

KARTA KATALOGOWA

W2S130-AA03-87

Wentylator osiowy kompaktowy AC, łopatki sierpowe (seria S)

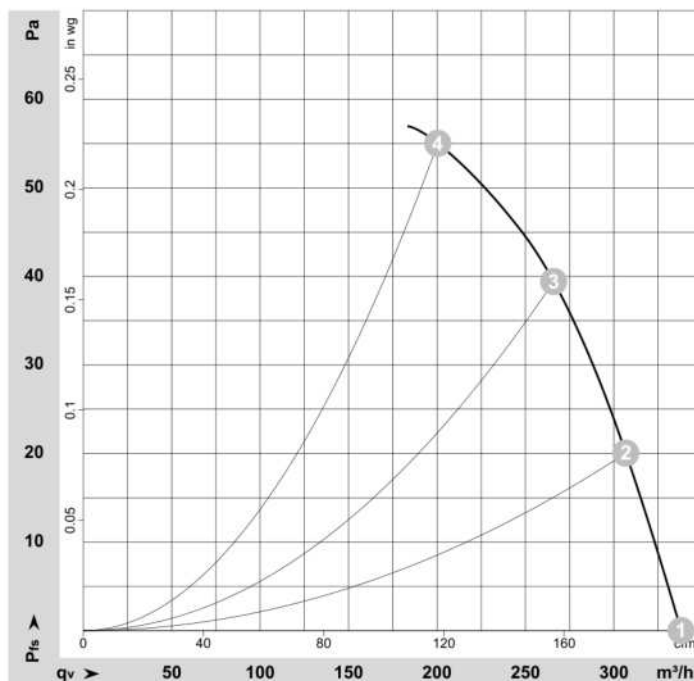
Producent: ebm-papst



Dane znamionowe		Budowa	
Napięcie znamionowe	1~ 230 V	Wielkość	130 mm
Częstotliwość	50 / 60 Hz	Silnik	M2S052-CA
Prędkość obrotowa	2800 / 3250 obr/min	Materiał wirnika	blacha stalowa malowana na czarno
Pobór mocy	45 / 39 W	Obudowa	odlew aluminiowy malowany na czarno
Pobór prądu	0,31 / 0,25 A	Liczba łopatek	7
Prąd rozruchowy	0,45 / 0,40 A	Kierunek obrotów	w lewo, patrząc na wirnik
Maks. przeciwcisnienie	80 / 120 Pa	Stopień ochrony	IP20
Temperatura otoczenia	min. -25 °C; maks. 50 / 70 °C	Klasa izolacji	B
		Zabezpieczenie silnika	termik (TOP), podłączony wewnętrznie
		Łożyskowanie	kulkowe
		Masa	1,05 kg

Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz



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

Measurement: LU-58475-1

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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W2S130-AA03-87

AC axial compact fan
sickle-shaped blades (S series)

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Nominal data

Type	W2S130-AA03-87		
Motor	M2S052-CA		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	2800	3250
Power consumption	W	45	39
Current draw	A	0.31	0.25
Max. back pressure	Pa	80	120
Max. back pressure	inH2O	0.32	0.48
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	50	70
Starting current	A	0.45	0.40

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



W2S130-AA03-87

AC axial compact fan

sickle-shaped blades (S series)

