A4S200-AA02-71

AC axial fan

straight blades (A series)

A4S200-AA02-71 ebmpapst Datasheet
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County court Stuttgart · HRA 590344

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Nominal data

Type	**A4S200-AA02-71**
Motor	**M4S068-BF**

Phase		1~	1~	1~
Nominal voltage	VAC	230	230	230
Frequency	Hz	50	60	60
Type of data definition		fa	fa	fa
Valid for approval / standard		CE	CE	UL 1004-3
Speed (rpm)	min^{-1}	1380	1630	1630
Power input	W	40	34	36
Current draw	A	0.30	0.24	0.25
Max. back pressure	Pa	60	80	80
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	50	65	65

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	1.2 kg
Size	200 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Number of blades	5
Direction of air flow	"A"
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"B"
Humidity (F)/environmental protection class (H)	H0+
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
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
Cable exit	Lateral
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	UL 1004-3; CSA C22.2 No.77

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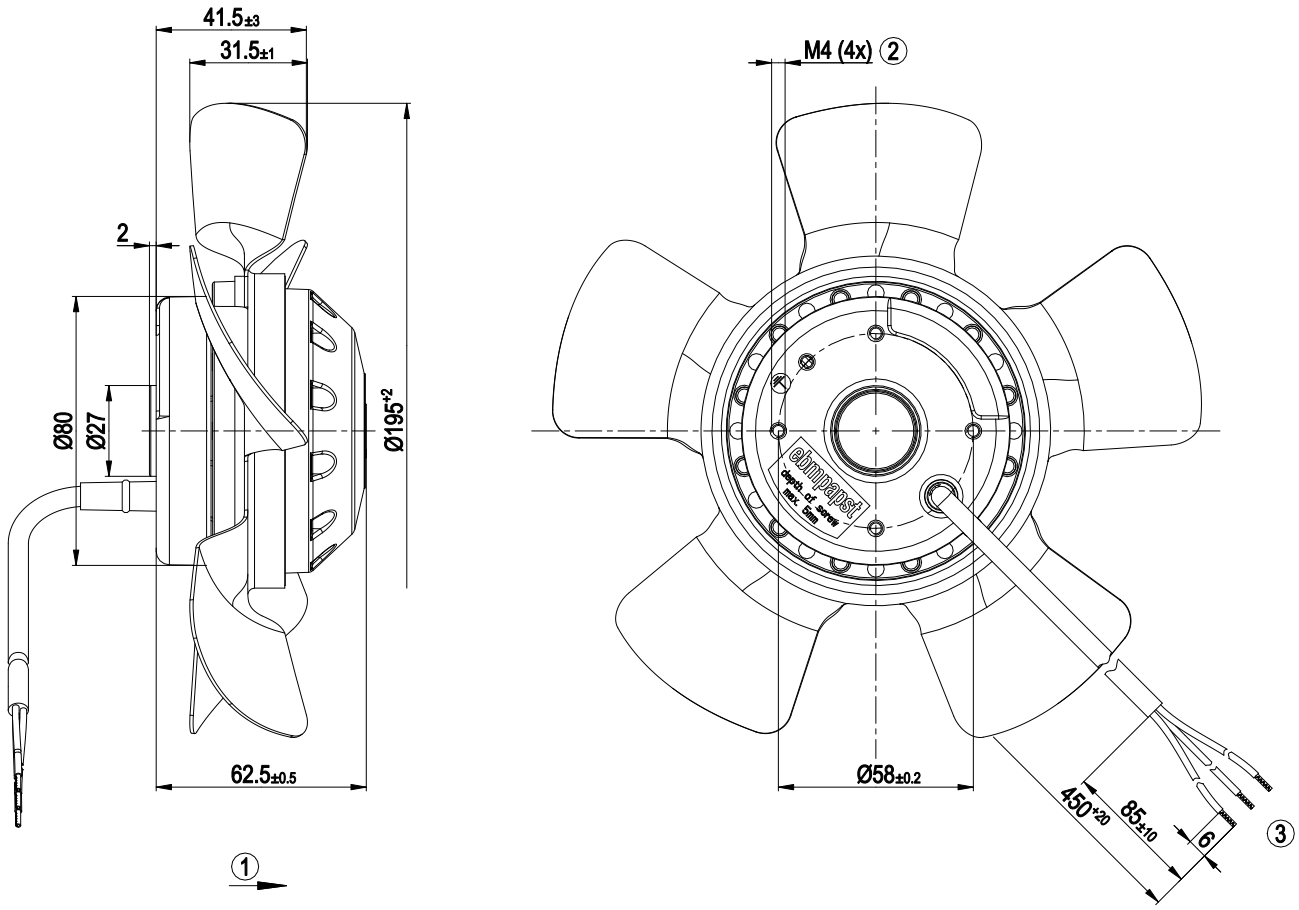
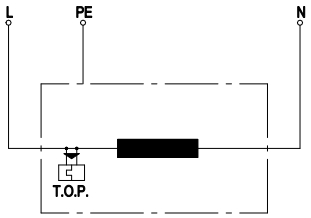
Product drawing



