

**ebm-papst Mulfingen GmbH & Co. KG**

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Limited partnership · Headquarters Mulfingen  
County court Stuttgart · HRA 590344General partner: Elektrobau Mulfingen GmbH · Headquarters Mulfingen  
County court Stuttgart · HRB 590142**Nominal data**

<b>Type</b>	<b>W2S130-AB03-10</b>				
<b>Motor</b>	<b>M2S052-CA</b>				
Phase		1~	1~	1~	1~
Nominal voltage	VAC	230	230	240	240
Nominal voltage range	VAC			220 .. 240	220 .. 240
Frequency	Hz	50	60	50	60
Type of data definition		fa	fa	fa	fa
State				prelim.	prelim.
Valid for approval / standard		CE	CE	CE	CE
Speed	min <sup>-1</sup>	2800	3250	2800	3250
Power input	W	45	39	55	45
Current draw	A	0.3	0.25	0.35	0.27
Max. ambient temperature	°C	30	60	-	-

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

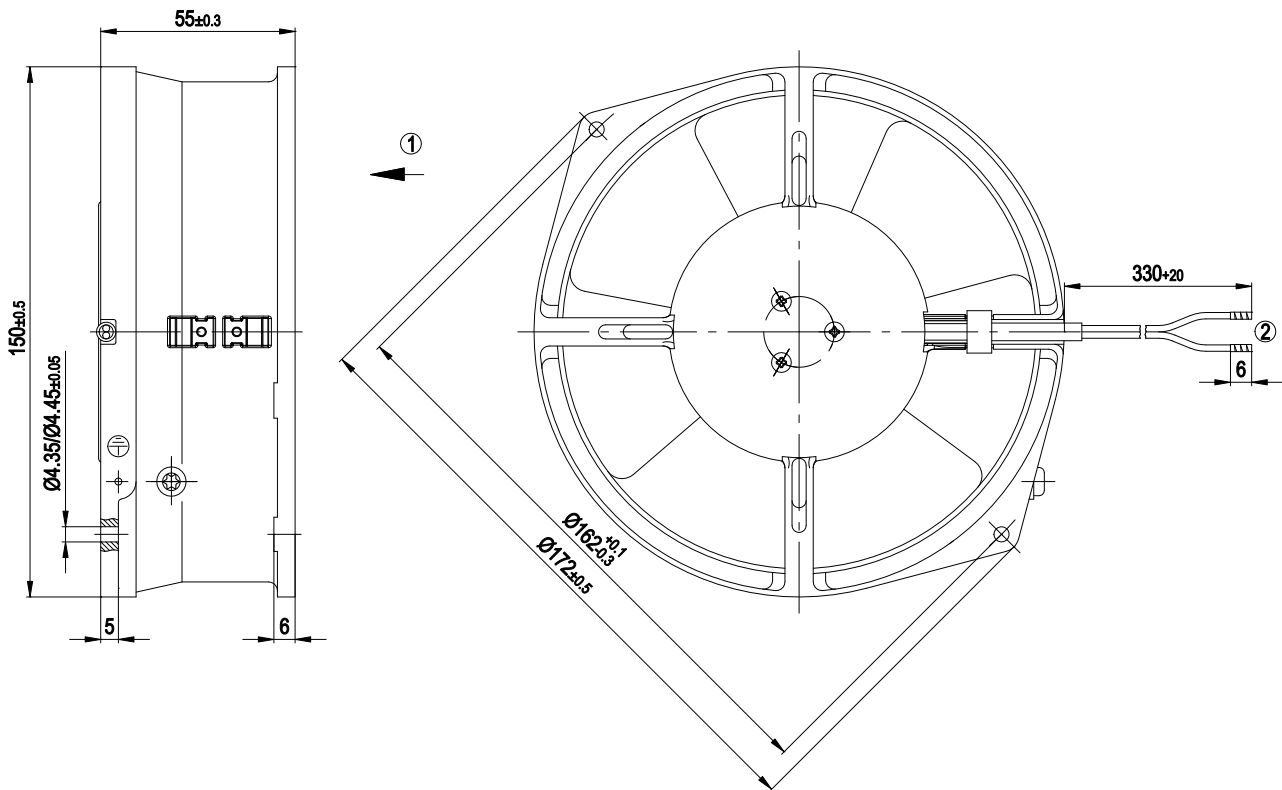


### Technical features

<b>Mass</b>	1.1 kg
<b>Size</b>	130 mm
<b>Surface of rotor</b>	Coated in black
<b>Material of blades</b>	Sheet steel, coated in black
<b>Material of wall ring</b>	Die-cast aluminium, coated in black
<b>Number of blades</b>	7
<b>Direction of air flow</b>	"V"
<b>Direction of rotation</b>	Counter-clockwise, seen on rotor
<b>Type of protection</b>	IP 54
<b>Insulation class</b>	"B"
<b>Max. permissible ambient motor temp. (transp./ storage)</b>	+ 80 °C
<b>Min. permissible ambient motor temp. (transp./storage)</b>	- 40 °C
<b>Mounting position</b>	Any
<b>Condensate discharge holes</b>	None
<b>Operation mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Leakage current</b>	< 0.75 mA
<b>Motor protection</b>	Thermal overload protector (TOP) wired internally
<b>Protection class</b>	I (if earth wire is connected by customer)
<b>Product conforming to standard</b>	EN 60335-1; CE

