

KARTA KATALOGOWA

G4E225-DK05-03

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

Producent: ebm-papst



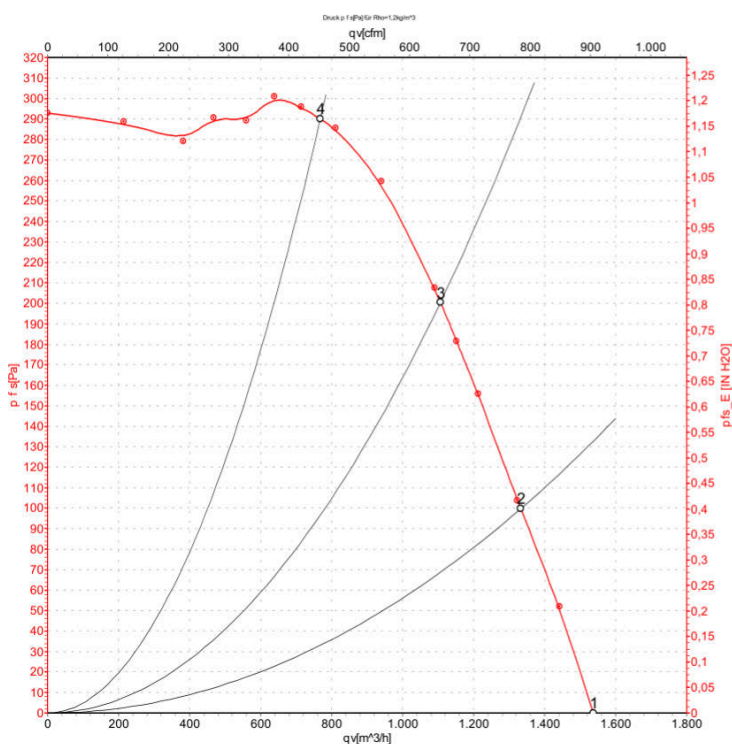
Zdjęcie poglądowe

Dane znamionowe	
Napięcie znamionowe	1~ 230 V
Częstotliwość	50/60 Hz
Prędkość obrotowa	1330 / 1500 obr/min
Pobór mocy	395 / 500 W
Pobór prądu	1,98 / 2,3 A
Kondensator	6 µF / 450 V
Maks. wydajność	1500 m³/h
Maks. ciśnienie statyczne	300 Pa
Temperatura otoczenia	-25...+70 °C (60 Hz: +50 °C)

Budowa	
Wielkość	225 mm
Materiał wirnika	stal ocynkowana
Stopień ochrony	IP54
Klasa izolacji	F
Zabezpieczenie silnika	termik (TOP)

Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz



Measurement: LU-54520-1

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 1334; 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 installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Dobór, wycena i dostawa – zapytaj LUFTBERG

tel. +48 600 100 371 · tel. +48 604 959 199
biuro@luftberg.pl · www.luftberg.pl

G4E225-DK05-03

AC centrifugal fan

forward-curved, single-intake
with housing (flange)

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

Limited partnership · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	G4E225-DK05-03		
Motor	M4E094-FA		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		fa	ml
Valid for approval/standard		-	-
Speed (rpm)	min ⁻¹	1330	1500
Power consumption	W	395	500
Current draw	A	1.98	2.3
Capacitor	µF	6	6
Capacitor voltage	VDB	450	450
Capacitor standard		S0 (CE)	S0 (CE)
Min. back pressure	Pa	0	100
Min. back pressure	inH ₂ O	0	0.4
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	70	50
Starting current	A	4.32	4

