

KARTA KATALOGOWA

D2E146-AP47-33

Wentylator promieniowy AC, łopatki zakrzywione do przodu, dwustronnie ssący, z obudową (bez kołnierza)

Producent: ebm-papst

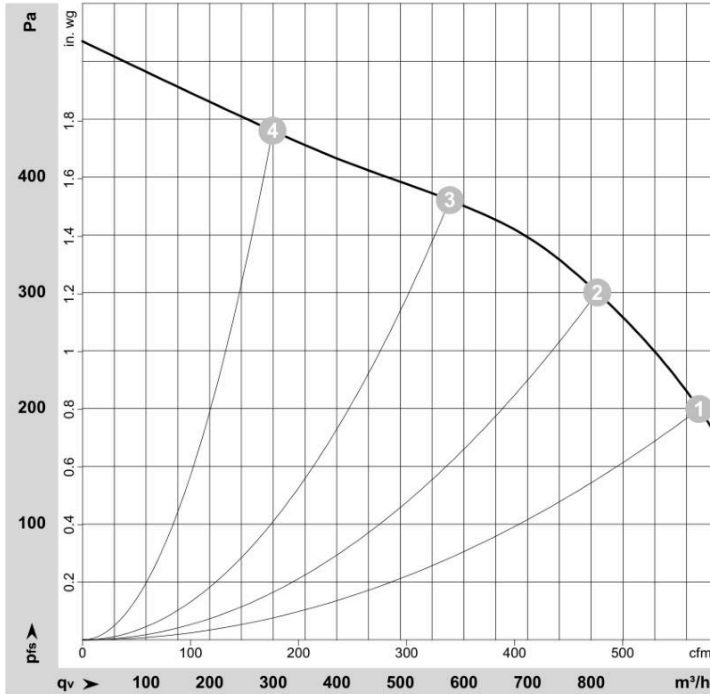


Zdjęcie poglądowe

Dane znamionowe		Budowa	
Napięcie znamionowe	1~ 230 V	Wielkość	146 mm
Częstotliwość	50 / 60 Hz	Silnik	M2E068-EC
Prędkość obrotowa	2050 / 2550 obr/min	Materiał wirnika	blacha stalowa malowana na czarno
Pobór mocy	300 / 330 W	Obudowa	blacha stalowa ocynkowana
Pobór prądu	1,31 / 1,45 A	Kierunek obrotów	w lewo, patrząc na wirnik
Kondensator	8 µF / 400 V	Stopień ochrony	IP44
Maks. wydajność	970 m³/h	Klasa izolacji	F
Maks. ciśnienie statyczne	480 Pa	Zabezpieczenie silnika	termik (TOP), izolacja podstawowa
Temperatura otoczenia	min. -25 °C; maks. 50 / 45 °C	Łożyskowanie	kulkowe
		Masa	4,3 kg

Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz



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

Measurement: LU-32744-1

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.

Wartości przy maksymalnym obciążeniu; producent zastrzega możliwość zmian.

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D2E146-AP47-33

AC centrifugal fan

forward-curved, dual-intake
with housing (without flange)

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Nominal data

Type	D2E146-AP47-33		
Motor	M2E068-EC		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		ml	ml
Valid for approval/standard		-	-
Speed (rpm)	min ⁻¹	2050	2550
Power consumption	W	300	330
Current draw	A	1.31	1.45
Capacitor	µF	8	8
Capacitor voltage	VDB	400	400
Capacitor standard		S0 (CE)	S0 (CE)
Min. back pressure	Pa	200	400
Min. back pressure	in. wg	0.8	1.61
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	50	45

