A2D200-AA14-55

AC axial fan

straight blades (A series), single inlet

A2D200-AA14-55 ebmpapst Datasheet
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Nominal data

Type	**A2D200-AA14-55**
Motor	**M2D068-CF**

Phase		3~	3~	3~	3~	3~
Nominal voltage	VAC	230	230	400	400	480
Connection		Δ	Δ	Y	Y	Y
Frequency	Hz	50	60	50	60	60
Type of data definition		fa	fa	fa	fa	fa
Valid for approval / standard		-	-	-	-	-
Speed (rpm)	min^{-1}	2750	3200	2750	3200	3300
Power input	W	55	70	55	70	80
Current draw	A	0.24	0.23	0.14	0.13	0.15
Max. back pressure	Pa	65	85	65	85	95
Min. ambient temperature	°C	-25	-25	-25	-25	-25
Max. ambient temperature	°C	95	95	95	95	95
Starting current	A	0.44	0.43	0.44	0.43	0.54

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	1.6 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	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity (F)/environmental protection class (H)	F2-2
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
Cable exit	Lateral
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1, motor does not have factory-installed overheating protection
Approval	CSA C22.2 No.100; UL 1004-1

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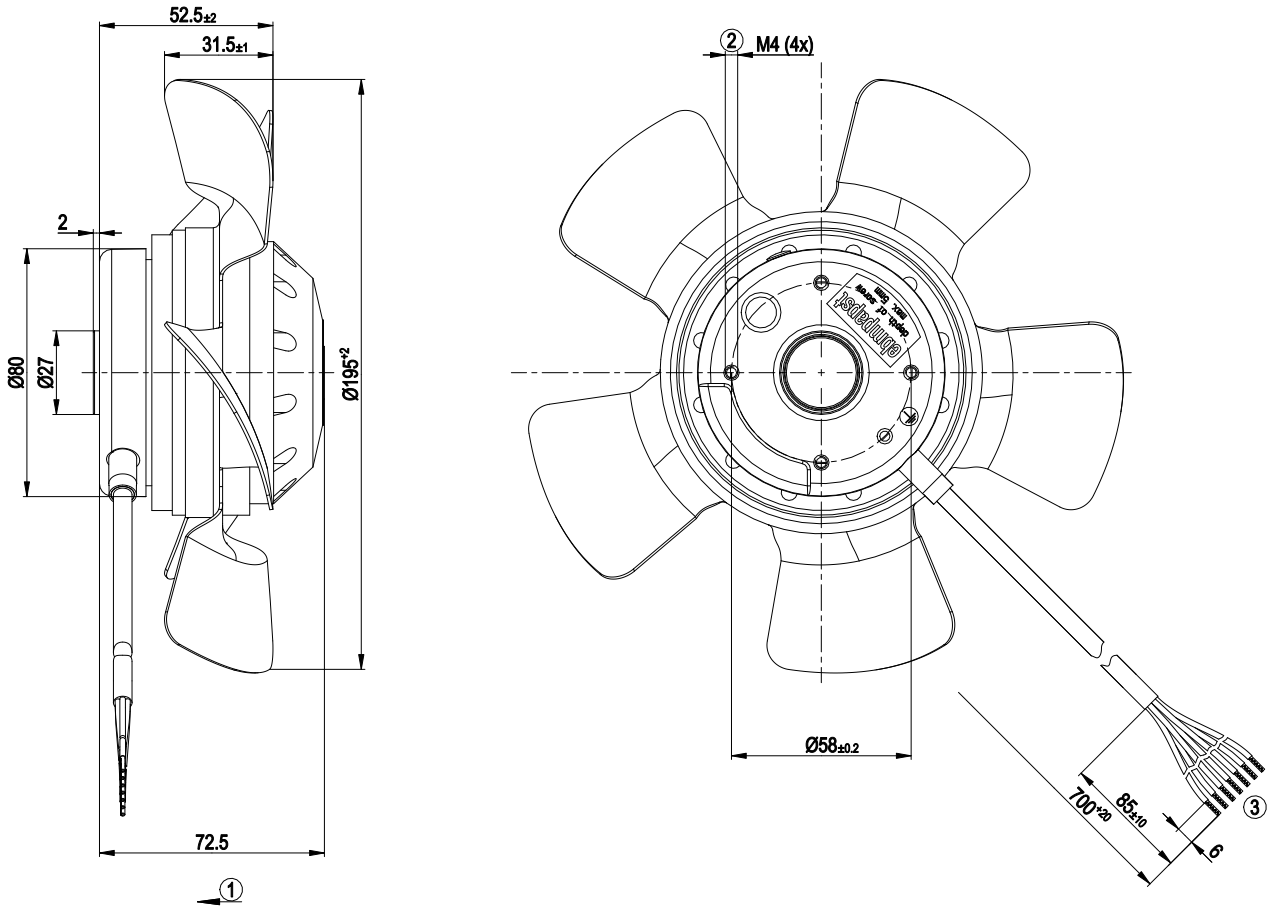
Product drawing



1	Direction of air flow "V"
2	Thread reach max. 5 mm
3	Connection line PFA AWG20 (green/yellow AWG18), 7x lead tips crimped

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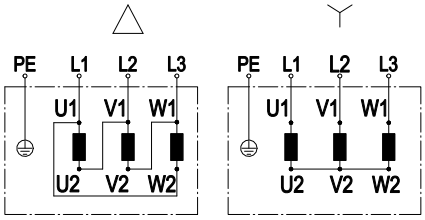
Connection screen



