

## Nominal data

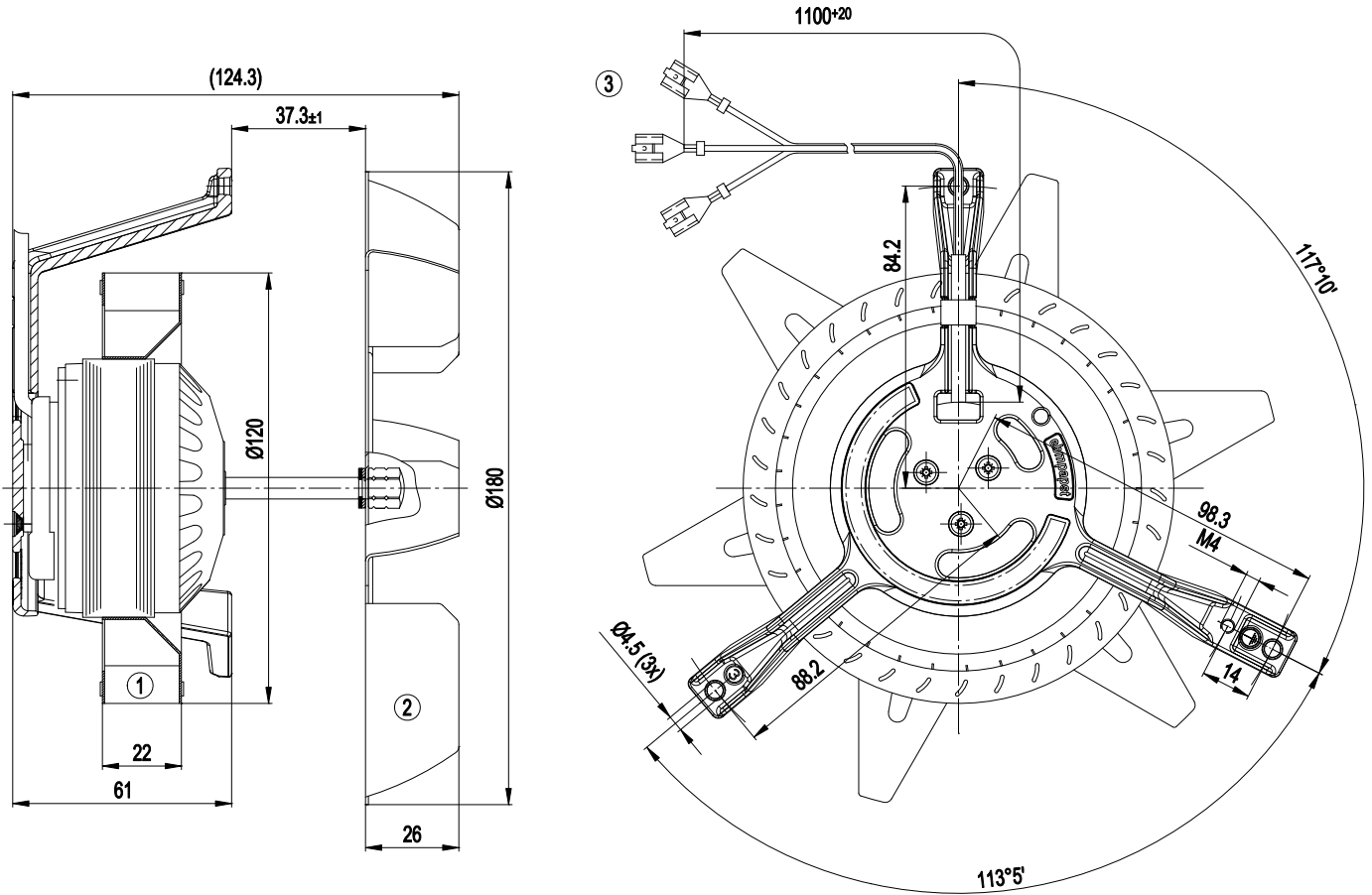
Type	R2E180-BD52-06		
Motor	M2E052-CA		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		fa	fa
Valid for approval / standard		CE	CE
Speed	min <sup>-1</sup>	2300	2300
Power input	W	52	65
Current draw	A	0.24	0.3
Motor capacitor	μF	1.5	1.5
Capacitor voltage	VDB	400	400
Capacitor standard		P0 (CE)	P0 (CE)
Min. back pressure	Pa	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	70	65

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit  
Subject to alterations

### Technical features

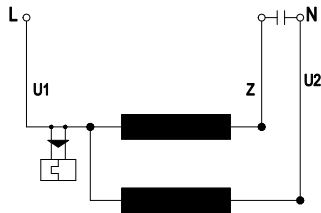
Mass	1.0 kg
Size	180 mm
Surface of rotor	Uncoated
Material of impeller	Sheet steel, stainless
Number of blades	6
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 00
Insulation class	"F"
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor 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
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Lateral
Product conforming to standard	EN 60335-1; CE
Approval	CCC

