AC centrifugal fan

G2E150-DK82-15 ebmpapst Datasheet
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Nominal data

Type	**G2E150-DK82-15**	
Motor	**M2E068-BF**	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		fa
Valid for approval / standard		CE
Speed	min^{-1}	2800
Power input	W	41
Current draw	A	0.25
Motor capacitor	µF	1
Capacitor voltage	VDB	400
Capacitor standard		P0 (CE)
Min. back pressure	Pa	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	90
Starting current	A	0.62

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Technical features

Mass	3 kg
Size	150 mm
Surface of rotor	Uncoated
Material of impeller	Sheet steel, rust and acid-resistant
Housing material	Aluminium sheet
Number of blades	6
Motor suspension	Motor anti-vibration mounted on one side via mounting plate
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44
Insulation class	"F"
Humidity class	F0
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Electrical leads	Capacitor mounted
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

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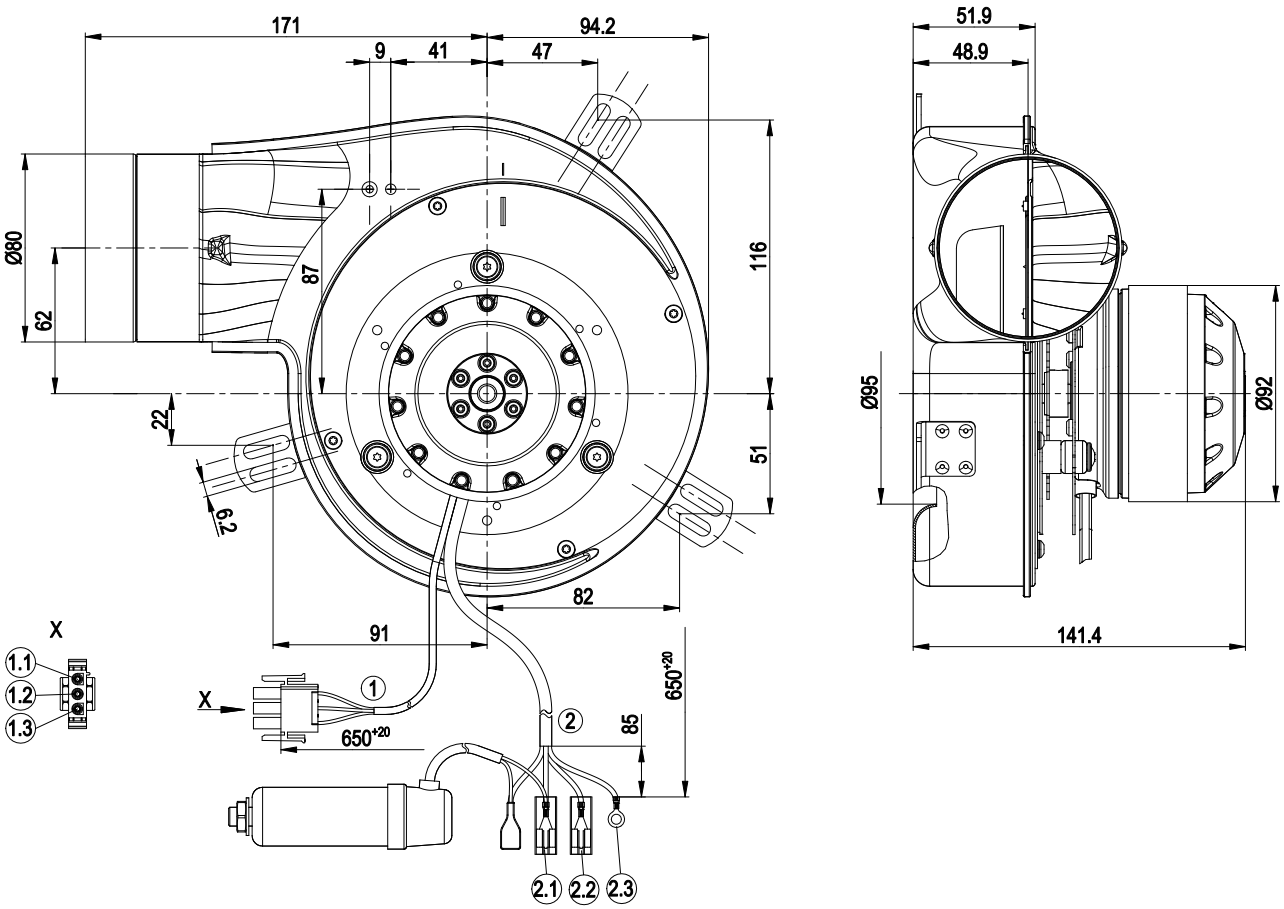
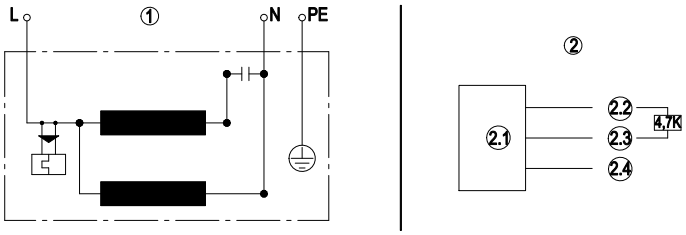
Product drawing



