

AC axial fan

sickle-shaped blades (S series)
for forced ventilation

W2D225-EA18-15 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Nominal data

Type	W2D225-EA18-15			
Motor	M2D068-CF			
Phase		3~	3~	3~
Nominal voltage	VAC	400	400	480
Wiring		Y	Y	Y
Frequency	Hz	50	60	60
Method of obtaining data		ce	ce	ce
Valid for approval/standard		CE	CE	CE
Speed (rpm)	min ⁻¹	2300	2350	2650
Power consumption	W	75	100	120
Current draw	A	0.13	0.16	0.16
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	110	100	95
Starting current	A	0.30	0.30	0.35

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



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Technical description

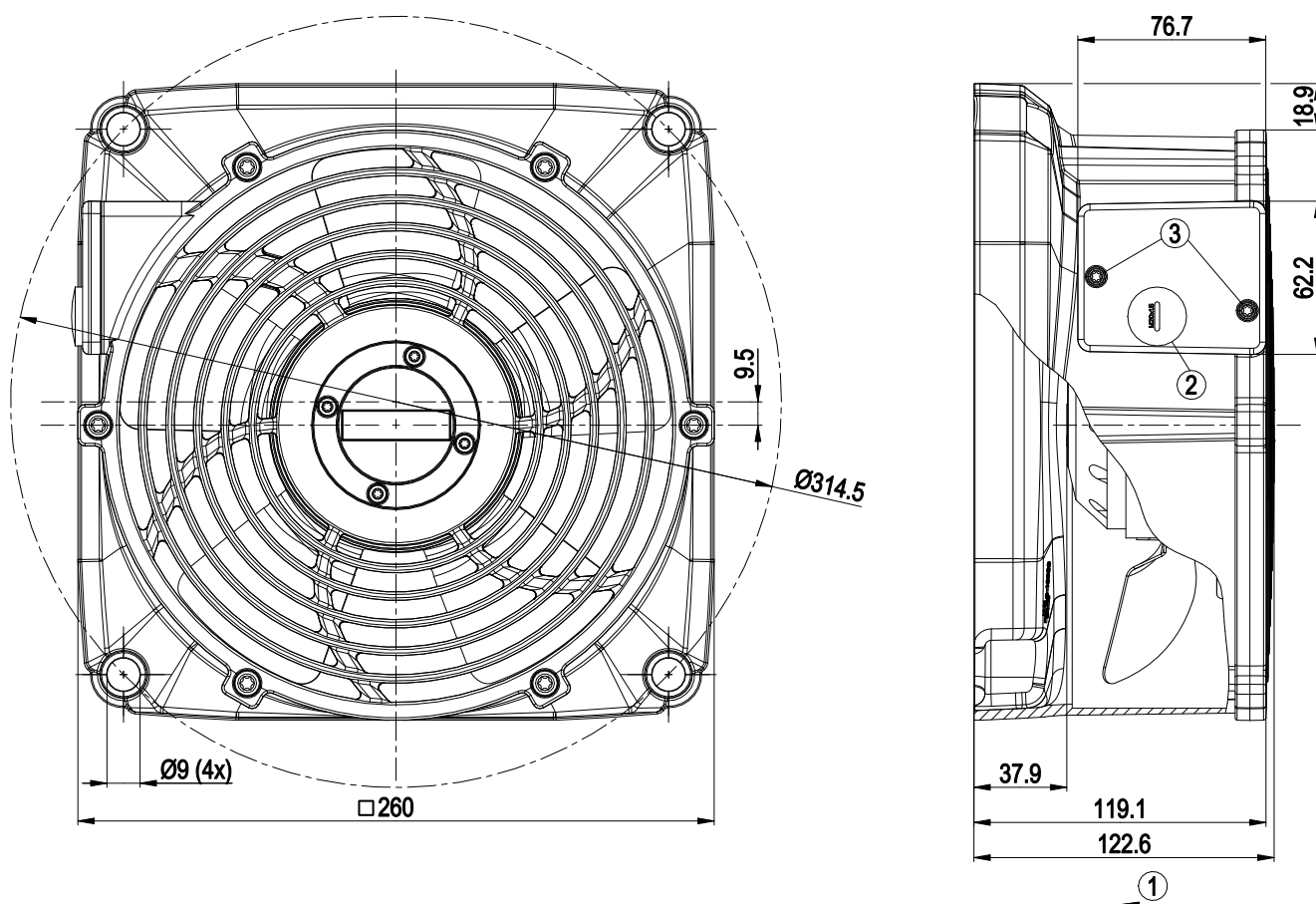
Weight	3.8 kg
Size	225 mm
Motor size	68
Rotor surface	Painted black
Terminal box material	Die-cast aluminum
Impeller material	Sheet steel, painted black
Housing material	Die-cast aluminum
Guard grille material	Die-cast aluminum
Number of blades	5
Airflow direction	A
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP55
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 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
With cable	Lateral
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1, motor does not have factory-installed overheating protection; CE
Approval	UL 1004-1; CSA C22.2 No. 100