Technical description

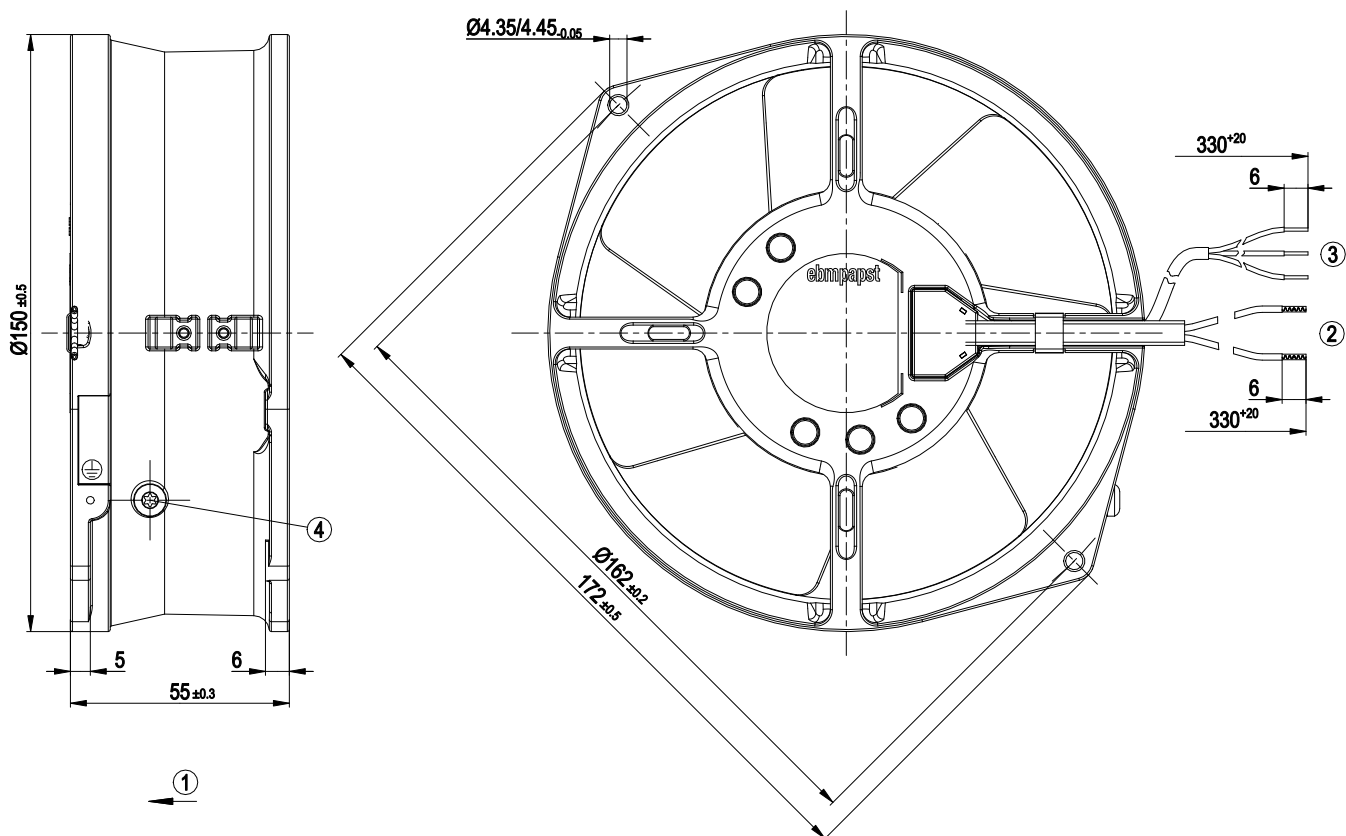
Weight	1.05 kg
Fan size	130 mm
Rotor surface	Rotor open, painted black
Blade material	Sheet steel, painted black
Fan housing material	Die-cast aluminum, painted black
Number of blades	7
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP20
Insulation class	"B"
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	None, open rotor
Mode	S1
Motor bearing	Ball bearing
Technical features	- Speed monitoring Hall IC (with basic insulation)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) internally connected
Protection class	I (if protective earth is connected by customer to the housing's connection point)
Conformity with standards	EN 60335-1; CE
Approval	CCC; CSA C22.2 No. 113; EAC; UL 507

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AC axial compact fan

sickle-shaped blades (S series)

Product drawing

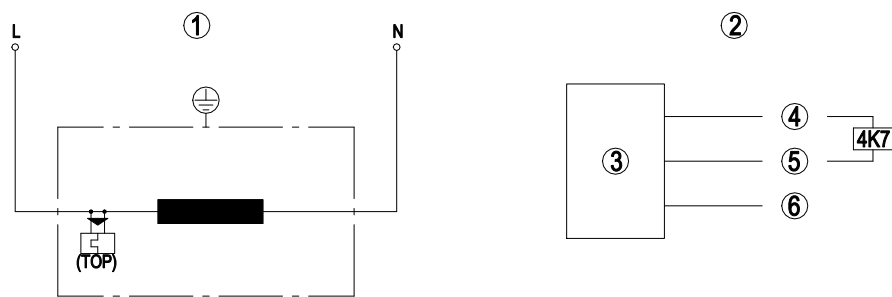


1	Direction of air flow "V"
2	Cable PVC AWG20, 2x crimped splices
3	Cable PVC AWG26, tin-plated wire ends
4	M4 screw for fastening ground connector

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AC axial compact fan
sickle-shaped blades (S series)

