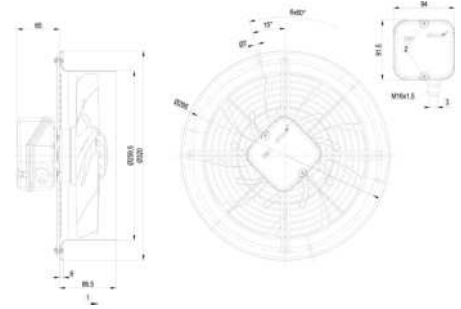


KARTA KATALOGOWA

W2D250-CI14-09

Wentylator osiowy AC, łopatki sierpowe (seria S), obudowa, z kratką ochronną

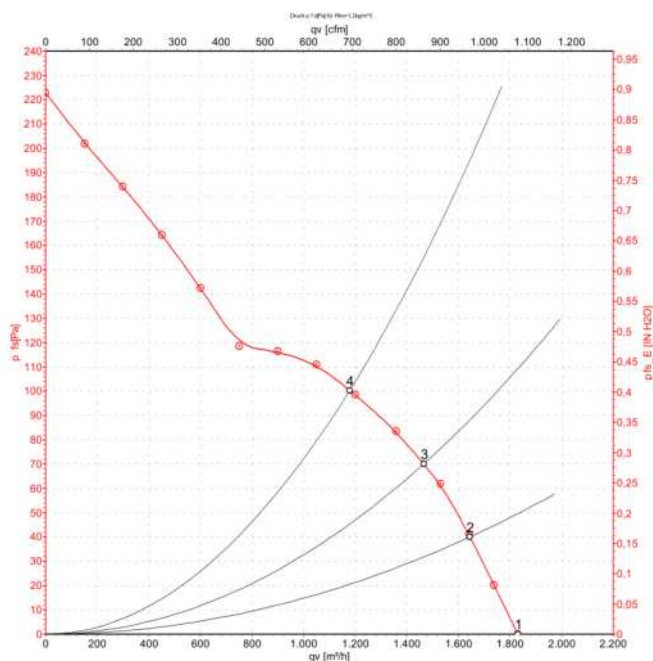
Producent: ebm-papst



Dane znamionowe		Budowa	
Napięcie znamionowe	3~ 208 / 220 / 220 / 230 V	Wielkość	250 mm
Połączenie	Δ	Silnik	M2D068-CF
Częstotliwość	60 / 50 / 60 / 50 Hz	Materiał wirnika	blacha stalowa malowana na czarno
Prędkość obrotowa	2350 / 2370 / 2440 / 2460 obr/min	Obudowa	blacha stalowa ocynkowana, powlekana czarnym tworzywem (RAL 9005)
Pobór mocy	128 / 102 / 135 / 110 W	Kratka ochronna	stal powlekana czarnym tworzywem (RAL 9005)
Pobór prądu	0,40 / 0,33 / 0,40 / 0,33 A	Liczba łopatek	9
Maks. przeciwnieśnienie	84 / 93 / 93 / 100 Pa	Kierunek obrotów	w lewo, patrząc na wirnik
Temperatura otoczenia	min. -25 °C; maks. 60 / 80 / 60 / 80 °C	Stopień ochrony	IP44
		Klasa izolacji	F
		Łożyskowanie	kulkowe
		Podłączenie	skrzynka zaciskowa
		Masa	3,3 kg

Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz Y



Measurement: LU-76487-1

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.

Dane na okładce wg karty katalogowej producenta ebm-papst (oryginał na kolejnych stronach).
Wartości przy swobodnym wydmuchu; producent zastrzega możliwość zmian.

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W2D250-CI14-09

AC axial fan

sickle-shaped blades (S series)

Fan housing with guard grille

ebm-papst Mulfingen GmbH & Co. KG

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Nominal data

Type	W2D250-CI14-09										
Motor	M2D068-CF										
Phase		3~	3~	3~	3~	3~	3~	3~	3~	3~	3~
Nominal voltage	VAC	208	220	220	230	230	265	360	380	380	400
Wiring		Δ	Δ	Δ	Δ	Δ	Δ	Y	Y	Y	Y
Frequency	Hz	60	50	60	50	60	60	60	50	60	50
Method of obtaining data		fa	fa	fa	fa	fa	fa	fa	fa	fa	fa
Valid for approval/standard		CE	CE	CE	CE	CE	CE	CE	CE	CE	CE
Speed (rpm)	min ⁻¹	2350	2370	2440	2460	2580	2750	2350	2370	2440	2460
Power consumption	W	128	102	135	110	140	160	128	102	135	110
Current draw	A	0.40	0.33	0.40	0.33	0.38	0.40	0.23	0.19	0.23	0.19
Max. back pressure	Pa	84	93	93	100	100	120	84	93	93	100
Max. back pressure	inH ₂ O	0.34	0.37	0.37	0.4	0.4	0.48	0.34	0.37	0.37	0.4
Min. ambient temperature	°C	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25
Max. ambient temperature	°C	60	80	60	80	60	60	60	80	60	80

