

W2D250-HJ02-07 ebmpapst Datasheet

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Nominal data

Type	W2D250-HJ02-07	
Motor	M2D068-DC	
Phase		3~
Nominal voltage	VAC	400
Connection		Y
Frequency	Hz	50
Type of data definition		cs
Valid for approval / standard		CE
Speed	min ⁻¹	2500
Power input	W	150
Current draw	A	0.27
Max. back pressure	Pa	140
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Data according to ErP directive

Installation category	A
Efficiency category	Static
Variable speed drive	No
Specific ratio*	1.00

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

		Actual	Request 2013	Request 2015
Overall efficiency η_{es}	%	28.4	24.3	28.3
Efficiency grade N		40.1	36	40
Power input P_e	kW	0.14		
Air flow q_v	m ³ /h	1450		
Pressure increase p_{fs}	Pa	100		
Speed n	min ⁻¹	2530		

Data definition with optimum efficiency.
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.

LU-51572



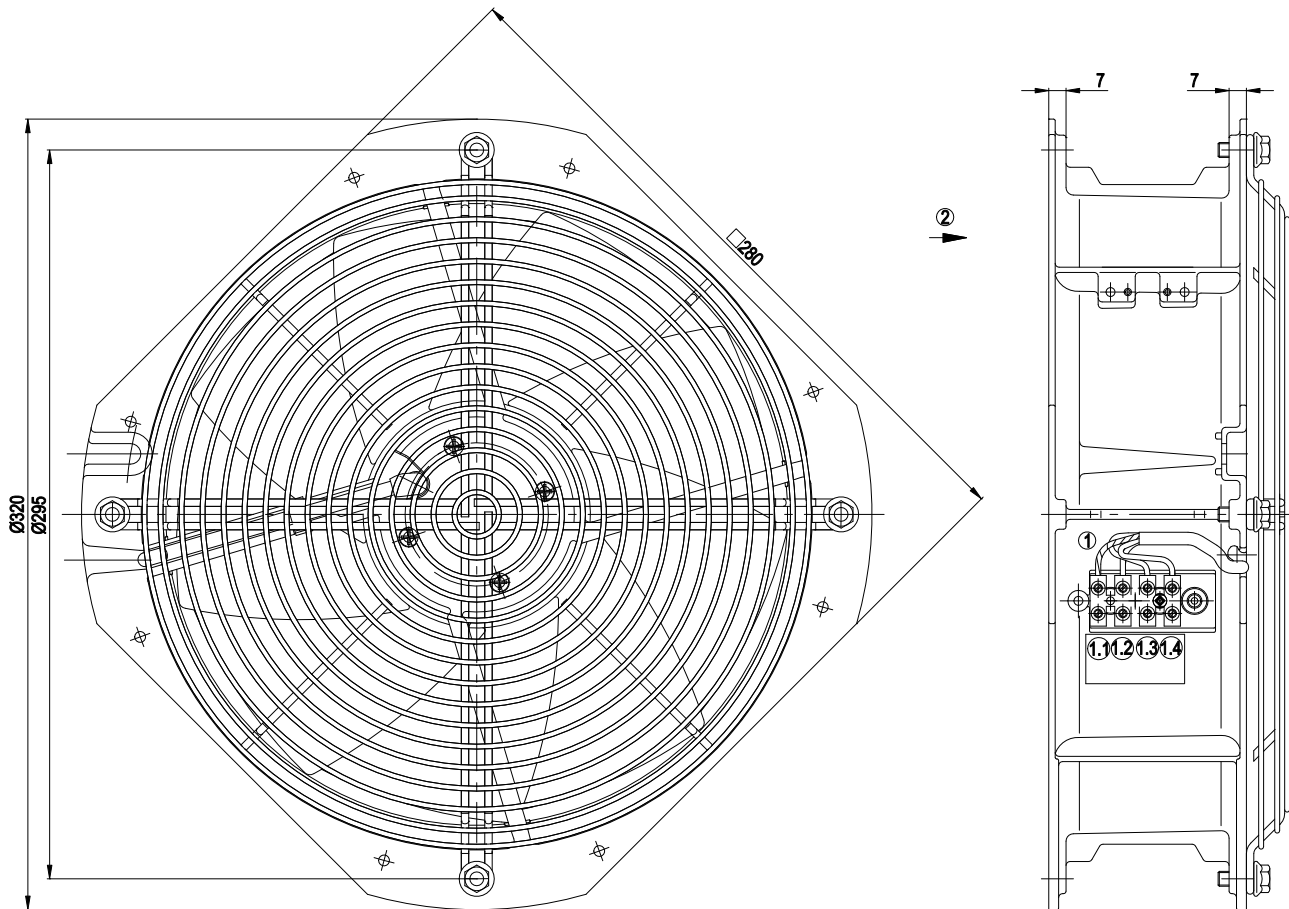
Technical features

Mass	3.4 kg
Size	250 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Material of wall ring	Die-cast aluminium
Material of guard grille	Steel, phosphated and plastic-coated in white aluminium (RAL 9006)
Number of blades	7