## Product drawing



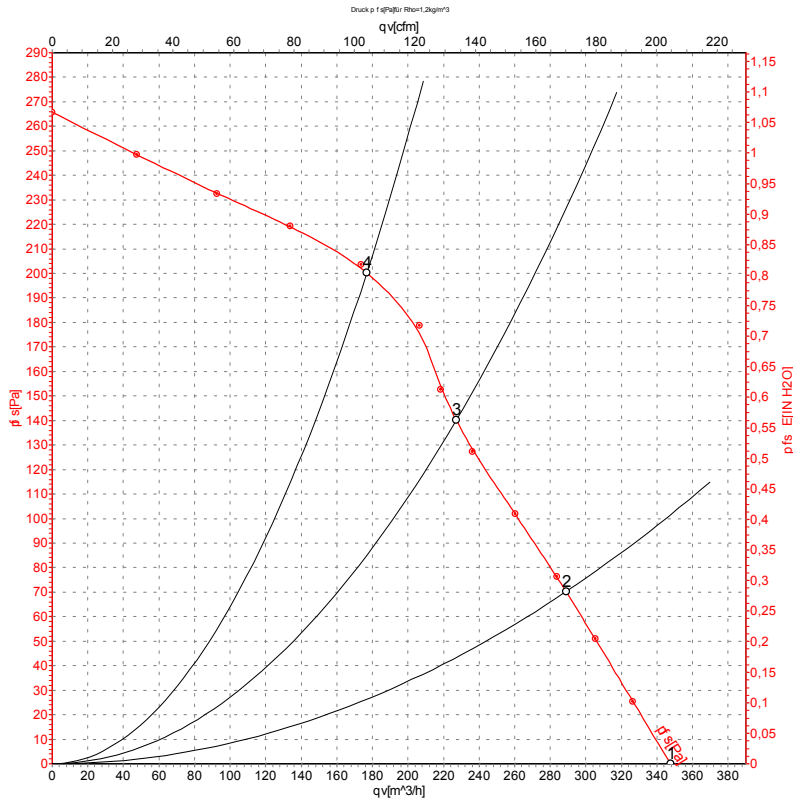
1	Centrifugal impeller (sheet steel, galvanised)
2	Centrifugal impeller (sheet steel, stainless)
3	Connection line ETFE AWG 20, 3x crimped receptacles for tabs 6.3 x 0.8

## Connection screen



U1	blue	Z	brown	U2	black
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## Charts: Air flow 50 Hz



Measurement: LU-37375

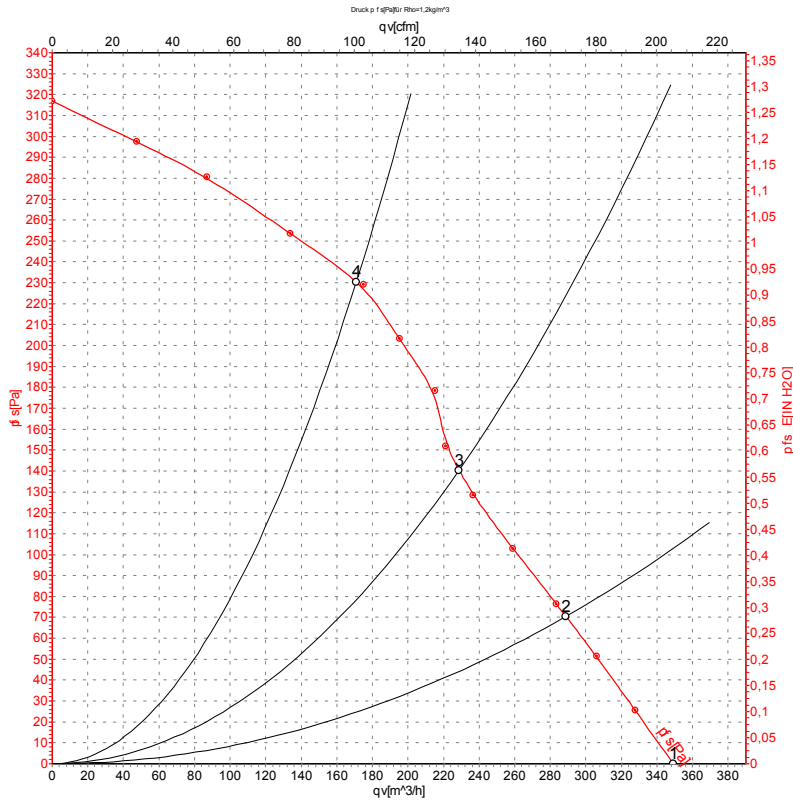
Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: L<sub>WA</sub> measured as per ISO 13347 / L<sub>pA</sub> measured with 1m distance to fan axis. The values given are valid under the 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 <sub>e</sub>	I	qv	P <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa
1	230	50	2300	52	0.24	350	0
2	230	50	2300	52	0.23	290	70
3	230	50	2320	51	0.22	225	140
4	230	50	2445	48	0.21	175	200

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow · p<sub>fs</sub> = Pressure increase

## Charts: Air flow 60 Hz



Measurement: LU-37376

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: L<sub>WA</sub> measured as per ISO 13347 / L<sub>pA</sub> 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 <sub>e</sub>	I	qv	P <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa
1	230	60	2300	65	0.30	350	0
2	230	60	2295	65	0.28	290	70
3	230	60	2330	64	0.28	230	140
4	230	60	2610	60	0.26	170	230

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow · p<sub>fs</sub> = Pressure increase