W2D250-CH14-15

AC axial fan

sickle-shaped blades (S series)

Fan housing with guard grille



ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Limited partnership · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	**W2D250-CH14-15**
Motor	**M2D068-CC**

Phase		3~
Nominal voltage	VAC	460
Wiring		Y
Frequency	Hz	60
Method of obtaining data		fa
Valid for approval/standard		CE
Speed (rpm)	min^{-1}	2750
Power consumption	W	160
Current draw	A	0.23
Max. back pressure	Pa	120
Max. back pressure	inH2O	0.48
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

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	3.1 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)
Number of blades	7
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	F5
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
Approval	UL 1004-1; CSA C22.2 No. 100

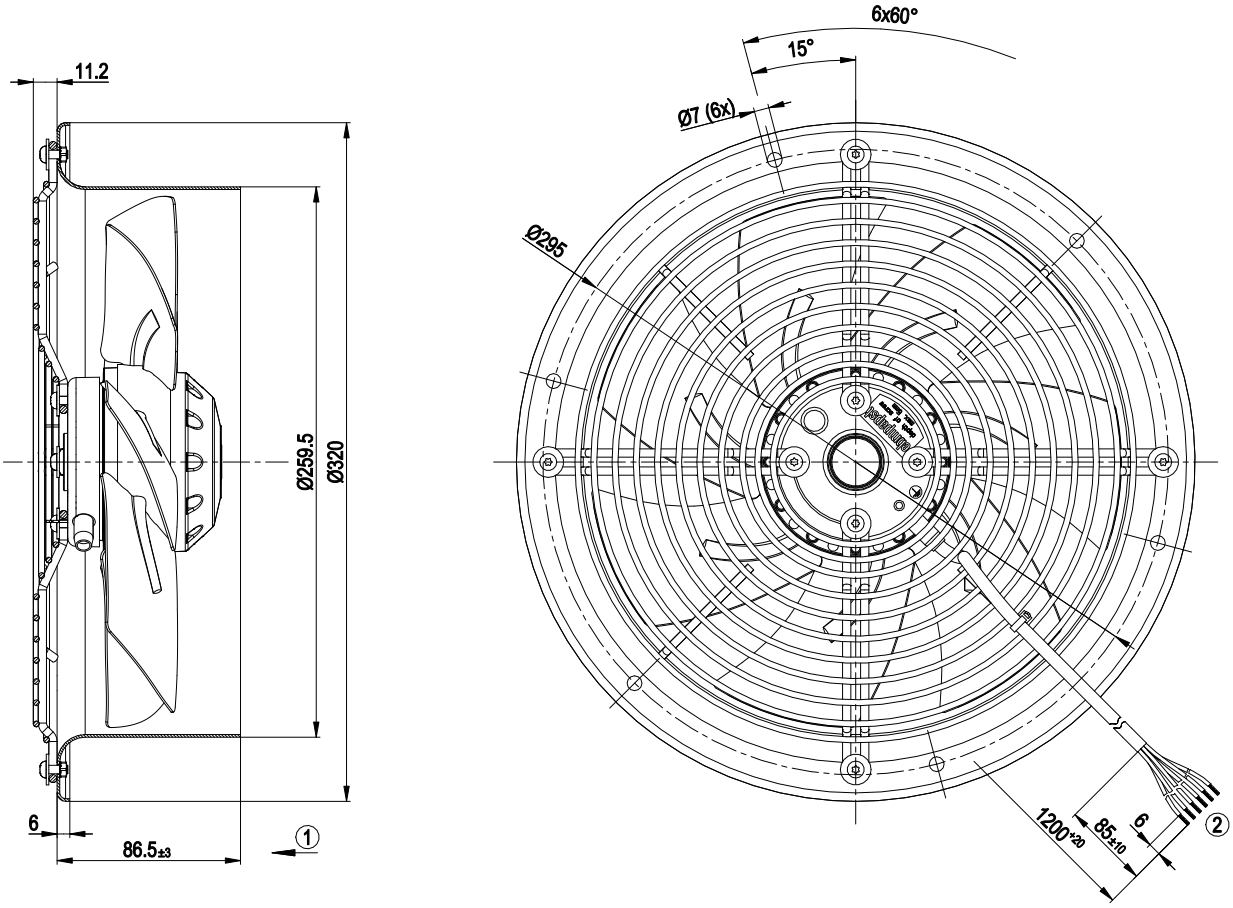
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Product drawing



