

# EC axial fans - HyBlade®

Ø 500



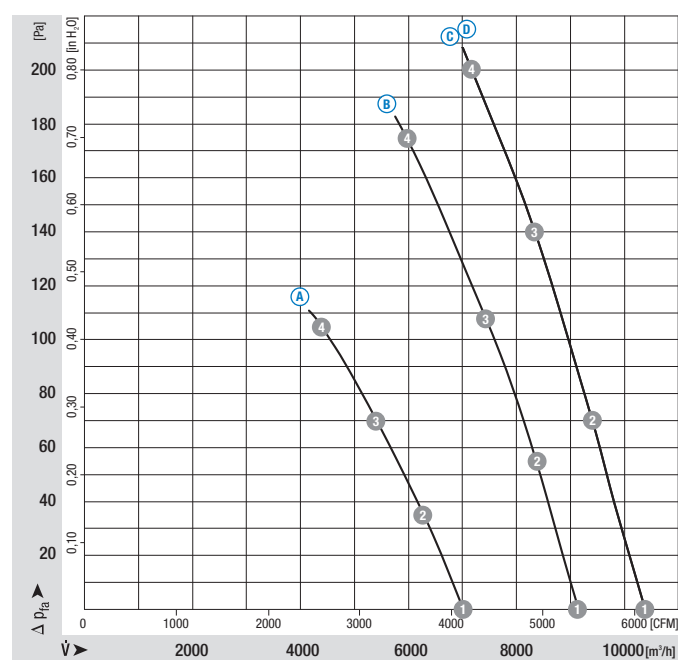
- **Material:** Guard grille: Steel, phosphated and coated in black plastic  
Wall ring: Sheet steel, pre-galvanised and coated in black plastic  
Blades: Pressed-on round sheet steel plate, extrusion-coated in PP plastics  
Rotor: Coated in black  
Electronics enclosure: Die-cast aluminium, <sup>(B)</sup> <sup>(C)</sup> <sup>(D)</sup> coated in black additionally
- **Number of blades:** 5
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "B" ("F" applying to the main components as per EN)
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm <sup>(1)</sup>	Max. power input <sup>(1)</sup>	Max. current draw <sup>(1)</sup>	Max. operative range	Perm. amb. temp.	Mass without attachments	Technical features and elect. connections
Type	Motor			VAC	Hz	rpm	kW	A	Pa	°C	kg	
*3G 500	M3G 084-GF	0°	(A)	1~ 100-130	50/60	1080	0,38	3,30	105	-25..+60	6,2	p. 36 / K1)
*3G 500	M3G 112-EA	0°	(B)	1~ 200-277	50/60	1420	0,75	3,40	175	-25..+60	7,2	p. 37 / L3)
*3G 500	M3G 112-GA	0°	(C)	3~ 200-240	50/60	1600	0,98	3,20	200	-25..+60	9,2	p. 39 / K3)
*3G 500	M3G 112-GA	0°	(D)	3~ 380-480	50/60	1600	0,98	1,60	200	-25..+60	9,2	p. 39 / K3)

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC or 230 VAC or 400 VAC

## 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 40 ff.

	n [rpm]	P <sub>1</sub> [kW]	I [A]	L <sub>wA</sub> [dB(A)]
(A) 1	1080	0,26	2,26	72
(A) 2	1080	0,30	2,61	68
(A) 3	1080	0,33	2,87	65
(A) 4	1080	0,38	3,30	66
(B) 1	1420	0,55	2,51	78
(B) 2	1420	0,62	2,80	75
(B) 3	1420	0,68	3,03	73
(B) 4	1420	0,75	3,40	74
(C) 1	1600	0,73	2,32	80
(C) 2	1600	0,83	2,66	77
(C) 3	1600	0,91	2,82	75
(C) 4	1600	0,98	3,20	76
(D) 1	1600	0,73	1,16	80
(D) 2	1600	0,83	1,33	77
(D) 3	1600	0,91	1,41	75
(D) 4	1600	0,98	1,60	76

- **Technical features:** See electrical connections p. 36 ff.
- **EMC:**
  - Ⓐ Ⓑ Interference emission acc. to EN 61000-6-3
  - Ⓒ Ⓓ Interference emission acc. to EN 61000-6-4
  - Interference immunity acc. to EN 61000-6-2
  - Harmonics acc. to EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standards:** CE
- **Approvals:** GOST; UL/CSA are applied for; CCC on request

Direction of air flow			
	Without attachments	With full square nozzle	With guard grille for short nozzle
"V"	on request	W3G 500-GD09 -41	on request
"V"	A3G 500-AM56 -21	W3G 500-GM56 -21	S3G 500-AM56 -21
"V"	on request	W3G 500-GN38 -11	on request
"V"	A3G 500-AN33 -01	W3G 500-GN33 -01	S3G 500-AN33 -01

Direction of air flow "A" on request

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Ø 500 with motor M3G084, drawings for direction of air flow "V"

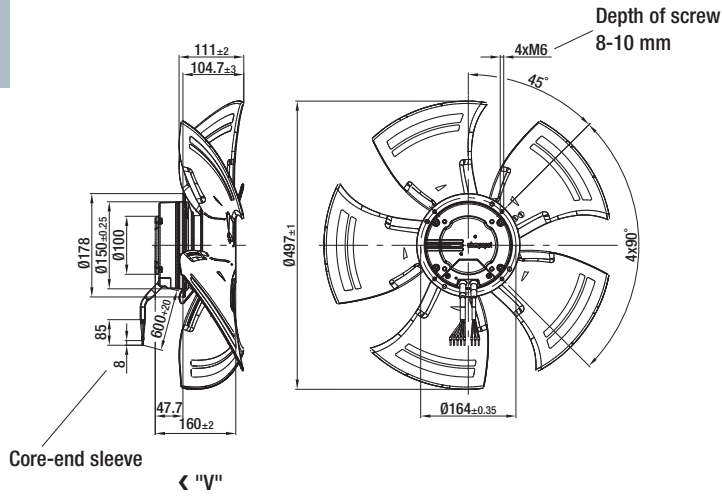


## Without attachments

Type

Mass  
[kg]

