

**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

Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

**Nominal data**

<b>Type</b>	<b>W2E143-AA09-25</b>		
<b>Motor</b>	<b>M2E052-BF</b>		
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	min <sup>-1</sup>	2800	3300
Power consumption	W	24	26
Current draw	A	0.12	0.11
Capacitor	µF	0.75	0.75
Capacitor voltage	VDB	400	400
Capacitor standard		P0 (CE)	P0 (CE)
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	70	70

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

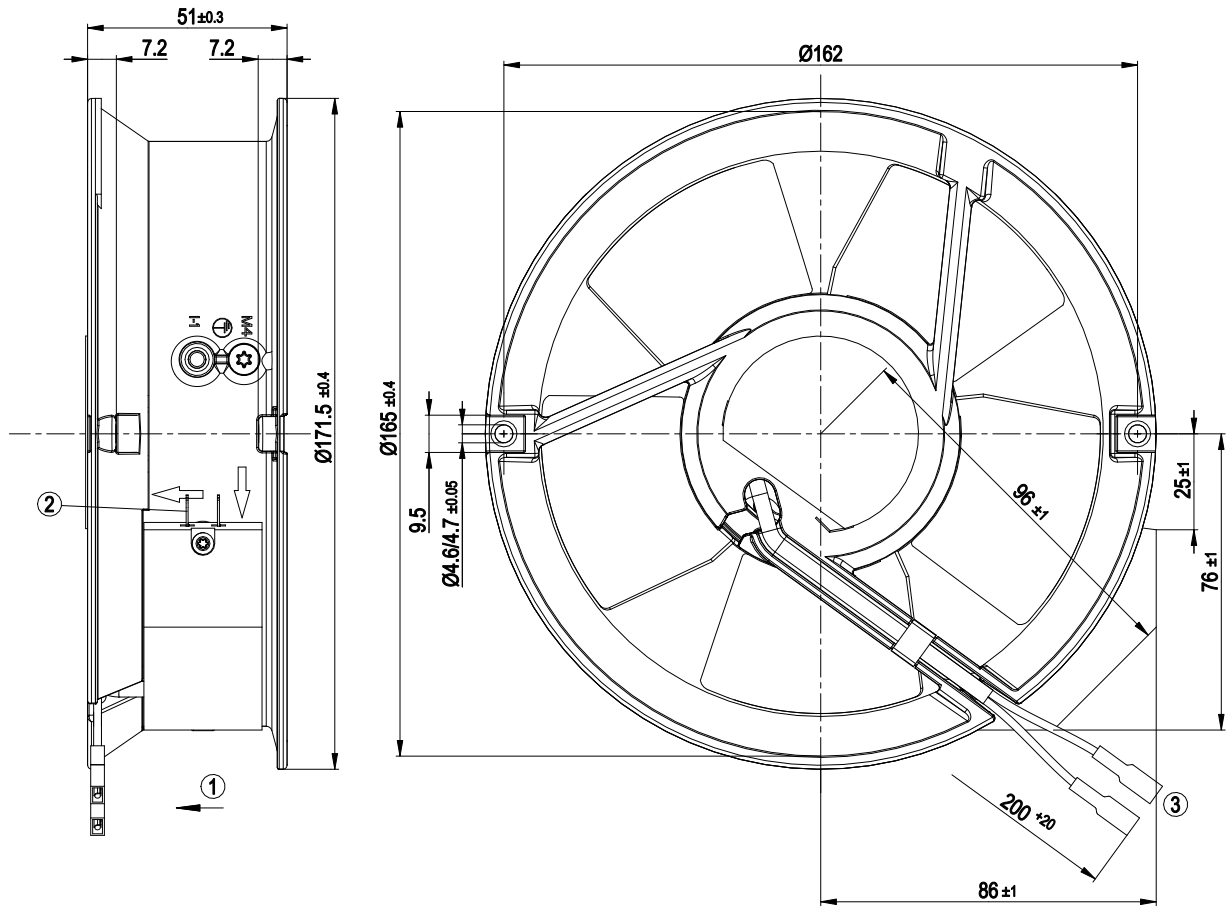
Subject to change



### Technical description

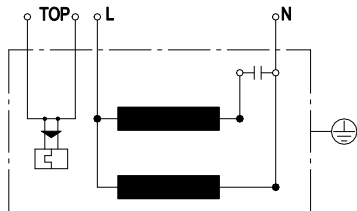
<b>Weight</b>	1.0 kg
<b>Fan size</b>	143 mm
<b>Rotor surface</b>	Rotor open, painted black
<b>Blade material</b>	Sheet steel, painted black
<b>Housing material</b>	Die-cast aluminum, painted black
<b>Number of blades</b>	5
<b>Airflow direction</b>	"V"
<b>Direction of rotation</b>	Counterclockwise, viewed toward rotor
<b>Degree of protection</b>	IP20
<b>Insulation class</b>	"B"
<b>Max. permitted ambient temp. for motor (transport/storage)</b>	+ 80 °C
<b>Min. permitted ambient temp. for motor (transport/storage)</b>	- 40 °C
<b>Installation position</b>	Any
<b>Condensation drainage holes</b>	None, open rotor
<b>Motor storage</b>	Ball bearing
<b>Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)</b>	< 0.75 mA
<b>Electrical hookup</b>	With plug
<b>Motor protection</b>	Thermal overload protector (TOP) externally wired
<b>Protection class</b>	I (with customer connection of protective earth)
<b>Motor capacitor according to EN 60252-1 in safety protection class</b>	P0/S0
<b>Conformity with standards</b>	EN 60335-1; CE
<b>Approval</b>	VDE

