

KARTA KATALOGOWA

G2E140-PI51-09

Wentylator promieniowy AC, łopatki zakrzywione do przodu, jednostronnie ssący, z obudową (z kołnierzem)

Producent: ebm-papst

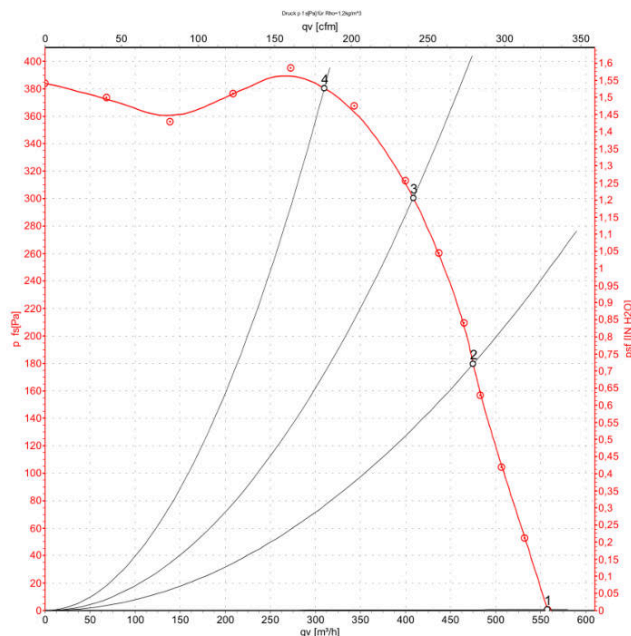


Zdjęcie poglądowe

Dane znamionowe		Budowa	
Napięcie znamionowe	1~ 230 V	Wielkość	140 mm
Częstotliwość	50 / 60 Hz	Silnik	M2E068-DF
Prędkość obrotowa	2200 / 2100 obr/min	Materiał wirnika	blacha stalowa malowana na czarno
Pobór mocy	180 / 225 W	Obudowa	blacha stalowa ocynkowana
Pobór prądu	0,8 / 0,99 A	Kratka ochronna	siatka zgrzewana, ocynkowana ogniowo
Kondensator	4 µF / 450 V	Kierunek obrotów	w prawo, patrząc na wirnik
Maks. wydajność	560 m³/h	Stopień ochrony	IP44
Maks. ciśnienie statyczne	395 Pa	Klasa izolacji	B
Temperatura otoczenia	min. -25 °C; maks. 60 / 40 °C	Zabezpieczenie silnika	termik (TOP), izolacja podstawowa
		Łożyskowanie	kulkowe
		Podłączenie	wtyczka
		Masa	3,6 kg

Charakterystyka przepływowa (50 Hz)

Curves: Air performance 50 Hz



Measurement: LU-46695-1

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 maksymalnym obciążeniu; producent zastrzega możliwość zmian.

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G2E140-PI51-09

AC centrifugal fan

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

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Nominal data

Type	G2E140-PI51-09		
Motor	M2E068-DF		
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	2200	2100
Power consumption	W	180	225
Current draw	A	0.8	0.99
Capacitor	µF	4	4
Capacitor voltage	VDB	450	450
Capacitor standard		S2 (CE)	S2 (CE)
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	60	40

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	3.6 kg
Fan size	140 mm
Rotor surface	Painted black
Impeller material	Sheet steel, painted black
Housing material	Sheet steel, galvanized
Guard grille material	Hot-dip galvanized and spot-welded net
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H0+
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
Electrical hookup	With plug
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	S2
Conformity with standards	EN 60335-1
Approval	CSA C22.2 No. 100; UL 1004-1; CCC