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



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Technical description

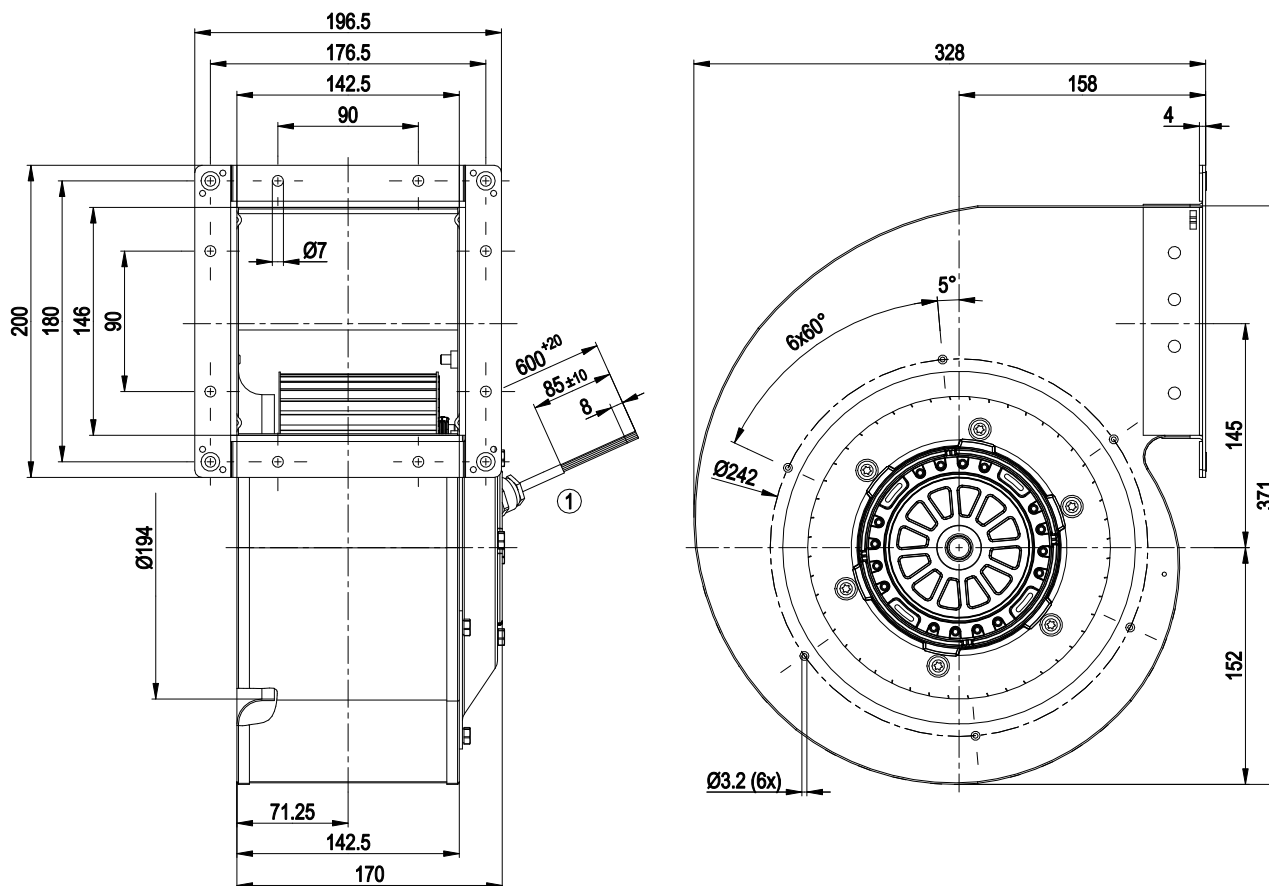
Weight	10.3 kg
Fan size	225 mm
Rotor surface	Cast in aluminum
Impeller material	Sheet steel, galvanized
Housing material	Sheet steel, galvanized
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F4-1
Ambient temperature note	Occasional start-up between -40°C and -25°C is permissible. For continuous operation at temperatures below -25°C (e.g. refrigeration applications) we recommend our fan design with special low-temperature bearings.
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
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Variable
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	S0
Conformity with standards	EN 60034-1 (2010)
Approval	EAC

G4E225-DK05-03

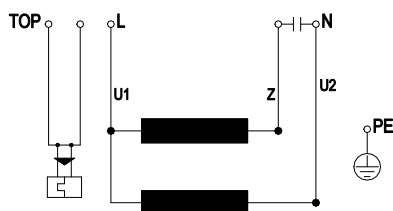
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Product drawing


