W2S130-AA57-C6

AC axial compact fan

sickle-shaped blades (S series), single-intake

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Nominal data

Type	**W2S130-AA57-C6**
Motor	**M2S052-CA**

Phase		1~	1~
Nominal voltage	VAC	277	277
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min^{-1}	2800	3250
Power consumption	W	50	44
Current draw	A	0.3	0.23
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	40	70

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

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Technical description

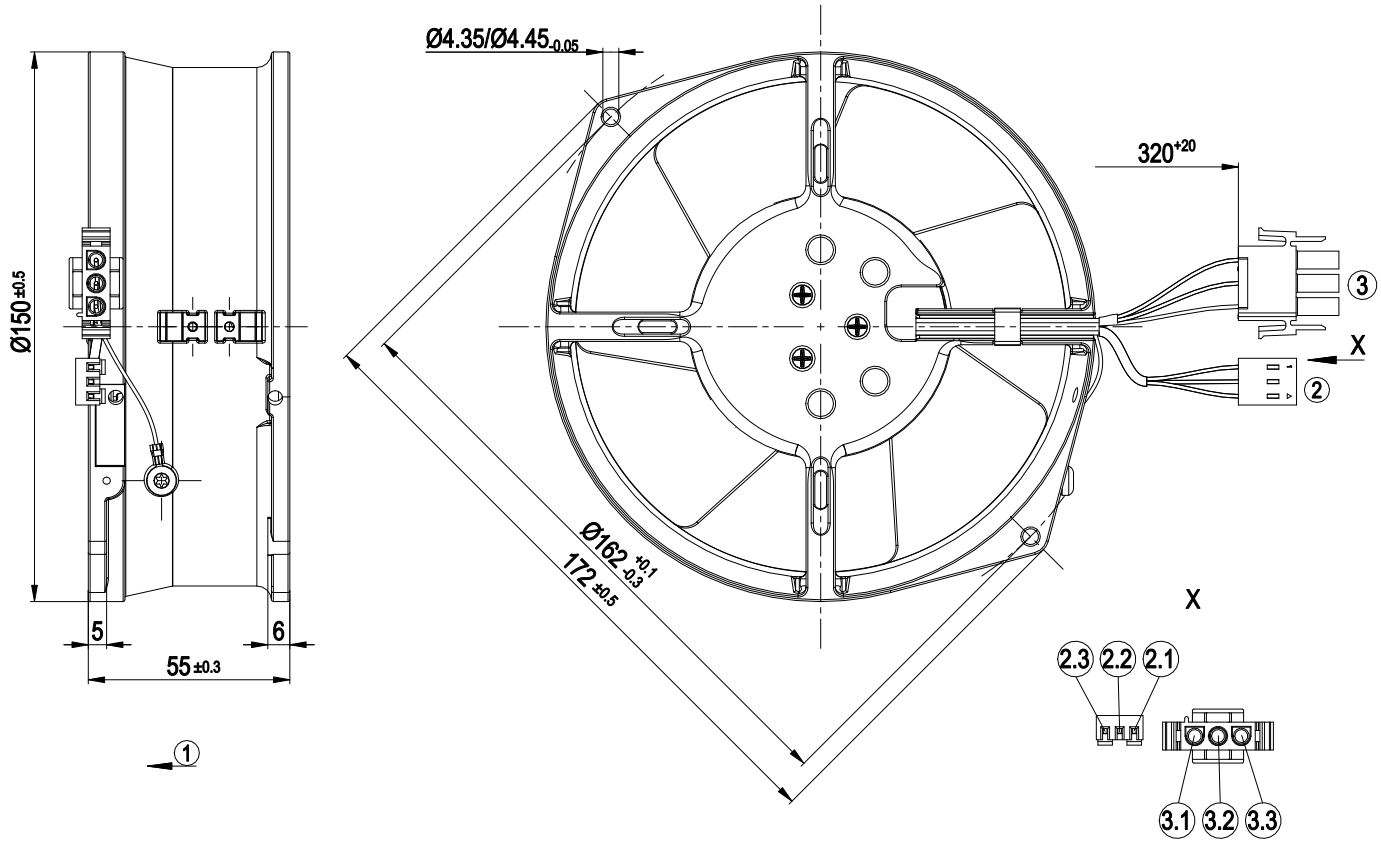
Weight	1 kg
Fan size	130 mm
Rotor surface	Rotor open, painted black
Blade material	Sheet steel, painted black
Fan housing material	Die-cast aluminum, painted black
Number of blades	7
Airflow direction	"V"
Degree of protection	IP20
Insulation class	"B"
Max. permitted ambient temp. for motor (transport/storage)	+ 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
Technical features	- Speed monitoring Hall IC (with basic insulation)
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	CSA C22.2 No. 100; UL 1004-1

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Product drawing



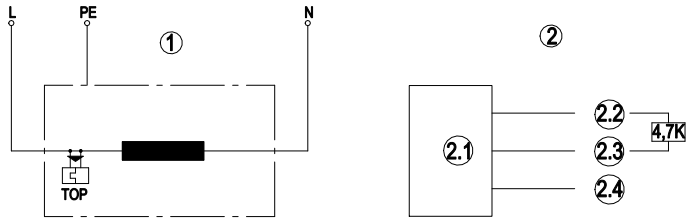
1	Airflow direction "V"
2	Cable PVC AWG26, 3-pole connector housing Molex 09-50-8033, 3x crimped plug pin Molex 08-50-0107
2.1	0 V (black)
2.2	out (white)
2.3	+5 V (red)
3	Cable PVC AWG20, 3-pole connector housing tyco 2178473-3, 3x plug pin tyco 350654-1
3.1	black
3.2	black
3.3	PE (green/yellow)