Direction of air flow	"V"
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
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Cable exit	Axial
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1
Approval	CSA C22.2 Nr.100; UL 1004-1

AC axial compact fan

sickled blades (S series), single inlet

Product drawing

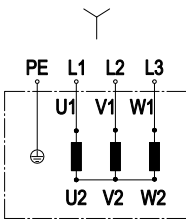


1	Connection line PVC 4G AWG20, 4x brass lead tips crimped
1.1	PE (green / yellow)
1.2	L1=U1 (black)
1.3	L2=V1 (blue)
1.4	L3=W1 (brown)
2	Direction of air flow "V"

AC axial compact fan

sickled blades (S series), single inlet

Connection screen



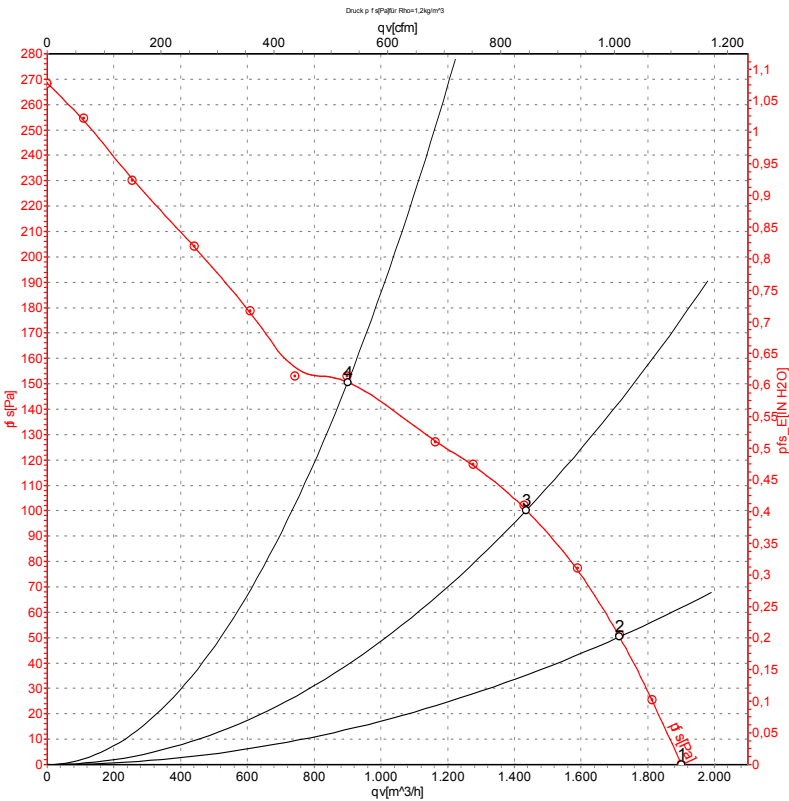
Change direction of rotation by reversing two phases

	Three-phase motor	Y	Star connection	L1	black
L2	blue	L3	brown	PE	green/yellow



AC axial compact fan
sickled blades (S series), single inlet

Charts: Air flow 50 Hz



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: L_{WA} measured as per ISO 13347 /
L_{pA} 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	m³/h	Pa
1	400	50	2660	115	0.23	1900	0
2	400	50	2610	129	0.25	1715	50
3	400	50	2545	146	0.27	1435	100
4	400	50	2470	164	0.29	900	150

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

