G2E140-BG02-25

AC centrifugal fan

forward-curved, single-intake

with housing (flange)

Nominal data

Type	**G2E140-BG02-25**		
Motor	**M2E068-DF**		
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}	2000	2350
Power consumption	W	200	210
Current draw	A	0.9	0.95
Capacitor	µF	4	4
Capacitor voltage	VDB	400	400
Capacitor standard		S2 (CE)	S2 (CE)
Min. back pressure	Pa	100	300
Min. back pressure	in. wg	0.4	1.2
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	50	50

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

G2E140-BG02-25 ebmpapst Datasheet FansCo sales@fansco.com www.fansco.com

AC centrifugal fan

forward-curved, single-intake

with housing (flange)

Technical description

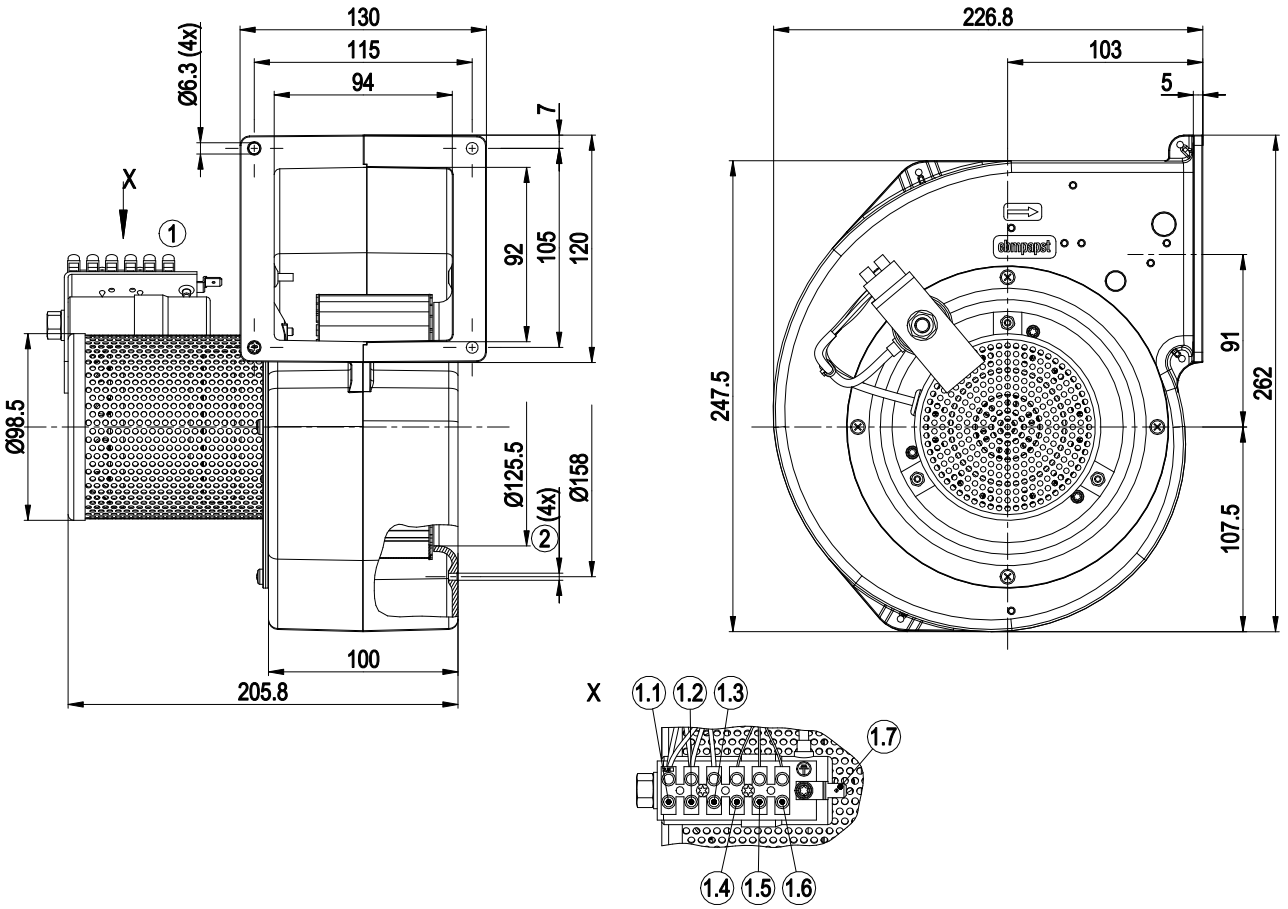
Weight	3.3 kg
Size	140 mm
Motor size	68
Rotor surface	Painted black
Cover material	Sheet steel, painted black
Impeller material	Sheet steel, painted black
Housing material	Die-cast aluminum, painted black
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and 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	Any
Condensation drainage holes	On rotor side
Mode	S1
Motor mounting	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical hookup	Via terminal strip, capacitor connected
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Lateral
Protection class	I (if protective earth is connected by customer to the housing's connection point)
Motor capacitor according to EN 60252-1 in safety protection class	S2
Conformity with standards	EN 60335-1; CE

AC centrifugal fan

forward-curved, single-intake

with housing (flange)

Product drawing



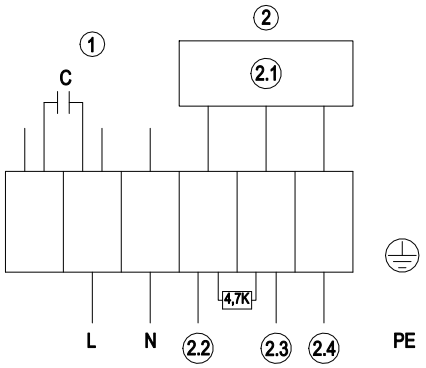
1	Terminal strip
1.1	Z (brown + capacitor)
1.2	L (black + capacitor)
1.3	N (blue)
1.4	+5 V (red)
1.5	out (white)
1.6	0 V (black)
1.7	Flat plug 6.3 x 0.8 (PE)
2	For self-tapping M4 screw, max. clearance for screw 5 mm

