

AC axial fans - HyBlade®

Ø 500

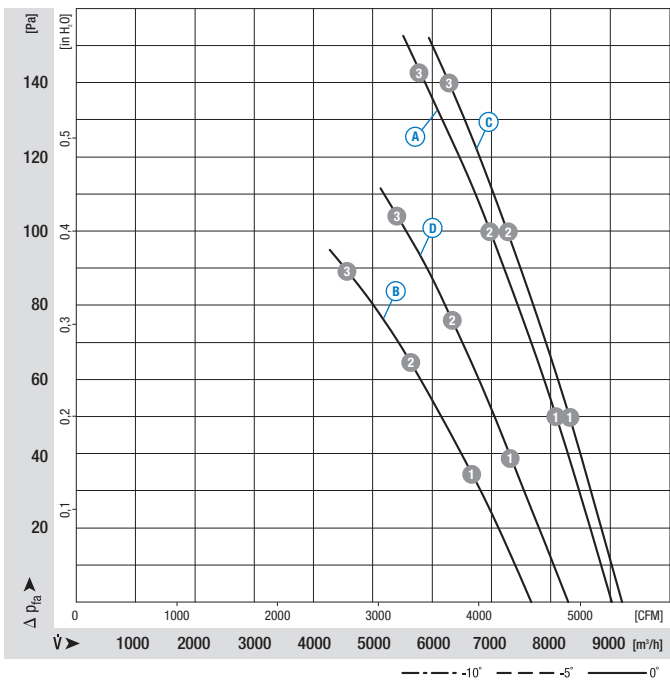


- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Pressed-on round sheet steel plate, extrusion-coated in PP plastics
Rotor: Coated in black
- **Number of blades:** 5
- **Direction of rotation:** counter-clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharge holes:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings
- **Motor protection:** Design with thermal overload protector

Nominal data		Blade angle	Curve	Nominal voltage	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Capacitor	Max. operative range	Perm. amb. temp.	Electr. connection
Type	Motor			VAC	Hz	rpm	kW	A	µF/VDB	Pa	°C	p. 34
*4D 500	M4D 110-EF	0°	A	3~400 Δ	50	1340	0,71	1,40	—	140	-40..+60	F1b)/F2b)
			B	3~400 Y	50	1060	0,48	0,80	—	87	-40..+60	
*4D 500	M4D 110-GF	0°	C	3~400 Δ	50	1390	0,72	1,41	—	140	-40..+65	F1b)/F2b)
			D	3~400 Y	50	1180	0,55	0,95	—	100	-40..+65	
*6D 500	M6D 110-EF	0°	E	3~400 Δ	50	930	0,27	0,69	—	75	-40..+65	F1b)/F2b)
			F	3~400 Y	50	800	0,19	0,40	—	55	-40..+65	
*8D 500	M8D 110-EF	0°	G	3~400 Δ	50	680	0,15	0,40	—	40	-40..+65	F1b)/F2b)
			H	3~400 Y	50	560	0,09	0,18	—	28	-40..+65	

subject to alterations (1) Nominal data in operating point 3 with maximum load

Curves



Air performance measured as per: ISO 5801, Installation category A, in ebm-papst full nozzle and without protection against accidental contact

Suction-side noise levels: L_{WA} as per ISO 13347, L_{pA} measured at 1 m distance to fan axis

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 36 ff.

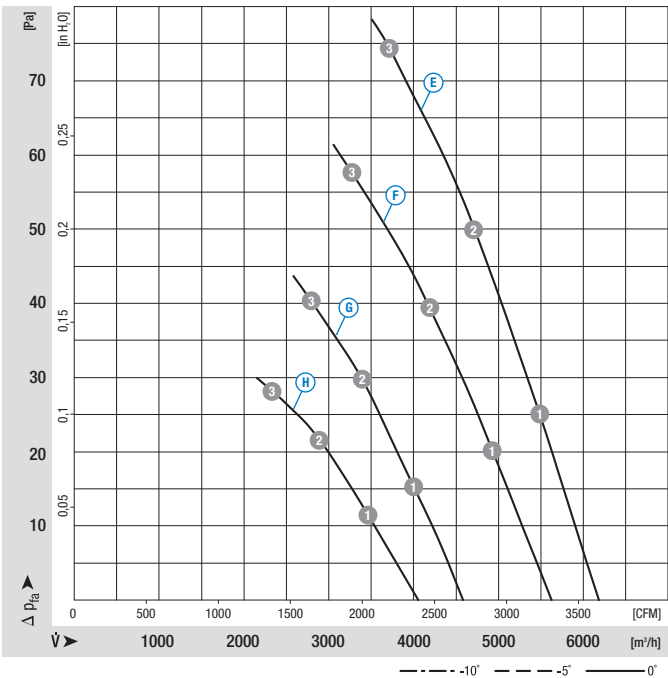
	n [rpm]	P ₁ [kW]	I [A]	L _{WA} [dB(A)]
A 1	1375	0,60	1,30	72
A 2	1360	0,66	1,34	71
A 3	1340	0,71	1,40	71
B 1	1135	0,43	0,71	68
B 2	1095	0,46	0,76	66
B 3	1060	0,48	0,80	65
C 1	1410	0,60	1,28	72
C 2	1400	0,66	1,34	71
C 3	1390	0,72	1,41	71
D 1	1245	0,48	0,78	70
D 2	1215	0,52	0,84	68
D 3	1180	0,55	0,95	68

- **Cable exit:** Via terminal box
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE (acc. to EN 60034)

Direction of air flow			
	Without attachments	With full square nozzle	With guard grille for short nozzle
"V"	A4D 500-AJ03 -01	W4D 500-GJ03 -01	S4D 500-AJ03 -01
"V"	A4D 500-AM03 -01	W4D 500-GM03 -01	S4D 500-AM03 -01
"V"	A6D 500-AJ03 -01	W6D 500-GJ03 -01	S6D 500-AJ03 -01
"V"	A8D 500-AJ03 -01	W8D 500-GJ03 -01	S8D 500-AJ03 -01

Direction of air flow "A" on request

Curves



Air performance measured as per: ISO 5801, Installation category A, in ebm-papst full nozzle and without protection against accidental contact

Suction-side noise levels: Lw_A as per ISO 13347, Lp_A measured at 1 m distance to fan axis

The acoustic values given are only valid under the measurement conditions listed and may vary depending on the installation situation.

With any deviation to the standard setup, the specific values have to be checked and reviewed once installed or fitted!

For detailed information see page 36 ff.

	n [rpm]	P ₁ [kW]	I [A]	Lw _A [dB(A)]
Ⓔ ①	945	0,23	0,65	64
Ⓔ ②	935	0,25	0,66	62
Ⓔ ③	930	0,27	0,69	63
Ⓕ ①	850	0,16	0,29	62
Ⓕ ②	830	0,17	0,30	59
Ⓕ ③	800	0,19	0,40	59
Ⓖ ①	700	0,13	0,37	58
Ⓖ ②	695	0,13	0,38	55
Ⓖ ③	680	0,15	0,40	54
Ⓗ ①	610	0,08	0,16	55
Ⓗ ②	590	0,08	0,16	51
Ⓗ ③	560	0,09	0,18	50

AC axial fans - HyBlade®

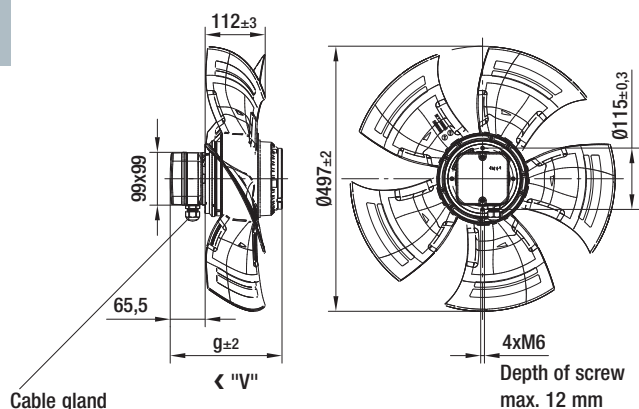
Ø 500 with motor M**110, drawings for direction of air flow "V"



Without attachments

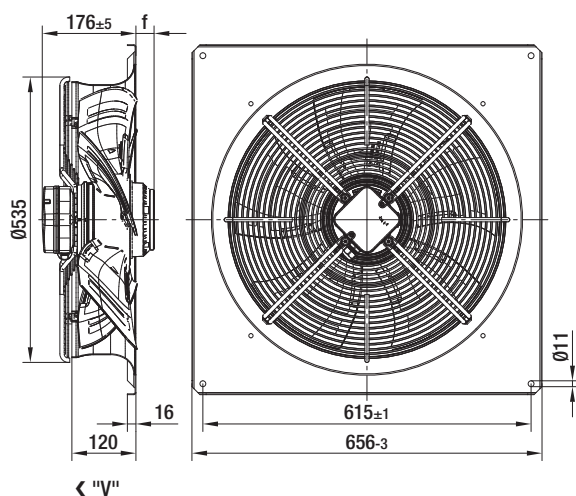
Type	Mass [kg]	g
A4D 500-AJ03 -01	8,5	189,5
A4D 500-AM03 -01	10,5	209,5
A6D 500-AJ03 -01	8,5	189,5
A8D 500-AJ03 -01	8,5	189,5
A4E 500-AJ01 -01	8,5	189,5
A4E 500-AM03 -01	10,5	209,5
A6E 500-AJ03 -01	8,5	189,5
A8E 500-AJ03 -01	8,5	189,5

Internal diameter of the wall ring at least 503 mm



With full square nozzle

Type	Mass [kg]	f
W4D 500-GJ03 -01	16,0	13,5
W4D 500-GM03 -01	18,0	33,5
W6D 500-GJ03 -01	16,0	13,5
W8D 500-GJ03 -01	16,0	13,5
W4E 500-GJ01 -01	16,0	13,5
W4E 500-GM03 -01	18,0	33,5
W6E 500-GJ03 -01	16,0	13,5
W8E 500-GJ03 -01	16,0	13,5



With guard grille for short nozzle

Type	Mass [kg]	v
S4D 500-AJ03 -01	11,8	64,0
S4D 500-AM03 -01	13,8	84,0
S6D 500-AJ03 -01	11,8	64,0
S8D 500-AJ03 -01	11,8	64,0
S4E 500-AJ01 -01	11,8	64,0
S4E 500-AM03 -01	13,8	84,0
S6E 500-AJ03 -01	11,8	64,0
S8E 500-AJ03 -01	11,8	64,0

Internal diameter of the wall ring at least 503 mm

