G2E150-DN91-16

AC centrifugal fan

backward-curved, single-intake

with housing and mounting bracket

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Nominal data

Type	**G2E150-DN91-16**
Motor	**M2E068-BF**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Method of obtaining data		fa
Valid for approval/standard		CE
Speed (rpm)	min^{-1}	2550
Power consumption	W	30
Current draw	A	0.14
Capacitor	µF	1
Capacitor voltage	VDB	400
Capacitor standard		S0 (CE)
Min. back pressure	Pa	0
Min. back pressure	inH2O	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	75
Starting current	A	0.2

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	2.4 kg
Fan size	150 mm
Rotor surface	Partly cast in aluminum
Impeller material	Sheet steel, rust-resistant
Housing material	Sheet steel, aluminized
Number of blades	6
Motor suspension	Motor mounted on support plate for one-sided vibration damping
Direction of rotation	Counterclockwise, 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
Motor protection	Thermal overload protector (TOP) internally connected
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; CE

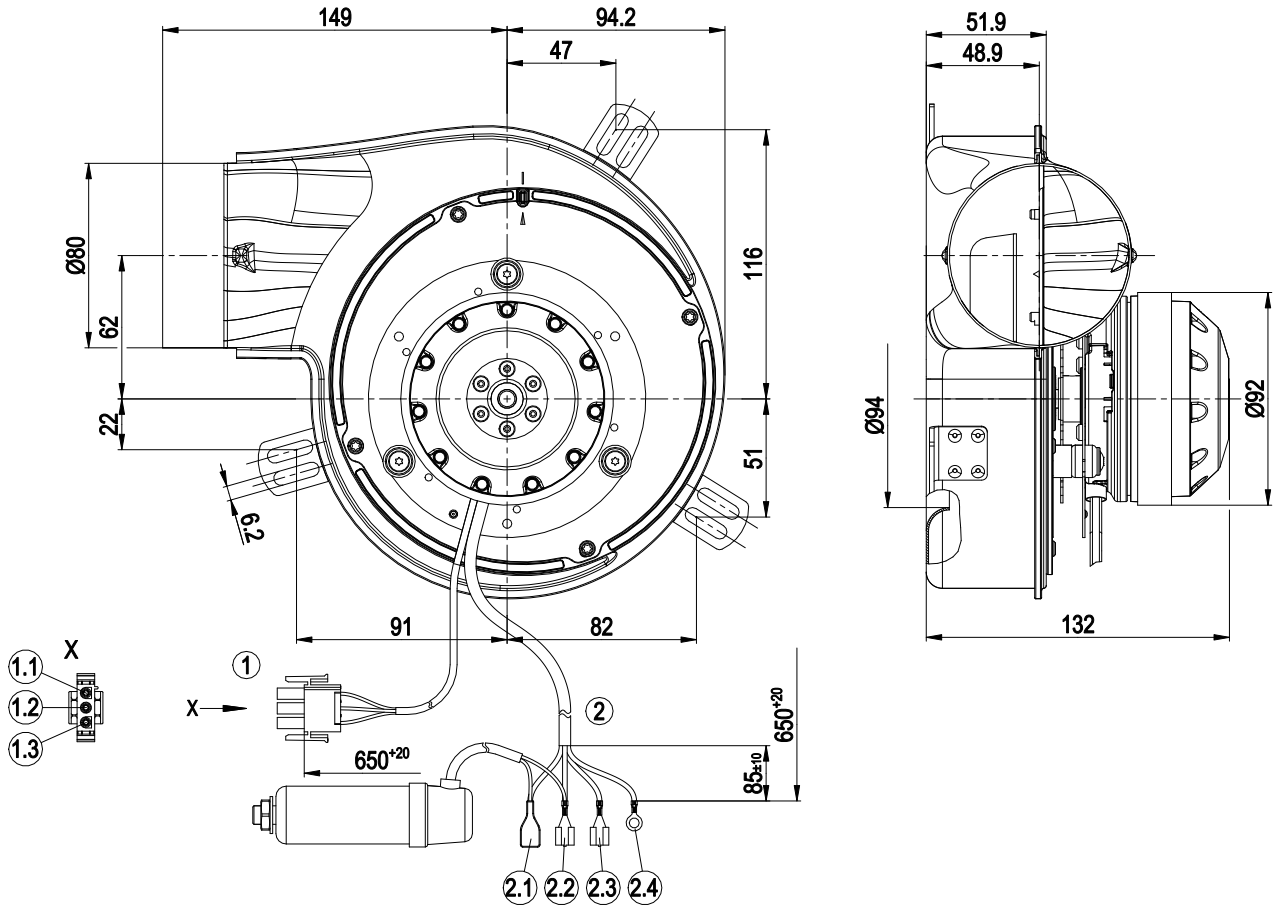
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Product drawing



