A4D315-AP30-13

AC axial fan

sickle-shaped blades (S series)

A4D315-AP30-13 ebmpapst Datasheet
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Nominal data

Type	**A4D315-AP30-13**
Motor	**M4D068-DF**

Phase		3~	3~	3~	3~
Nominal voltage	VAC	400	400	460	460
Wiring		Y	Y	Y	Y
Frequency	Hz	50	60	60	60
Method of obtaining data		fa	fa	fa	fa
Valid for approval/standard		CE	CE	CE	UL
Speed (rpm)	min^{-1}	1420	1630	1650	1650
Power consumption	W	82	102	125	130
Current draw	A	0.25	0.22	0.24	0.24
Max. back pressure	Pa	120	120	130	130
Max. back pressure	inH2O	0.48	0.48	0.52	0.52
Min. ambient temperature	°C	-25	-25	-25	-25
Max. ambient temperature	°C	60	60	55	55
Starting current	A	0.38	0.37	0.38	0.38

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	2.5 kg
Fan size	315 mm
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F2-2
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
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) with basic insulation
With cable	Lateral
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	UL 1004-1; CSA C22.2 No. 100

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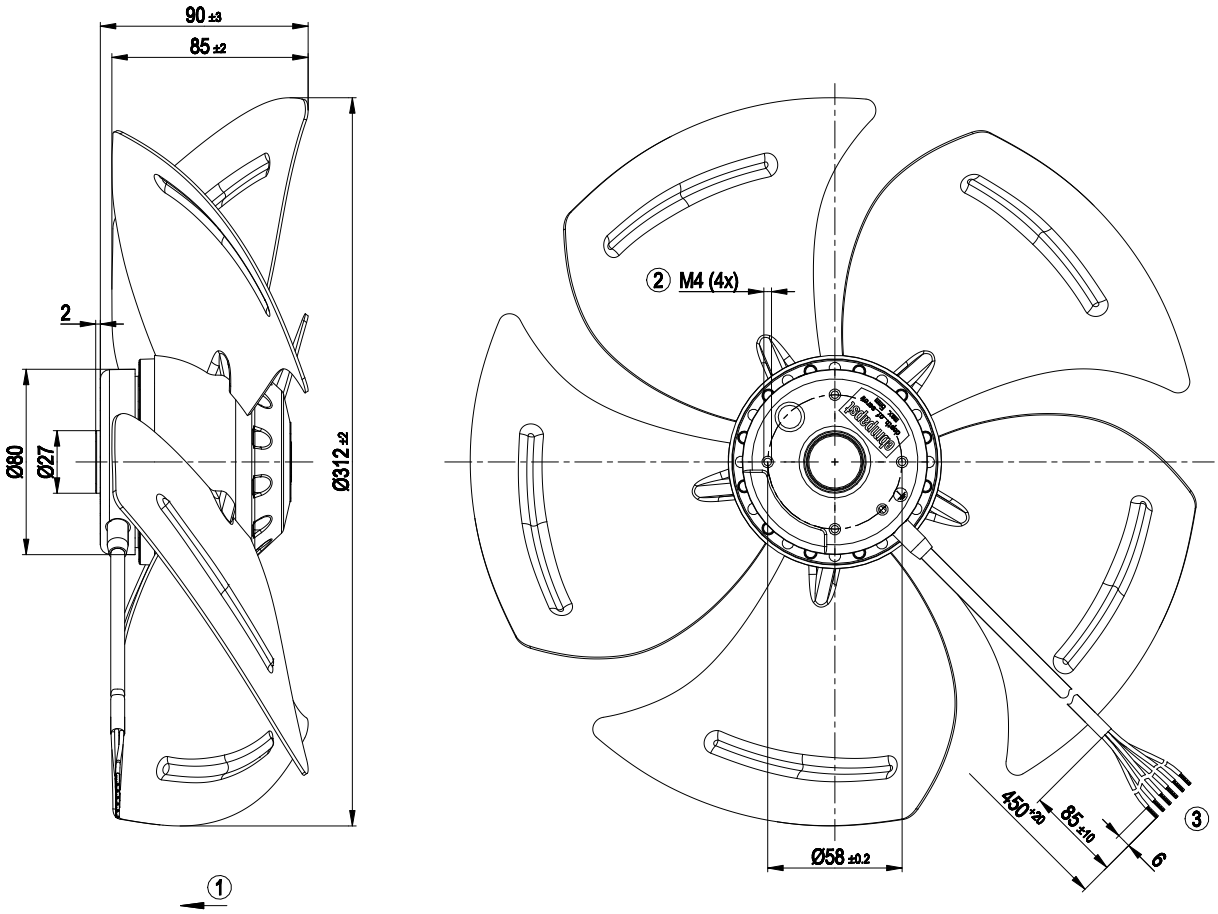
Product drawing



1	Direction of air flow "V"
2	Max. clearance for screw 5 mm
3	Cable PFA AWG20 (green/yellow AWG18), 6x crimped splices

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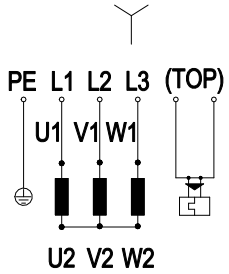
Connection diagram



L1	= U1 = black	L2	= V1 = blue	L3	= W1 = brown
PE	green/yellow	TOP	2x gray	Y	Star connection

