G2E160-AD03-50

AC centrifugal fan

forward-curved, single-intake

with housing (flange)

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Nominal data

Type	**G2E160-AD03-50**	
Motor	**M2E068-EC**	
Phase		1~
Nominal voltage	VAC	240
Frequency	Hz	50
Method of obtaining data		ml
Valid for approval/standard		-
Speed (rpm)	min^{-1}	2250
Power consumption	W	270
Current draw	A	1.15
Capacitor	µF	5
Capacitor voltage	VDB	450
Capacitor standard		S2 (CE)
Min. back pressure	Pa	200
Min. back pressure	inH2O	0.8
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	30

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	4.1 kg
Fan size	160 mm
Rotor surface	Unpainted
Impeller material	Sheet steel, galvanized
Housing material	Die-cast aluminum
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
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)	< 0.75 mA
Electrical hookup	Via terminals, capacitor connected
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Axial
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

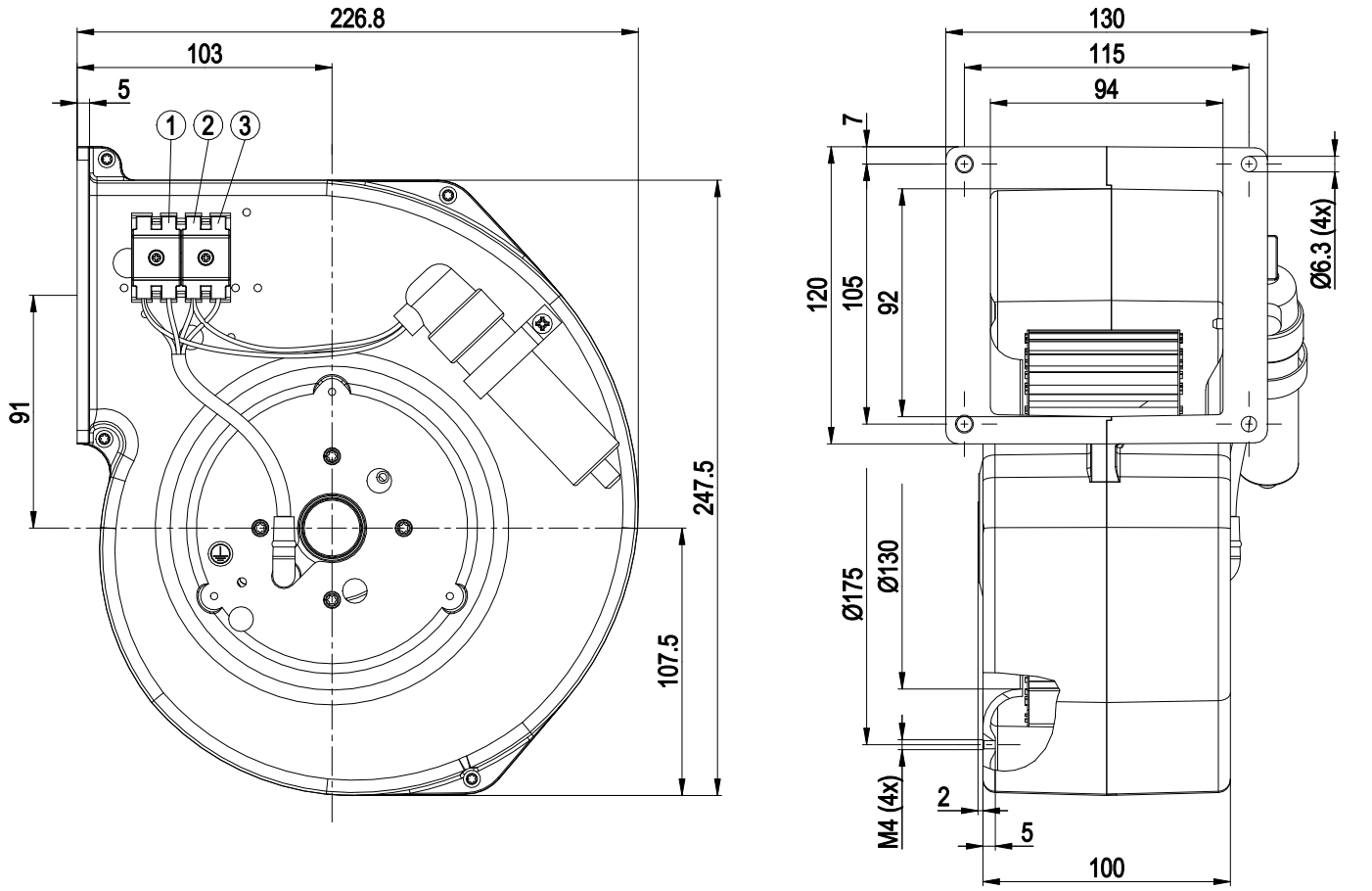
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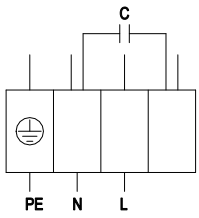
with housing (flange)