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Product drawing



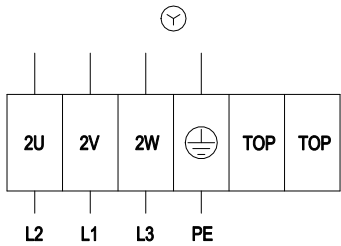
1	Direction of air flow "A"
2	Screw plug M20 x 1.5
3	Tightening torque 1.6±0.2 Nm



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Connection diagram



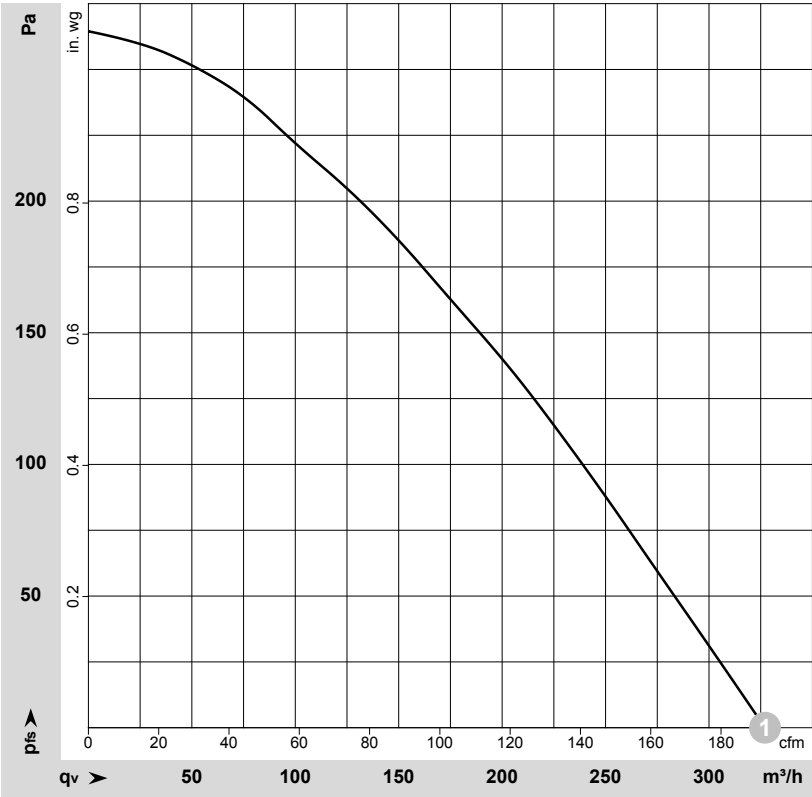
Y	Star connection, three-phase motor
L1	black
L2	blue
L3	brown
PE	Green/yellow
TOP	not used



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Curves: Air performance 50 Hz



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

Measurement: LU-106680-1

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

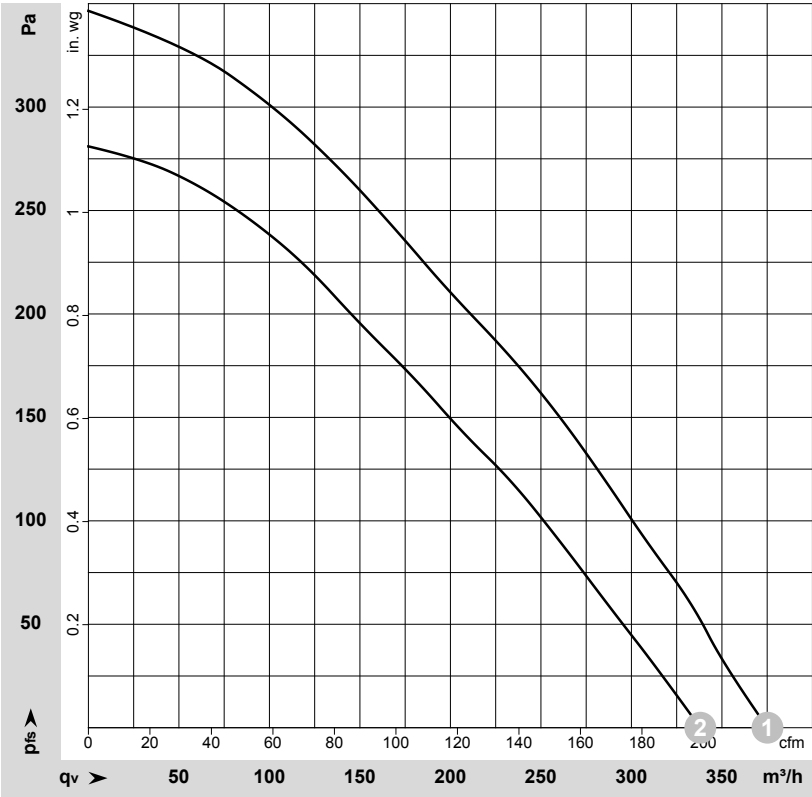
	U	f	n	P _e	I	q _v	q _v	P _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	cfm	in. wg
1	400	50	2300	75	0.13	325	190	0.00

U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow



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Curves: Air performance 60 Hz



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

Measurement: LU-106683-1
Measurement: LU-106681-1

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	q _v	p _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	cfm	in. wg
1	480	60	2650	120	0.16	375	220	0.00
2	400	60	2350	100	0.16	340	200	0.00

U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow

