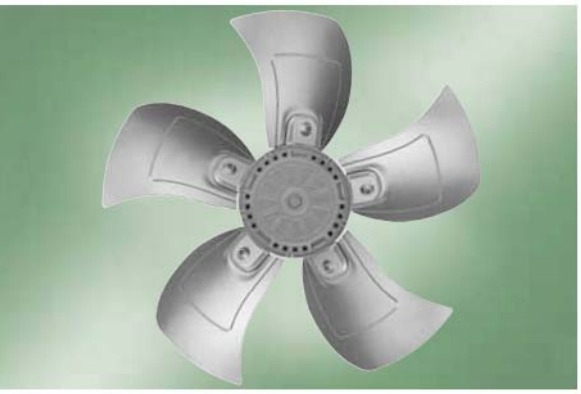
AC axial fans

S series, Ø 500



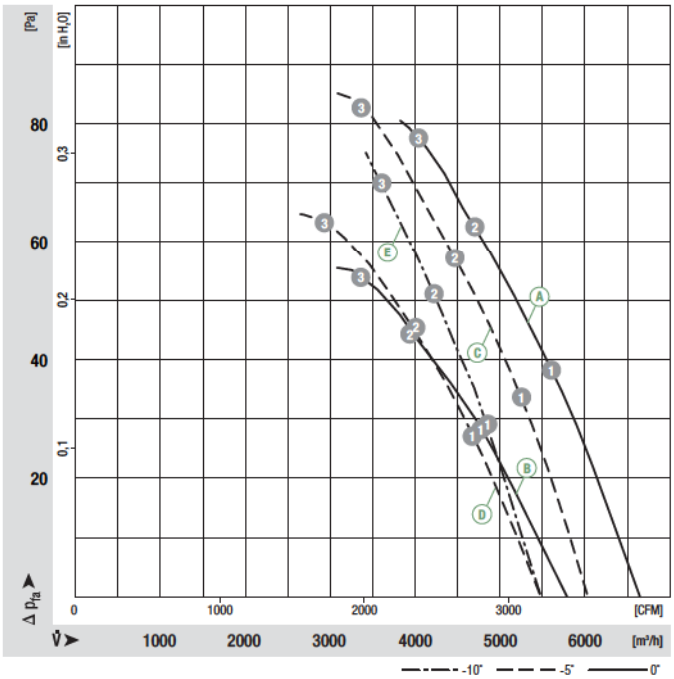
- **Material:** Guard grille: Steel, phosphated and coated in black plastic
  Wall ring: Sheet steel, pre-galvanised and coated in black plastic
  Blades: Sheet aluminium
  Rotor: Encased in aluminium
- **Number of blades:** 5
- **Direction of rotation:** Direction of air flow "V" counter-clockwise, direction of air flow "A" counter-clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharge holes:** On rotor and stator side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

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. 416 f.
*6D 500	M6D110-EF	0°	A	3~ 400 Δ	50	920	0.32	0.75	—	75	-40 to +75	F1b)/F2b)
			B	3~ 400 Y	50	765	0.23	0.40	—	50	-40 to +75	
*6D 500	M6D110-EF	-5°	C	3~ 400 Δ	50	945	0.29	0.74	—	80	-40 to +80	F1b)/F2b)
			D	3~ 400 Y	50	790	0.20	0.36	—	60	-40 to +80	
*6D 500	M6D110-EF	-10°	E	3~ 400 Δ	50	950	0.23	0.69	—	65	-40 to +80	F1b)/F2b)
*8D 500	M8D110-EF	0°	G	3~ 400 Δ	50	700	0.21	0.61	—	45	-40 to +70	F1b)/F2b)
			H	3~ 400 Y	50	615	0.12	0.25	—	34	-40 to +70	