Ⓐ on request 6,2



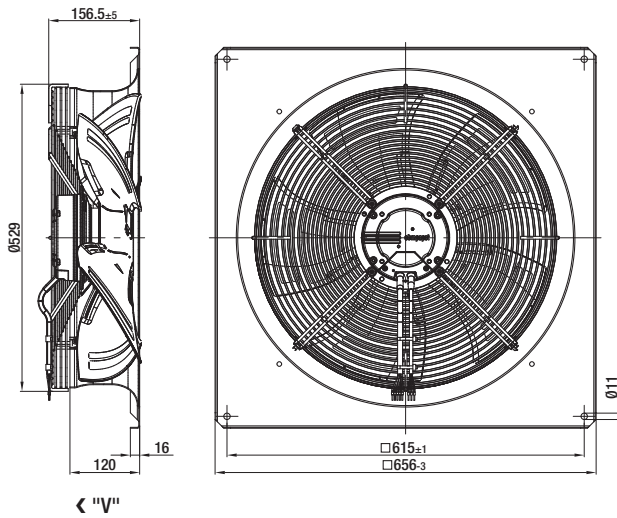
Internal diameter of the wall ring at least 503 mm

## With full square nozzle

Type

Mass  
[kg]

Ⓐ W3G-500-GD09 -41 12,2

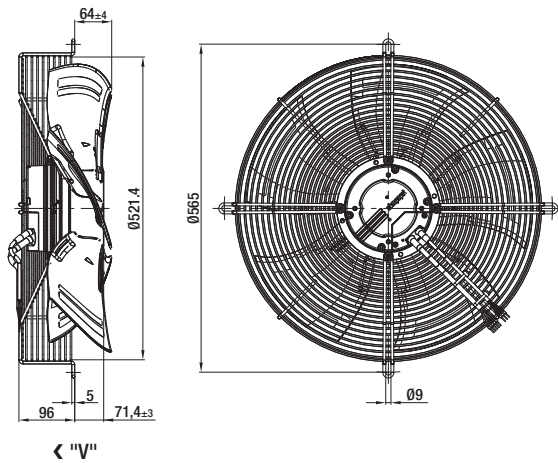


## With guard grille for short nozzle

Type

Mass  
[kg]

Ⓐ on request 8,7



Internal diameter of the wall ring at least 503 mm

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Ø 500 with motor M3G112, drawings for direction of air flow "V"



## Without attachments

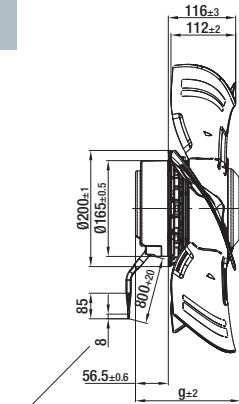
Type

Mass  
[kg]

g

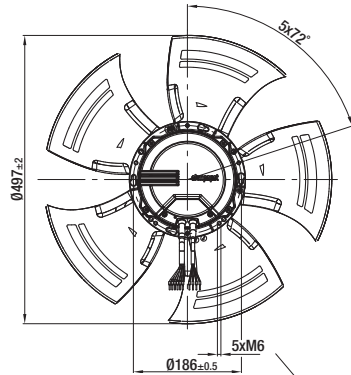
B	A3G 500-AM56 -21	7,2	160,5
C	on request	9,2	180,5
D	A3G 500-AN33 -01	9,2	180,5

Internal diameter of the wall ring at least 503 mm



Core-end sleeve

◀ "V"



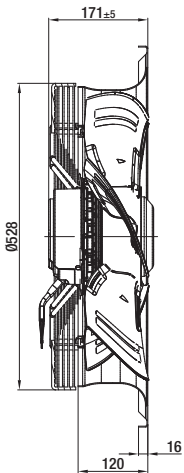
Depth of screw  
12-16 mm

## With full square nozzle

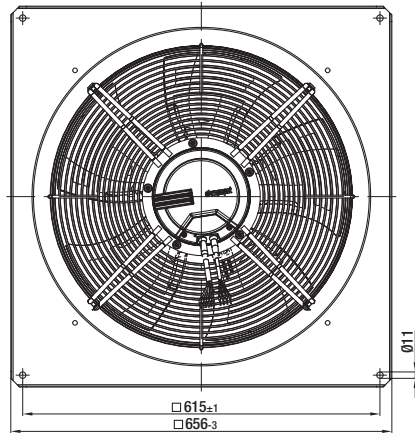
Type

Mass  
[kg]

B	W3G 500-GM56 -21	17,2
C	W3G 500-GN38 -11	19,2
D	W3G 500-GN33 -01	19,2



◀ "V"



## With guard grille for short nozzle

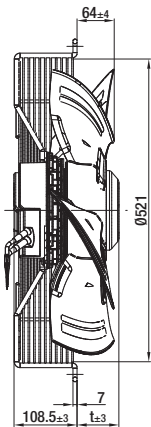
Type

Mass  
[kg]

t

B	S3G 500-AM56 -21	10,5	52,0
C	on request	12,5	72,0
D	S3G 500-AN33 -01	12,5	72,0

Internal diameter of the wall ring at least 503 mm



◀ "V"