1	Cable Raychem Spec. 44, AWG24, 3-pole connector housing tyco 350766-4, 3x plug pin tyco 926885-1
1.1	+5 V (red)
1.2	0 V (black)
1.3	out (white)
2	Cable PVC 4G 0.5 mm²
2.1	Flat push-on receptacle 6.3 x 0.8 insulated with heat shrink tube
2.2	L (black + capacitor), flat push-on receptacle 6.3 x 0.8
2.3	N (blue), flat push-on receptacle 6.3 x 0.8
2.4	PE (green/yellow), ring terminal Ø 4.3
-	Note: equipped with shaft seal

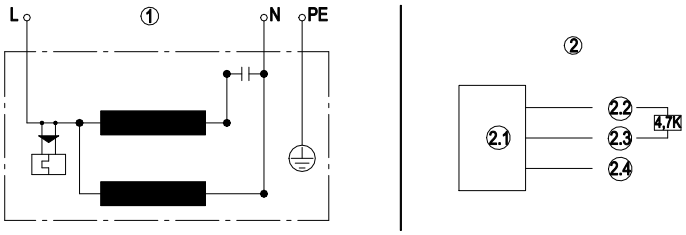
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Connection diagram



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

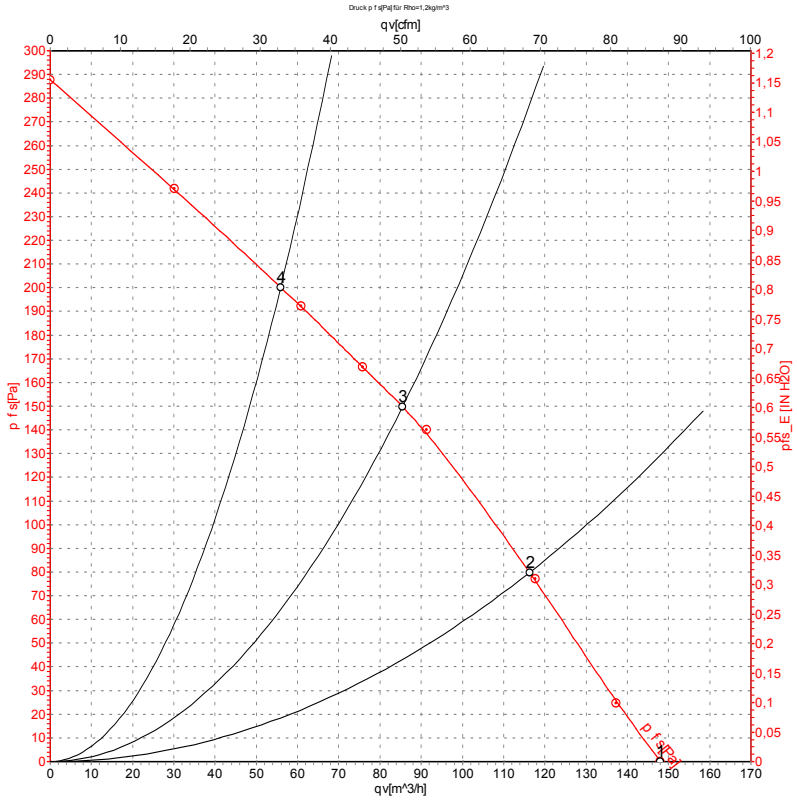
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Curves: Air performance 50 Hz



Measurement: LU-129045-1

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	LpA_{in}	LwA_{in}	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa	cfm	inH2O
1	230	50	2550	30	0.14	60	68	150	0	85	0.00
2	230	50	2575	27	0.12	57	65	115	80	70	0.32
3	230	50	2615	27	0.12	54	62	85	150	50	0.60
4	230	50	2660	26	0.11	54	61	55	200	35	0.80

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
q_V = Air flow · p_{fs} = Pressure increase

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