AC axial fans - HyBlade®

Ø 800



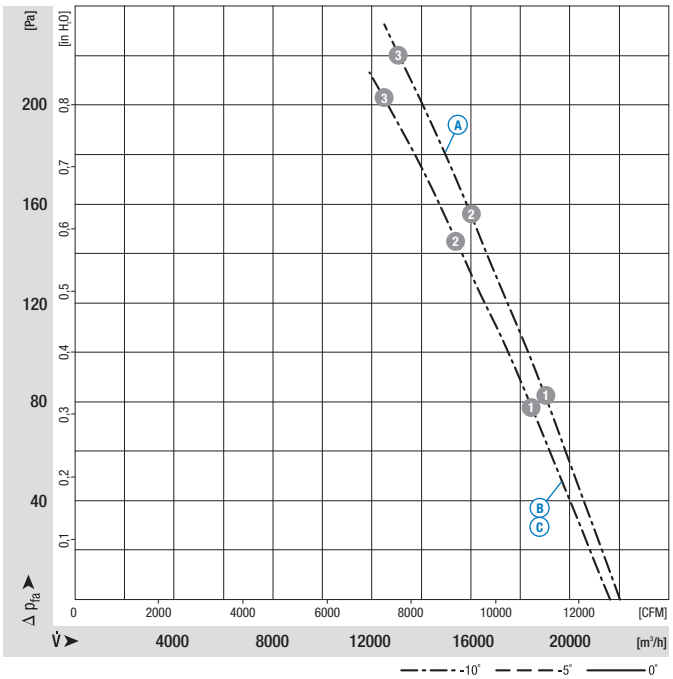
- **Material:** Guard grille: Steel, phosphated and coated in black plastic
  Wall ring: Sheet steel, pre-galvanised and coated in black plastic
  Blades: Insertion part made of sheet aluminium, extrusion-coated in PP plastics
  Rotor: Encased in aluminium
- **Number of blades:** 5
- **Direction of rotation:** Direction of air flow "V" clockwise, direction of air flow "A" counter-clockwise, seen on rotor
- **Type of protection:** IP 54 (in accordance with 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

Nominal data		Blade angle	Curve	Nominal voltage	Frequency	Speed (1)	Max. power input (1)	Max. current draw (1)	Capacitor	Max. operative range	Perm. amp. temp.	Electr. connection
Type	**Motor**			**VAC**	**Hz**	**rpm**	**kW**	**A**	**µF/VDB**	**Pa**	**°C**	p. 126
***6D 800**	M6D138-LA	-10°	Ⓐ	3~ 480 Y	60	1100	1.98	3.60	—	220	-40 to +60	F1b)/F2b)
			Ⓑ	3~ 400 Y	60	1050	1.80	3.55	—	200	-40 to +60	
			Ⓒ	3~ 230 Δ	60	1050	1.80	6.15	—	200	-40 to +60	
***6D 800**	M6D138-LA	-5°	Ⓓ	3~ 480 Y	60	1080	2.18	3.80	—	150	-40 to +60	F1b)/F2b)
			Ⓔ	3~ 400 Y	60	1030	1.99	3.78	—	135	-40 to +60	
			Ⓕ	3~ 230 Δ	60	1030	1.99	6.50	—	135	-40 to +60	

subject to alterations

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

Curves



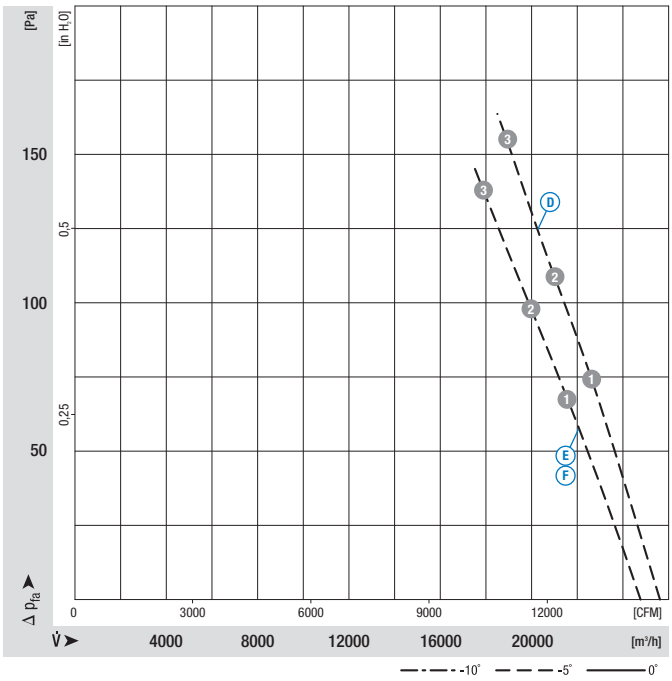
	n [rpm]	P1 [kW]	I [A]	LWA [dB(A)]
Ⓐ ①	1130	1.51	3.04	77
Ⓐ ②	1115	1.75	3.30	78
Ⓐ ③	1100	1.98	3.60	80
Ⓑ ①	1100	1.41	2.95	77
Ⓑ ②	1075	1.62	3.27	77
Ⓑ ③	1050	1.80	3.55	79
Ⓒ ①	1100	1.41	5.13	77
Ⓒ ②	1075	1.62	5.69	77
Ⓒ ③	1050	1.80	6.15	79