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



W2D250-CI14-09

AC axial fan

sickle-shaped blades (S series)

Fan housing with guard grille

Technical description

Weight	3.3 kg
Fan size	250 mm
Rotor surface	Painted black
Terminal box material	ABS plastic
Blade material	Sheet steel, painted black
Fan housing material	Sheet steel, pre-galvanized, primed and coated with black plastic (RAL 9005)
Guard grille material	Steel, coated with black plastic (RAL 9005)
Number of blades	9
Airflow direction	"A"
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	F2-2
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
Electrical hookup	Via terminal box
With cable	Axial
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

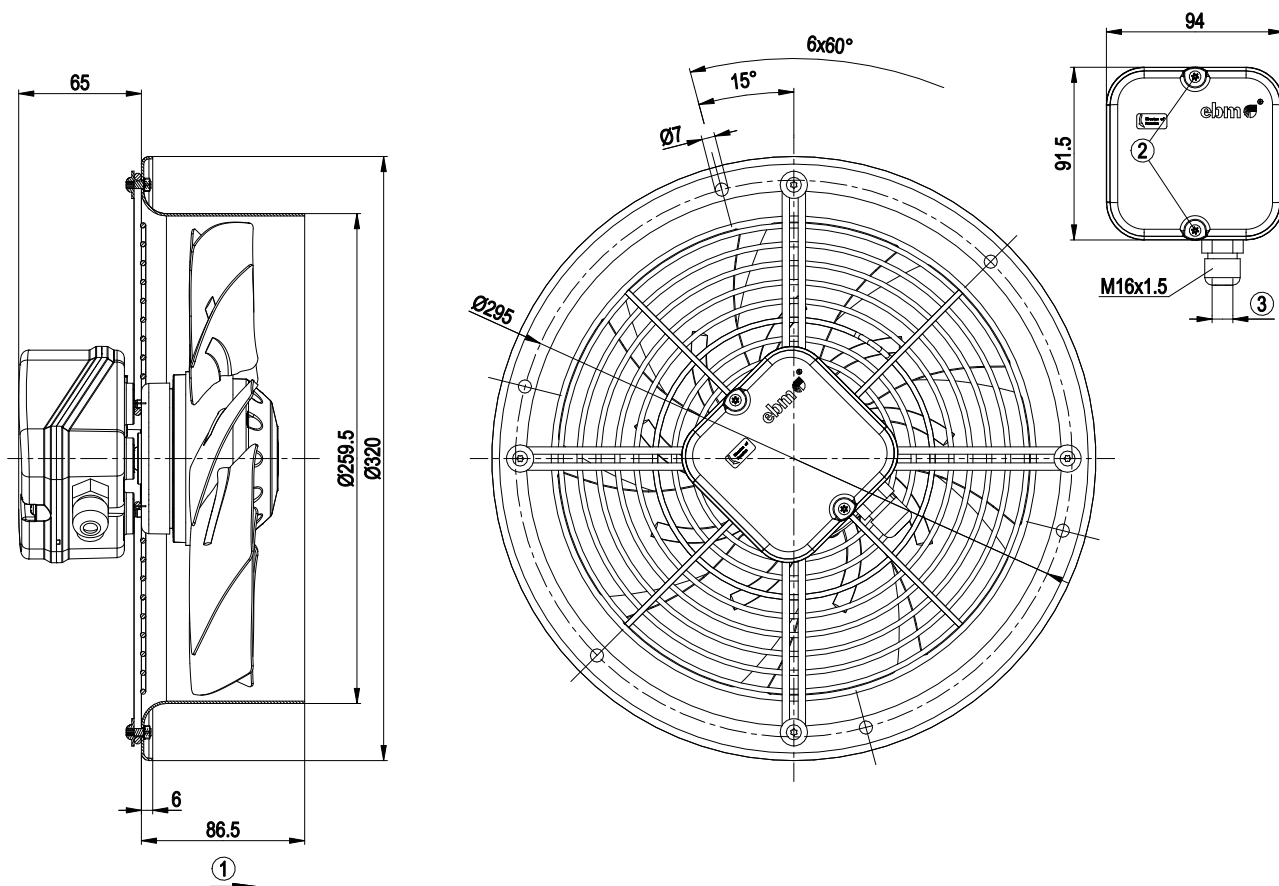
W2D250-CI14-09

AC axial fan

sickle-shaped blades (S series)

Fan housing with guard grille

Product drawing



1	Direction of air flow "A"
2	Tightening torque 0.5 ± 0.1 Nm
3	Cable diameter: max. 10 mm, tightening torque 1.3 ± 0.2 Nm

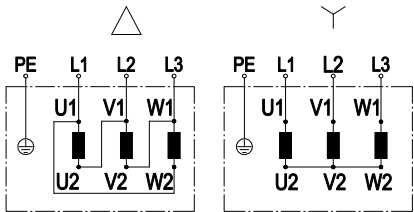
W2D250-CI14-09

AC axial fan

sickle-shaped blades (S series)