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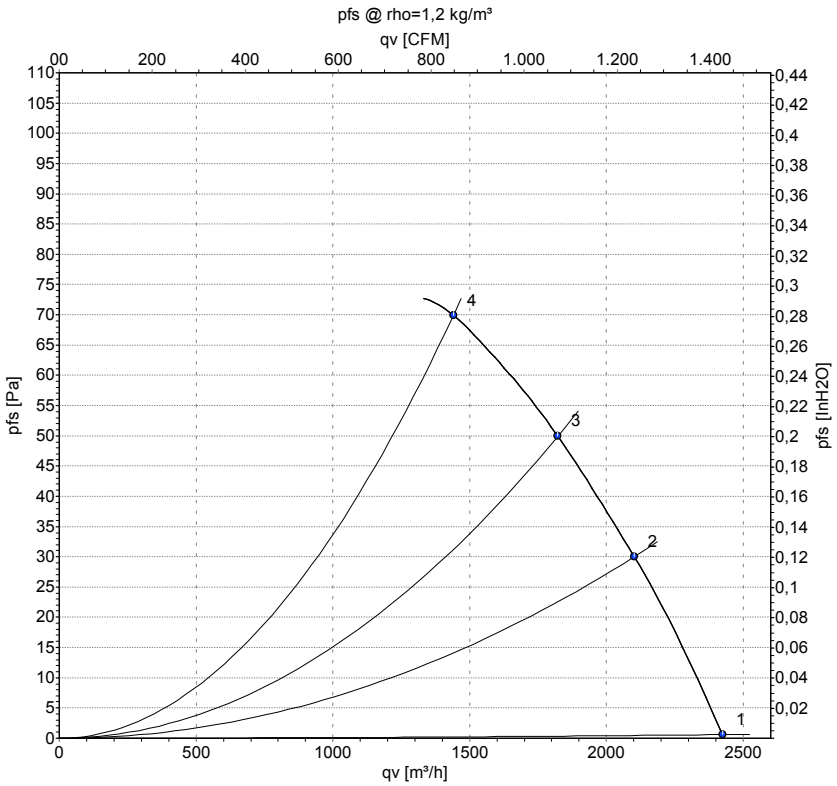
Curves: Air performance 50 Hz



Measurement: LU-55176-1

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

	Wired	U	f	n	P_e	I	qv	p_{fs}	qv	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa	CFM	inH2O
1	Y	400	50	1420	82	0.25	2425	0	1425	0.00
2	Y	400	50	1400	91	0.25	2100	30	1235	0.12
3	Y	400	50	1390	99	0.26	1820	50	1070	0.20
4	Y	400	50	1370	107	0.26	1440	70	850	0.28

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

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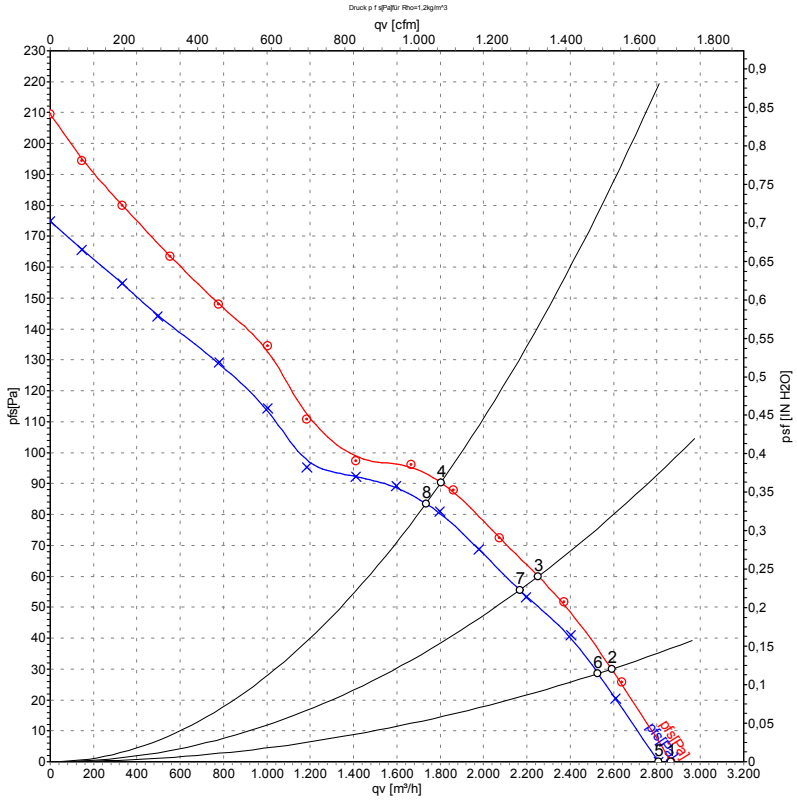
Curves: Air performance 60 Hz



Measurement: LU-55185-1
Measurement: LU-55182-1

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	qv	p_{fs}	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	CFM	inH2O
1	460	60	1650	125	0.24	2865	0	1685	0.00
2	460	60	1645	128	0.25	2590	30	1525	0.12
3	460	60	1625	140	0.26	2250	60	1325	0.24
4	460	60	1600	155	0.27	1800	90	1060	0.36
5	400	60	1630	102	0.22	2805	0	1650	0.00
6	400	60	1605	116	0.23	2525	29	1485	0.12
7	400	60	1575	129	0.24	2165	55	1275	0.22
8	400	60	1545	142	0.26	1735	84	1020	0.34

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