subject to alterations

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

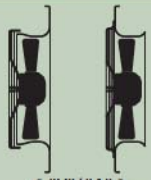
Curves



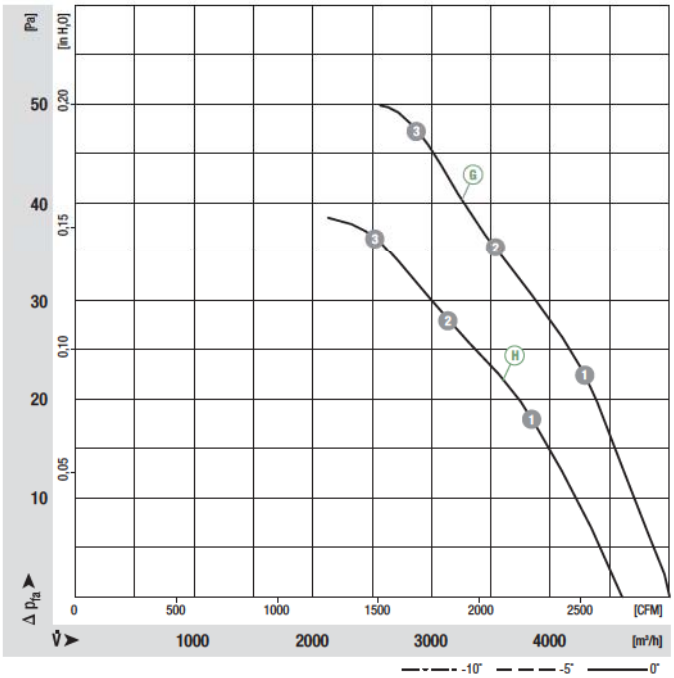
	n [rpm]	P_1 [kW]	I [A]	Lw_A [dB(A)]
A 1	935	0.29	0.75	70
A 2	930	0.30	0.76	70
A 3	920	0.32	0.75	71
B 1	800	0.20	0.36	67
B 2	785	0.21	0.37	66
B 3	765	0.23	0.40	67
C 1	950	0.24	0.71	69
C 2	940	0.25	0.72	69
C 3	945	0.29	0.74	72
D 1	845	0.17	0.31	66
D 2	830	0.18	0.33	66
D 3	790	0.20	0.36	68
E 1	960	0.20	0.68	68
E 2	955	0.21	0.68	70
E 3	950	0.23	0.69	71

ebmpapst

- **Motor protection:** Design with thermal overload protector
- **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	 ❮ "V"/"A" ❯ Without attachments	 ❮ "V"/"A" ❯ With full square nozzle	 ❮ "V" With guard grille for full nozzle	 ❮ "V" With guard grille for short nozzle	 "A" ❯ With guard grille for full nozzle	 "A" ❯ With guard grille for short nozzle	 ❮ "V" In-line duct fan
"V"	A6D 500-AG03 -01	W6D 500-GG03 -01	S6D 500-CG03 -01	S6D 500-AG03 -01	—	—	—
"A"	A6D 500-AG03 -02	W6D 500-DG03 -02	—	—	S6D 500-BG03 -02	S6D 500-AG03 -02	—
"V"	A6D 500-AH03 -01	W6D 500-GH03 -01	S6D 500-CH03 -01	S6D 500-AH03 -01	—	—	—
"A"	A6D 500-AH03 -02	W6D 500-DH03 -02	—	—	S6D 500-BH03 -02	S6D 500-AH03 -02	—
"V"	A6D 500-AI03 -01	W6D 500-GI03 -01	S6D 500-CI03 -01	S6D 500-AI03 -01	—	—	—
"A"	A6D 500-AI03 -02	W6D 500-DI03 -02	—	—	S6D 500-BI03 -02	S6D 500-AI03 -02	—
"V"	A8D 500-AG01 -01	W8D 500-GG01 -01	S8D 500-CG01 -01	S8D 500-AG01 -01	—	—	—
"A"	A8D 500-AG01 -02	W8D 500-DG01 -02	—	—	S8D 500-BG01 -02	S8D 500-AG01 -02	—

Curves



	n [rpm]	P_1 [kW]	I [A]	Lw_A [dB(A)]
G 1	710	0.19	0.64	64
G 2	710	0.20	0.63	62
G 3	700	0.21	0.61	65
H 1	635	0.11	0.23	61
H 2	630	0.12	0.24	60
H 3	615	0.12	0.25	61