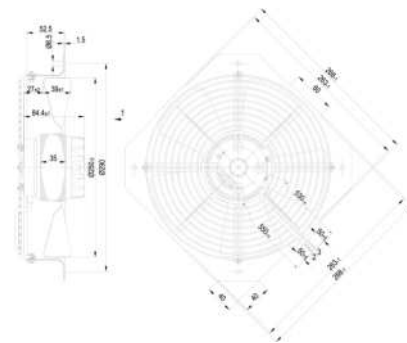


KARTA KATALOGOWA

W2D250-GA04-09

Wentylator osiowy AC, łopatki sierpowe (seria S), z kwadratową pełną dyszą

Producent: ebm-papst



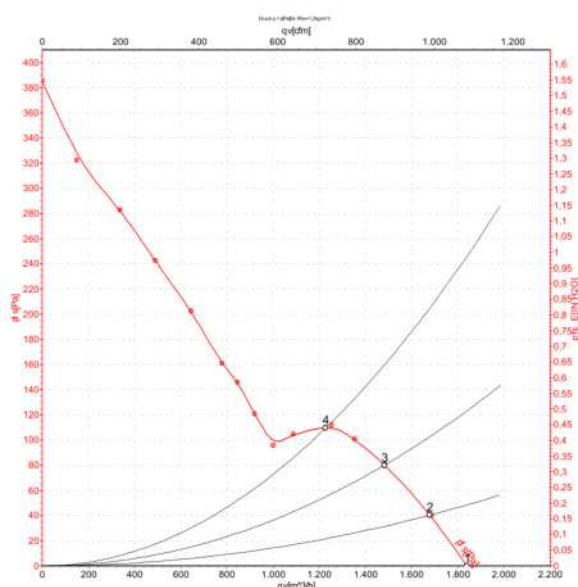
Dane znamionowe	
Napięcie znamionowe	3~ 400 V (380...415 380...415 V)
Połączenie	Y
Częstotliwość	50 / 60 Hz
Prędkość obrotowa	2750 / 3050 obr/min
Pobór mocy	120 / 190 W
Pobór prądu	0,27 / 0,33 A
Maks. przeciwnieśnienie	115 / 140 Pa
Temperatura otoczenia	min. -25 °C; maks. 60 / 75 °C

Dane ErP (UE 327/2011)	
Sprawność całkowita	29,5 %
Przepływ w pkt. optymalnym	1225 m³/h
Przyrost ciśnienia	126 Pa
Regulacja prędkości (ErP)	nie

Budowa	
Wielkość	250 mm
Silnik	M2D068-DF
Materiał wirnika	blacha stalowa ocynkowana ogniowo
Obudowa	blacha stalowa ocynkowana, powlekana czarnym tworzywem (RAL 9005)
Kratka ochronna	stal fosforanowana, powlekana czarnym tworzywem (RAL 9005)
Liczba łopatek	5
Kierunek obrotów	w lewo, patrząc na wirnik
Stopień ochrony	IP00
Klasa izolacji	B
Łożyskowanie	kulkowe
Masa	3 kg

Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz



Measurement: LU-14961-1

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.

Dobór, wycena i dostawa – zapytaj LUFTBERG

tel. +48 600 100 371 · tel. +48 604 959 199

biuro@luftberg.pl · www.luftberg.pl

W2D250-GA04-09

AC axial fan

sickle-shaped blades (S series)

with square full nozzle

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

Nominal data

Type	W2D250-GA04-09		
Motor	M2D068-DF		
Phase		3~	3~
Nominal voltage	VAC	400	400
Nominal voltage range	VAC	380 .. 415	380 .. 415
Wiring		Y	Y
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	2750	3050
Power consumption	W	120	190
Current draw	A	0.27	0.33
Max. back pressure	Pa	115	140
Max. back pressure	inH ₂ O	0.46	0.56
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	60	75

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

Data according to ErP Directive

		Actual	Req. 2015			
01 Overall efficiency η_{es}	%	29.5	28.3	09 Power consumption P_e	kW	0.14
02 Measurement category		A		09 Air flow q_v	m ³ /h	1225
03 Efficiency category		Static		09 Pressure increase p_{fs}	Pa	126
04 Efficiency grade N		41.2	40	10 Speed (rpm) n	min ⁻¹	2615
05 Variable speed drive		No		11 Specific ratio*		1.00

Data obtained at optimum efficiency level.