 1 Cable silicone 6G 0.5 mm², 6x crimped splices

Connection diagram



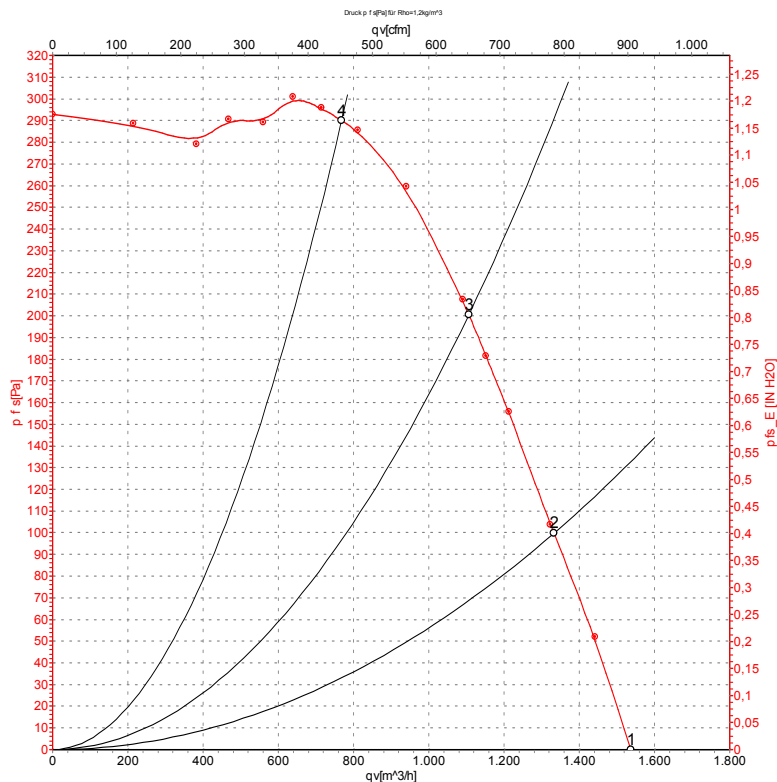
TOP	2x gray	U1	blue	Z	brown
U2	black	PE	green/yellow		

G4E225-DK05-03

AC centrifugal fan

forward-curved, single-intake
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Curves: Air performance 50 Hz



Measurement: LU-54520-1

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	m³/h	Pa	cfm	inH2O
1	230	50	1330	395	1.98	1535	0	905	0.00
2	230	50	1370	340	1.76	1335	100	785	0.40
3	230	50	1400	290	1.58	1105	200	650	0.80
4	230	50	1435	225	1.39	770	290	450	1.16

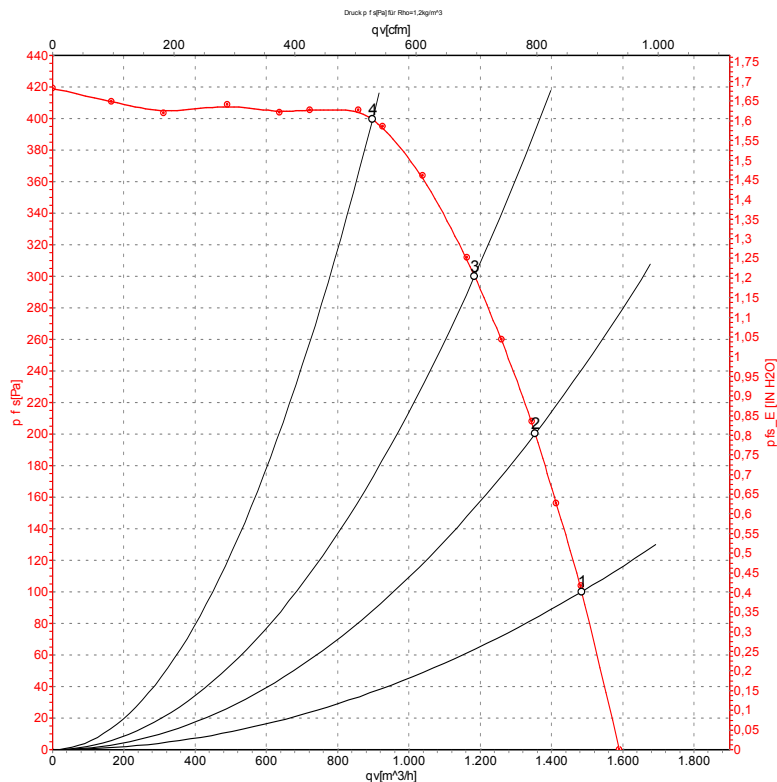
U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · P_{fs} = Pressure increase

G4E225-DK05-03

AC centrifugal fan

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Curves: Air performance 60 Hz



Measurement: LU-54523-1

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	m³/h	Pa	cfm	inH ₂ O
1	230	60	1500	500	2.30	1485	100	875	0.40
2	230	60	1560	443	2.00	1355	200	795	0.80
3	230	60	1615	383	1.71	1185	300	695	1.20
4	230	60	1680	303	1.35	900	400	530	1.61

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