

R2E190-AO26-05

AC centrifugal fan

backward-curved, single-intake

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Nominal data

Type	R2E190-AO26-05		
Motor	M2E068-BF		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	2500	2700
Power consumption	W	58	75
Current draw	A	0.26	0.34
Capacitor	µF	2	2
Capacitor voltage	VDB	400	400
Capacitor standard		P0 (CE)	P0 (CE)
Min. back pressure	Pa	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	50	55
Starting current	A	0.40	0.41

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

Subject to change



Technical description

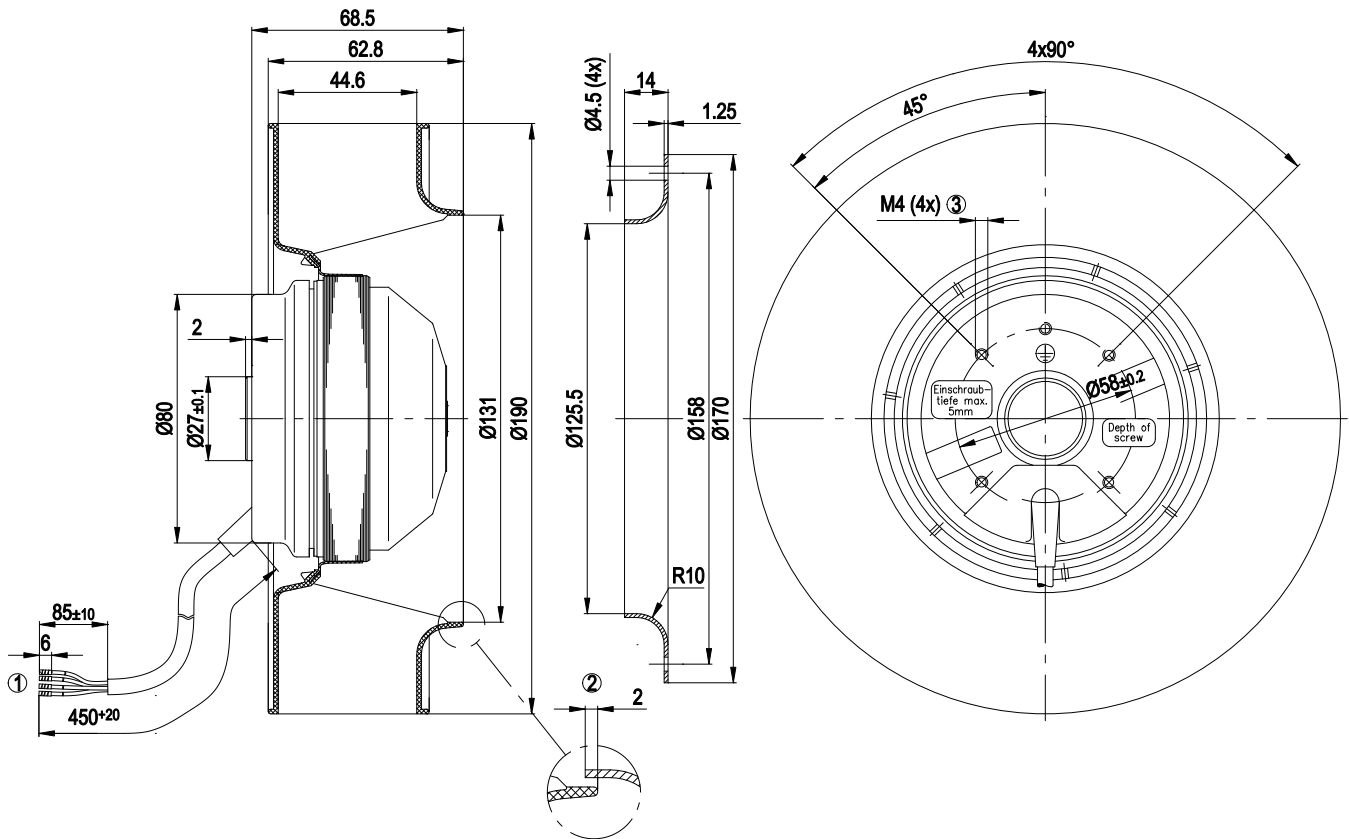
Weight	1.2 kg
Motor size	190 mm
Rotor surface	Painted black
Impeller material	PA 6 plastic, glass-fiber reinforced
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP 44; installation- and position-dependent as per EN 60034-5
Insulation class	«B»
Moisture protection class	F1-2
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
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
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	CCC; GOST

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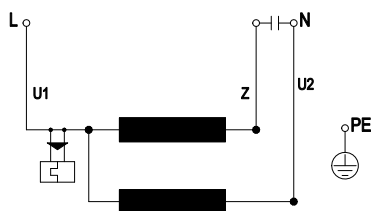
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Product drawing



