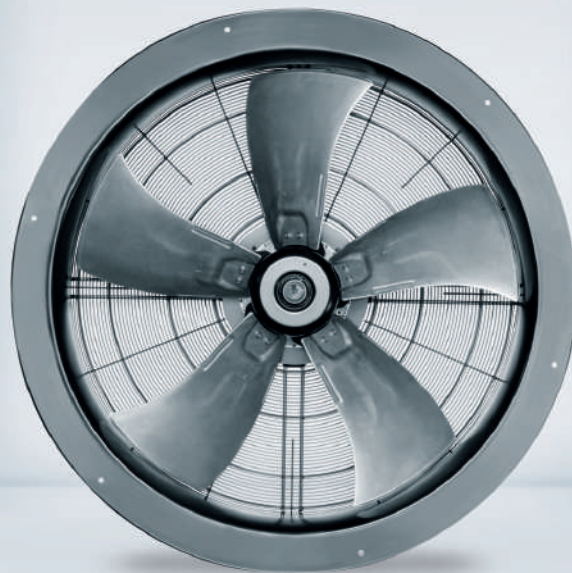


EC axial fans – HyBlade®

Edition 2015-09

ebmpapst

The engineer's choice



The HyBlade®

- an ongoing success story ...

The overall efficiency of a fan can only ever be as good as the efficiency of each of the fan components.

Our successful HyBlade fan blades and impellers are major contributory factors, setting market standards in terms of both aerodynamics and aeroacoustics with their optimized blade geometries.

The HyBlade series is now complete, offering a full range of fan sizes from 200 to 990.

In combination with the GreenTech EC motors featuring integrated control electronics, these provide an ideal basis for maximum efficiency and optimum system incorporation.

Making it possible to combine a variety of EC motors and electronics options, the intelligent modular system leaves nothing to be desired. The outcome is the new standard range in this catalog!

Adaptations have been made to satisfy market and application requirements. The lower end of the 200 to 450 fan size range has been extended and is now available with GreenTech EC motors with both 2-speed and analog 0-10 V interface and different power outputs.

The new size 84 and 112 EC motor generation has been introduced for fan sizes 400 to 910 and can now be supplied as standard with a 0-10 V and an RS485 MODBUS RTU serial interface.

The modular design of this new EC motor generation also permits single-phase and 3-phase versions for lower output ranges. The increased IP protection level provided by IP55 rounds off this range from a technical point of view and allows a broad spectrum of applications.

The catalog now also includes AxiTop versions of fan sizes 800 and 910, thus considerably raising the output range in both cases.

At the top end, fan size 1250 has been added to the standard range and an AxiTop version is also available.

This has further extended the output range, opening up yet more and new potential areas of application for our products.

Our "Product selector" design program now also contains the corresponding collections for this new standard range to help customers choose the ideal fan best suited to their application.

All the axial fans presented in the catalog surpass the higher minimum efficiency requirements stipulated in the ecodesign directive for fans which came into force in 2015.

The advantages at a glance:

- High efficiency thanks to HyBlade axial impellers and the new GreenTech EC motors
- Perfectly matched components
(motor/electronics/impeller/peripherals)
- Minimal noise level thanks to HyBlade technology and optimized peripherals
- High power density
- Compact design
- EC fans with 2 speeds or infinitely variable control
(fan size 200-450 mm)
- RS485 MODBUS serial interface throughout
(fan size 400-1250 mm)
- Robust design and maintenance-free operation
- Extremely simple commissioning

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Sustainable thought processes and actions. As a matter of principle!

Environmental compatibility and sustainability have always formed the basis for all our thought processes and actions. Which is why we have been dedicated for decades to the simple but firm principle of one of our company founders, Gerhard Sturm: "Every new product we develop must be economically and ecologically superior to its predecessor." We use the name GreenTech to express our company philosophy.

GreenTech means looking ahead.

We optimize the materials and processes we employ right from the design stage to ensure optimum environmental compatibility, the best possible energy balance and – where feasible – maximum recyclability. We are constantly improving materials, performance and the flow and noise characteristics of our products, while at the same time significantly reducing energy consumption.

Close ties with universities and scientific institutes as well as a sponsored professorship in the field of power engineering and regenerative energies also allow us to benefit from the latest research results in these areas – as well as providing us with a reservoir of highly qualified young talent for the future.