Connection diagram



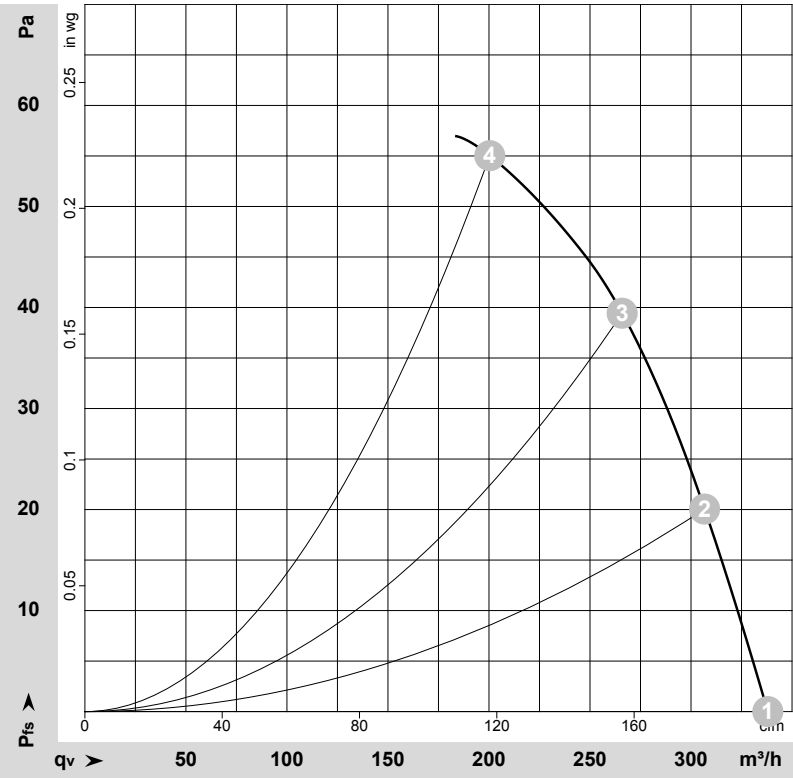
1	Fan connection diagram
TOP	Thermal overload protector
L	black
N	black
2	Hall IC circuit
3	Hall IC
4	red (+5 V)
5	white (out)
6	black (0 V)



W2S130-AA03-87

AC axial compact fan
sickle-shaped blades (S series)

Curves: Air performance 50 Hz



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

Measurement: LU-58475-1

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	inH ₂ O
1	230	50	2800	45	0.31	340	0	200	0.00
2	230	50	2795	45	0.31	305	20	180	0.08
3	230	50	2780	46	0.31	265	40	155	0.16
4	230	50	2780	46	0.31	200	55	120	0.22

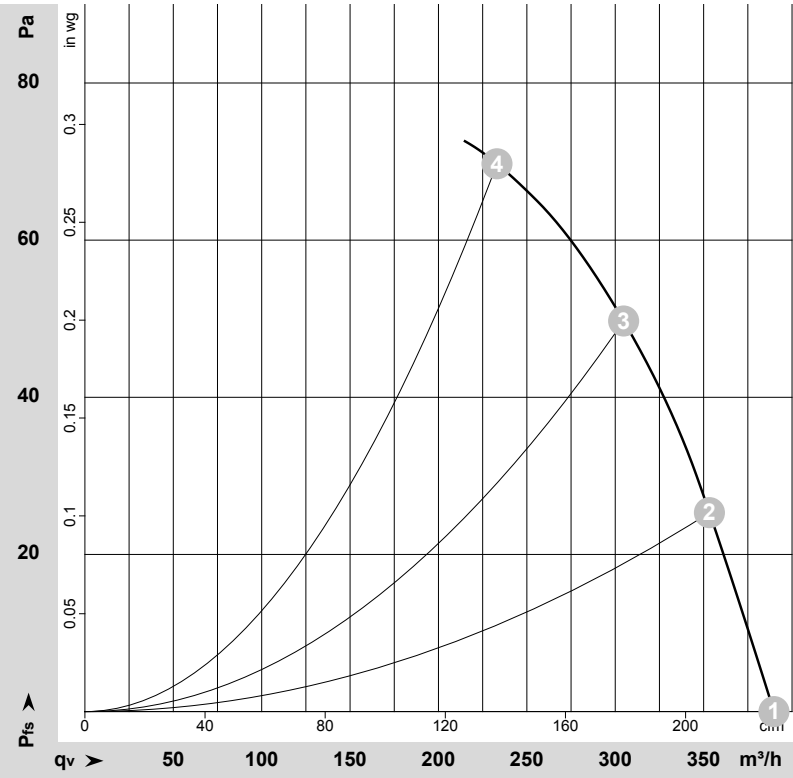
U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase



W2S130-AA03-87

AC axial compact fan
 sickle-shaped blades (S series)

Curves: Air performance 60 Hz



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

Measurement: LU-58476-1

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	inH2O
1	230	60	3250	39	0.25	390	0	230	0.00
2	230	60	3200	42	0.25	355	25	210	0.10
3	230	60	3165	43	0.26	305	50	180	0.20
4	230	60	3145	44	0.26	235	70	135	0.28

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

