

AC axial fan

straight blades (A series)

Fan housing with guard grille

W2D250-GA02-11 ebmpapst Datasheet

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Nominal data

Type	W2D250-GA02-11	
Motor	M2D068-DF	
Phase		3~
Nominal voltage	VAC	400
Wiring		Y
Frequency	Hz	50
Method of obtaining data		fa
Valid for approval/standard		CE
Speed (rpm)	min ⁻¹	2700
Power consumption	W	112
Current draw	A	0.23
Max. back pressure	Pa	280
Max. back pressure	inH ₂ O	1.12
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60
Starting current	A	0.78

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

Data according to ErP Directive

		Actual	Req. 2015
01 Overall efficiency η_{es}	%	28.1	28.1
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		40	40
05 Variable speed drive		No	

Data obtained at optimum efficiency level.

The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

09 Power consumption P_e	kW	0.13
09 Air flow q_v	m ³ /h	1050
09 Pressure increase p_{fs}	Pa	121
10 Speed (rpm) n	min ⁻¹	2600
11 Specific ratio*		1.00

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

LU-69121



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Technical description

Weight	3.2 kg
Fan size	250 mm
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Fan housing material	Sheet steel, pre-galvanized and coated with black plastic (RAL 9005)
Guard grille material	Steel, coated with black plastic (RAL 9005)
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F2-2
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Lateral
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE

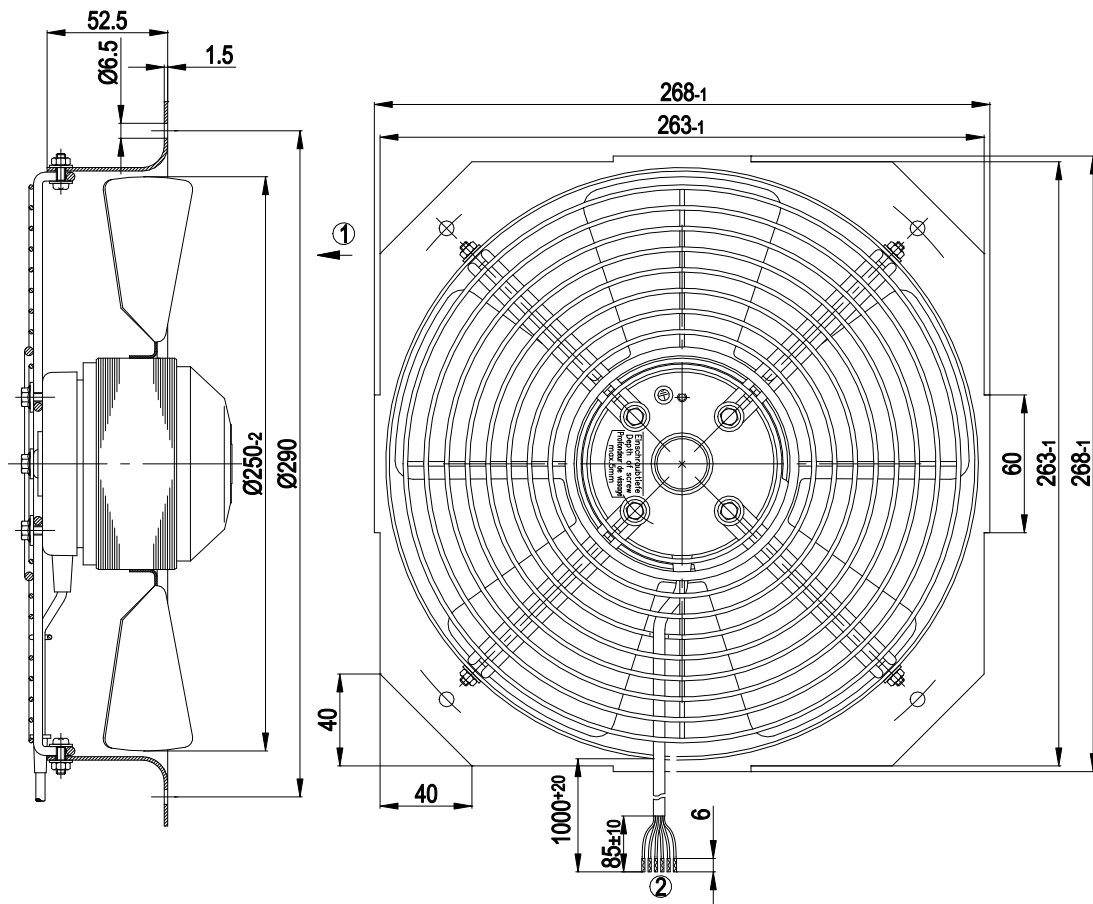


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Product drawing



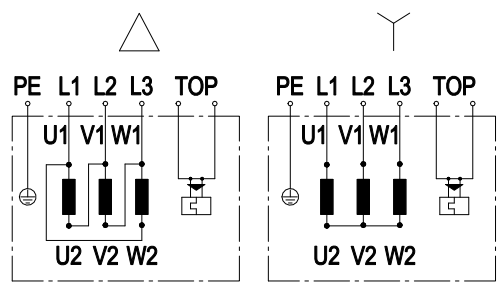
- | | |
|---|--|
| 1 | Direction of air flow "V" |
| 2 | Cable Dipotherm 0.5 mm ² , 6x crimped splices |



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Connection diagram



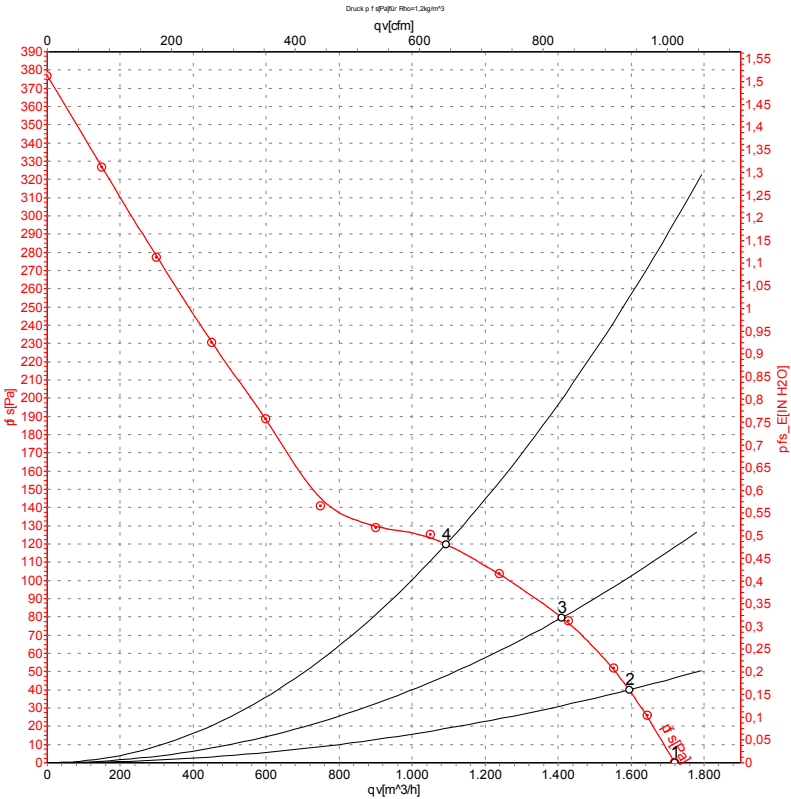
Note: Change of rotation direction by reversing two phases

Y	Star connection	Δ	Delta connection	L1	black
L2	blue	L3	brown	TOP	2x gray
PE	green/yellow				



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Curves: Air performance 50 Hz Y



Measurement: LU-69121-1

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

	Wired	U	f	n	P _e	I	qv	p _{fs}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	CFM	inH ₂ O
1	Y	400	50	2650	110	0.22	1720	0	1010	0.00
2	Y	400	50	2620	126	0.23	1595	40	940	0.16
3	Y	400	50	2600	131	0.24	1410	80	830	0.32
4	Y	400	50	2595	131	0.24	1090	120	645	0.48

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