1	Direction of air flow "V"
2	Cable PFA AWG20, 4x crimped splices

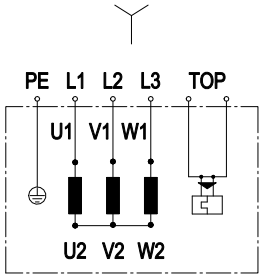
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Connection diagram



Note: Change of rotation direction by reversing two phases

Y	Star connection	L1	= U1 = black	L2	= V1 = blue
L3	= W1 = brown	PE	green/yellow	TOP	2x gray

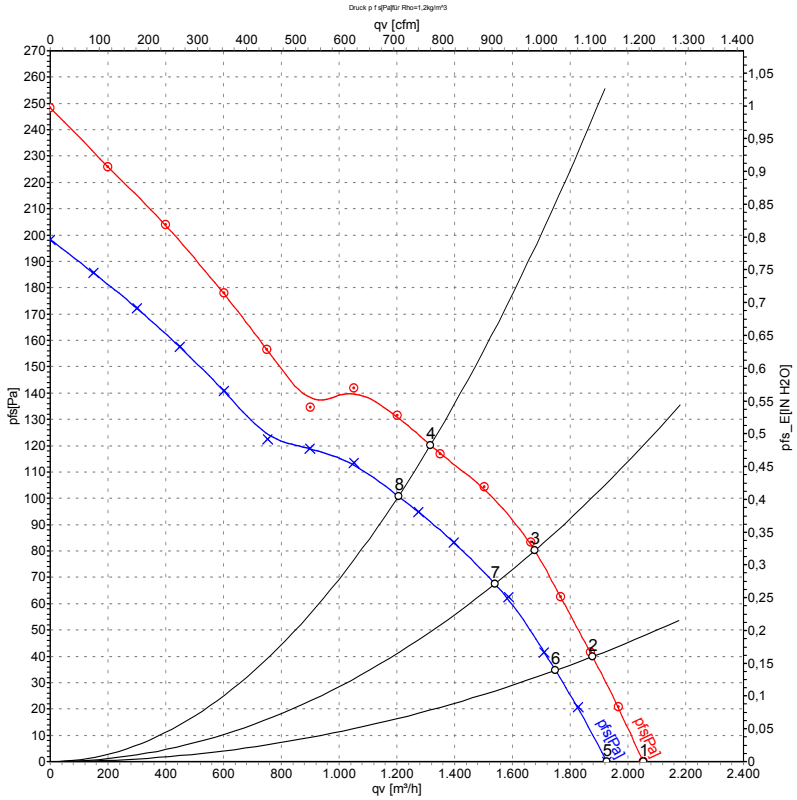
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Curves: Air performance 60 Hz Y



Measurement: LU-76489-1
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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	m^3/h	Pa	CFM	inH2O
1	Y	460	60	2750	160	0.23	2055	0	1210	0.00
2	Y	460	60	2690	165	0.24	1875	40	1105	0.16
3	Y	460	60	2600	177	0.25	1675	80	985	0.32
4	Y	460	60	2515	187	0.26	1315	120	775	0.48
5	Y	400	60	2580	140	0.22	1925	0	1135	0.00
6	Y	400	60	2500	145	0.23	1750	35	1030	0.14
7	Y	400	60	2405	154	0.24	1540	68	905	0.27
8	Y	400	60	2310	161	0.26	1205	100	710	0.40

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

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