W2S130-AA03-C9

AC axial compact fan

sickled blades (S series), single inlet

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Nominal data

Type	**W2S130-AA03-C9**
Motor	**M2S052-CA**

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 (rpm)	min^{-1}	2800	3250
Power input	W	45	39
Current draw	A	0.31	0.25
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	30	60
Starting current	A	0.45	0.40

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

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Technical features

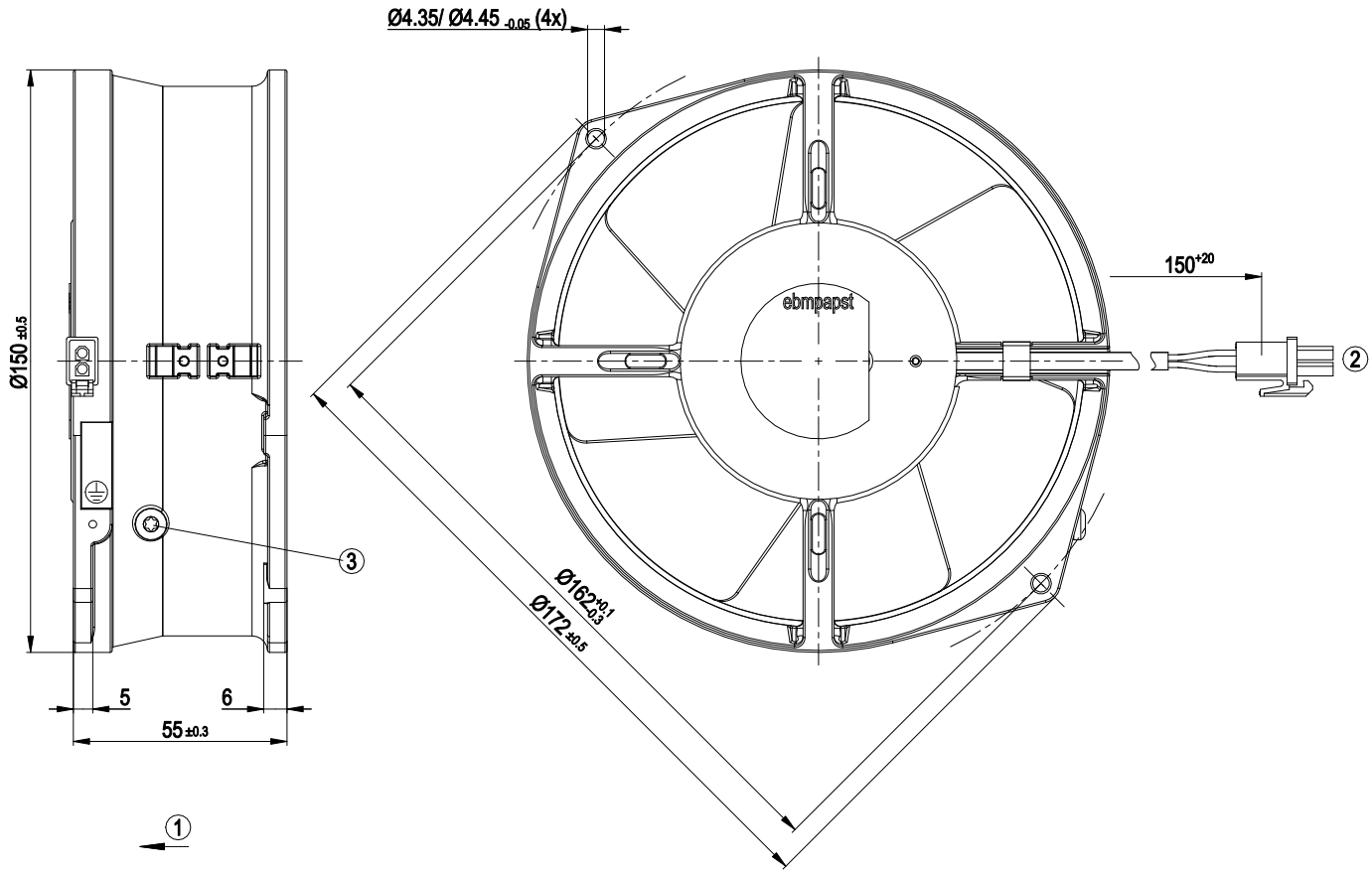
Mass	1.1 kg
Size	130 mm
Surface of rotor	Rotor open, coated in black
Material of blades	Sheet steel, coated in black
Housing material	Die-cast aluminium, coated in black
Number of blades	7
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
Humidity (F)/environmental protection class (H)	H1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None, open rotor
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
Protection class	I (if protective earth is connected by customer at the connection point of the housing)
Product conforming to standard	EN 60335-1; CE

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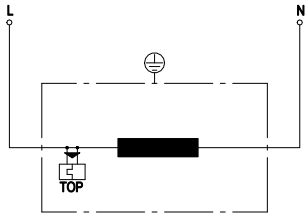
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Product drawing



1	Direction of air flow "V"
2	Connection line ETFE AWG20, 2-pole connector housing tyco 794894-3, 2x seal 794758-1, 1x seal 794772-2, 2x plug pin 170360-1
3	M4 screw for fastening earth conductor

