

ebm-papst Mulfingen GmbH & Co. KG

Bachmühle 2 · D-74673 Mulfingen

Phone +49 7938 81-0

Fax +49 7938 81-110

info1@de.ebmpapst.com

www.ebmpapst.com

Limited partnership · Headquarters Mulfingen

County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

County court Stuttgart · HRB 590142

Nominal data

Type	A2E170-AF23-02		
Motor	M2E068-BF		
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 ⁻¹	2700	3150
Power input	W	47	53
Current draw	A	0.23	0.23
Motor capacitor	µF	1.5	1.5
Capacitor voltage	VDB	450	450
Capacitor standard		P0 (CE)	P0 (CE)
Max. ambient temperature	°C	45	60
Starting current	A	0.38	0.38

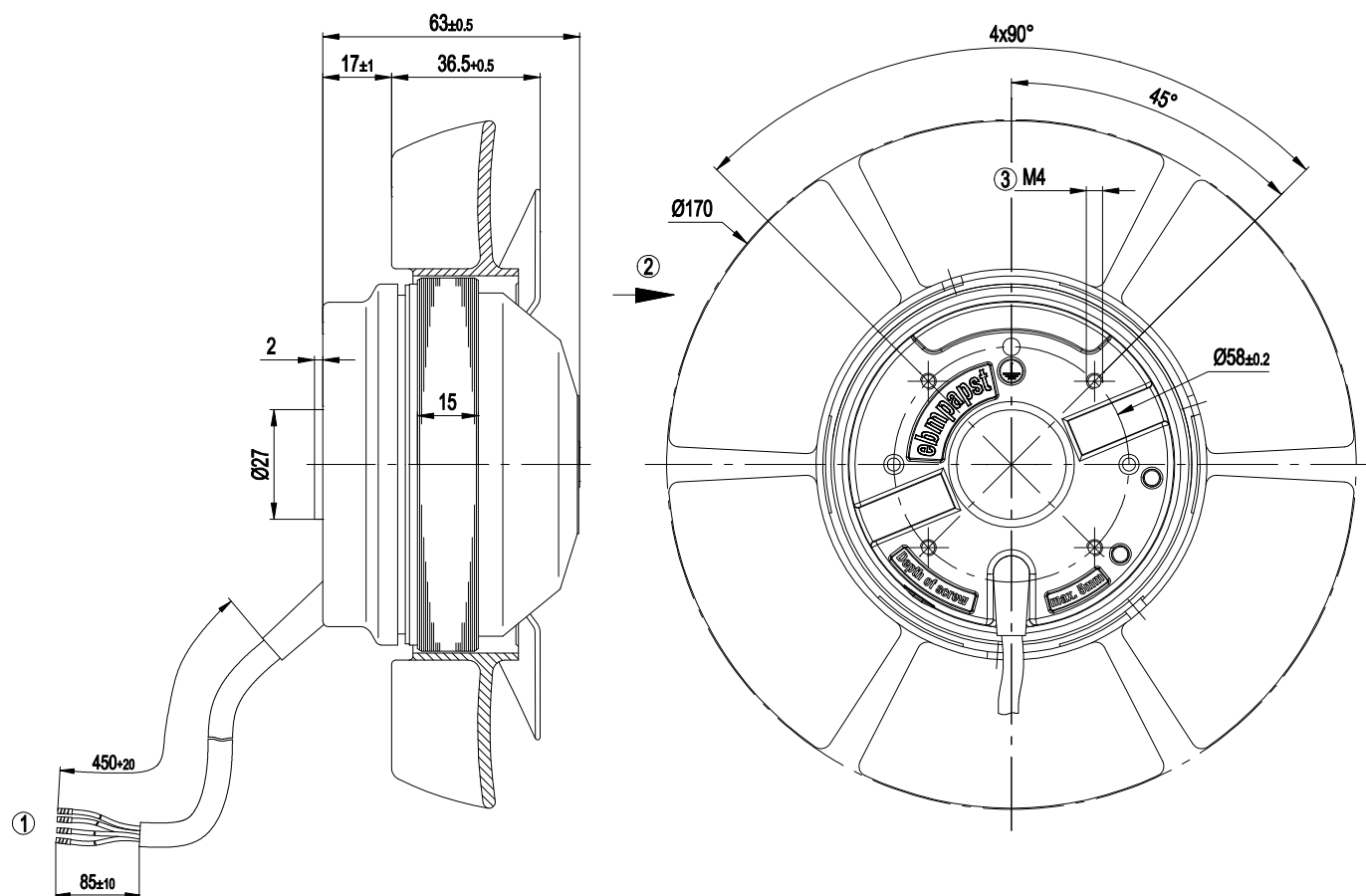
ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations



Technical features

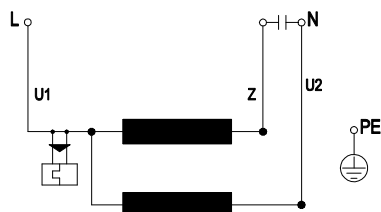
Mass	1.2 kg
Size	170 mm
Surface of rotor	Coated in black
Material of impeller	Die-cast aluminium
Number of blades	6
Direction of air flow	"A"
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"B"
Humidity class	F5
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
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	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

Product drawing



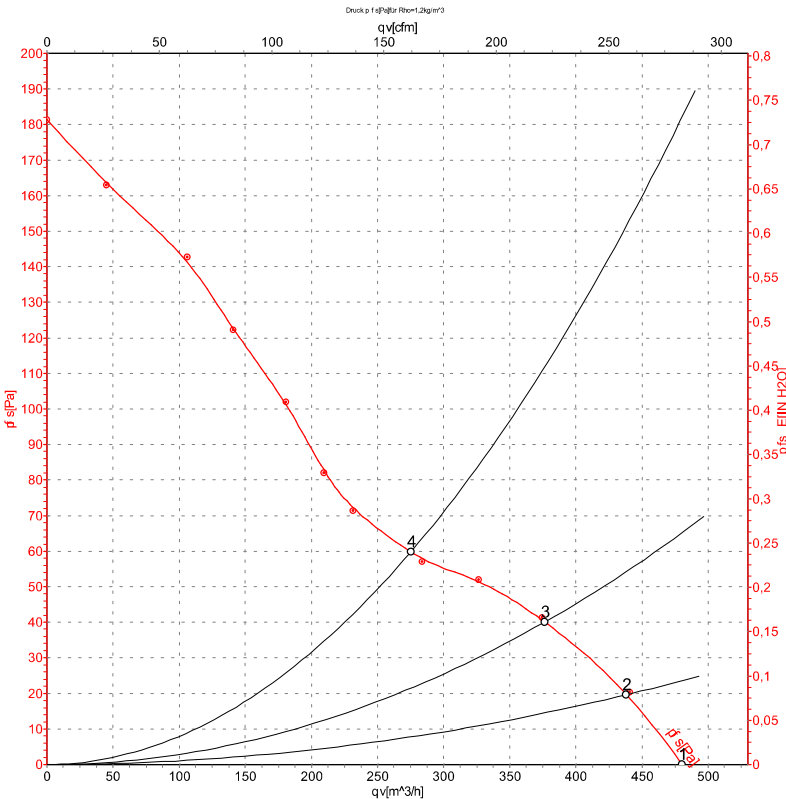
- | | |
|---|---|
| 1 | Connection line PVC, 4x brass lead tips crimped |
| 2 | Direction of air flow "A" |
| 3 | Depth of screw max. 5 mm |

Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow				

Charts: Air flow 50 Hz



Measurement: LU-43538

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_{wA} measured as per ISO 13347 /
L_{pA} 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.

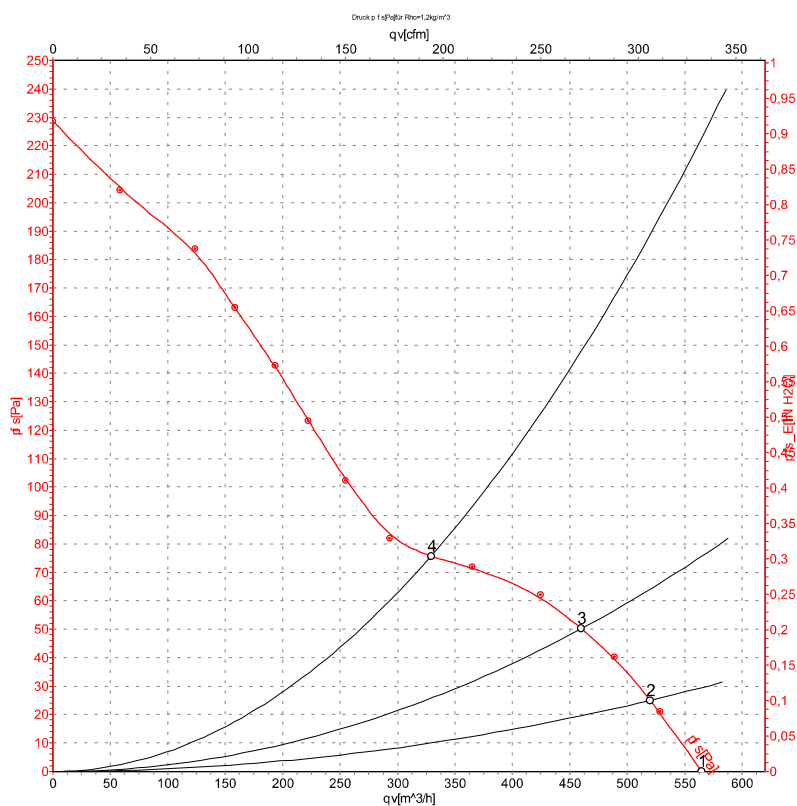
Measured values

	U	f	n	P _e	I	qv	p _{ts}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	230	50	2700	47	0.23	480	0
2	230	50	2680	48	0.23	440	20
3	230	50	2655	49	0.23	375	40
4	230	50	2655	49	0.23	275	60

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{ts} = Pressure increase



Charts: Air flow 60 Hz



Measurement: LU-43537

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_{WA} measured as per ISO 13347 /
L_{pA} 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 _e	I	qv	p _{ts}
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa
1	230	60	3150	53	0.23	565	0
2	230	60	3120	54	0.24	520	25
3	230	60	3075	56	0.24	460	50
4	230	60	3075	56	0.24	330	75

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{ts} = Pressure increase