

# 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 <sup>-1</sup>	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

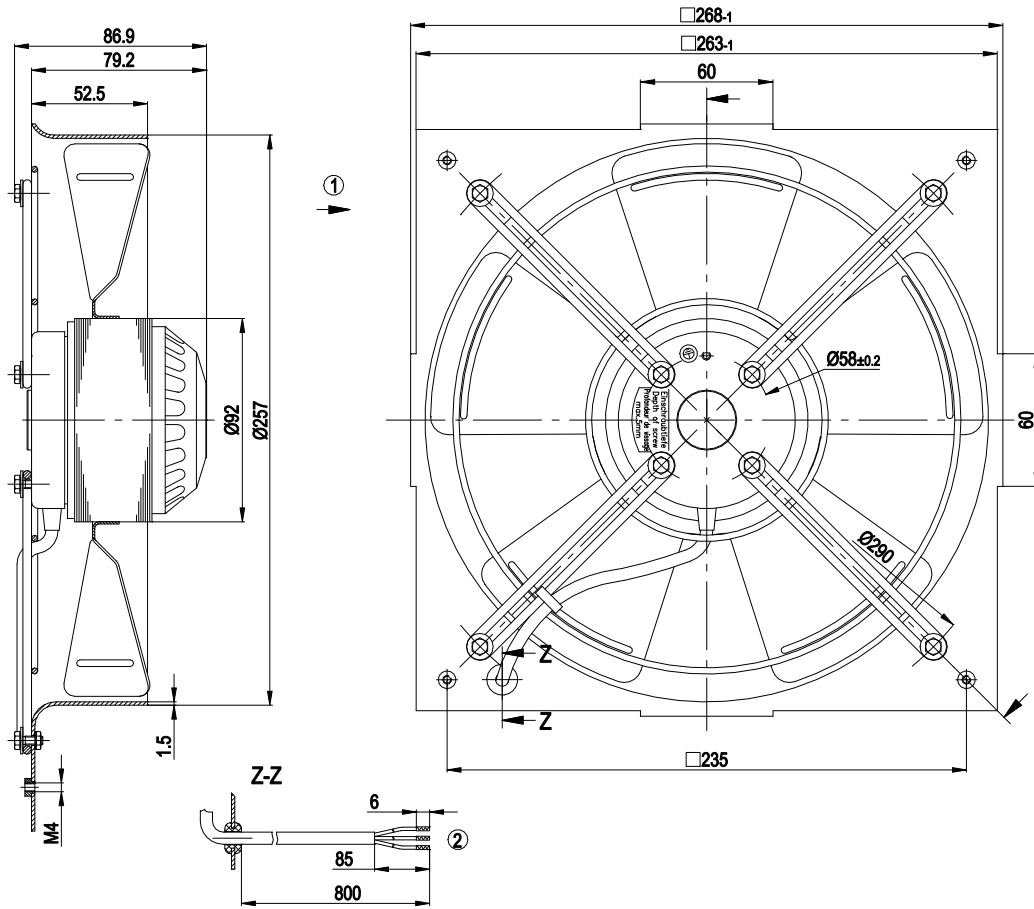
<b>Weight</b>	2.9 kg
<b>Fan size</b>	250 mm
<b>Rotor surface</b>	Painted black
<b>Impeller material</b>	Sheet steel, painted black
<b>Support ring material</b>	Steel, phosphated and coated with black plastic
<b>Fan housing material</b>	Sheet steel, galvanized
<b>Number of blades</b>	5
<b>Airflow direction</b>	"A"
<b>Direction of rotation</b>	Clockwise, viewed toward rotor
<b>Degree of protection</b>	IP44; installation- and position-dependent
<b>Insulation class</b>	"B"
<b>Moisture (F) / Environmental (H) protection class</b>	H1
<b>Max. permitted ambient temp. for motor (transport/storage)</b>	+ 80 °C
<b>Min. permitted ambient temp. for motor (transport/storage)</b>	- 40 °C
<b>Installation position</b>	Any
<b>Condensation drainage holes</b>	None
<b>Mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)</b>	< 0.75 mA
<b>With cable</b>	Lateral
<b>Conformity with standards</b>	EN 60335-1; CE
<b>Approval</b>	CCC



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Product drawing



1	Direction of air flow "A"
2	Cable PVC 3x 0.5 mm <sup>2</sup> , 3x crimped splices

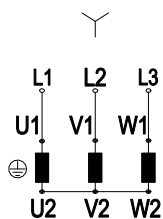


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## Connection diagram



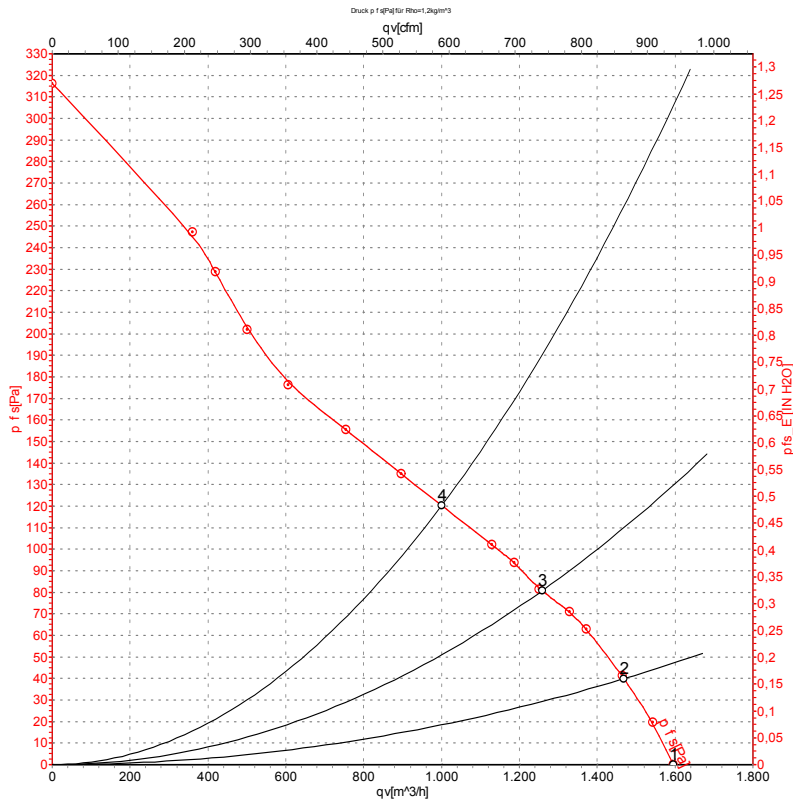
Note: Change of rotation direction by reversing two phases

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 <sub>e</sub>	I	q <sub>V</sub>	P <sub>fs</sub>	q <sub>V</sub>	P <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /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 = Power supply · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power consumption · I = Current draw · q<sub>V</sub> = Air flow · P<sub>fs</sub> = Pressure increase

