

W2D250-EA26-21

AC axial fan

for forced ventilation



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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	W2D250-EA26-21		
Motor	M2D068-DF		
Phase		3~	3~
Nominal voltage	VAC	400	480
Wiring		Y	Y
Frequency	Hz	50	60
Method of obtaining data		cs	cs
Valid for approval/standard		-	-
Speed (rpm)	min ⁻¹	2520	2920
Power consumption	W	140	220
Current draw	A	0.25	0.30
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	100	75

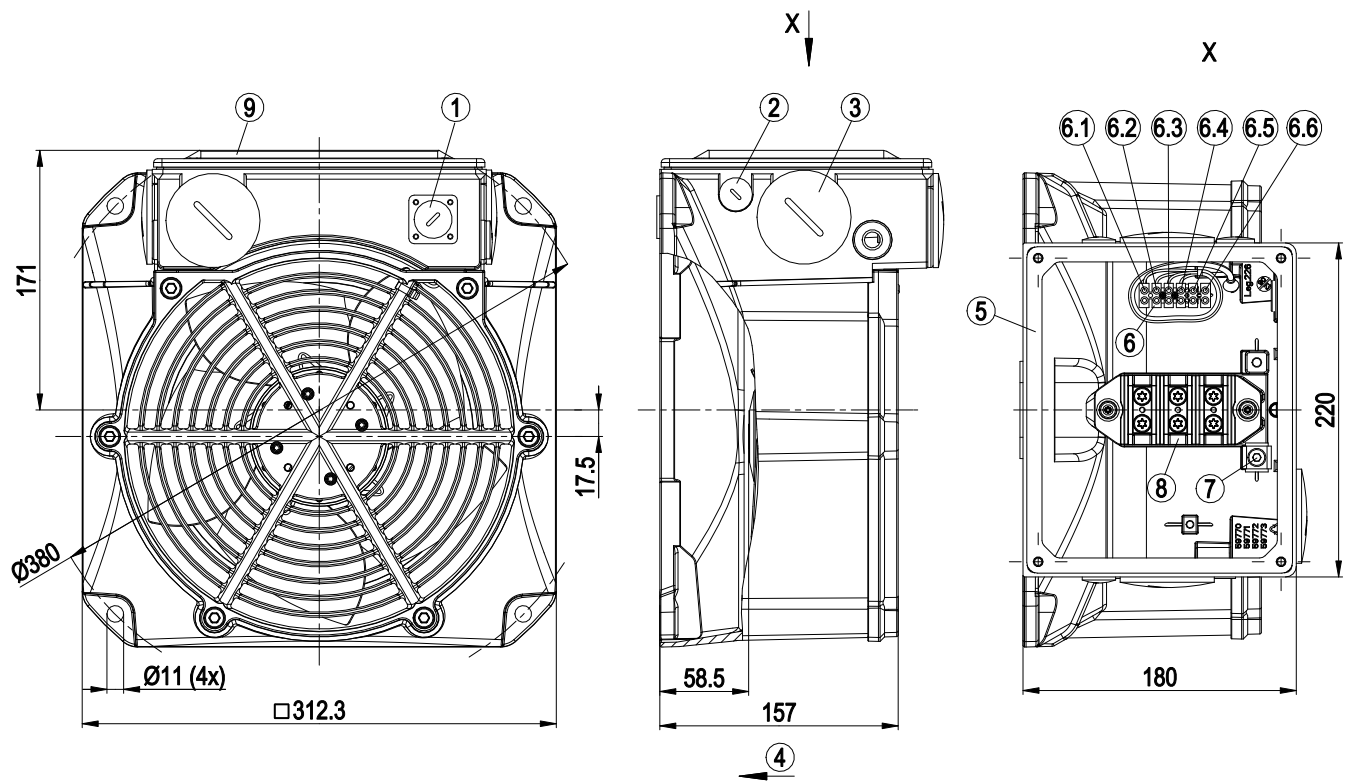
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



Technical description

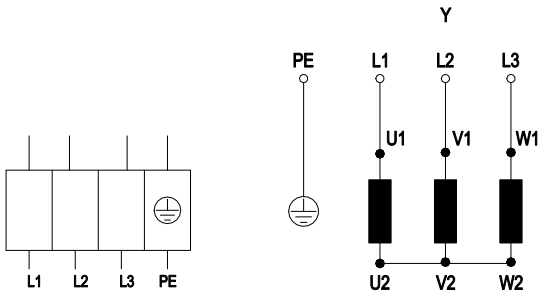
Weight	5.95 kg
Size	250 mm
Motor size	68
Rotor surface	Painted black
Impeller material	Sheet steel, painted black
Housing material	Die-cast aluminum, painted black
Guard grille material	Die-cast aluminum
Number of blades	5
Airflow direction	A; BS-AS
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H1+
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Shaft horizontal
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
With cable	Lateral
Protection class assignment	I; If a protective earth is connected by the customer This component for installation may have several local protection classes. This information relates to this component's basic design. The final protection class is based on the component's intended installation and connection.
Conformity with standards	EN 60034-1; EN 60204-1; EN 60335-1, motor not provided with overheating protection at the factory
Approval	CSA C22.2 No. 100; UL 1004-1