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



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AC centrifugal fan

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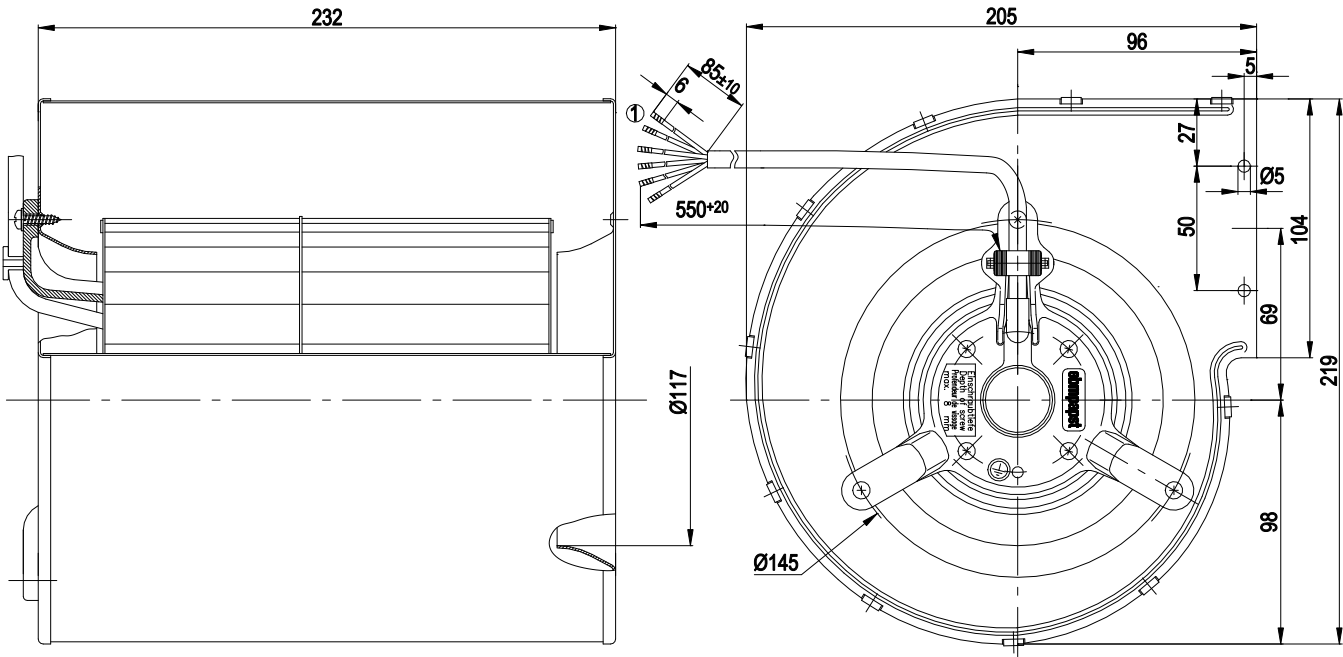
Technical description

Weight	4.3 kg
Size	146 mm
Motor size	68
Rotor surface	Painted black
Impeller material	Sheet steel, painted black
Housing material	Sheet steel, galvanized
Motor suspension	Motor mounted with brackets on one side
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	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
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1
Approval	EAC

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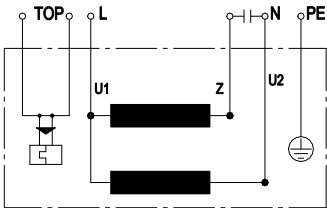
AC centrifugal fan
forward-curved, dual-intake
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Product drawing



