W2E143-AB09-01/F01

AC axial compact fan

ebm-papst ventilator (Shanghai)Co.,Ltd.
No.418, Hua Jing Road, Wai Gao Qiao Free Trade Zone, Pudong
Tel: +86(0)21-50460183
www.ebmpapst.com

Nominal data

Type	**W2E143-AB09-01/F01**
Motor	**M2E052-BF**

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		CCC	CCC;UL
Speed (rpm)	min^{-1}	2800	3300
Power consumption	W	24	30
Current draw	A	0.12	
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	60	75

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

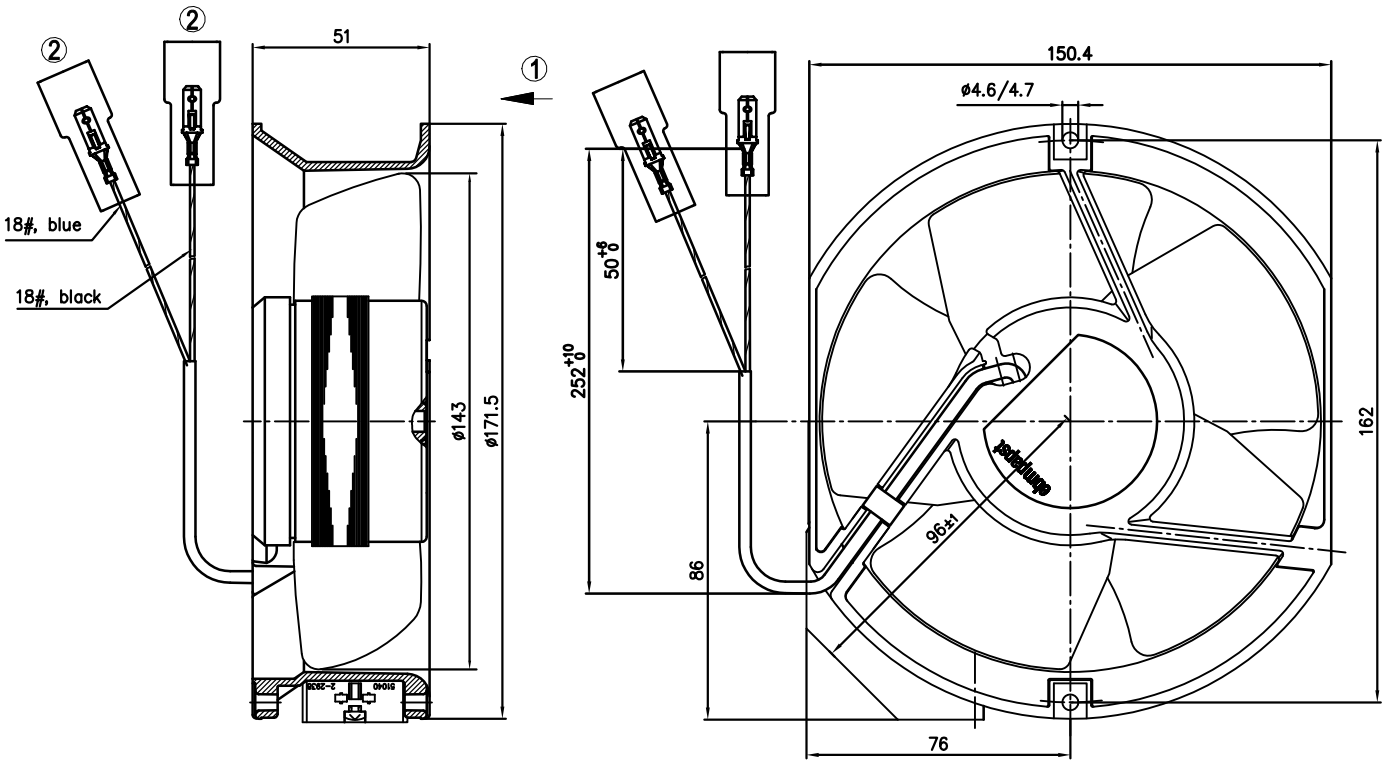
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Technical description

Weight	0.91 kg
Fan size	143 mm
Rotor surface	Rotor open, painted black
Blade material	Sheet steel, painted black
Fan housing material	Die-cast aluminum, painted black
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP20
Insulation class	"B"
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
Electrical hookup	With plug
Motor protection	Thermal overload protector (TOP) internally connected
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	P0/S0
Conformity with standards	EN 60335-1; CCC;UL;EAC
Approval	CCC; CSA C22.2 No. 113; UL 507; EAC

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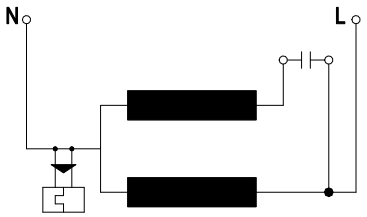
Product drawing



All dimensions in mm.

