

G2E120-AR77-01

AC centrifugal fan

forward-curved, single-intake
with housing (flange), for solid fuel boilers



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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	G2E120-AR77-01			
Motor	M2E068-BF			
Phase		1~	1~	1~
Nominal voltage	VAC	230	230	230
Frequency	Hz	50	60	60
Method of obtaining data		fa	fa	fa
Valid for approval/standard		CE	UL 2111	CE
Speed (rpm)	min ⁻¹	2350	2450	2450
Power consumption	W	80	105	100
Current draw	A	0.35	0.46	0.44
Capacitor	µF	2	2	2
Capacitor voltage	VDB	450	450	450
Min. back pressure	Pa	0	0	0
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	45	60	55
Starting current	A	0.47	0.47	0.47

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	1.97 kg
Motor size	120 mm
Rotor surface	Uncoated
Impeller material	Sheet steel, hot-dip galvanized
Housing material	Die-cast aluminum
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP 44; installation- and position-dependent
Insulation class	«B»
Moisture protection class	F0
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal
Condensation drainage holes	—
Mode	S1
Motor bearing for motor	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
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	CCC

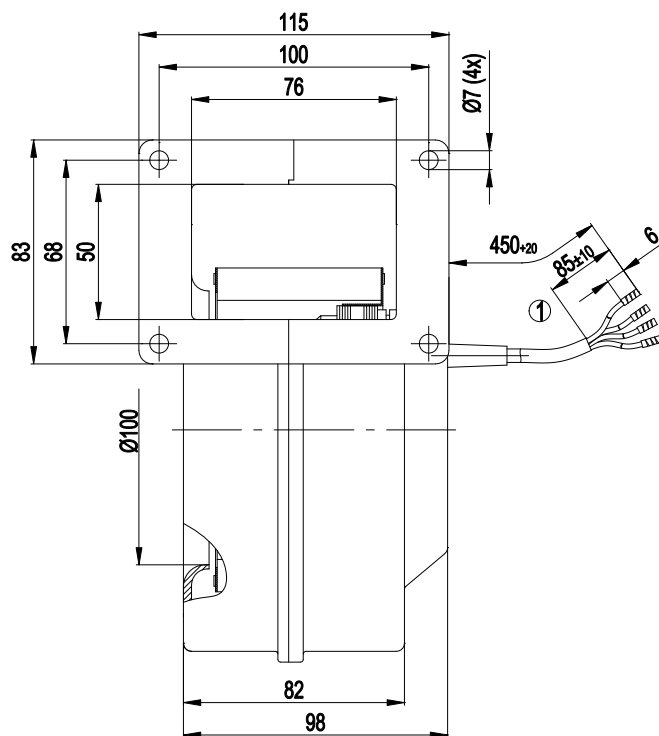
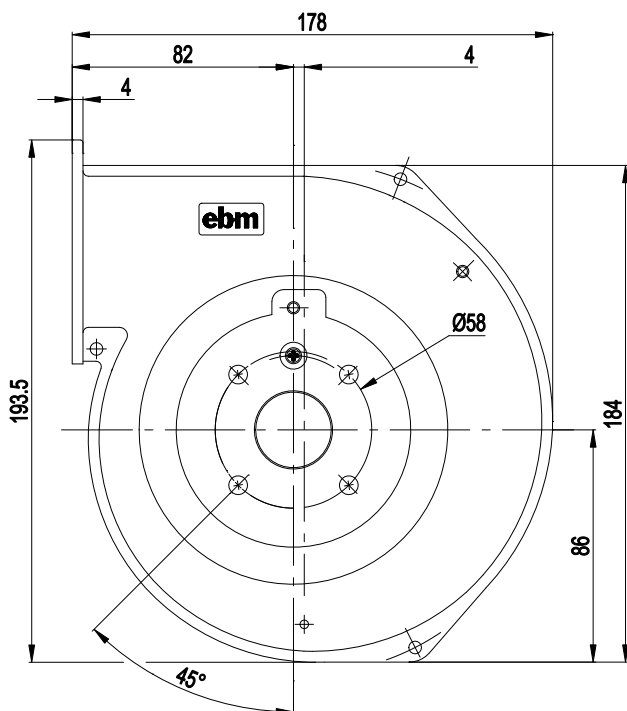


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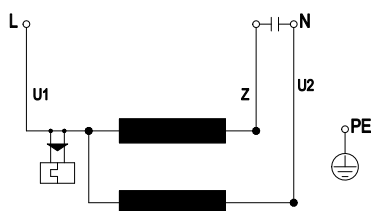
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Product drawing