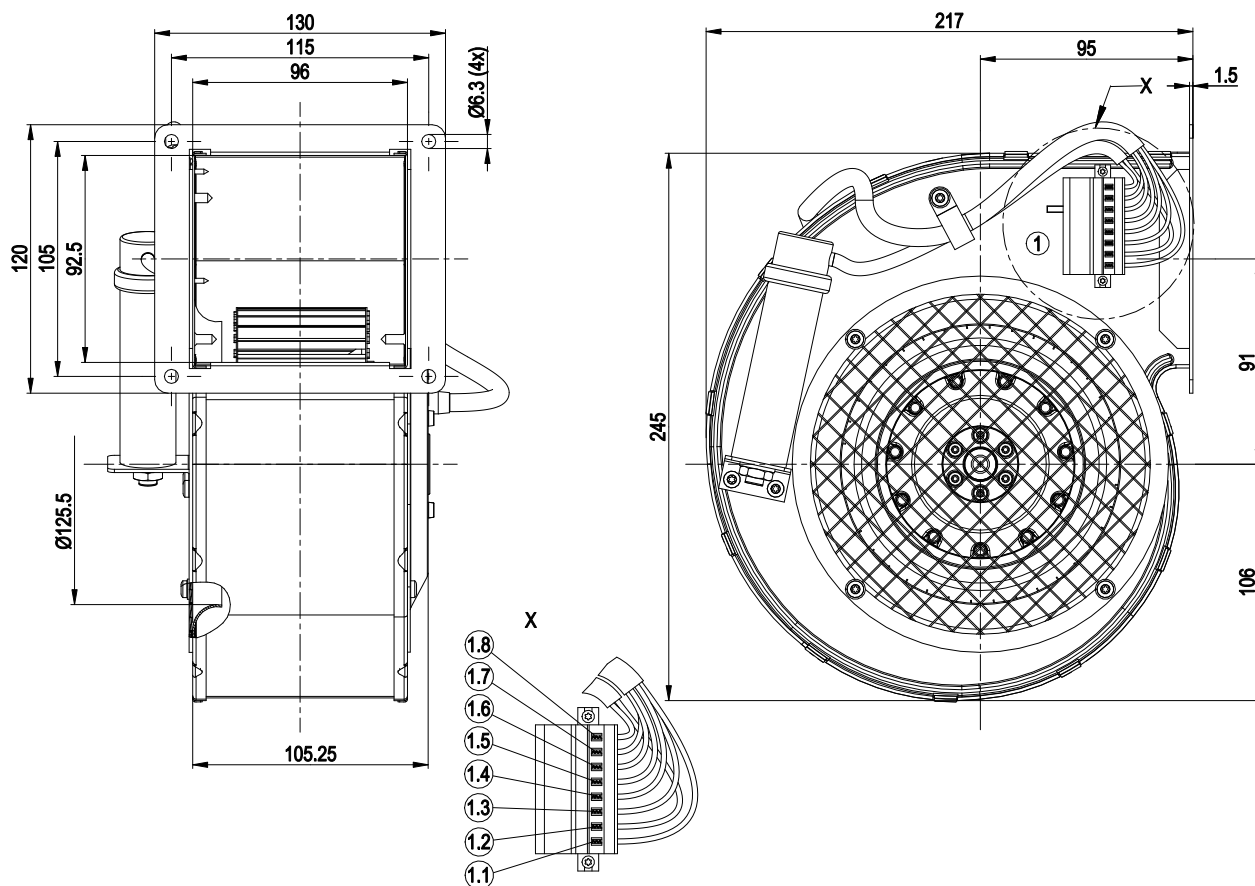


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AC centrifugal fan

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Product drawing



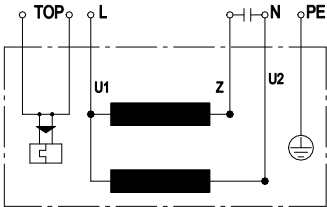
1	Cable PVC 6G AWG20, with connector housing Wago 231-608/019-000 and 6x crimped splices
1.1	Capacitor
1.2	brown
1.3	blue
1.4	gray
1.5	green/yellow
1.6	gray
1.7	Capacitor
1.8	black