GreenTech means environmentally compatible production.

GreenTech also stands for maximum energy efficiency in our production processes. Photovoltaics, the intelligent use of waste heat and groundwater cooling and of course our own cooling and ventilation technology all play a major role.

Energy consumption at our most modern plant is 91% lower than demanded by the applicable regulations for example.

In this way, our products make their contribution to environmental protection from the development stage right through to recycling of the packaging.



GreenTech is a recognized, award-winning concept.

Our entire production chain can stand up to critical scrutiny by environmental specialists and the public.

Confirmation of this came in the form of an award as Germany's most sustainable company in 2013 and the 2012 DEKRA Award in the category "Environment – The Challenge of Energy Transition" – to name just a few examples.

The ecological prowess of our products based on GreenTech principles is also verified by their compliance with even the most stringent energy and environmental standards.

In many cases they already more than satisfy limit values which will only come into force in a few years time.

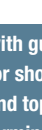
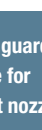
GreenTech is a good investment for our customers.

At the heart of GreenTech is innovative EC technology from ebm-papst, which enables our best motors and fans to attain efficiency levels of up to 90%, achieves maximum energy savings, ensures a far longer service life and makes our products completely maintenance-free.

Figures that are not just good for the environment but also of 100% benefit to users! Because all ebm-papst products – even those for which GreenTech EC technology is not (yet) of relevance to the particular application – offer an ideal combination of economic and ecological advantages.

GreenTech means
ecologically improving
every new product.