ebmpapst

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Via terminal box
- **Protection class:** I (in accordance with EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** UL, VDE (in accordance with 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" "A"	A6D 800-AF05 -03 A6D 800-AF05 -04	W6D 800-GF05 -03 W6D 800-DF05 -04	S6D 800-CF05 -03 —	S6D 800-AF05 -03 —	— S6D 800-BF05 -04	— —
"V" "A"	A6D 800-AE05 -03 A6D 800-AE05 -04	W6D 800-GE05 -03 W6D 800-DE05 -04	S6D 800-CE05 -03 —	S6D 800-AE05 -03 —	— S6D 800-BE05 -04	— —

Curves



	n [rpm]	P1 [kW]	I [A]	LWA [dB(A)]
D 1	1100	1.91	3.59	75
D 2	1090	2.03	3.72	74
D 3	1080	2.18	3.80	76
E 1	1060	1.74	3.47	74
E 2	1040	1.85	3.64	73
E 3	1030	1.99	3.78	75
F 1	1060	1.74	6.01	74
F 2	1040	1.85	6.30	73
F 3	1030	1.99	6.50	75

AC axial fans - HyBlade®

Ø 800



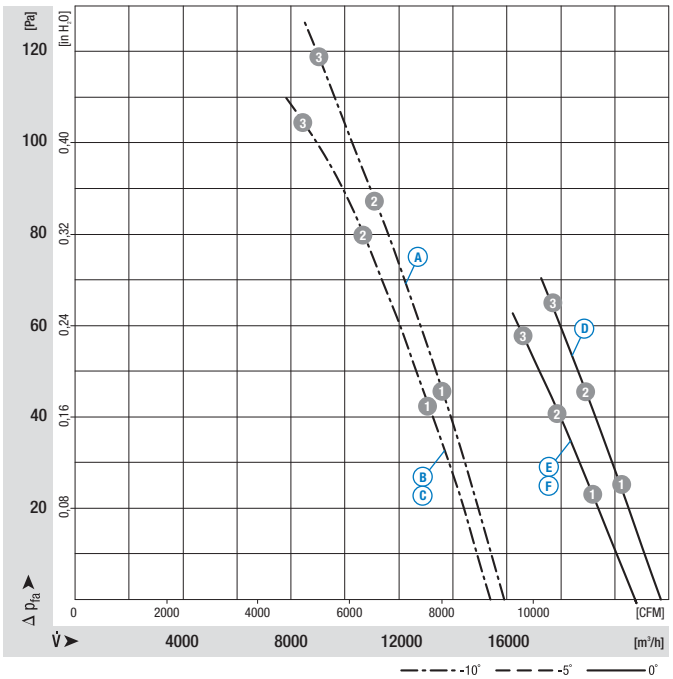
- **Material:** Guard grille: Steel, phosphated and coated in black plastic
  Wall ring: Sheet steel, pre-galvanised and coated in black plastic
  Blades: Insertion part made of sheet aluminium, extrusion-coated in PP plastics
  Rotor: Encased in aluminium
- **Number of blades:** 5
- **Direction of rotation:** Direction of air flow "V" clockwise, direction of air flow "A" counter-clockwise, seen on rotor
- **Type of protection:** IP 54 (in accordance with 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

Nominal data		Blade angle	Curve	Nominal voltage	Frequency	Speed (1)	Max. power input (1)	Max. current draw (1)	Capacitor	Max. operative range	Perm. amp. temp.	Electr. connection
Type	**Motor**			**VAC**	**Hz**	**rpm**	**kW**	**A**	**µF/VDB**	**Pa**	**°C**	p. 126
***8D 800**	M8D 138-HF	-10°	Ⓐ	3~ 480 Y	60	800	0.87	1.95	—	115	-40 to +65	F1b)/F2b)
			Ⓑ	3~ 400 Y	60	755	0.76	1.70	—	105	-40 to +65	
			Ⓒ	3~ 230 Δ	60	755	0.76	2.94	—	105	-40 to +65	
***8D 800**	M8D 138-LA	0°	Ⓓ	3~ 480 Y	60	800	1.27	2.47	—	65	-40 to +65	F1b)/F2b)
			Ⓔ	3~ 400 Y	60	750	1.12	2.40	—	57	-40 to +65	
			Ⓕ	3~ 230 Δ	60	750	1.12	4.15	—	57	-40 to +65	
***ZD 800**	MZD 138-HF	0°	Ⓖ	3~ 480 Y	60	510	0.52	1.20	—	50	-40 to +65	F1b)/F2b)
			Ⓗ	3~ 400 Y	60	480	0.43	1.10	—	44	-40 to +65	
			Ⓘ	3~ 230 Δ	60	480	0.43	1.90	—	44	-40 to +65	