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Connection diagram



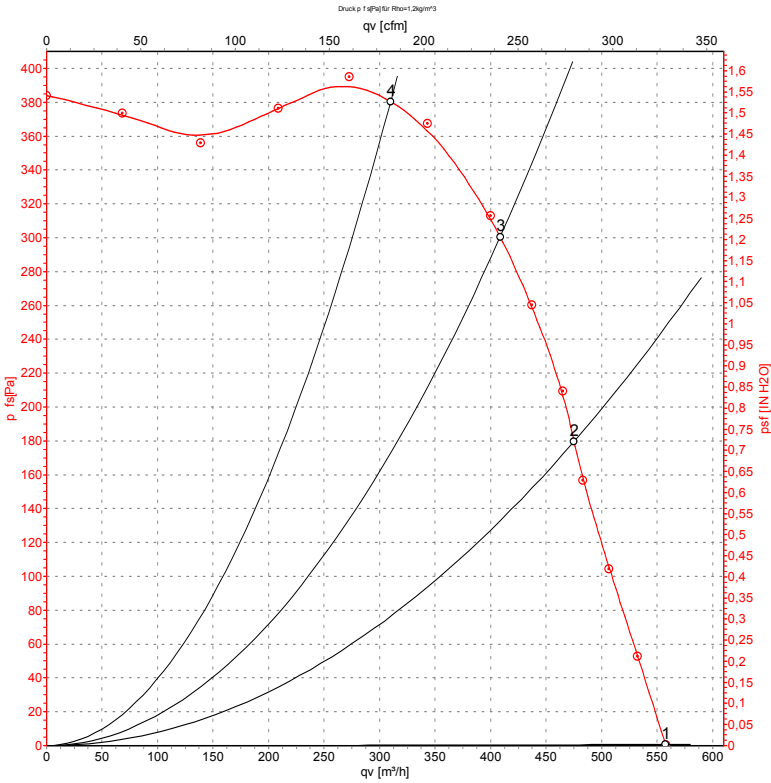
U1	blue	Z	brown	U2	black
PE	green/yellow	TOP	2x gray		



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AC centrifugal fan
forward-curved, single-intake
with housing (flange)

Curves: Air performance 50 Hz



Measurement: LU-46695-1

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	2200	180	0.80	560	0	330	0.00
2	230	50	2355	161	0.70	475	180	280	0.72
3	230	50	2470	147	0.64	410	300	240	1.20
4	230	50	2610	130	0.56	310	380	180	1.53

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

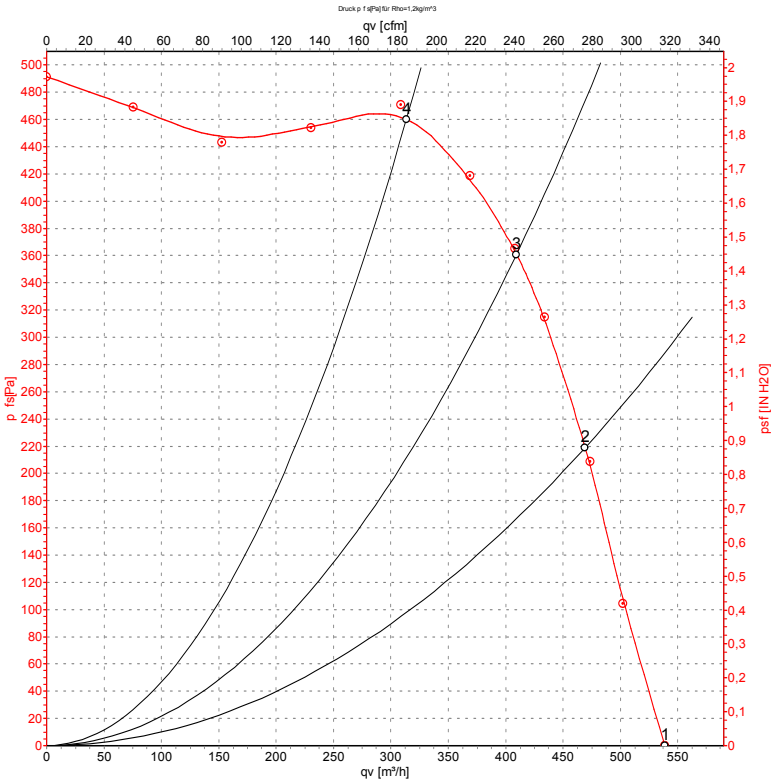


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G2E140-PI51-09

AC centrifugal fan
forward-curved, single-intake
with housing (flange)

Curves: Air performance 60 Hz



Measurement: LU-46699-1

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	60	2100	225	0.99	540	0	315	0.00
2	230	60	2430	210	0.91	470	220	275	0.88
3	230	60	2640	200	0.87	410	360	240	1.45
4	230	60	2875	185	0.81	315	460	185	1.85

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



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