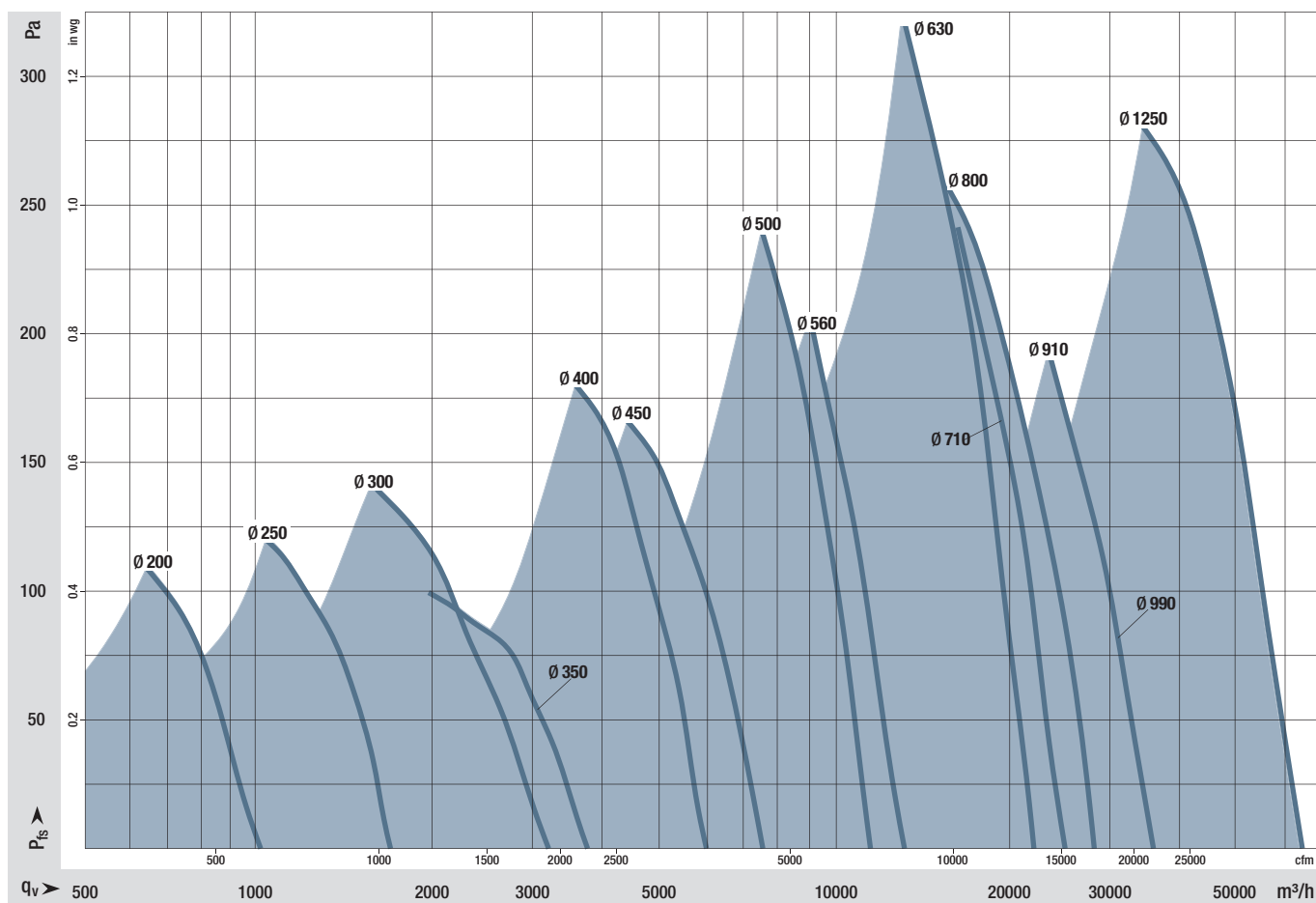
Product overview EC-HyBlade®

Ø	Motor	Nominal voltage range VAC	without attachments 	with round full nozzle 	Compact fan 	with guard grille for short nozzle 	with guard grille for short nozzle and top-mounted terminal box 	Page ff.
200	M3G 055-BD	1~200-240	A3G 200-AD01 -01	W3G 200-CD01 -30	---	S3G 200-AD01 -30	S3G 200-AD01 -50	12
	M3G 055-BD	1~200-240	---	---	W3G 200-HD01 -01	---	---	
	M3G 055-BD	1~200-240	A3G 200-AD01 -03	W3G 200-CD01 -32	---	S3G 200-AD01 -32	S3G 200-AD01 -52	
	M3G 055-BD	1~200-240	---	---	W3G 200-HD01 -03	---	---	
250	M3G 055-CF	1~200-240	A3G 250-AH07 -01	W3G 250-CH07 -30	---	S3G 250-AH07 -30	S3G 250-AH07 -50	18
	M3G 055-CF	1~200-240	---	---	W3G 250-HH07 -01	---	---	
	M3G 055-CF	1~200-240	A3G 250-AH07 -03	W3G 250-CH07 -32	---	S3G 250-AH07 -32	S3G 250-AH07 -52	
	M3G 055-CF	1~200-240	---	---	W3G 250-HH07 -03	---	---	
Ø	Motor	Nominal voltage range VAC	without attachments 	with round full nozzle 	with guard grille for short nozzle 	with guard grille for short nozzle and top-mounted terminal box 	Page ff.	
300	M3G 055-CF	1~200-240	A3G 300-AK13 -01	W3G 300-CK13 -30	S3G 300-AK13 -30	S3G 300-AK13 -50	24	
	M3G 055-DF	1~200-240	A3G 300-AL11 -01	W3G 300-CL11 -30	S3G 300-AL11 -30	S3G 300-AL11 -50		
	M3G 074-CF	1~200-240	A3G 300-AN02 -01	W3G 300-CN02 -30	S3G 300-AN02 -30	S3G 300-AN02 -50		
	M3G 055-CF	1~200-240	A3G 300-AK13 -03	W3G 300-CK13 -32	S3G 300-AK13 -32	S3G 300-AK13 -52		