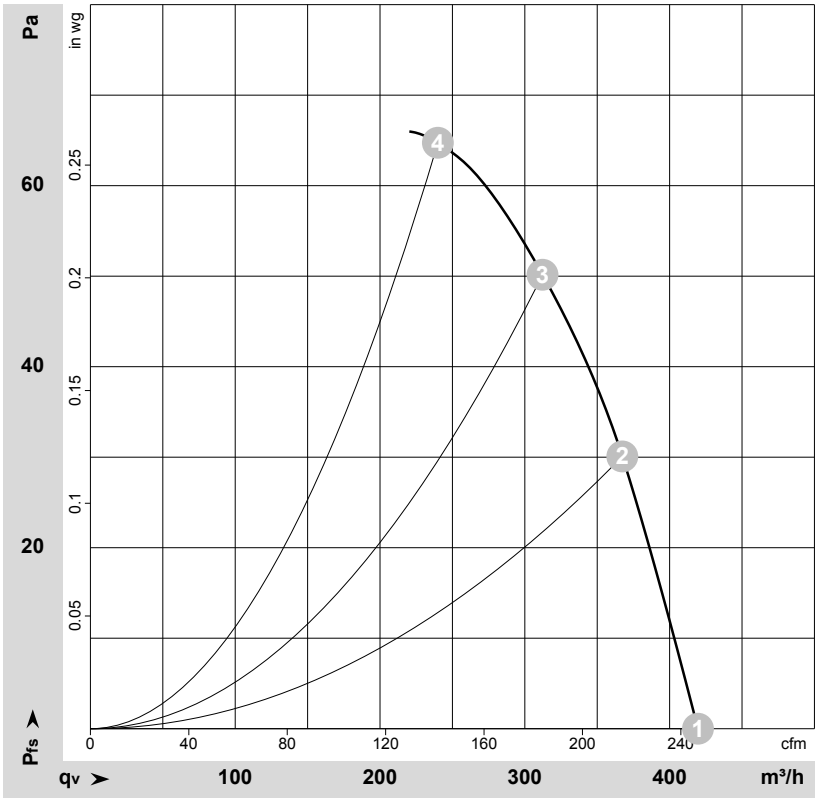
1	Direction of air flow "V"
2	connector: AMP 160645-2; plug housing: AMP 480053-1

Connection diagram



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Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-58509-1

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.

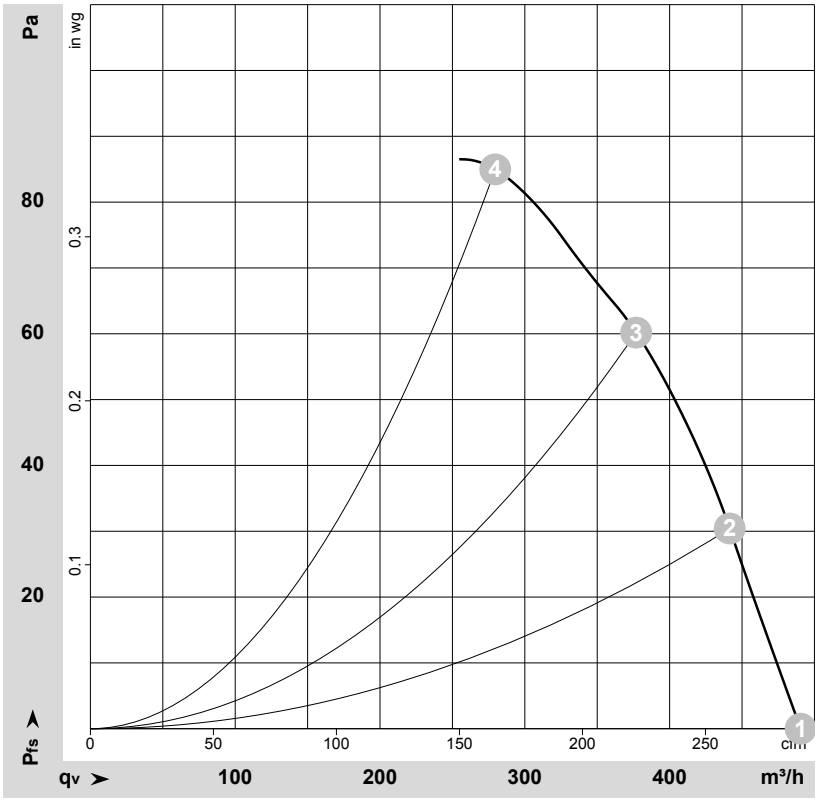
Measured values

	U	f	n	P_e	I	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	50	2800	26	0.13	420	0	245	0.00
2	230	50	2770	27	0.13	365	30	215	0.12
3	230	50	2755	27	0.13	310	50	185	0.20
4	230	50	2750	28	0.13	240	65	140	0.26

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

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Curves: Air performance 60 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-58510-1

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	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	60	3300	29	0.13	490	0	290	0.00
2	230	60	3210	31	0.14	440	30	260	0.12
3	230	60	3175	32	0.14	375	60	220	0.24
4	230	60	3140	33	0.14	280	85	165	0.34

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