Change direction of rotation by reversing two phases

	Three-phase motor	Δ	Delta connection	Y	Star connection
L1	= U1 = black	L2	= V1 = blue	L3	= W1 = brown
U2	green	V2	white	W2	yellow
PE	green/yellow				

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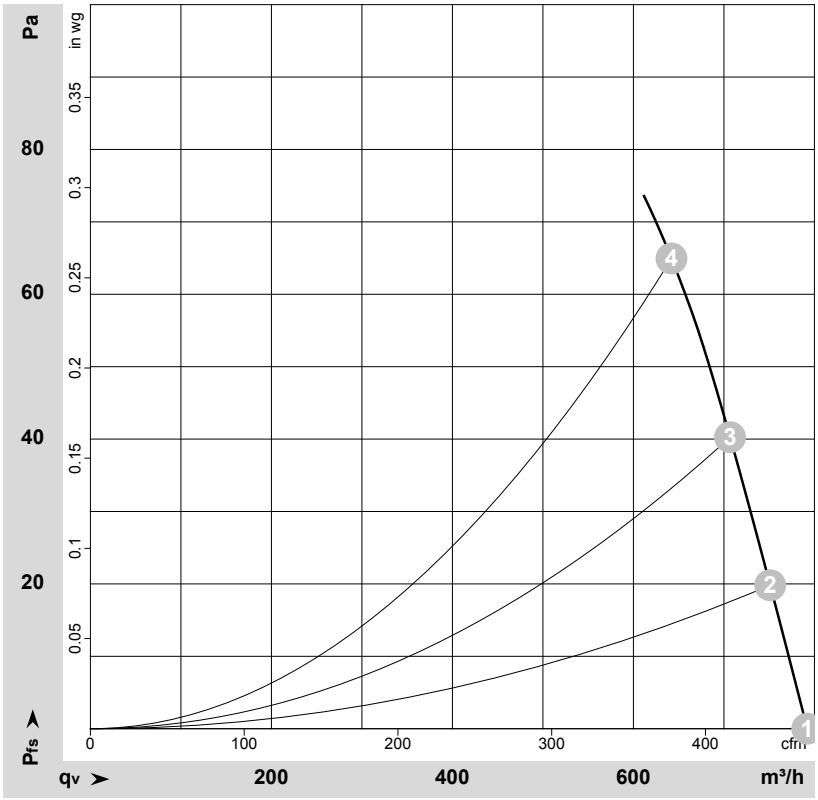
Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-172198-1

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

	Conn.	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	Y. AUS	400	50	2750	55	0.14	790	0	465	0.00
2	Y. AUS	400	50	2780	54	0.13	750	20	440	0.08
3	Y. AUS	400	50	2770	55	0.13	705	40	415	0.16
4	Y. AUS	400	50	2765	57	0.13	640	65	380	0.26

Conn. = Connection · 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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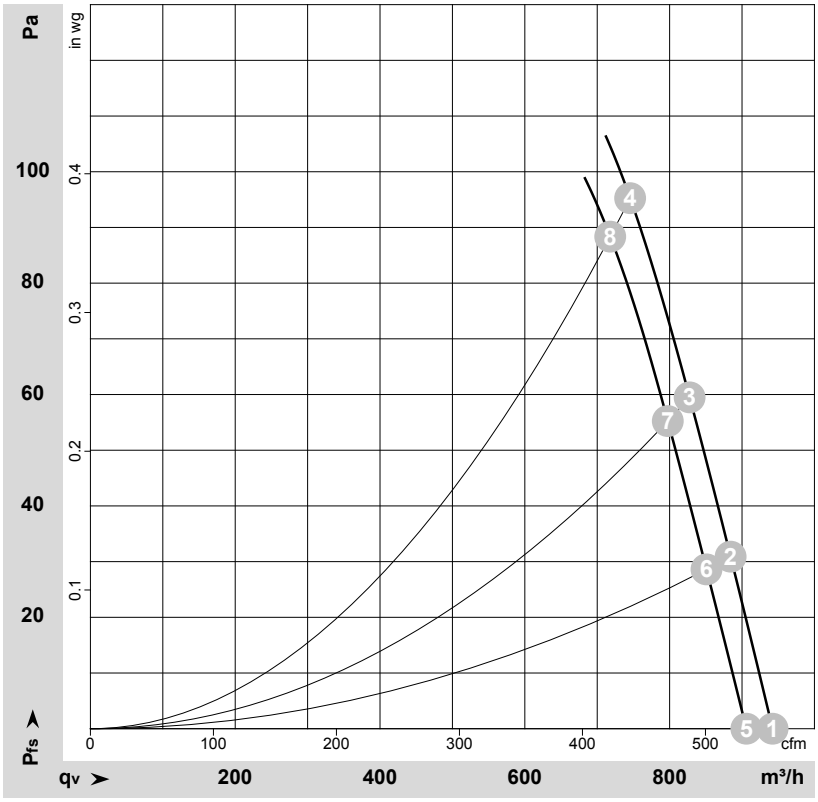
Charts: Air flow 60 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-172229-1
Measurement: LU-172228-1

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

	Conn.	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	Y. AUS	480	60	3300	80	0.15	940	0	555	0.00
2	Y. AUS	480	60	3285	82	0.14	885	30	520	0.12
3	Y. AUS	480	60	3270	85	0.15	830	60	485	0.24
4	Y. AUS	480	60	3265	85	0.14	745	95	440	0.38
5	Y. AUS	400	60	3200	70	0.13	905	0	535	0.00
6	Y. AUS	400	60	3165	72	0.13	850	29	500	0.12
7	Y. AUS	400	60	3145	75	0.13	795	56	470	0.22
8	Y. AUS	400	60	3135	76	0.13	720	85	425	0.34

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