

W2S130-BM49-22 ebmpapst Datasheet

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Nominal data

Type	W2S130-BM49-22		
Motor	M2S052-CA		
Phase		1~	1~
Nominal voltage	VAC	200	200
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	2750	3000
Power consumption	W	45	46
Current draw	A	0.35	0.31
Max. back pressure	Pa	68	75
Max. back pressure	inH ₂ O	0.27	0.3
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	60	80

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



Technical description

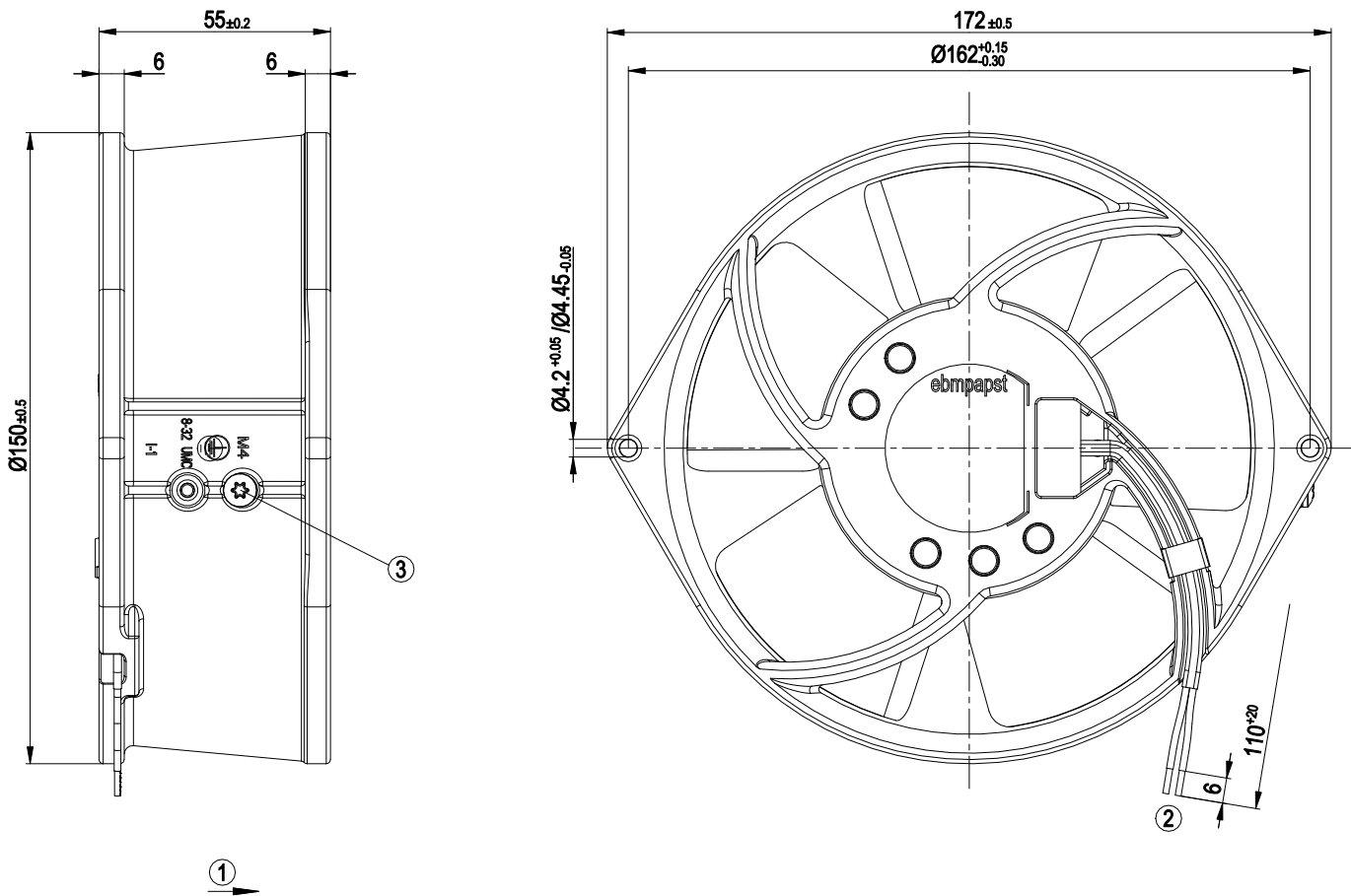
Weight	1.1 kg
Fan size	130 mm
Rotor surface	Rotor open, painted black
Blade material	Sheet steel, painted black
Housing material	Die-cast aluminum, painted black
Number of blades	5
Airflow direction	"A"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP20
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F0
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
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	CCC; CSA C22.2 No. 100; UL 1004-1



AC axial compact fan

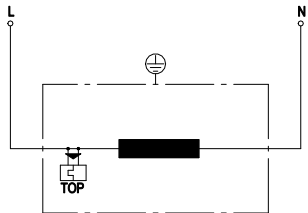
straight blades (A series), single-intake

