

for solid-fuel heating systems

R2E160-BG34-05 ebmpapst Datasheet

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Nominal data

Type	R2E160-BG34-05	
Motor	M2E068-DF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Method of obtaining data		ml
Valid for approval/standard		CE
Speed (rpm)	min ⁻¹	2800
Power consumption	W	57
Current draw	A	0.26
Capacitor	µF	1.5
Capacitor voltage	VDB	450
Capacitor standard		S0 (CE)
Min. back pressure	Pa	150
Min. back pressure	inH ₂ O	0.6
Max. ambient temperature	°C	80

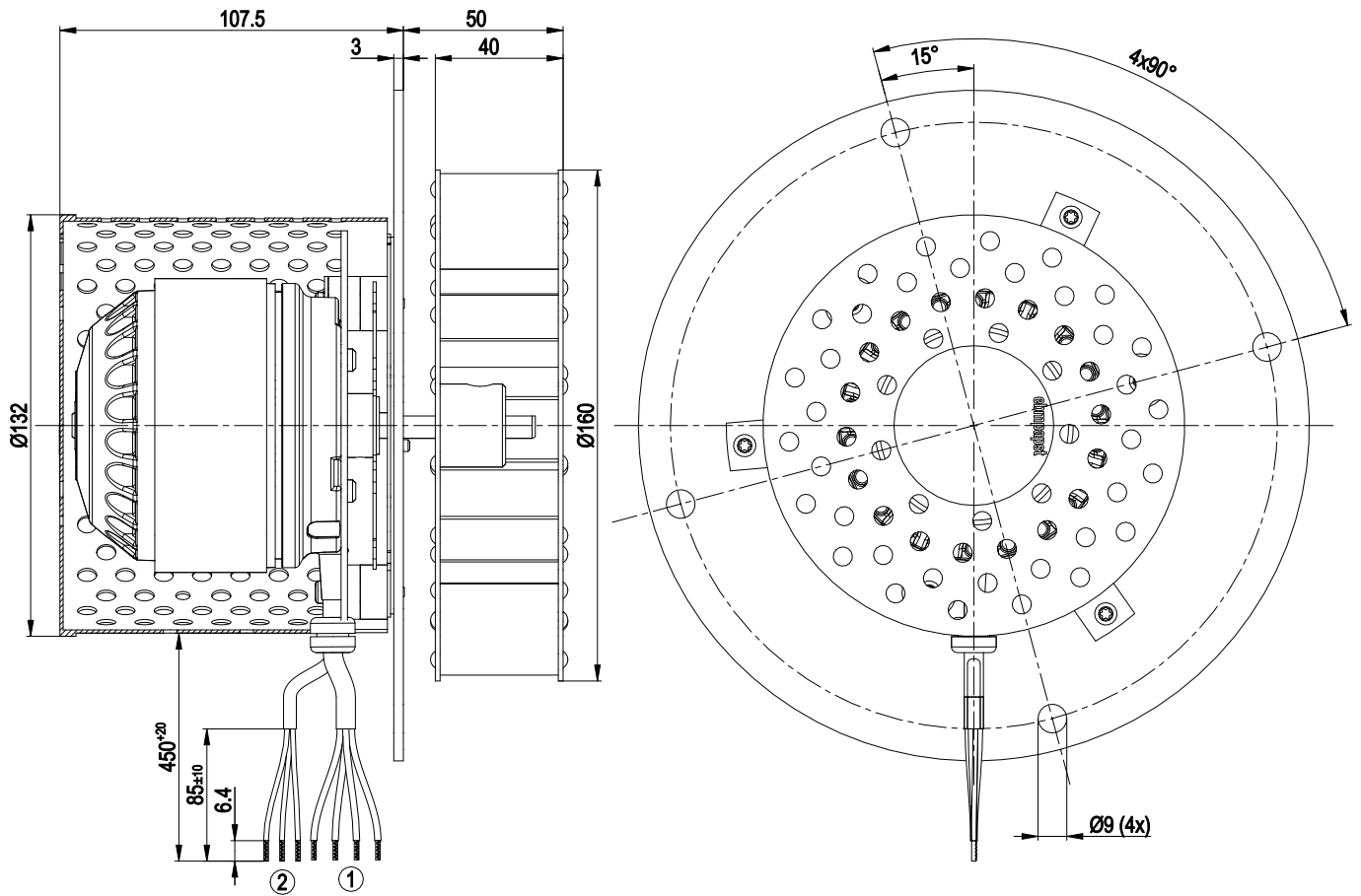
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