Product drawing



1	Screw plug PG 13.5 (2x); tightening torque 1.9 Nm
2	Screw plug PG 11 (2x); tightening torque 1.9 Nm
3	Screw plug PG 42 (3x); tightening torque 3.9 Nm
4	Direction of air flow "A", BS-AS
5	Shown without housing cover
6	Terminal strip
6.1	L1
6.2	L2
6.3	L3
6.4	PE
6.5	not used
6.6	not used
7	PE connection point
8	Connection board for customer
9	Housing cover is included separately without screws

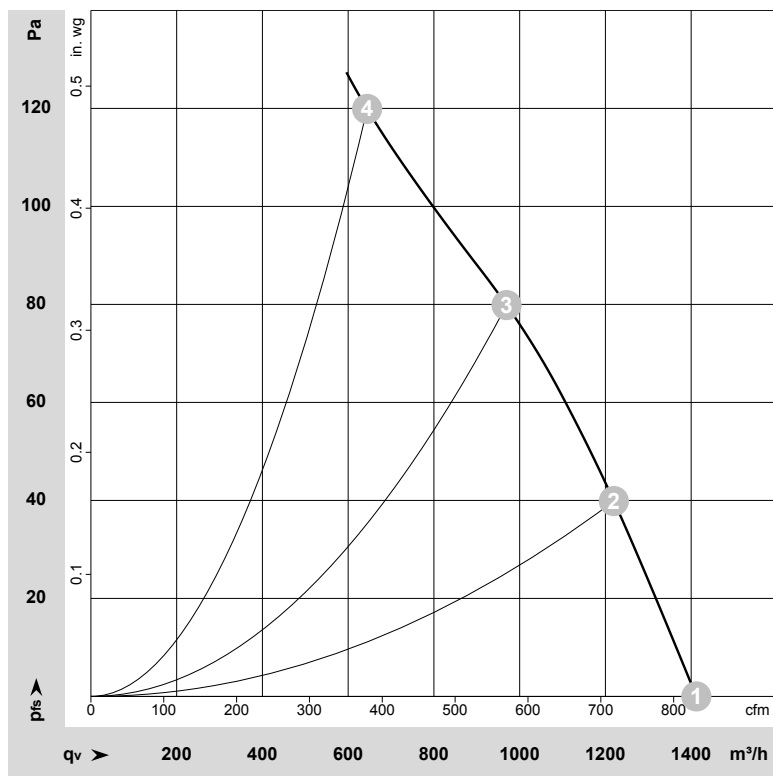
Connection diagram



Y	Star connection	L1	black	L2	blue
L3	brown	PE	green/yellow		



Curves: Air performance 50 Hz



$$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$$

Measurement: LU-29991-1

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.

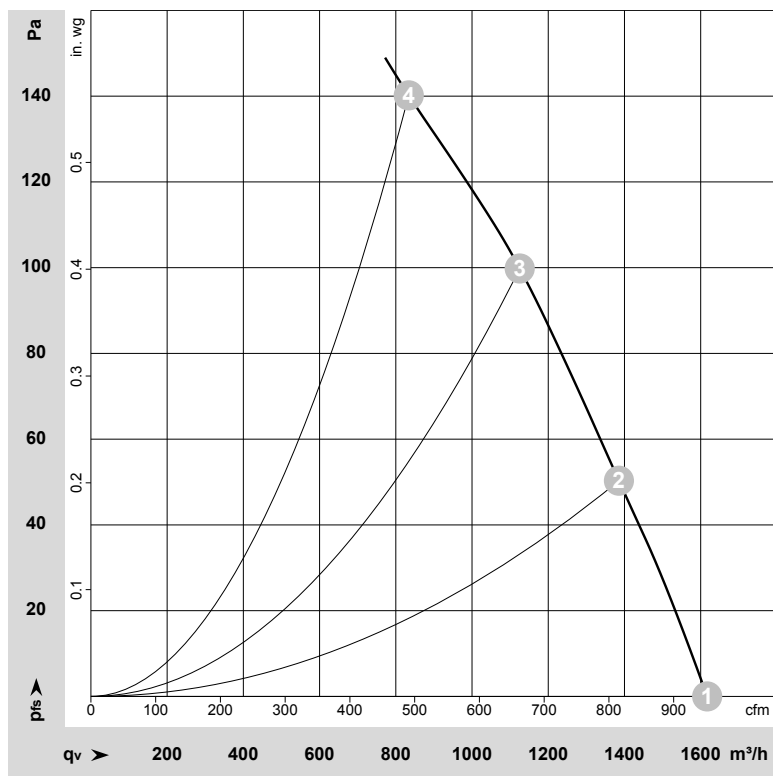
Measured values

	U	f	n	P _e	I	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa	cfm	in. wg
1	400	50	2520	140	0.25	1410	0	830	0.00
2	400	50	2565	137	0.24	1220	40	720	0.16
3	400	50	2570	135	0.24	970	80	570	0.32
4	400	50	2565	137	0.24	645	120	380	0.48

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



Curves: Air performance 60 Hz



$$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$$

Measurement: LU-29992-1

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 _e	I	q _v	p _{fs}	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa	cfm	in. wg
1	460	60	2950	205	0.29	1615	0	950	0.00
2	460	60	2920	209	0.29	1385	50	815	0.20
3	460	60	2925	208	0.29	1125	100	660	0.40
4	460	60	2925	207	0.29	835	140	490	0.56

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