1 Cable halogen-silicone-free 0.5 mm², 6x crimped splices

Connection diagram



U1	blue	Z	brown	U2	black
PE	green/yellow	TOP	2x gray		



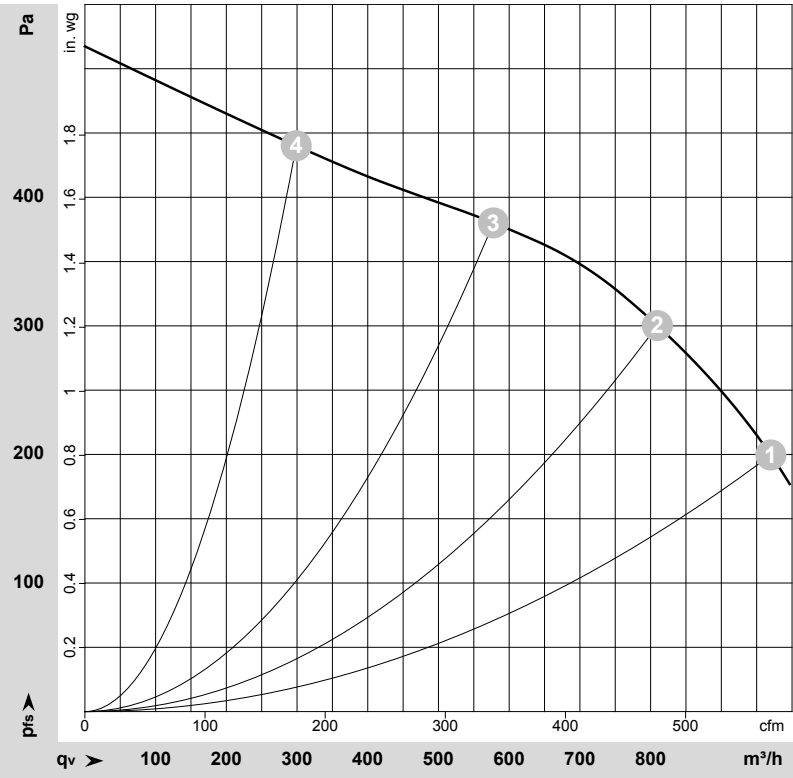
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AC centrifugal fan

forward-curved, dual-intake

with housing (without flange)

Curves: Air performance 50 Hz



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

Measurement: LU-32744-1

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	in. wg
1	1~	230	50	2050	300	1.31	970	200	570	0.80
2	1~	230	50	2295	262	1.16	810	300	475	1.20
3	1~	230	50	2540	223	0.98	580	380	340	1.53
4	1~	230	50	2695	185	0.81	300	440	175	1.77

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



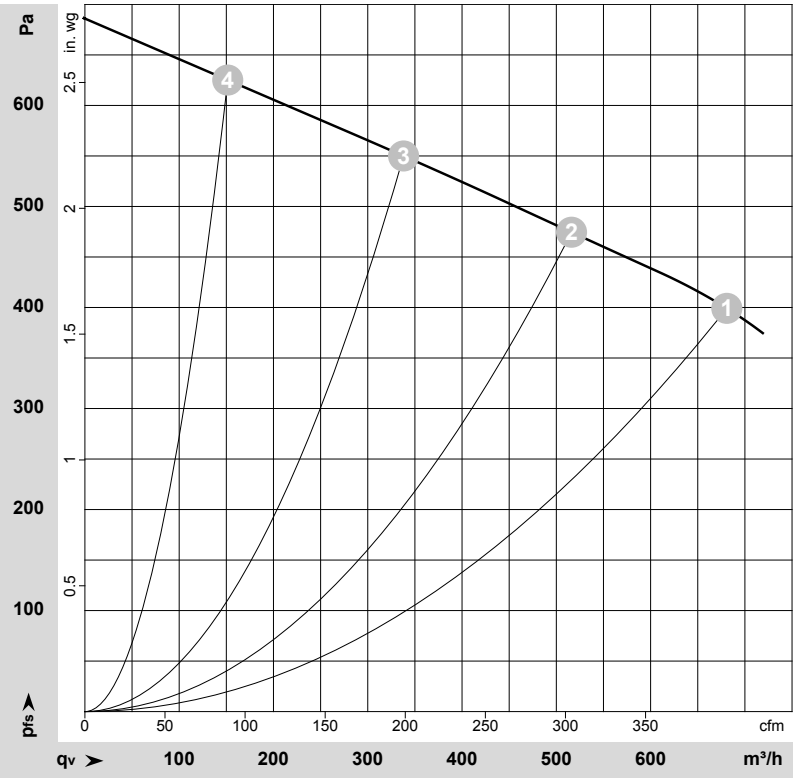
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AC centrifugal fan

forward-curved, dual-intake

with housing (without flange)

Curves: Air performance 60 Hz



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

Measurement: LU-32745-1

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	in. wg
1	1~	230	60	2550	330	1.45	680	400	400	1.61
2	1~	230	60	2820	294	1.34	515	475	305	1.91
3	1~	230	60	3015	271	1.26	340	550	200	2.21
4	1~	230	60	3130	255	1.20	150	625	90	2.51

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