Product drawing



1	Direction of air flow "A"
2	Cable PVC AWG20, 2x crimped splices
3	M4 screw for fastening ground connector

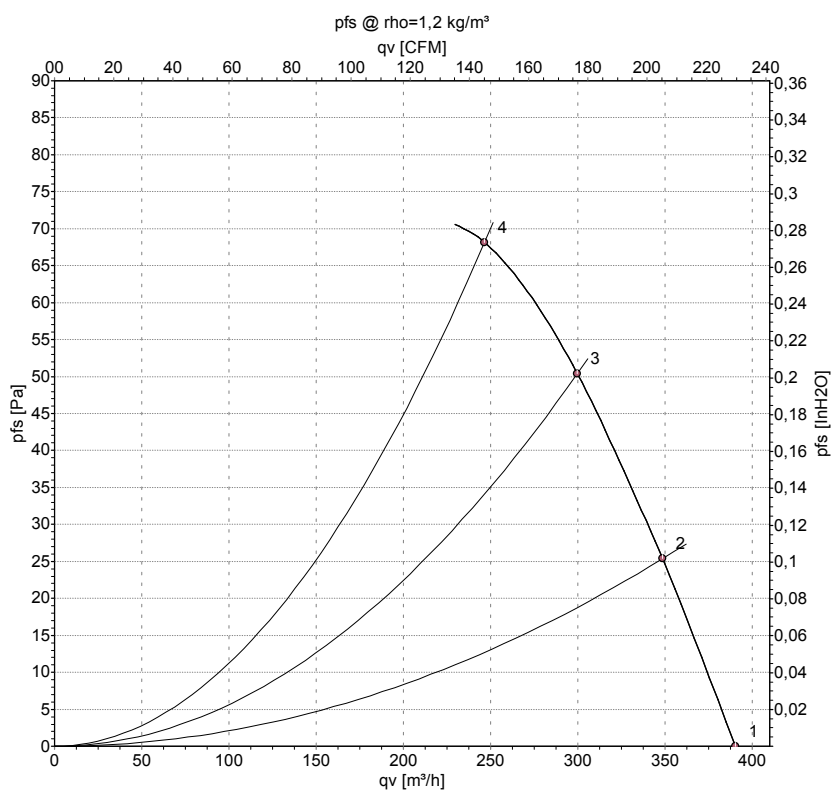
Connection diagram



L	= black
N	= black
TOP	= thermal overload protector



Curves: Air performance 50 Hz



Measurement: LU-152280-1

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.

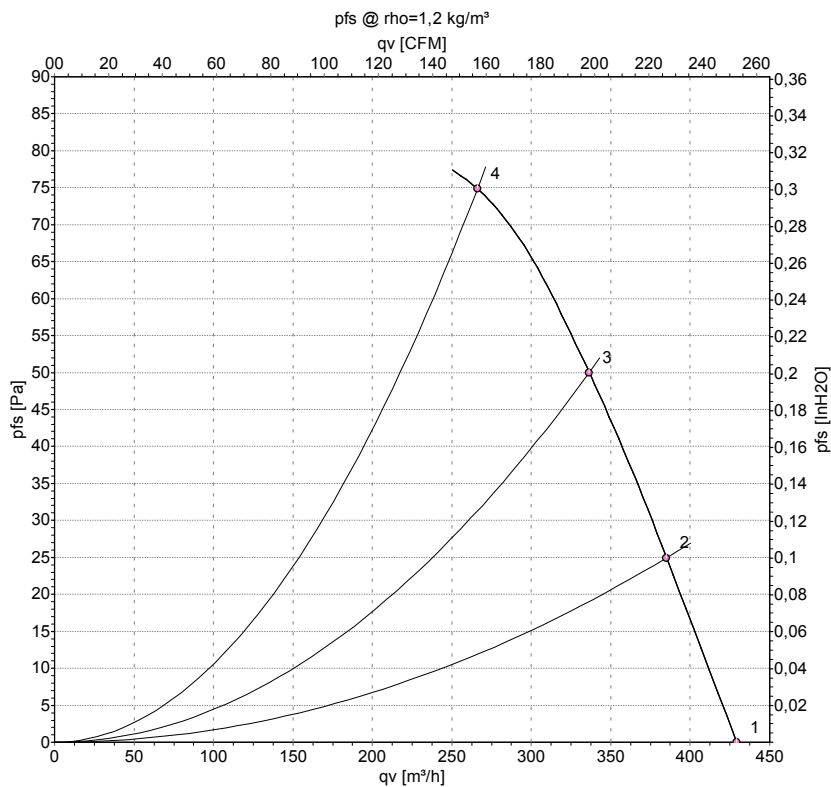
Measured values

	U	f	n	P _e	I	qv	p _{fs}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	CFM	inH ₂ O
1	200	50	2750	45	0.35	390	0	230	0.00
2	200	50	2720	45	0.35	350	25	205	0.10
3	200	50	2700	46	0.35	300	50	175	0.20
4	200	50	2695	46	0.35	245	68	145	0.27

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



Curves: Air performance 60 Hz



Measurement: LU-152281-1

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	qv	p _{fs}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa	CFM	inH2O
1	200	60	3000	46	0.31	430	0	250	0.00
2	200	60	2945	47	0.31	385	25	225	0.10
3	200	60	2880	48	0.32	335	50	200	0.20
4	200	60	2845	49	0.32	265	75	155	0.30

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