1	Direction of air flow "A"
2	Thread reach max. 5 mm
3	Connection line PVC AWG20, 3x lead tips crimped

Connection screen



L	= blue
PE	= green / yellow
N	= brown
TOP	= Thermal overload protector

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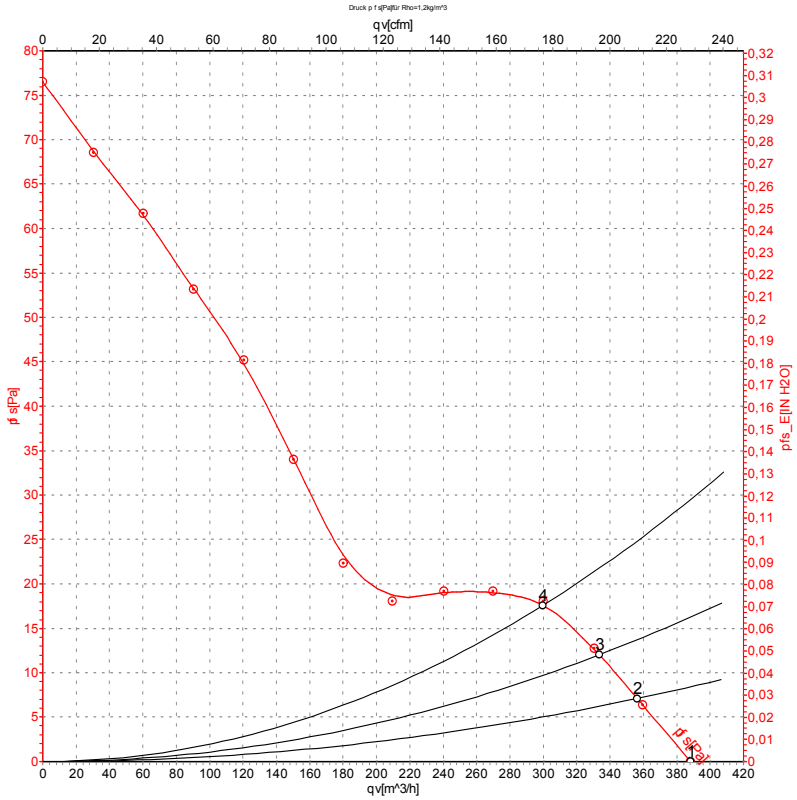
Charts: Air flow 50 Hz



Measurement: LU-78397-1

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	1380	37	0.27	390	0	230	0.00
2	230	50	1380	37	0.27	355	7	210	0.03
3	230	50	1375	37	0.28	335	12	195	0.05
4	230	50	1375	38	0.28	300	18	175	0.07

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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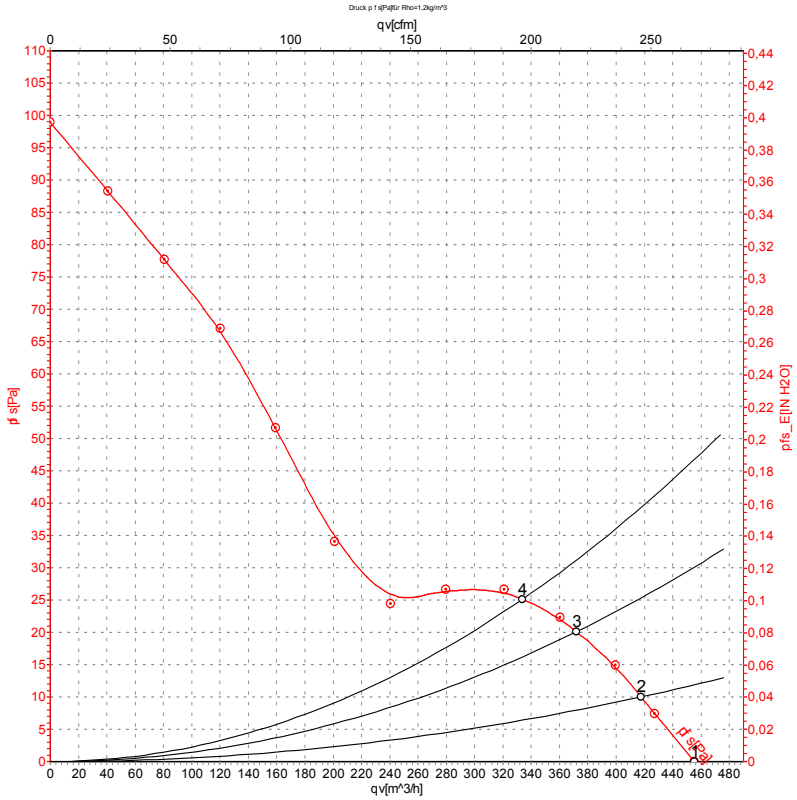
Charts: Air flow 60 Hz



Measurement: LU-78398-1

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	1630	32	0.22	455	0	270	0.00
2	230	60	1610	33	0.23	420	10	245	0.04
3	230	60	1600	33	0.23	370	20	220	0.08
4	230	60	1600	33	0.23	335	25	195	0.10

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