Fan housing with guard grille

Connection diagram



Change of rotation direction by reversing two phases

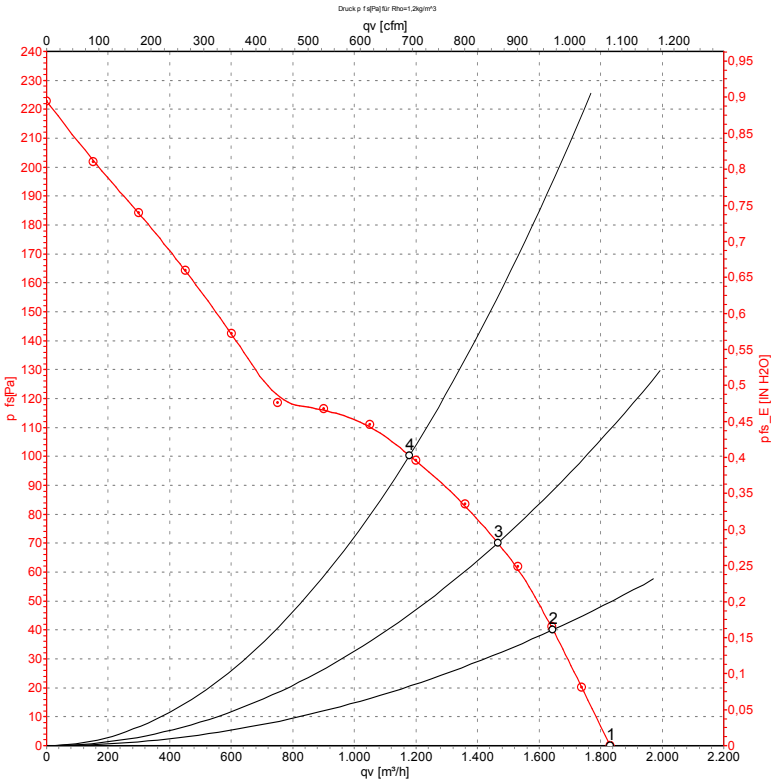
	Three-phase motor	Δ	Delta connection	Y	Star connection
L1	= U1 = black	L2	= V1 = blue	L3	= W1 = brown
U2	green	V2	white	W2	yellow
PE	green/yellow				



W2D250-CI14-09

AC axial fan
sickle-shaped blades (S series)
Fan housing with guard grille

Curves: Air performance 50 Hz Y



Measurement: LU-76487-1

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	q _V	P _{fs}	q _V	P _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	inH2O
1	Y	400	50	2460	110	0.19	1830	0	1080	0.00
2	Y	400	50	2395	113	0.20	1645	40	970	0.16
3	Y	400	50	2350	120	0.21	1465	70	865	0.28
4	Y	400	50	2290	126	0.22	1180	100	695	0.40

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



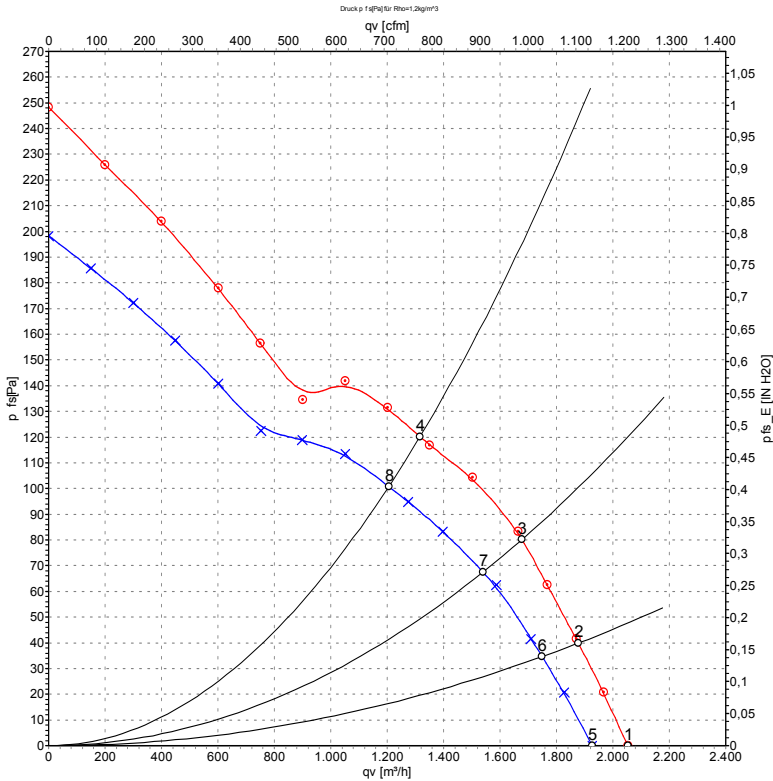
W2D250-CI14-09

AC axial fan

sickle-shaped blades (S series)

Fan housing with guard grille

Curves: Air performance 60 Hz Y



Measurement: LU-76489-1
Measurement: LU-76488-1

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	q _v	P _{fs}	q _v	P _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	inH ₂ O
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 · q_v = Air flow · P_{fs} = Pressure increase