Connection screen



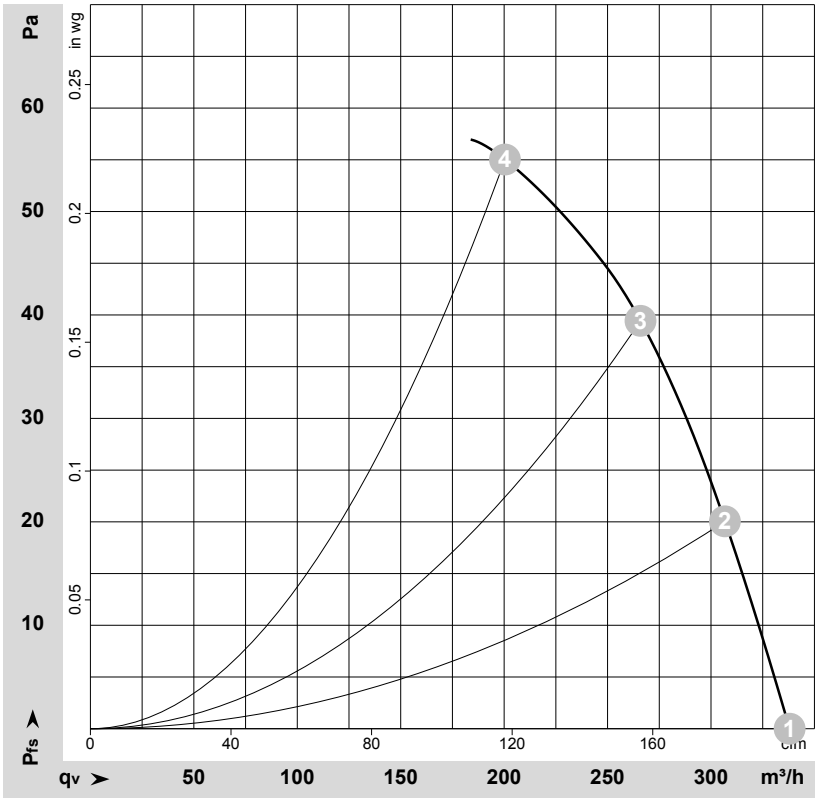
L	= black
N	= black
TOP	= Thermal overload protector

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sickled blades (S series), single inlet

Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-58475-1

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: LwA measured as per ISO 13347 / LpA 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	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	50	2800	45	0.31	340	0	200	0.00
2	230	50	2795	45	0.31	305	20	180	0.08
3	230	50	2780	46	0.31	265	40	155	0.16
4	230	50	2780	46	0.31	200	55	120	0.22

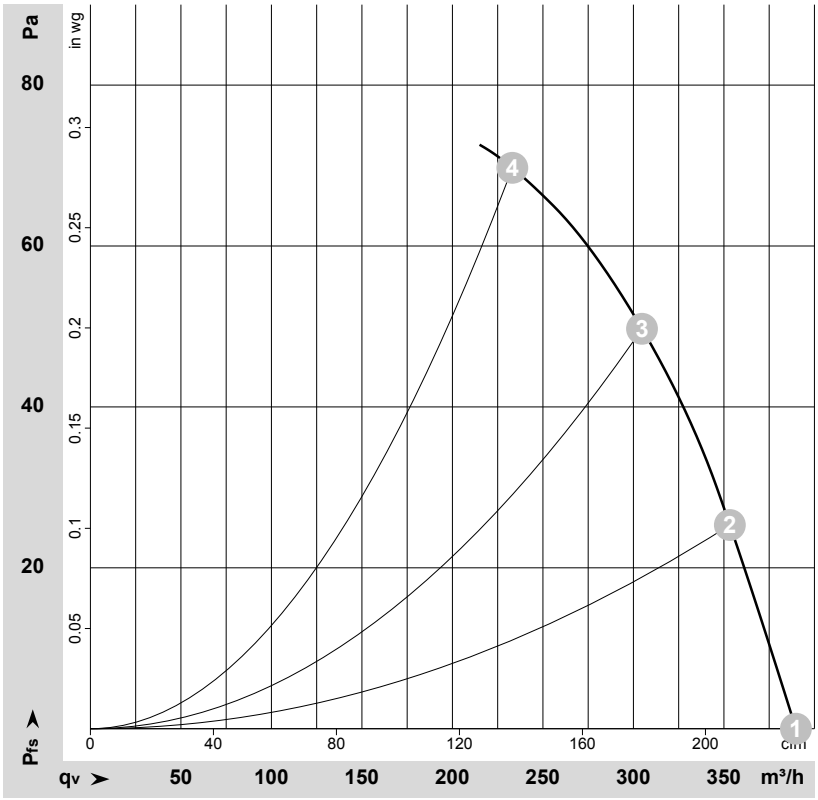
U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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Charts: Air flow 60 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-58476-1

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: LwA measured as per ISO 13347 / LpA 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	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	60	3250	39	0.25	390	0	230	0.00
2	230	60	3200	42	0.25	355	25	210	0.10
3	230	60	3165	43	0.26	305	50	180	0.20
4	230	60	3145	44	0.26	235	70	135	0.28

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

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