## Product drawing



1	Direction of air flow "V"
2	2x flat plugs 2.8 x 0.5 mm
3	Cable AWG22 (TOP), 2x crimped flat push-on receptacle G+H 25036.213.011, with insulating sleeve 2.8 SES no. 105-21

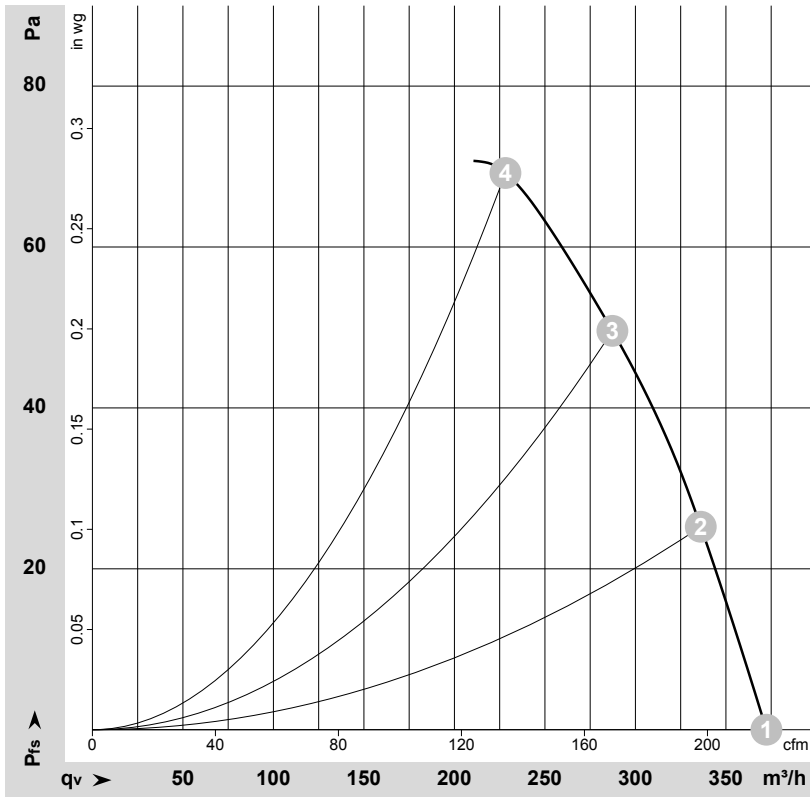
## Connection diagram



L	blue	N	black	TOP	2x white
---	------	---	-------	-----	----------



## Curves: Air performance 50 Hz



$\rho = 1,15 \text{ kg/m}^3 \pm 2\%$

Measurement: LU-26627

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.

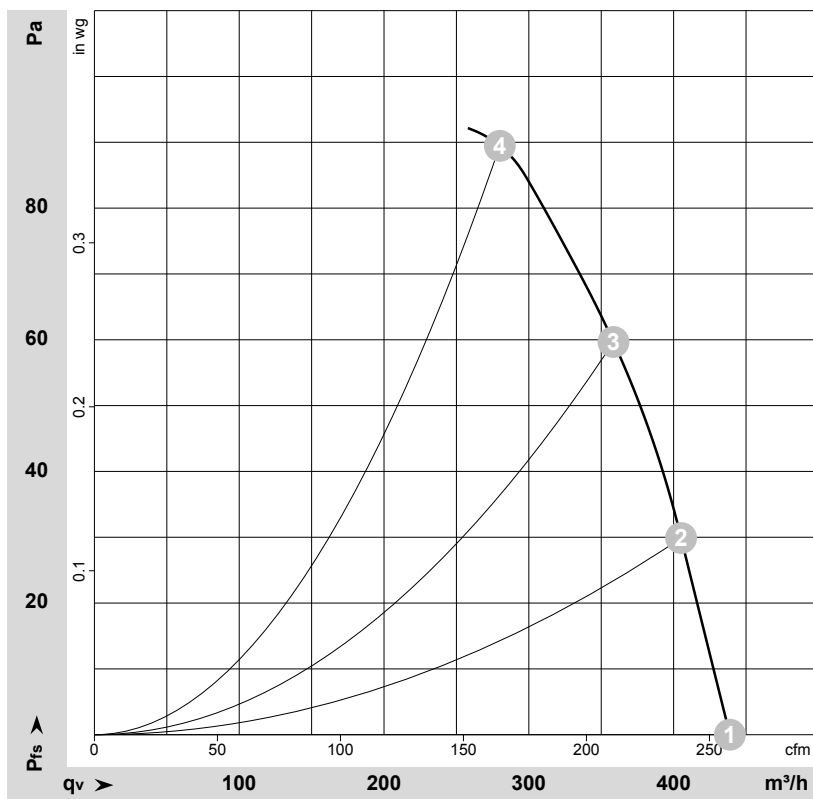
## Measured values

	U	f	n	P <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	2800	24	0.12	370	0
2	230	50	2840	25	0.12	335	25
3	230	50	2825	25	0.12	285	50
4	230	50	2810	26	0.13	230	70

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



## Curves: Air performance 60 Hz


 $\rho = 1,15 \text{ kg/m}^3 \pm 2\%$ 

Measurement: LU-26628

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 <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	3300	26	0.11	440	0
2	230	60	3350	28	0.12	405	30
3	230	60	3320	29	0.13	360	60
4	230	60	3280	30	0.13	280	90

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