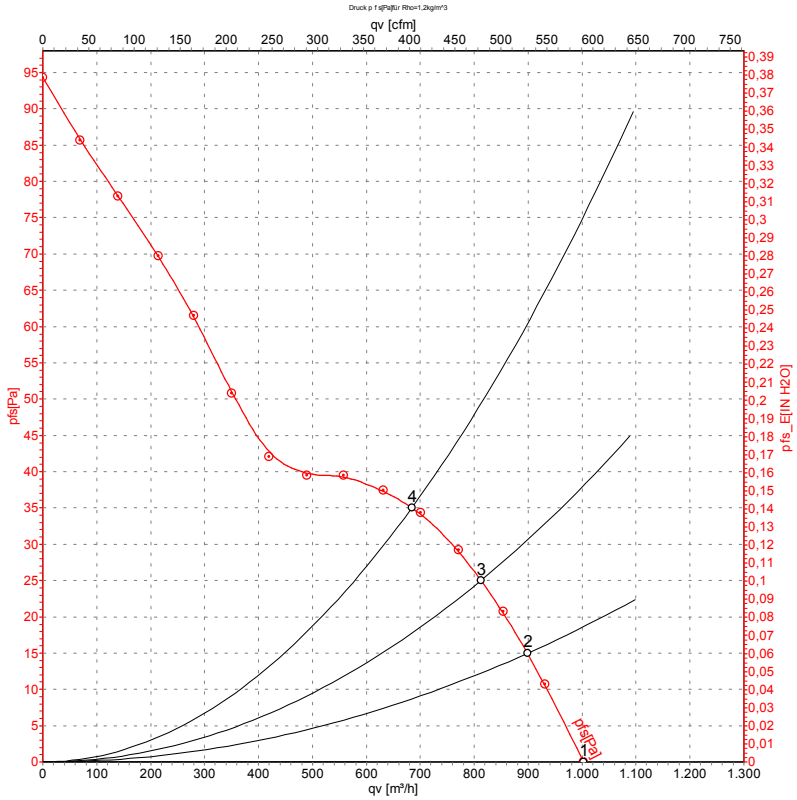
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Wall ring with guard grille

Charts: Air flow 50 Hz



Measurement: LU-114506

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	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	115	50	1390	42	0.39	1005	0
2	115	50	1375	42	0.39	900	15
3	115	50	1365	43	0.39	810	25
4	115	50	1355	44	0.39	685	35

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

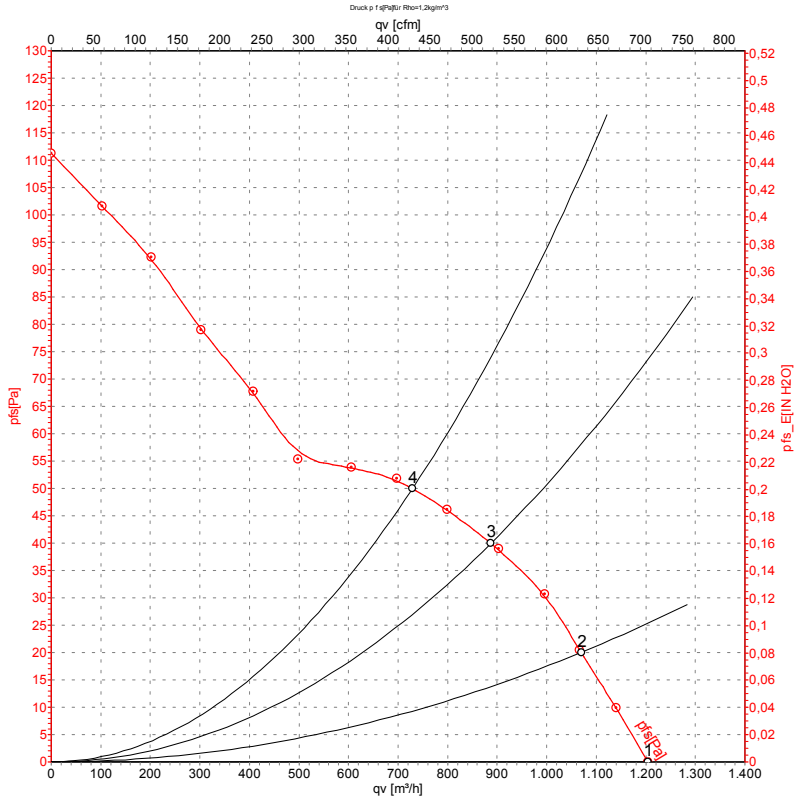
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Charts: Air flow 60 Hz



Measurement: LU-114503

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	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	115	60	1630	44	0.39	1205	0
2	115	60	1610	46	0.40	1070	20
3	115	60	1575	48	0.42	885	40
4	115	60	1560	49	0.42	730	50

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

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