subject to alterations

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

Curves



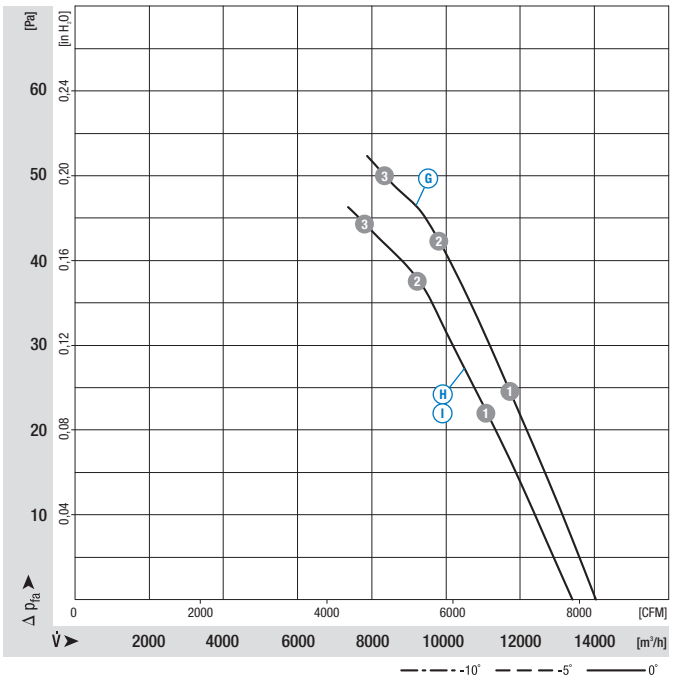
	n [rpm]	P1 [kW]	I [A]	LWA [dB(A)]
Ⓐ ①	825	0.69	1.83	70
Ⓐ ②	810	0.79	1.89	71
Ⓐ ③	800	0.87	1.95	72
Ⓑ ①	800	0.60	1.52	71
Ⓑ ②	780	0.69	1.64	70
Ⓑ ③	755	0.76	1.70	71
Ⓒ ①	800	0.60	2.64	71
Ⓒ ②	780	0.69	2.85	70
Ⓒ ③	755	0.76	2.94	71
Ⓓ ①	815	1.14	2.37	68
Ⓓ ②	805	1.21	2.44	69
Ⓓ ③	800	1.27	2.47	69
Ⓔ ①	770	1.03	2.27	67
Ⓔ ②	760	1.08	2.36	67
Ⓔ ③	750	1.12	2.40	68
Ⓕ ①	770	1.03	3.95	67
Ⓕ ②	760	1.08	4.10	67
Ⓕ ③	750	1.12	4.15	68

ebmpapst

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Via terminal box
- **Protection class:** I (in accordance with EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** UL, VDE (in accordance with 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" "A"	A8D 800-AI09 -03 A8D 800-AI09 -04	W8D 800-GI09 -03 W8D 800-DI09 -04	S8D 800-CI09 -03 —	S8D 800-AI09 -03 —	— S8D 800-BI09 -04	— —
"V" "A"	A8D 800-AD05 -03 A8D 800-AD05 -04	W8D 800-GD05 -03 W8D 800-DD05 -04	S8D 800-CD05 -03 —	S8D 800-AD05 -03 —	— S8D 800-BD05 -04	— —
"V" "A"	AZD 800-AG07 -03 AZD 800-AG07 -04	WZD 800-GG07 -03 WZD 800-DG07 -04	SZD 800-CG07 -03 —	SZD 800-AG07 -03 —	— SZD 800-BG07 -04	— —

Curves



	n [rpm]	P1 [kW]	I [A]	LWA [dB(A)]
G 1	530	0.46	1.16	59
G 2	520	0.48	1.18	59
G 3	510	0.52	1.20	60
H 1	500	0.38	1.01	57
H 2	490	0.40	1.05	58
H 3	480	0.43	1.10	60
I 1	500	0.38	1.76	57
I 2	490	0.40	1.83	58
I 3	480	0.43	1.90	60

Drawings p. 54 f.
Motor protection p. 122 f.
Electr. connections p. 126