

KARTA KATALOGOWA

D2E097-BI56-48

Dmuchawa promieniowa AC, łopatki zakrzywione do przodu, dwustronnie ssąca, w obudowie

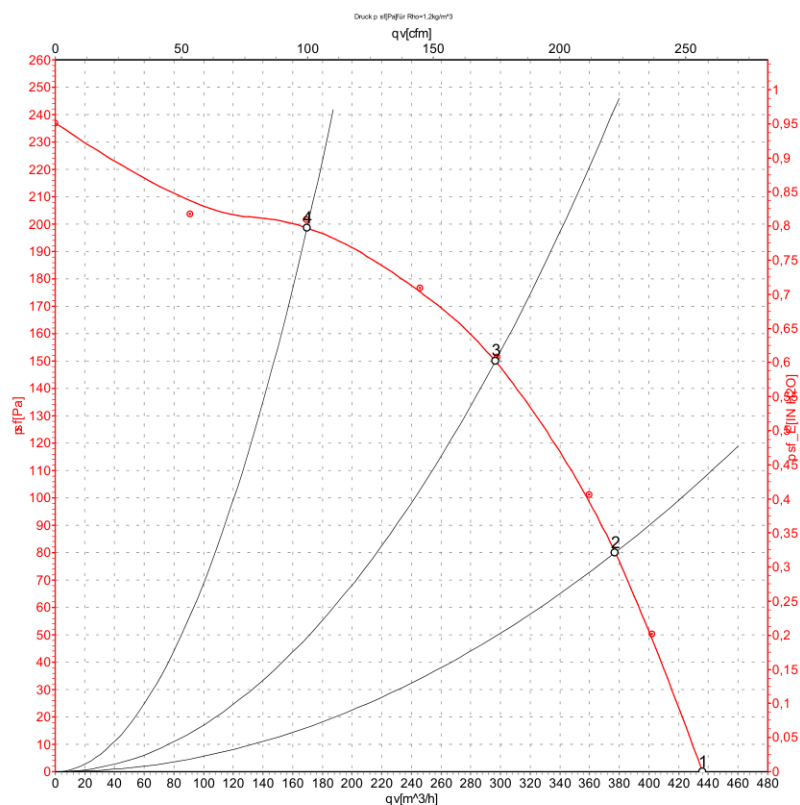
Producent: ebm-papst



Dane znamionowe		Budowa	
Napięcie znamionowe	1~ 230 V	Wielkość	97 mm
Częstotliwość	50/60 Hz	Materiał wirnika	stal ocynkowana
Prędkość obrotowa	1950 / 1850 obr/min	Stopień ochrony	IP20
Pobór mocy	87 / 100 W	Klasa izolacji	B
Pobór prądu	0,39 / 0,45 A	Zabezpieczenie silnika	termik (TOP)
Kondensator	2 µF / 400 V	Masa	1,68 kg
Maks. temp. otoczenia	+40 °C / +35 °C		

Charakterystyka przepływowa (50 Hz)

Charts: Air flow 50 Hz



Measurement: LU-34651

Air performance measured as per ISO 580 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: L_{wA} measured as per ISO 13347 / L_{pA} measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Dane na podstawie karty producenta ebm-papst (oryginał na kolejnych stronach).

Wartości dla 50 Hz / 60 Hz; producent zastrzega możliwość zmian.

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D2E097-BI56-48

AC centrifugal fan

forward curved, dual inlet

with housing (flange)


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Nominal data

Type	D2E097-BI56-48		
Motor	M2E052-CA		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		fa	fa
Valid for approval / standard		CE	CE
Speed	min ⁻¹	1950	1850
Power input	W	87	100
Current draw	A	0.39	0.45
Motor capacitor	µF	2	2
Capacitor voltage	VDB	400	400
Min. back pressure	Pa	0	0
Max. ambient temperature	°C	40	35

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations



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with housing (flange)

Technical features

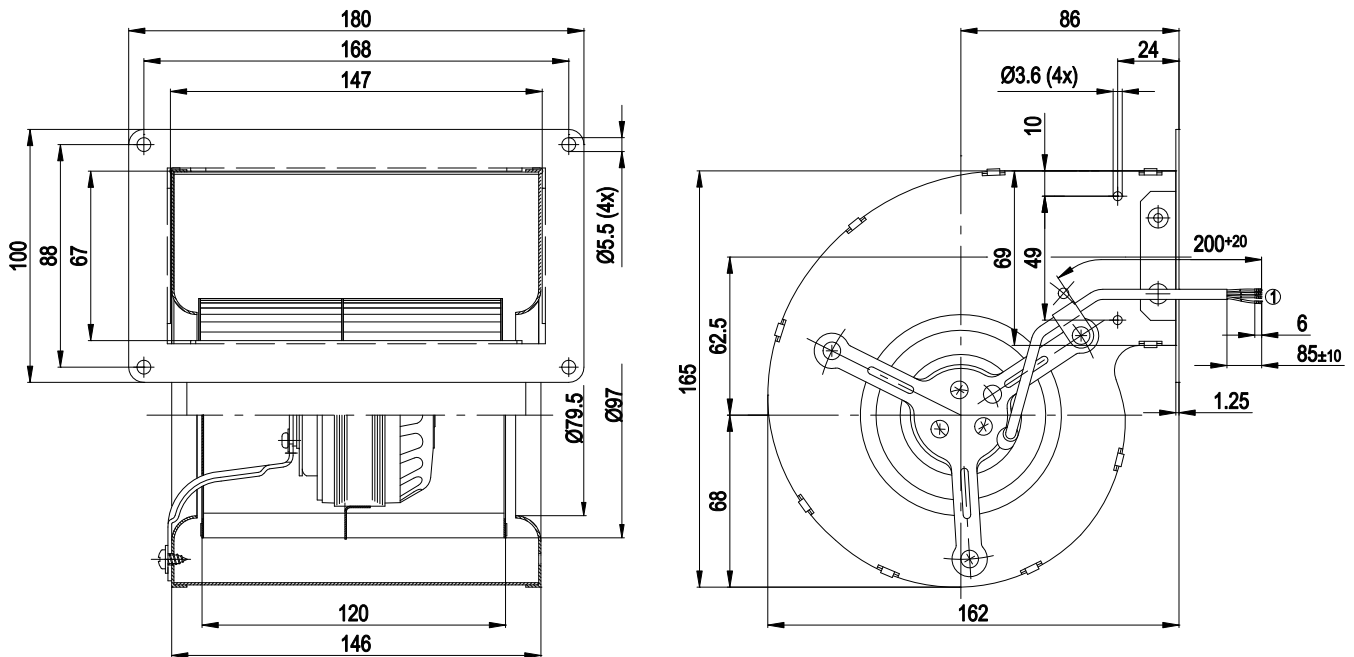
General description	With flange
Mass	1.68 kg
Size	97 mm
Surface of rotor	Partially cast in aluminium
Material of impeller	Sheet steel, hot-galvanised
Housing material	Sheet steel, hot-galvanised
Motor suspension	Motor mounted via brackets on one side
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 20
Insulation class	"B"
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Leakage current	< 0.75 mA
Motor protection	Thermal overload protector (TOP) wired internally
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	CCC

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AC centrifugal fan

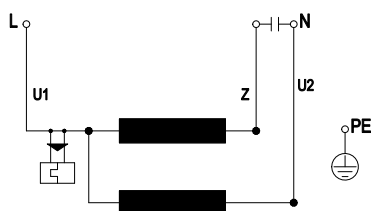
forward curved, dual inlet
with housing (flange)

Product drawing



- | | |
|---|---|
| 1 | Connection line PVC 0.5mm ² , 4x brass lead tips crimped |
|---|---|

Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow				

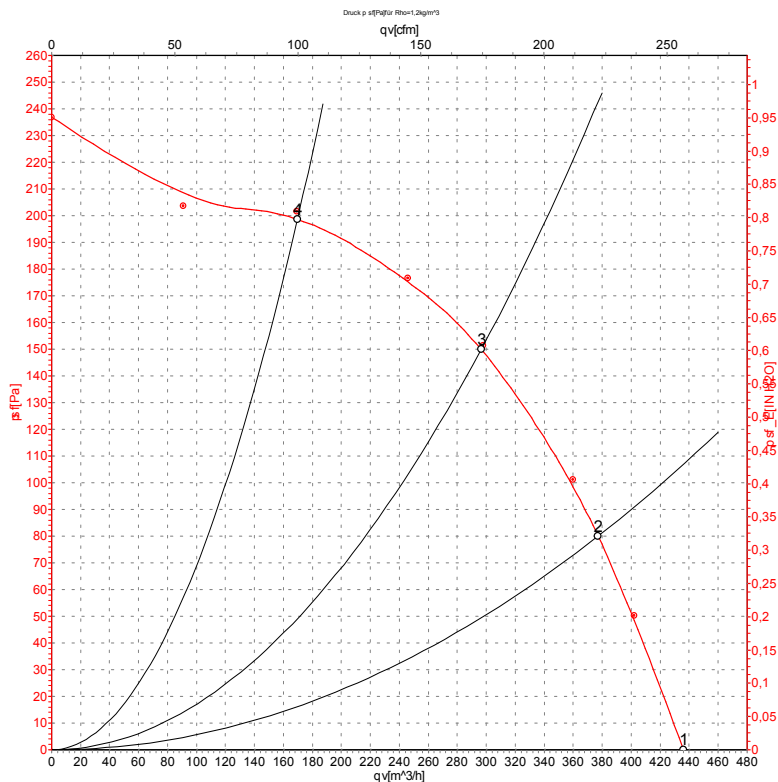
D2E097-BI56-48

AC centrifugal fan

forward curved, dual inlet

with housing (flange)

Charts: Air flow 50 Hz



Measurement: LU-34651

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	U	f	n	P _e	I	qv	P _{sf}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa
1	230	50	1950	87	0.39	435	0
2	230	50	2235	81	0.35	375	80
3	230	50	2470	73	0.32	295	150
4	230	50	2710	67	0.31	170	200



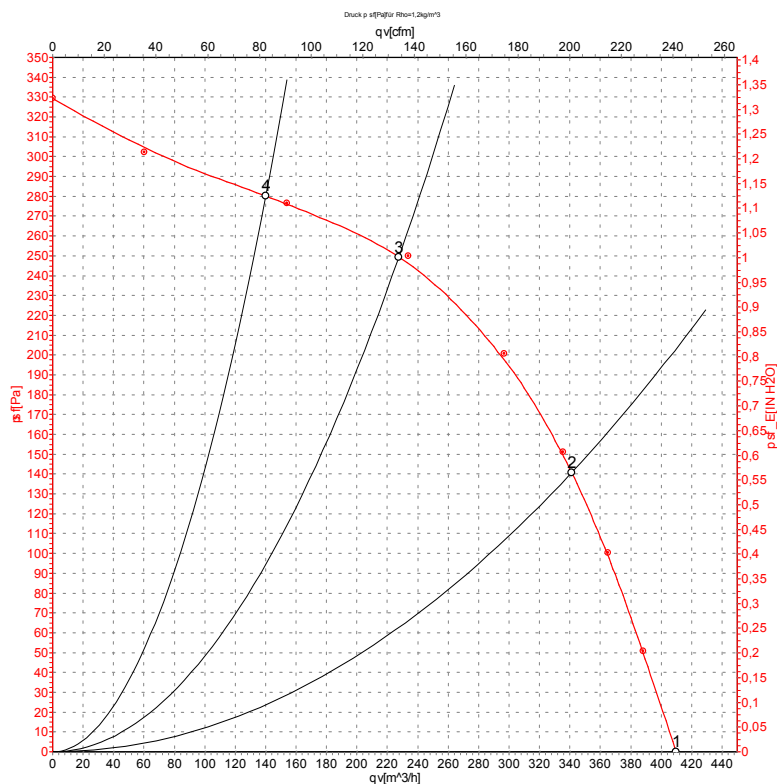
D2E097-BI56-48

AC centrifugal fan

forward curved, dual inlet

with housing (flange)

Charts: Air flow 60 Hz



Measurement: LU-34652

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	U	f	n	P _e	I	qv	P _{sf}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	230	60	1850	100	0.45	410	0
2	230	60	2500	93	0.40	340	140
3	230	60	2995	81	0.35	230	250
4	230	60	3210	74	0.32	140	280