R2E180-AU01-19

AC circulation blower for hot air

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Nominal data

Type	**R2E180-AU01-19**
Motor	**M2E068-CF**

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}	2400	2450
Power consumption	W	85	112
Current draw	A	0.38	0.48
Capacitor	µF	2	2
Capacitor voltage	VDB	400	400
Capacitor standard		S0 (CE)	S0 (CE)
Min. back pressure	Pa	0	0
Min. back pressure	inH2O	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	100	95
Starting current	A	0.73	0.76

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

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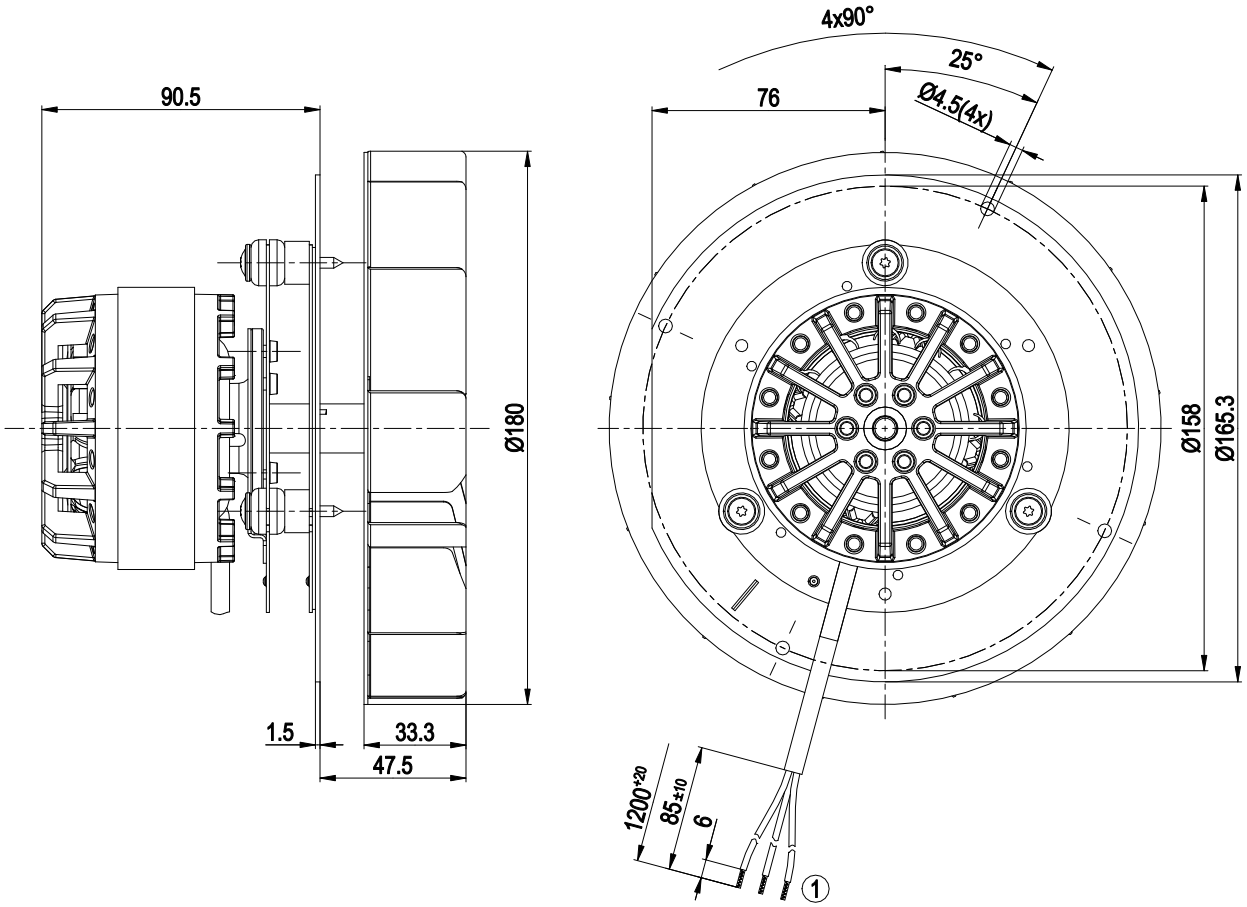
Technical description

Weight	2.4 kg
Fan size	180 mm
Rotor surface	Painted black
Impeller material	Sheet steel, rust- and acid-resistant
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP00
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H0+
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, open rotor
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	Lateral
Protection class	Built-in component with basic insulation, protection class results from installation according to intended use
Conformity with standards	EN 60335-1; CE

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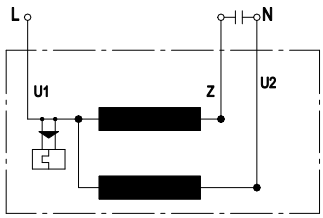
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Product drawing



