W2D250-CA06-52

AC axial fan

straight blades (A series)

with round full nozzle

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Nominal data

Type	**W2D250-CA06-52**
Motor	**M2D068-DF**

Phase		3~	3~
Nominal voltage	VAC	265	460
Wiring		Δ	Y
Frequency	Hz	60	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min^{-1}	2900	2900
Power consumption	W	150	150
Current draw	A	0.38	0.22
Max. back pressure	Pa	125	125
Max. back pressure	inH2O	0.5	0.5
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	65	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	3.4 kg
Fan size	250 mm
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Fan housing material	Sheet steel, galvanized and coated with black plastic (RAL 9005)
Guard grille material	Steel, coated with black plastic (RAL 9005)
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	H0+
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	None
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

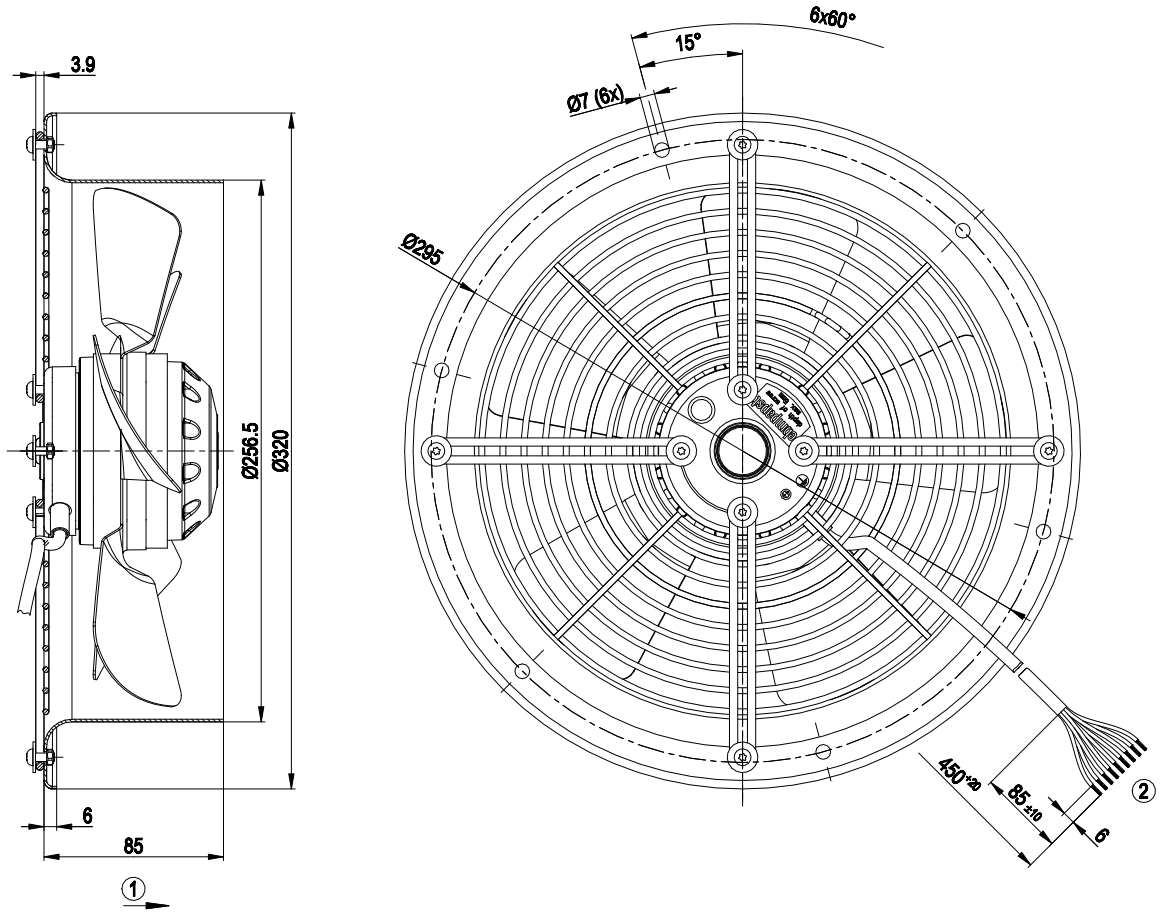
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Product drawing



1	Direction of air flow "A"
2	Cable PVC AWG20, 9x crimped splices

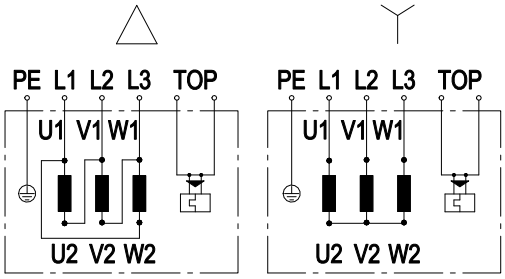
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Connection diagram



Change of rotation direction by reversing two phases

	Three-phase motor	Y	Star connection	Δ	Delta connection
L1	= U1 = black 2	L2	= V1 = black 1	L3	= W1 = black 3
V2	= black 4	U2	= black 5	W2	= black 6
TOP	2x yellow	PE	green/yellow		

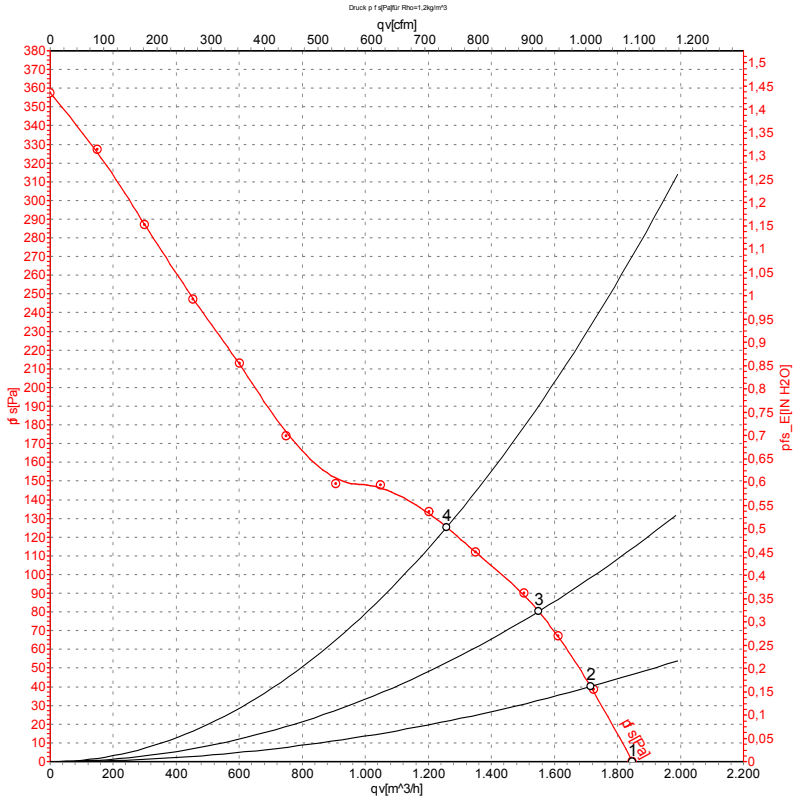
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Curves: Air performance 60 Hz



Measurement: LU-110509-1

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	m^3/h	Pa	CFM	inH2O
1	Y	460	60	2900	150	0.22	1850	0	1090	0.00
2	Y	460	60	2835	160	0.23	1715	40	1010	0.16
3	Y	460	60	2800	166	0.23	1550	80	910	0.32
4	Y	460	60	2765	172	0.24	1260	125	740	0.50

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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