	M3G 055-DF	1~200-240	A3G 300-AL11 -03	W3G 300-CL11 -32	S3G 300-AL11 -32	S3G 300-AL11 -52		
	M3G 074-CF	1~200-240	A3G 300-AN02 -03	W3G 300-CN02 -32	S3G 300-AN02 -32	S3G 300-AN02 -52		
350	M3G 055-DF	1~200-240	A3G 350-AG03 -01	W3G 350-CG03 -30	S3G 350-AG03 -30	S3G 350-AG03 -50	32	
	M3G 074-CF	1~200-240	A3G 350-AN01 -01	W3G 350-CN01 -30	S3G 350-AN01 -30	S3G 350-AN01 -50		
	M3G 055-DF	1~200-240	A3G 350-AG03 -03	W3G 350-CG03 -32	S3G 350-AG03 -32	S3G 350-AG03 -52		
	M3G 074-CF	1~200-240	A3G 350-AN01 -03	W3G 350-CN01 -32	S3G 350-AN01 -32	S3G 350-AN01 -52		
400	M3G 074-CF	1~200-240	A3G 400-AN04 -01	W3G 400-CN04 -30	S3G 400-AN04 -30	S3G 400-AN04 -50	38	
	M3G 074-CF	1~200-240	A3G 400-AN04 -03	W3G 400-CN04 -32	S3G 400-AN04 -32	S3G 400-AN04 -52		
450	M3G 074-DF	1~200-240	A3G 450-A002 -01	W3G 450-C002 -30	S3G 450-A002 -30	S3G 450-A002 -50	44	
	M3G 074-DF	1~200-240	A3G 450-A002 -03	W3G 450-C002 -32	S3G 450-A002 -32	S3G 450-A002 -52		
Ø	Motor	Nominal voltage range VAC	without attachments 	with square full nozzle 	with guard grille for short nozzle 	Page ff.		
400	M3G 084-DF	1~200-277	A3G 400-BK08 -H1	W3G 400-FK08 -H1	S3G 400-LK08 -H1	38		
	M3G 084-DF	3~380-480	A3G 400-BK11 -M1	W3G 400-FK11 -M1	S3G 400-LK11 -M1			
450	M3G 084-FA	1~200-277	A3G 450-BL03 -H1	W3G 450-FL03 -H1	S3G 450-LL03 -H1	44		
	M3G 084-FA	3~380-480	A3G 450-BL07 -M1	W3G 450-FL07 -M1	S3G 450-LL07 -M1			