Technical description

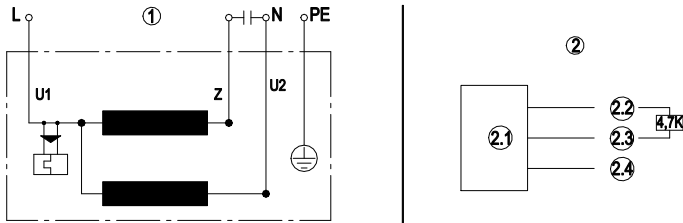
Weight	4.4 kg
Fan size	160 mm
Rotor surface	Partly cast in aluminum
Impeller material	Sheet steel
Support plate material	Sheet steel, hot-dip galvanized
Number of blades	6
Motor suspension	Motor mounted on support plate for one-sided vibration damping
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"F"
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)
Conformity with standards	EN 60335-1; CE

Product drawing



- 1 Cable silicone 4G 0.5 mm², 4x crimped splices
- 2 Cable Raychem AWG24, 3x crimped splices

Connection diagram



1	Fan connection diagram
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U1	blue
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Z	brown
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U2	black
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PE	green/yellow
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2	Hall IC circuit
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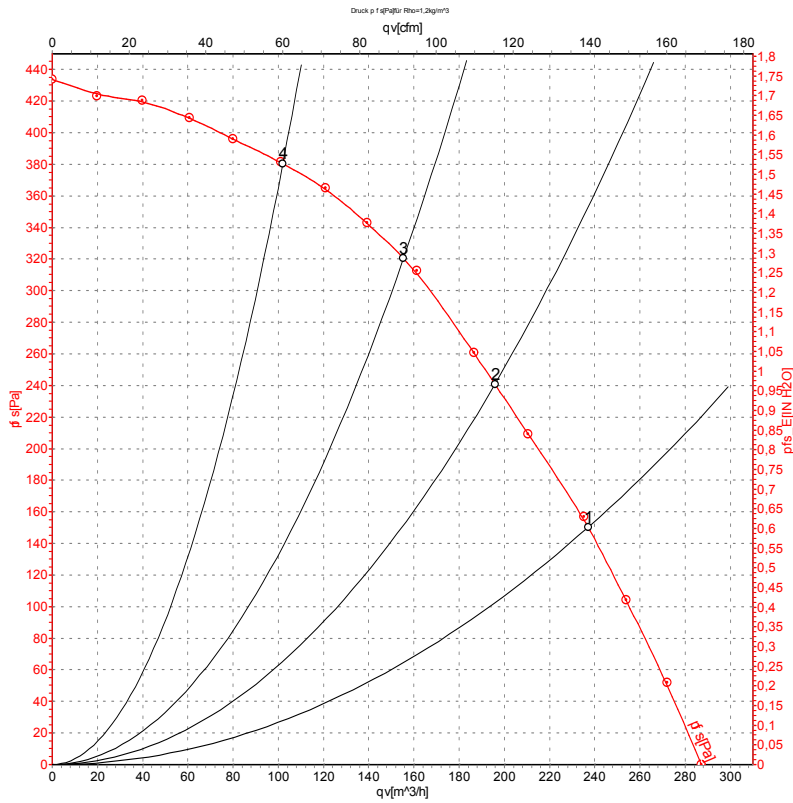
2.1	Hall IC
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2.2	red (+5 V)
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2.3	white (out)
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2.4	black (0 V)
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Curves: Air performance 50 Hz



Measurement: LU-119821-1

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	inH ₂ O
1	230	50	2800	57	0.26	235	150	140	0.60
2	230	50	2805	53	0.24	195	240	115	0.96
3	230	50	2825	48	0.22	155	320	90	1.28
4	230	50	2855	44	0.20	100	380	60	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