AC centrifugal fan

forward-curved, single-intake

with housing (flange)

Connection diagram



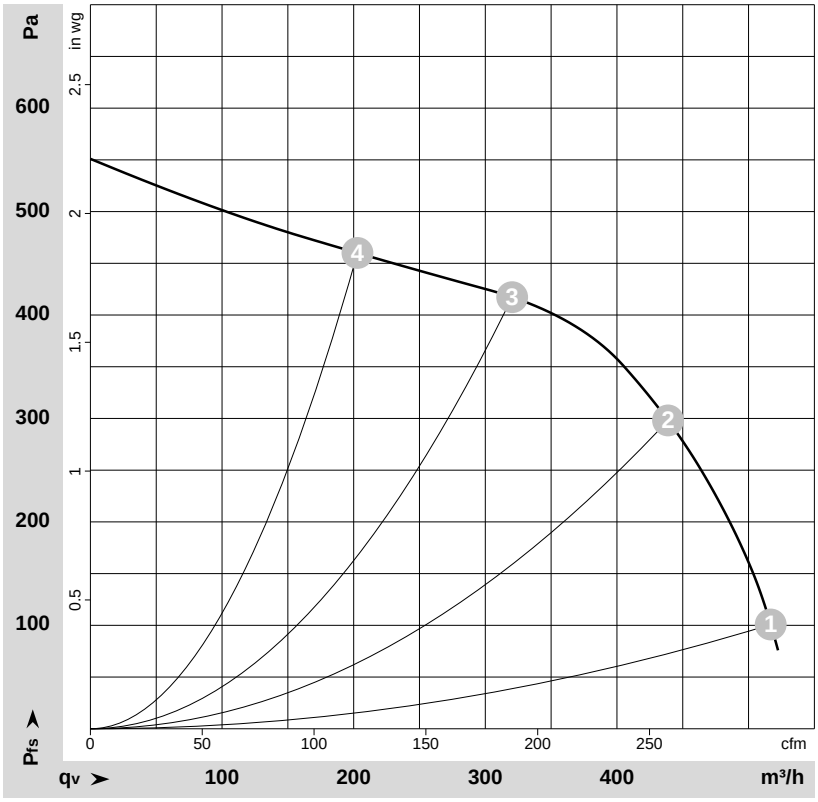
1	Fan connection diagram
L	black
N	blue
2	Hall IC circuit
2.1	Hall IC
2.2	red (+5 V)
2.3	white (out)
2.4	black (0 V)

AC centrifugal fan

forward-curved, single-intake

with housing (flange)

Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-4880-1

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	in. wg
1	230	50	2000	200	0.90	515	100	305	0.40
2	230	50	2375	163	0.71	440	300	260	1.20
3	230	50	2600	129	0.56	320	420	190	1.69
4	230	50	2735	105	0.46	205	460	120	1.85

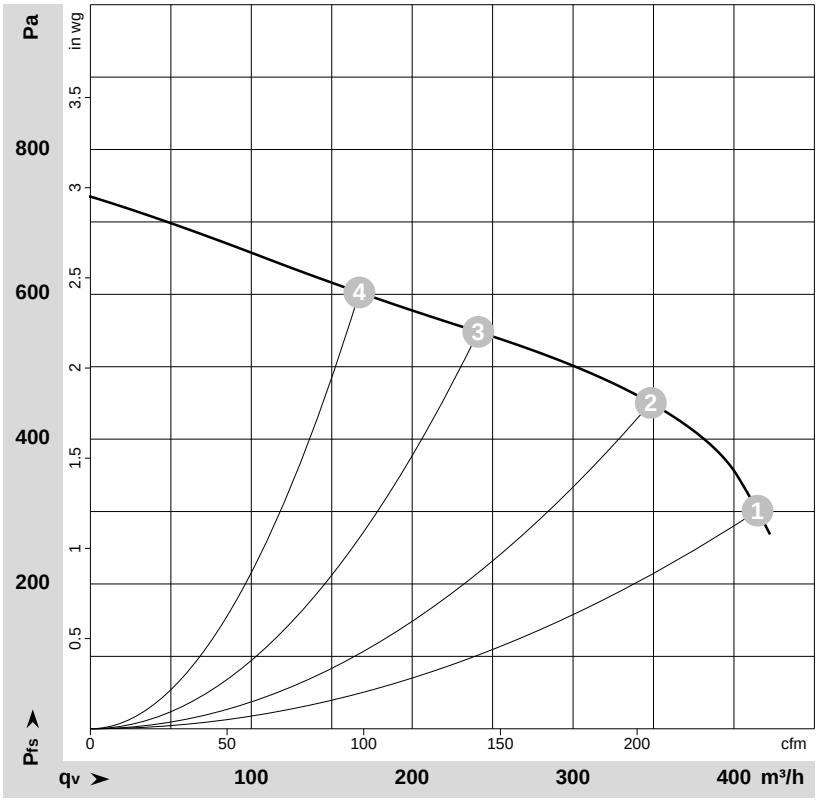
U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

AC centrifugal fan

forward-curved, single-intake

with housing (flange)

Curves: Air performance 60 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-4881-1

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	in. wg
1	230	60	2350	210	0.95	415	300	245	1.20
2	230	60	2715	185	0.81	350	450	205	1.81
3	230	60	3010	157	0.71	240	550	140	2.21
4	230	60	3165	139	0.64	165	600	100	2.41

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