Data is subject to change without notice at ebm-papst discretion.

Ø	Motor	Nominal voltage range VAC	without attachments 	with round ⁽¹⁾ / square ⁽²⁾ full nozzle 	with guard grille for short nozzle ⁽³⁾ / full nozzle ⁽⁴⁾ 	with round ⁽¹⁾ / square ⁽²⁾ full nozzle and diffuser (AxiTop) 	Page ff.
500	M3G 084-DF	1~200-277	A3G 500-BK07 -G1	W3G 500-GK07 -G1 ⁽²⁾	S3G 500-AK07 -G1 ⁽³⁾	---	50
	M3G 084-GF	1~200-277	A3G 500-BM06 -H1	W3G 500-GM06 -H1 ⁽²⁾	S3G 500-AM06 -H1 ⁽³⁾	---	
	M3G 084-GF	3~380-480	A3G 500-BM03 -M1	W3G 500-GM03 -M1 ⁽²⁾	S3G 500-AM03 -M1 ⁽³⁾	---	
	M3G 112-EA	1~200-277	A3G 500-BA74 -21	W3G 500-GA74 -21 ⁽²⁾	S3G 500-AA74 -21 ⁽³⁾	---	
	M3G 112-GA	3~380-480	A3G 500-BD59 -01	W3G 500-GD59 -01 ⁽²⁾	S3G 500-AD59 -01 ⁽³⁾	---	
560	M3G 112-EA	1~200-277	A3G 560-BB78 -21	W3G 560-GB78 -21 ⁽²⁾	S3G 560-AB78 -21 ⁽³⁾	---	58
	M3G 112-IA	3~380-480	A3G 560-BH99 -01	W3G 560-GH99 -01 ⁽²⁾	S3G 560-AH99 -01 ⁽³⁾	---	
630	M3G 084-FA	1~200-277	A3G 630-BL06 -G1	W3G 630-GL06 -G1 ⁽²⁾	S3G 630-AL06 -G1 ⁽³⁾	---	62
	M3G 084-GF	1~200-277	A3G 630-BM07 -H1	W3G 630-GM07 -H1 ⁽²⁾	S3G 630-AM07 -H1 ⁽³⁾	---	
	M3G 112-GA	3~380-480	A3G 630-BE55 -51	W3G 630-GE55 -51 ⁽²⁾	S3G 630-AE55 -51 ⁽³⁾	---	
	M3G 112-GA	1~200-277	A3G 630-BE55 -21	W3G 630-GE55 -21 ⁽²⁾	S3G 630-AE55 -21 ⁽³⁾	---	
	M3G 112-IA	3~380-480	A3G 630-BG97 -01	W3G 630-GG97 -01 ⁽²⁾	S3G 630-AG97 -01 ⁽³⁾	---	
	M3G 150-IF	3~380-480	A3G 630-AU31 -71	W3G 630-GU31 -71 ⁽²⁾	S3G 630-AU31 -71 ⁽³⁾	---	
710	M3G 112-EA	1~200-277	A3G 710-BB77 -41	W3G 710-GB77 -41 ⁽²⁾	S3G 710-AB77 -41 ⁽³⁾	---	70
	M3G 112-EA	3~380-480	A3G 710-BB80 -51	W3G 710-GB80 -51 ⁽²⁾	S3G 710-AB80 -51 ⁽³⁾	---	
	M3G 112-GA	1~200-277	A3G 710-BD60 -31	W3G 710-GD60 -31 ⁽²⁾	S3G 710-AD60 -31 ⁽³⁾	---	
	M3G 112-IA	1~200-277	A3G 710-BG95 -21	W3G 710-GG95 -21 ⁽²⁾	S3G 710-AG95 -21 ⁽³⁾	---	
	M3G 112-IA	3~380-480	A3G 710-BG98 -01	W3G 710-GG98 -01 ⁽²⁾	S3G 710-AG98 -01 ⁽³⁾	---	
	M3G 150-IF	3~380-480	A3G 710-AU32 -71	W3G 710-GU32 -71 ⁽²⁾	S3G 710-AU32 -71 ⁽³⁾	---	
800	M3G 112-EA	1~200-277	A3G 800-BA77 -41	W3G 800-GA77 -41 ⁽²⁾	S3G 800-BA77 -41 ⁽⁴⁾	---	78
	M3G 112-GA	3~380-480	A3G 800-BA77 -51	W3G 800-GA77 -51 ⁽²⁾	S3G 800-BA77 -51 ⁽⁴⁾	---	
	M3G 112-EA	1~200-277	A3G 800-BD57 -31	W3G 800-GD57 -31 ⁽²⁾	S3G 800-BD57 -31 ⁽⁴⁾	---	
	M3G 112-IA	3~380-480	A3G 800-BG01 -51	W3G 800-GG01 -51 ⁽²⁾	S3G 800-BG01 -51 ⁽⁴⁾	---	
	M3G 112-IA	1~200-277	A3G 800-BG95 -21	W3G 800-GG95 -21 ⁽²⁾	S3G 800-BG95 -21 ⁽⁴⁾	---	
	M3G 112-IA	3~380-480	A3G 800-BG95 -01	W3G 800-GG95 -01 ⁽²⁾	S3G 800-BG95 -01 ⁽⁴⁾	W3G 800-HG95 -01 ⁽²⁾	
	M3G 150-FF	3~380-480	A3G 800-AS26 -71	W3G 800-GS26 -71 ⁽²⁾	S3G 800-BS26 -71 ⁽⁴⁾	---	
	M3G 150-IF	3~380-480	A3G 800-AU23 -71	W3G 800-GU23 -71 ⁽²⁾	S3G 800-BU23 -71 ⁽⁴⁾	W3G 800-HU23 -71 ⁽²⁾	
	M3G 150-NA	3~380-480	A3G 800-AV05 -71	W3G 800-GV05 -71 ⁽²⁾	S3G 800-BV05 -71 ⁽⁴⁾	W3G 800-HV05 -71 ⁽²⁾	
910	M3G 112-EA	1~200-277	A3G 910-BA79 -41	W3G 910-GA79 -41 ⁽²⁾	S3G 910-BA79 -41 ⁽⁴⁾	---	94
	M3G 112-GA	1~200-277	A3G 910-BD61 -31	W3G 910-GD61 -31 ⁽²⁾	S3G 910-BD61 -31 ⁽⁴⁾	---	
	M3G 112-IA	1~200-277	A3G 910-BG02 -21	W3G 910-GG02 -21 ⁽²⁾	S3G 910-BG02 -21 ⁽⁴⁾	---	
	M3G 112-IA	3~380-480	A3G 910-BG02 -51	W3G 910-GG02 -51 ⁽²⁾	S3G 910-BG02 -51 ⁽⁴⁾	W3G 910-HG02 -51 ⁽²⁾	
	M3G 150-FF	3~380-480	A3G 910-AS39 -71	W3G 910-GS39 -71 ⁽²⁾	S3G 910-BS39 -71 ⁽⁴⁾	---	
	M3G 150-IF	3~380-480	A3G 910-AU27 -71	W3G 910-GU27 -71 ⁽²⁾	S3G 910-BU27 -71 ⁽⁴⁾	W3G 910-HU27 -71 ⁽²⁾	
	M3G 150-NA	3~380-480	A3G 910-AV12 -71	W3G 910-GV12 -71 ⁽²⁾	S3G 910-BV12 -71 ⁽⁴⁾	W3G 910-HV12 -71 ⁽²⁾	
990	M3G 150-IF	3~380-480	A3G 990-AY22 -71	W3G 990-GY22 -71 ⁽²⁾	S3G 990-BY22 -71 ⁽⁴⁾	---	108
	M3G 150-NA	3~380-480	A3G 990-AZ01 -71	W3G 990-GZ01 -71 ⁽²⁾	S3G 990-BZ01 -71 ⁽⁴⁾	---	
1250	M3G 200-QA	3~380-480	---	W3G Z50-FF02 -01 ⁽¹⁾	---	W3G Z50-EF02 -01 ⁽¹⁾	112