1	Connection cable PVC
2	Accessory part: inlet ring 09576-2-4013 not included in scope of delivery
3	Max. clearance for screw 5 mm

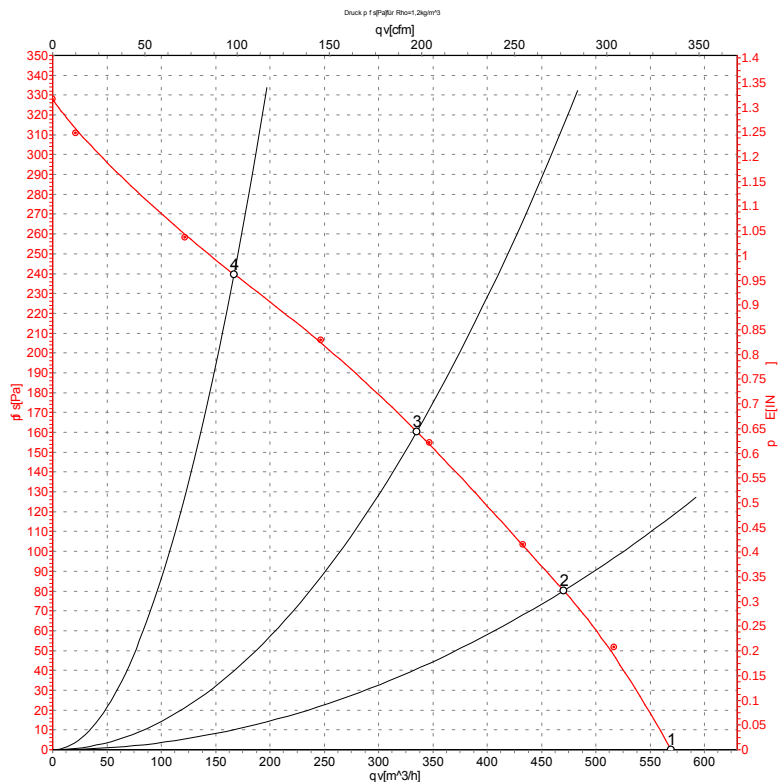
Connection diagram



U1	blue	Z	brown	U2	black
PE	green/yellow				



Curves: Air performance 50 Hz



Measurement: LU-53162

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	50	2500	58	0.26	570	0
2	230	50	2470	60	0.26	470	80
3	230	50	2415	61	0.27	335	160
4	230	50	2500	58	0.25	165	240

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

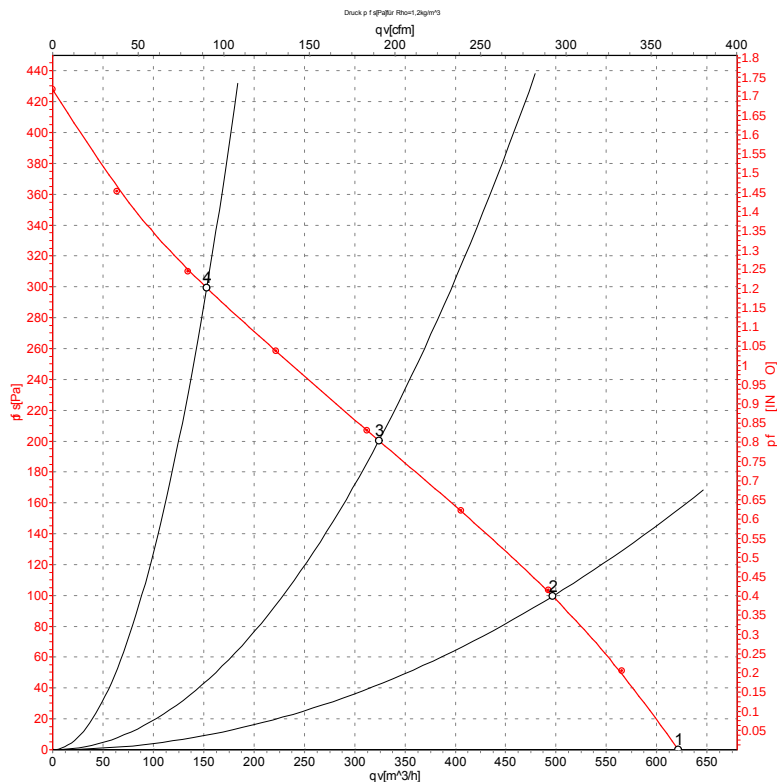
e = Power consumption · I = Current draw · qv = Air flow · p

fs = Pressure increase

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Curves: Air performance 60 Hz



Measurement: LU-53163

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	2700	75	0.34	620	0
2	230	60	2690	76	0.34	495	100
3	230	60	2570	79	0.35	325	200
4	230	60	2755	75	0.33	155	300

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

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

fs = Pressure increase