The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

LU-163036



W2D250-GA04-09

AC axial fan

sickle-shaped blades (S series)
with square full nozzle

Technical description

Weight	3 kg
Fan size	250 mm
Rotor surface	Painted black
Impeller material	Sheet steel, hot-dip galvanized
Fan housing material	Sheet steel, pre-galvanized and coated with black plastic
Guard grille material	Steel, phosphated and coated with black plastic
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP00
Insulation class	"B"
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	None
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
Approval	CCC; EAC



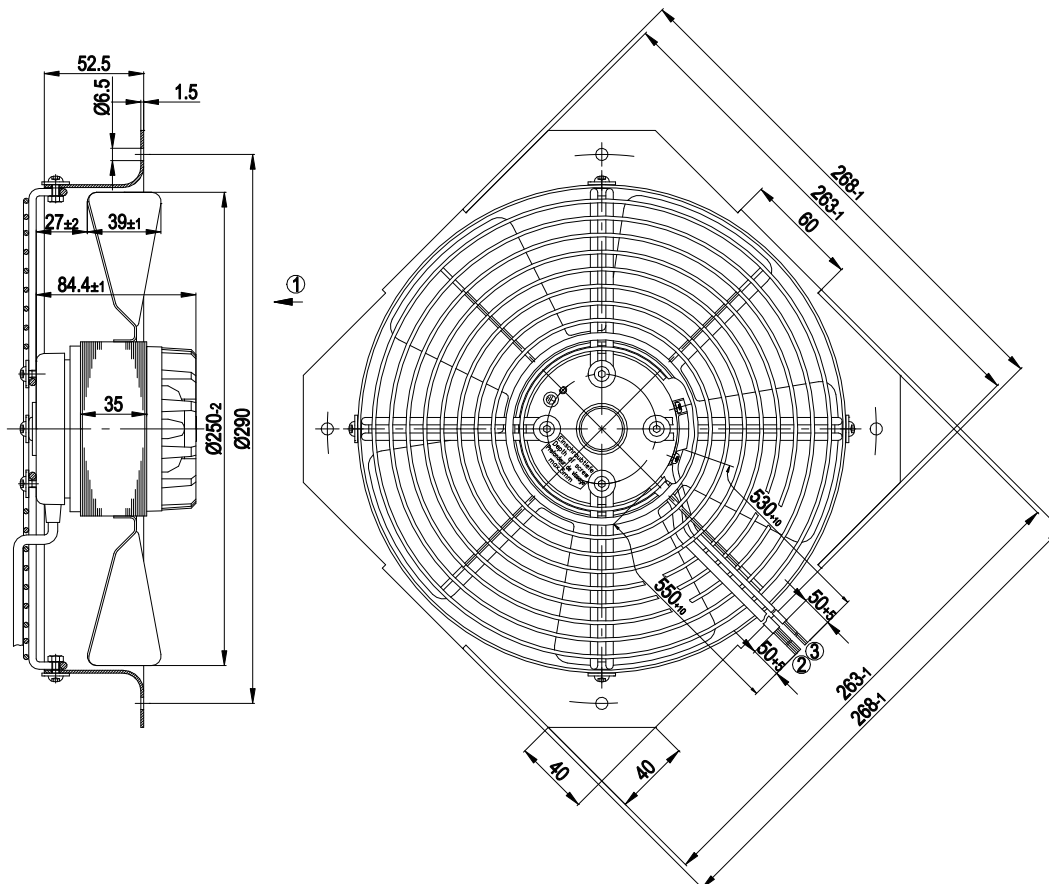
W2D250-GA04-09

AC axial fan

sickle-shaped blades (S series)

with square full nozzle

Product drawing

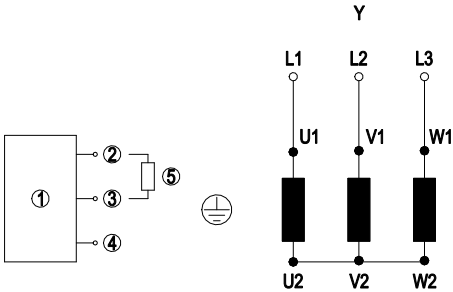


1	Direction of air flow "V"
2	Cable PVC, 4x crimped splices
3	Connection for speed monitoring brought out, AWG24-300V Hall generator, motor and Hall sensor wires not stripped

W2D250-GA04-09

AC axial fan
sickle-shaped blades (S series)
with square full nozzle

Connection diagram



Change of rotation direction by reversing two phases

1	Fan	Y	Star connection	2	red (+5 V)
L1	black	3	white (output)	L2	blue
4	black (0 V)	L3	brown	5	4 K7
TOP	2x gray	PE	green/yellow	Y	Star connection
L1	black	L2	blue	L3	brown