Overview of curves EC-HyBlade®



EC-HyBlade® in the Product Selector



To aid in selection of the right fan, ebm-papst provides the "Product Selector" software.

With this new program, you can use the operating point as a selection criterion for HyBlade fans.

If there is more than one fan in the specified power range, the displayed aerodynamic and acoustic data can be used to select and document the most suitable fan.

You can also have the life cycle costs calculated for the selected fans.

You can make your selection based on point of operation or type designation

Data sheets can be created in PDF format and show not only a fan's nominal data but also its performance data at the specified operating point together with the intake and outlet sound power levels over the octave band.

Just ask your contact at ebm-papst !



EC axial fans – HyBlade®



EC axial fans – HyBlade®

Ø 200, including compact fan



- **Material:** Guard grille: Steel, coated with black plastic (RAL 9005)
Fan housing: Sheet steel, galvanized and coated with black plastic (RAL 9005)
Compact fan housing: Die-cast aluminum
Blades: PP plastic
Rotor: Thick-film passivated
Electronics housing: Die-cast aluminum
- **Number of blades:** 7
- **Direction of rotation:** Counterclockwise viewed toward rotor
- **Degree of protection:** IP54⁽²⁾
- **Insulation class:** "B"
- **Installation position:** Any
- **Condensation drain holes:** None, open rotor
- **Mode:** Continuous operation (S1)
- **Mounting:** Maintenance-free ball bearings

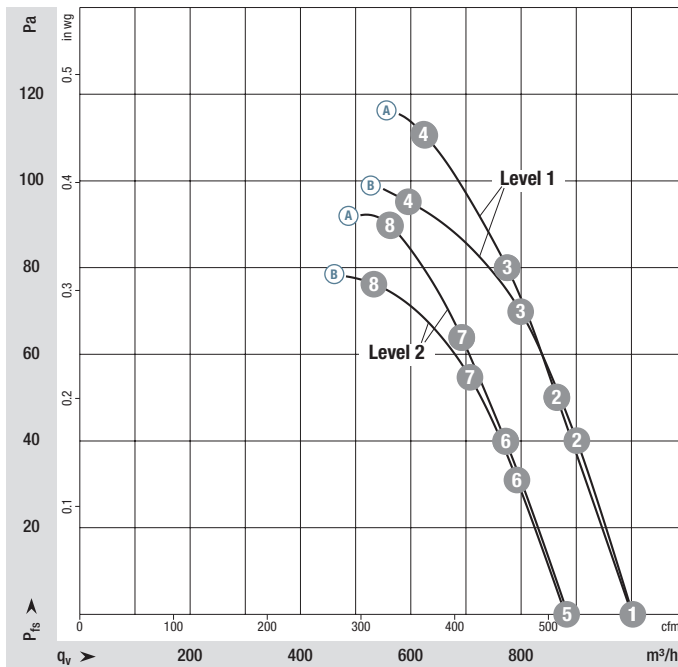
Nominal data		Curve	Nominal voltage range	Frequency	Speed ⁽¹⁾	Max. input power ⁽¹⁾	Max. input current ⁽¹⁾	Max. back pressure	Perm. ambient temp.	2-speed / 0-10 V	Techn. features and connection diagram
Type	Motor		VAC	Hz	rpm	W	A	Pa	°C		
*3G 200 ⁽²⁾	M3G 055-BD	A	1~200-240	50/60	2820	60	0,53	110	-25...+60	2 speed levels	P. 128 / H3)
*3G 200 ⁽²⁾	M3G 055-BD	B	1~200-240	50/60	2900	54	0,55	96	-25...+60	2 speed levels	P. 128 / H3)
*3G 200 ⁽²⁾	M3G 055-BD	C	1~200-240	50/60	2820	60	0,53	110	-25...+60	Open-loop speed control	P. 129 / H4)
*3G 200 ⁽²⁾	M3G 055-BD	D	1~200-240	50/60	2900	54	0,55	96	-25...+60	Open-loop speed control	P. 129 / H4)