1 Connection cable PVC

Connection diagram



U1	blue	Z	brown	U2	black
PE	green/yellow				

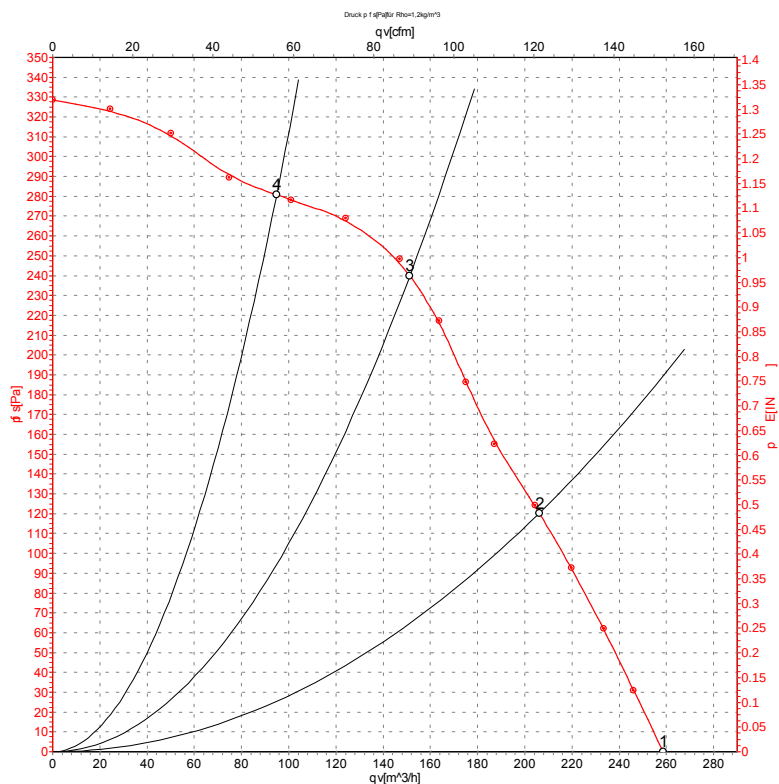


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Curves: Air performance 50 Hz



Measurement: LU-104578

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 must be checked in the installed unit.

Measured values

	U	f	n	P _e	I	qv	p _{ts}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	230	50	2350	80	0.35	260	0
2	230	50	2510	73	0.33	205	120
3	230	50	2640	69	0.32	150	240
4	230	50	2740	66	0.31	95	280

U = Power supply · f = Frequency · n = Speed (rpm) · P

e = Power consumption · I = Current draw · qv = Air flow · p

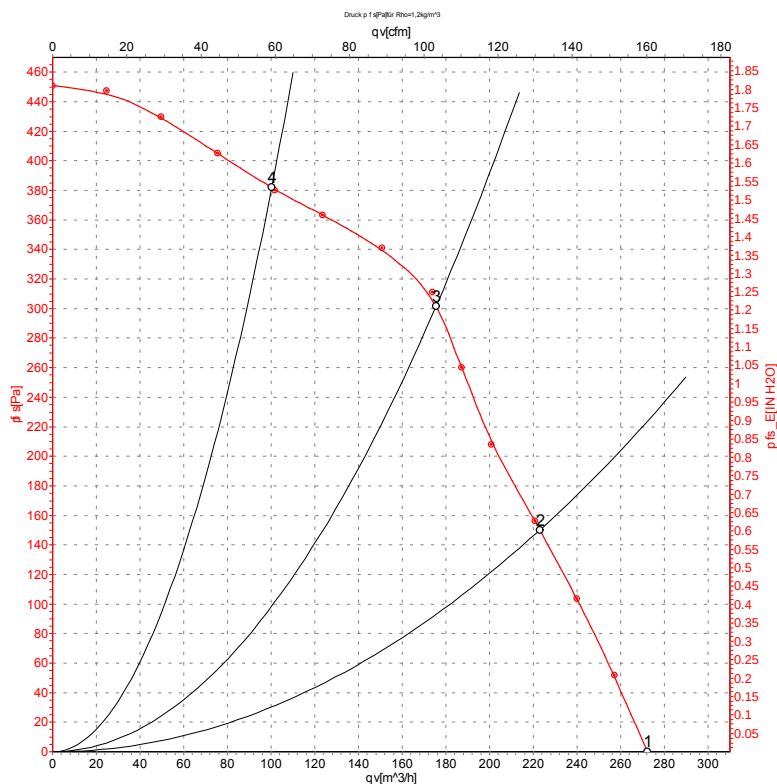
ts = Pressure increase



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Curves: Air performance 60 Hz



Measurement: LU-104581

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 must be checked in the installed unit.

Measured values

	U	f	n	P _e	I	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	230	60	2450	100	0.44	270	0
2	230	60	2770	92	0.40	225	150
3	230	60	2950	86	0.37	175	300
4	230	60	3180	77	0.34	100	380

U = Power supply · f = Frequency · n = Speed (rpm) · P

e = Power consumption · I = Current draw · qv = Air flow · p

fs = Pressure increase