1	Cable silicone 3x 0.5 mm², 3x crimped splices

Connection diagram

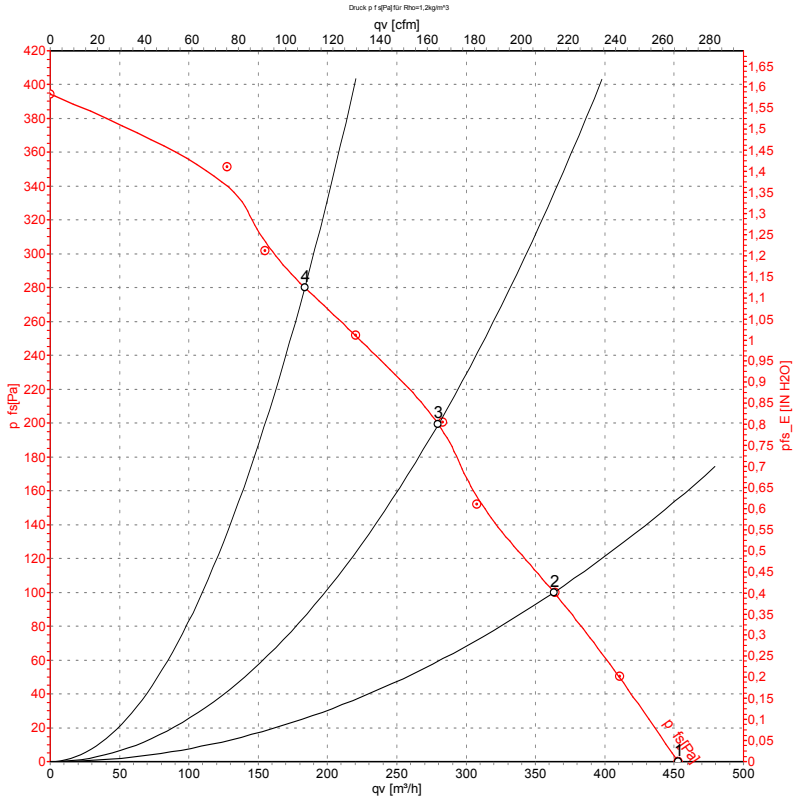


U1	blue	Z	brown	U2	black

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AC circulation blower for hot air

Curves: Air performance 50 Hz



Measurement: LU-5453-1

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

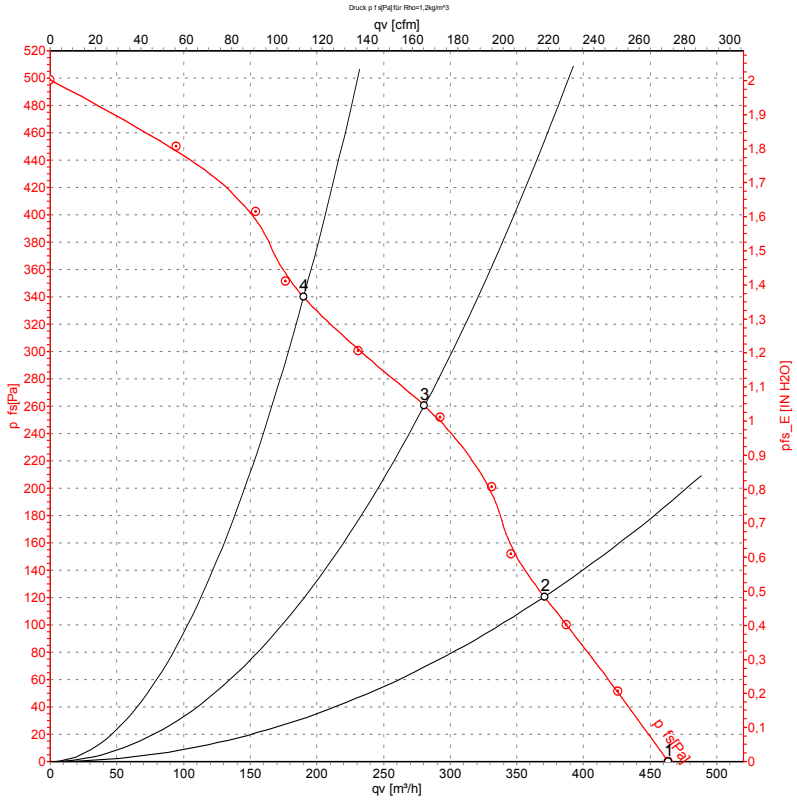
	U	f	n	P_e	I	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	50	2400	85	0.38	455	0	265	0.00
2	230	50	2455	82	0.36	365	100	215	0.40
3	230	50	2550	74	0.33	280	200	165	0.80
4	230	50	2570	72	0.32	185	280	110	1.12

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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AC circulation blower for hot air

Curves: Air performance 60 Hz



Measurement: LU-20384-1

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	inH2O
1	230	60	2450	112	0.48	465	0	275	0.00
2	230	60	2585	107	0.46	370	120	220	0.48
3	230	60	2765	98	0.43	280	260	165	1.04
4	230	60	2815	96	0.42	190	340	110	1.36

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