Product drawing



1	L (blue)	2	N (black)	3	PE (green/yellow)

Connection diagram



PE	green/yellow	N	black	L	blue

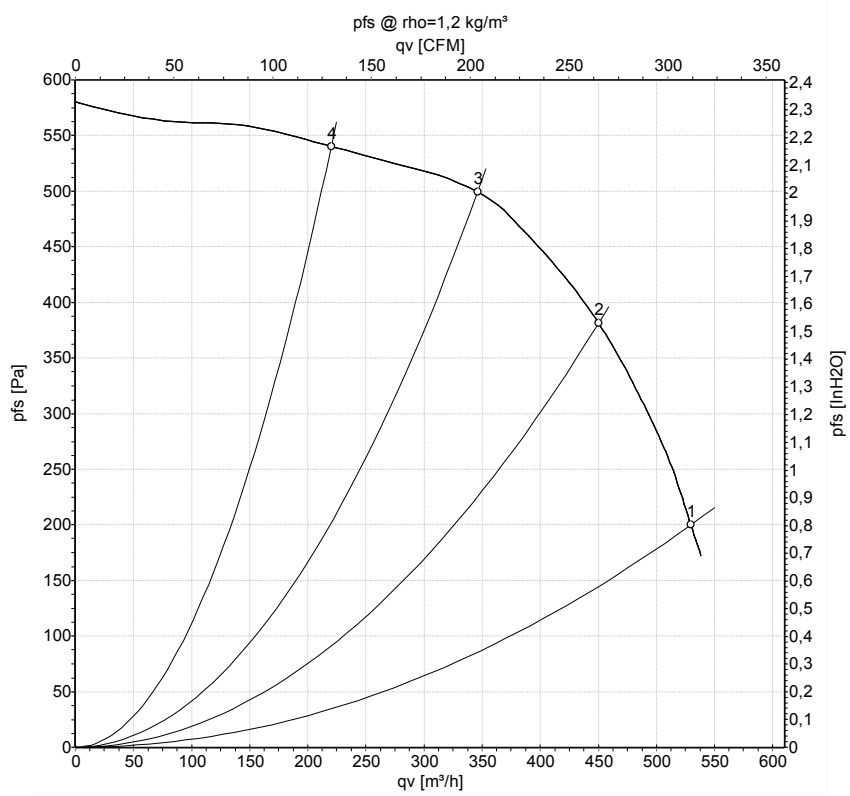
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Curves: Air performance 50 Hz



Measurement: LU-17934-1

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	inH2O
1	240	50	2250	270	1.15	530	200	310	0.80
2	240	50	2465	213	0.88	450	380	265	1.53
3	240	50	2620	179	0.74	345	500	205	2.01
4	240	50	2735	151	0.63	220	540	130	2.17

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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