W2D250-GA08-08

AC axial fan

straight blades (A series)

Fan housing with guard grille

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Nominal data

Type	**W2D250-GA08-08**
Motor	**M2D068-DF**

Phase		3~
Nominal voltage	VAC	380
Wiring		Y
Frequency	Hz	50
Method of obtaining data		fa
Valid for approval/standard		CE
Speed (rpm)	min^{-1}	2550
Power consumption	W	110
Current draw	A	0.19
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	65

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 kg
Size	250 mm
Motor size	68
Rotor surface	Painted black
Impeller material	Sheet steel, painted black
Support ring material	Steel, phosphated and coated with black plastic
Fan housing material	Sheet steel, galvanized
Number of blades	5
Airflow direction	A
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
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
With cable	Lateral
Protection class assignment	I; If a protective earth is connected by the customer to the marked PE connection point. This component for installation may have several local protection classes. This information relates to this component's basic design. The final protection class is based on the component's intended installation and connection.
Conformity with standards	EN 60335-1; CE
Approval	CCC

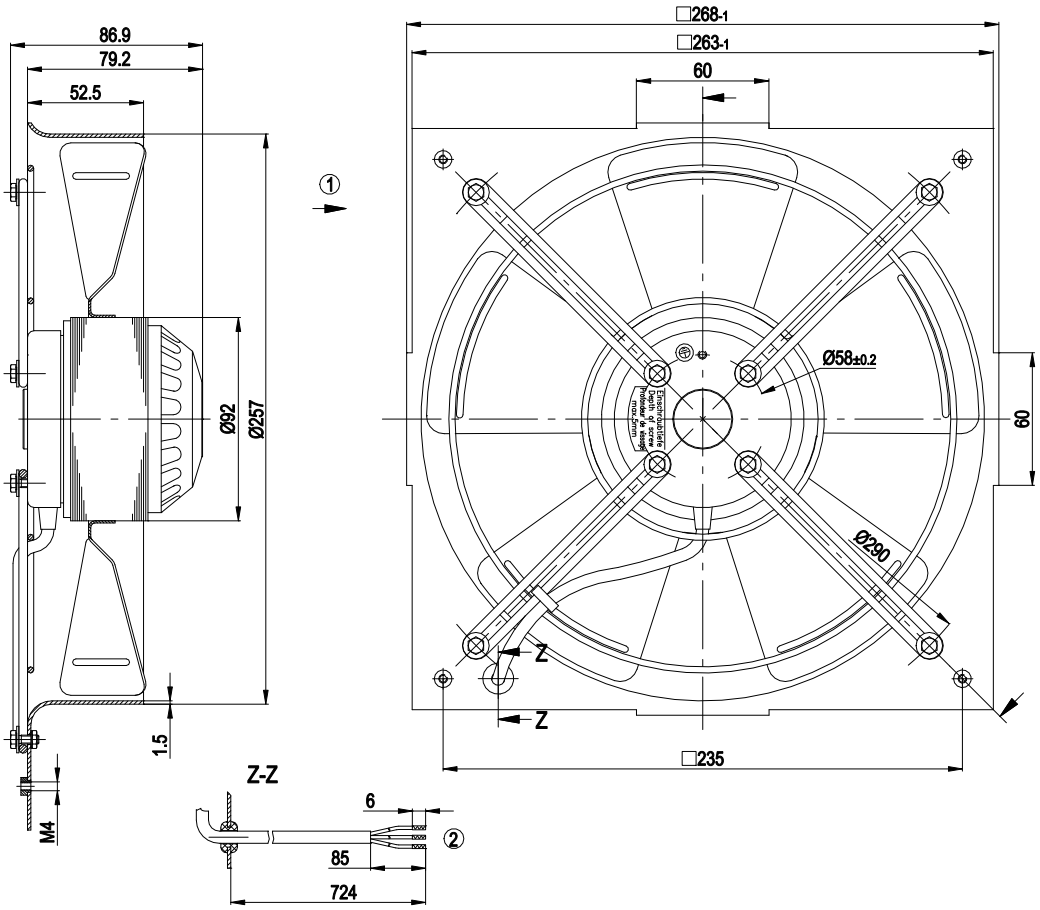
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Product drawing



1	Direction of air flow "A"
2	Cable PVC 3x 0.5 mm², 3x crimped splices

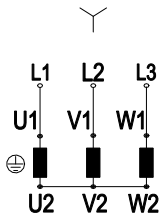
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Connection diagram



Note: Change of rotation direction by reversing two phases

Y	Star connection	L1	black	L2	blue
L3	brown	U1	black	V1	blue
W1	brown	U2	green	V2	white
W2	yellow				

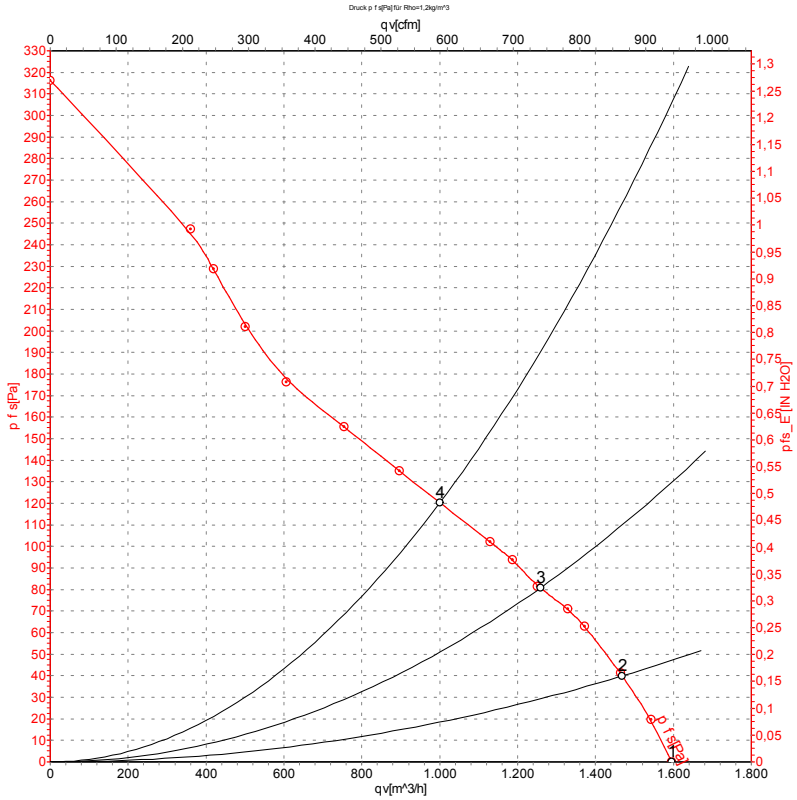
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Curves: Air performance 50 Hz



Measurement: LU-7735-1

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	in. wg
1	380	50	2550	110	0.19	1595	0	940	0.00
2	380	50	2510	112	0.20	1470	40	865	0.16
3	380	50	2490	116	0.21	1260	80	740	0.32
4	380	50	2455	119	0.21	1000	120	590	0.48

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

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