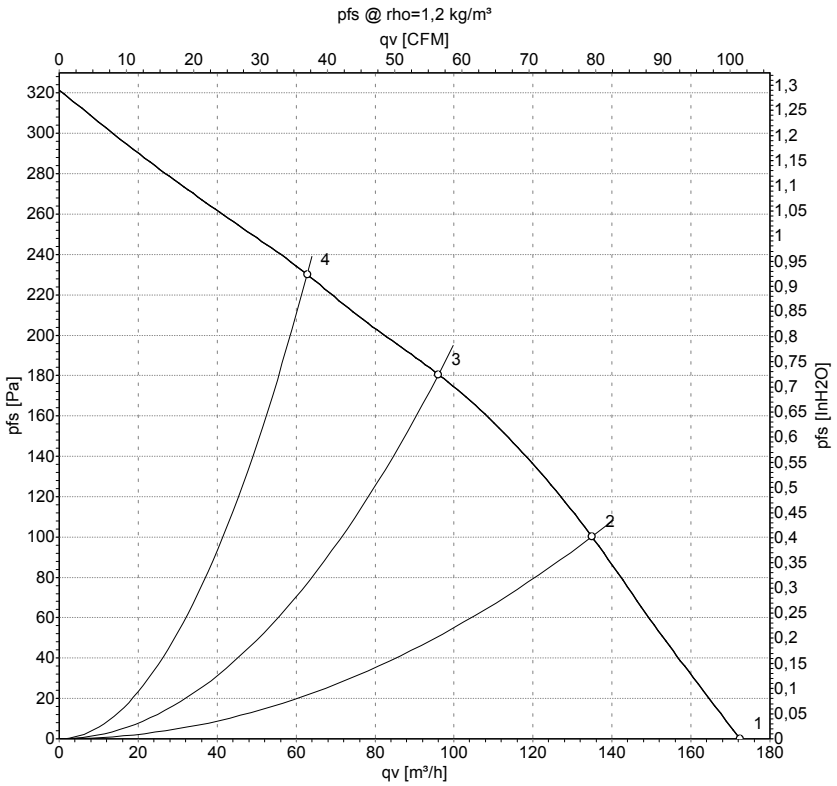
1	Connection line Raychem Spec. 44 AWG24 with connector housing AMP 350 766-4 and 3x plug pin AMP 926 885-1
1.1	+ / red
1.2	- / black
1.3	out / white
2	Connection line silicone 4G 0.5 mm²
2.1	N (threaded pin 6.3 - 0.8)
2.2	L (threaded pin 6.3 - 0.8)
2.3	PE (contact stud 4.3)

Connection screen



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

Charts: Air flow 50 Hz



Measurement: LU-136512

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	U	f	n	P_e	I	LpA_{in}	LwA_{in}	qv	p_{fs}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa
1	230	50	2800	41	0.25	63	70	170	0
2	230	50	2805	40	0.25	61	67	135	100
3	230	50	2820	39	0.25	57	64	95	180
4	230	50	2845	37	0.25	55	64	65	230

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side · qv = Air flow
p_{fs} = Pressure increase