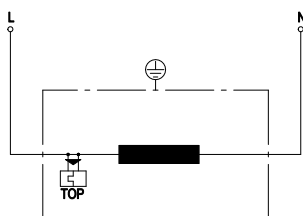


## Product drawing



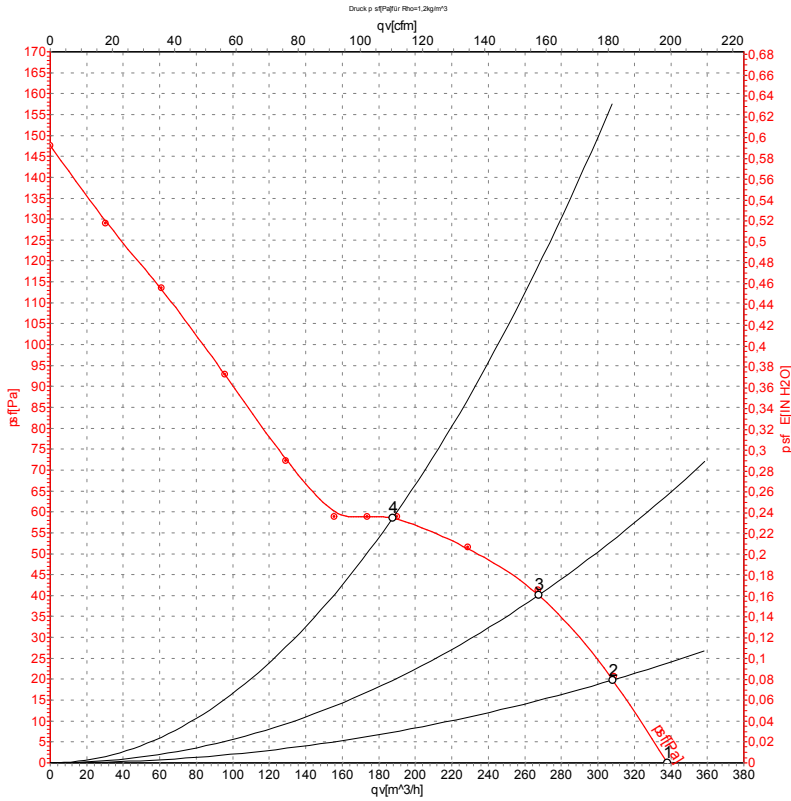
1	Direction of air flow "V"
2	Connection line ETFE AWG20, 2x tin-plated lead tips

## Connection screen



L	= black
N	= black
TOP	= Thermal overload protector

## Charts: Air flow 50 Hz



Measurement: LU-58475

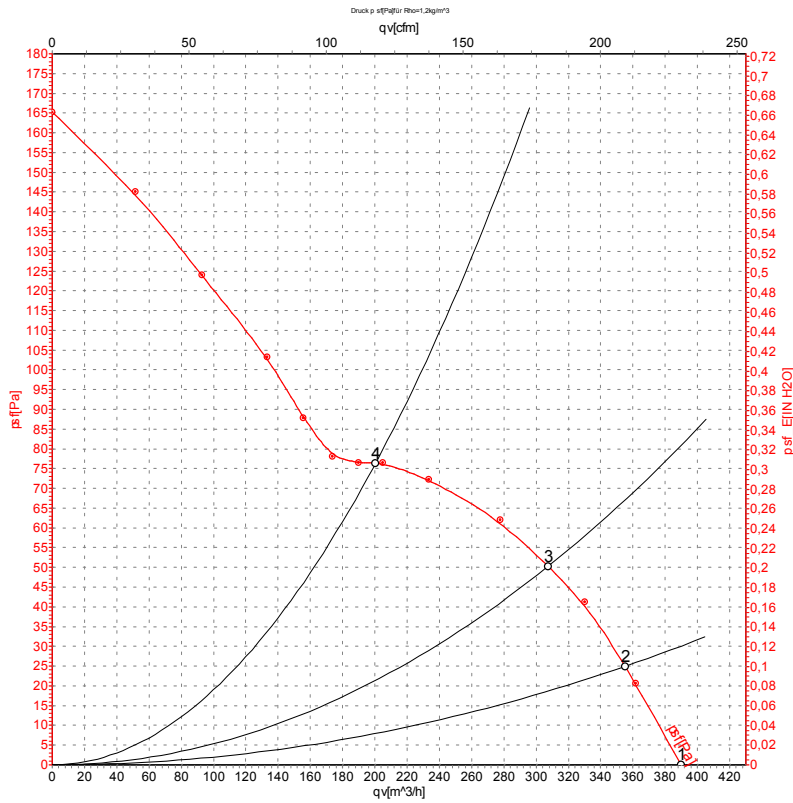
Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebmpapst. Suction-side noise levels: L<sub>wA</sub> measured as per ISO 13347 / L<sub>pA</sub> measured with 1m distance to fan axis. The values given are valid under the 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>sf</sub>
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa
1	230	50	2800	45	0.31	340	0
2	230	50	2795	45	0.31	310	20
3	230	50	2780	46	0.31	270	40
4	230	50	2780	46	0.31	190	59



## Charts: Air flow 60 Hz



Measurement: LU-58476

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>sf</sub>
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa
1	230	60	3250	39	0.25	390	0
2	230	60	3200	42	0.25	355	25
3	230	60	3165	43	0.26	305	50
4	230	60	3170	43	0.26	200	75