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Connection diagram



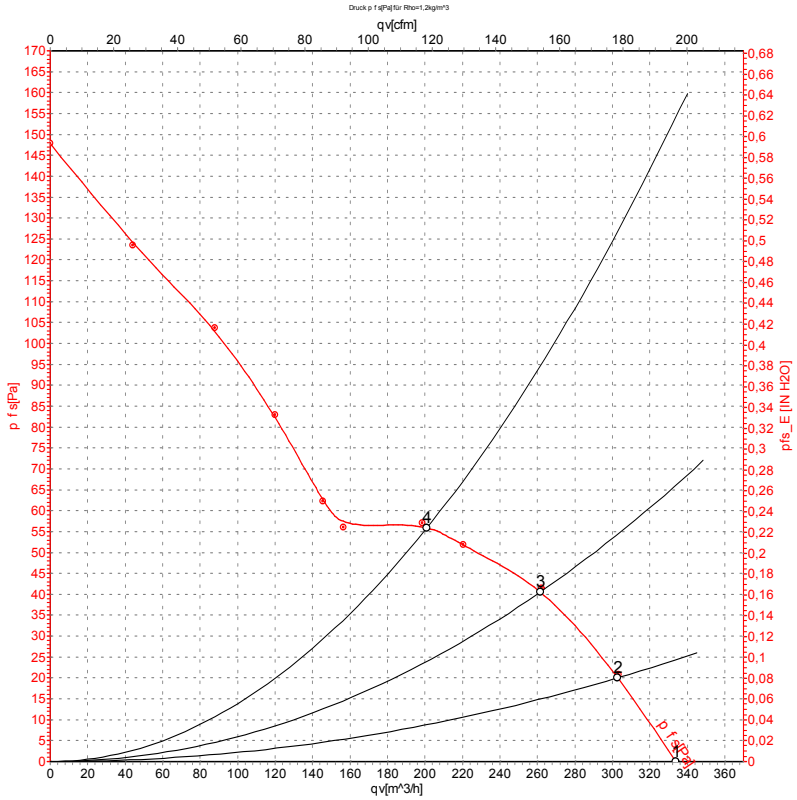
1	Fan connection diagram
L	black
N	black
PE	green/yellow
TOP	Thermal overload protector
2	Hall IC circuit
2.1	Hall IC
2.2	red (+5 V)
2.3	white (out)
2.4	black (0 V)

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AC axial compact fan

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Curves: Air performance 50 Hz



Measurement: LU-46901-1

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	277	50	2800	50	0.30	335	0	195	0.00
2	277	50	2795	50	0.29	305	20	180	0.08
3	277	50	2780	51	0.29	260	40	155	0.16
4	277	50	2785	50	0.28	200	55	120	0.22

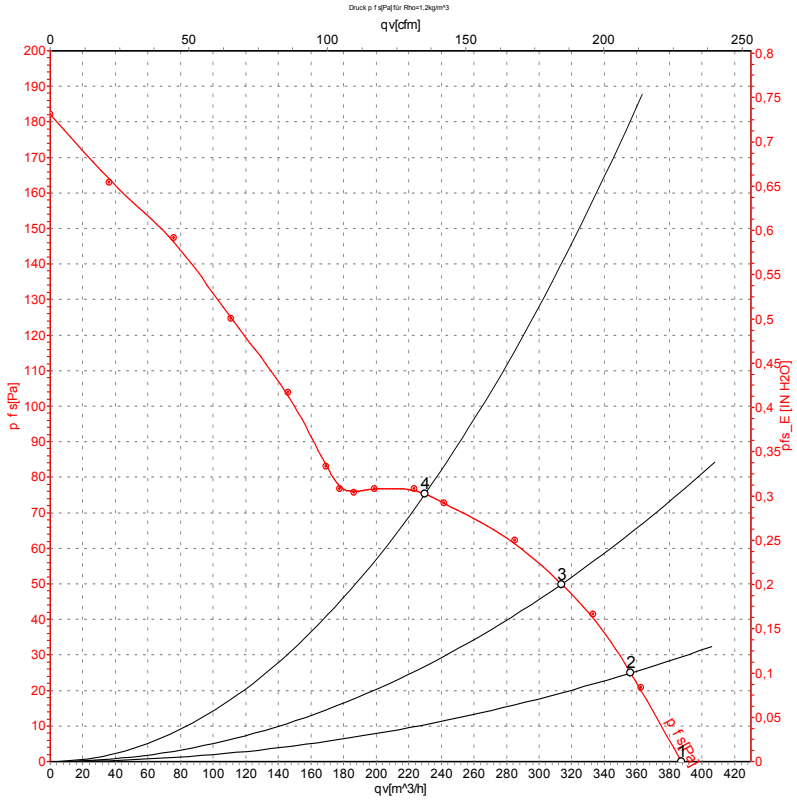
U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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AC axial compact fan

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Curves: Air performance 60 Hz



Measurement: LU-46902-1

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	277	60	3250	44	0.23	385	0	225	0.00
2	277	60	3235	44	0.22	355	25	210	0.10
3	277	60	3210	45	0.23	315	50	185	0.20
4	277	60	3195	46	0.23	230	75	135	0.30

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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