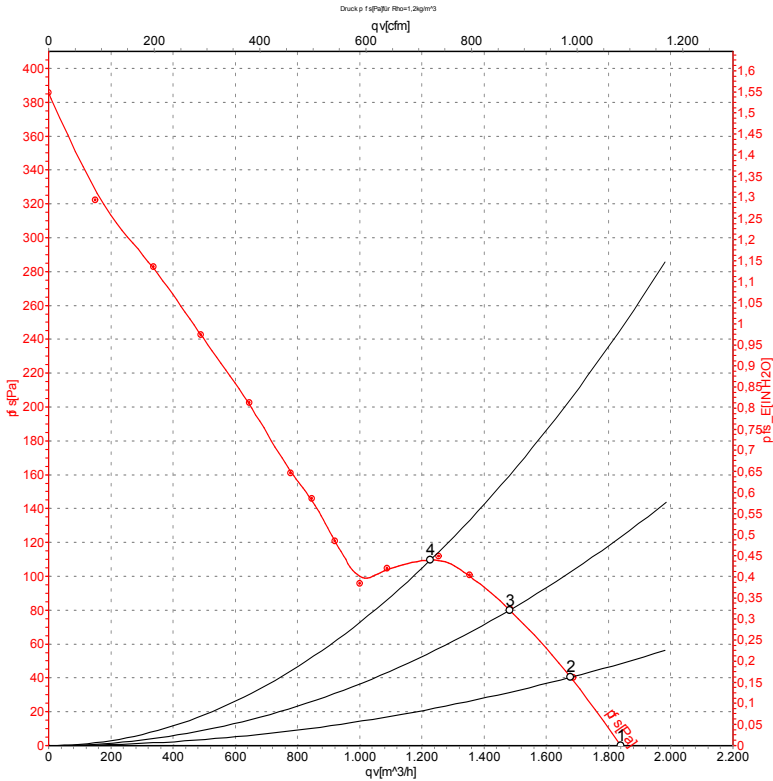


W2D250-GA04-09

AC axial fan

sickle-shaped blades (S series)
with square full nozzle

Curves: Air performance 50 Hz



Measurement: LU-14961-1

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	qv	p _{fs}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	CFM	inH ₂ O
1	400	50	2750	120	0.27	1840	0	1085	0.00
2	400	50	2695	141	0.29	1680	42	990	0.17
3	400	50	2670	149	0.30	1480	81	870	0.33
4	400	50	2660	151	0.30	1230	111	725	0.45

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



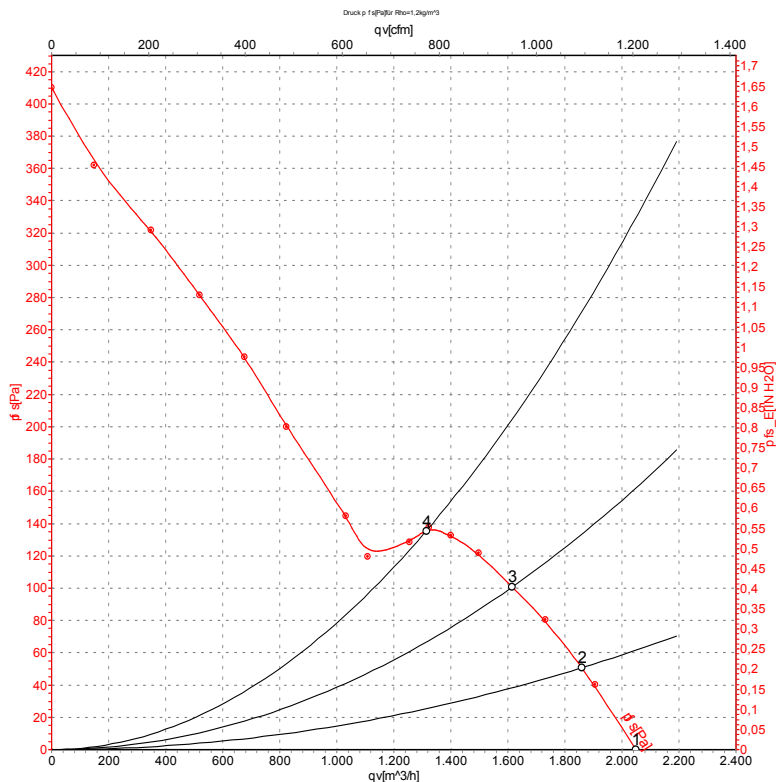
W2D250-GA04-09

AC axial fan

sickle-shaped blades (S series)

with square full nozzle

Curves: Air performance 60 Hz



Measurement: LU-14960-1

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	qv	p _{fs}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	CFM	inH ₂ O
1	400	60	3050	190	0.33	2045	0	1205	0.00
2	400	60	2985	201	0.34	1860	50	1095	0.20
3	400	60	2935	212	0.36	1615	100	950	0.40
4	400	60	2930	209	0.36	1315	136	775	0.55

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