Subject to change

(1) Nominal data at operating point with maximum load and 230 VAC

(2) Not suitable for constant outdoor use, special version available on request.

Curves:
2 speed levels



	n rpm	P _{ed} W	I A	L _{WA} dB(A)
A 1 Level 1	2985	50	0,46	64
A 2 Level 1	2875	55	0,50	64
A 3 Level 1	2830	57	0,52	66
A 4 Level 1	2820	60	0,53	72
A 5 Level 2	2650	36	0,37	61
A 6 Level 2	2575	40	0,40	61
A 7 Level 2	2540	41	0,42	63
A 8 Level 2	2535	42	0,42	68
B 1 Level 1	2970	50	0,49	65
B 2 Level 1	2885	55	0,53	64
B 3 Level 1	2825	58	0,56	65
B 4 Level 1	2900	54	0,55	71
B 5 Level 2	2645	36	0,37	62
B 6 Level 2	2575	39	0,40	61
B 7 Level 2	2525	42	0,42	62
B 8 Level 2	2510	42	0,43	68

Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection. Intake-side sound level: L_{WA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

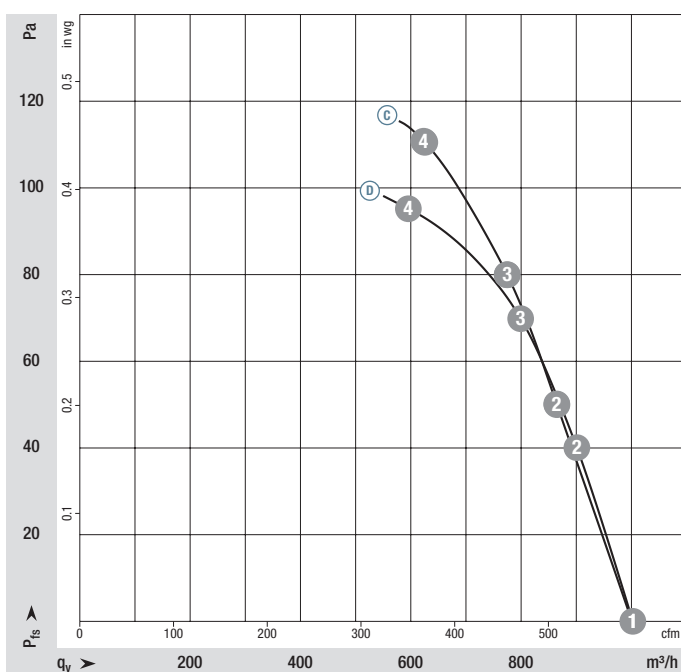
- **Technical features:** See connection diagram P. 128 f.
- **EMC:** Immunity to interference according to EN 61000-6-2 (industrial environment)
Circuit feedback according to EN 61000-3-2/3
Interference emission according to EN 61000-6-3 (household environment)
Radio interference is to be checked in the complete unit.
- **Touch current:** $\leq 3,5$ mA according to IEC 60990 (measuring circuit Fig. 4)
- **Cable exit:** Variable
- **Terminal box design:** electrical connection via terminal strip
- **Protection class:** I (with customer connection of protective earth)
- **Conformity with standards:** EN 60335-1, CE
- **Approvals:** VDE; cURus⁽³⁾

Airflow direction		Weight without attachments		Weight with round full nozzle		Weight with full nozzle		Weight with guard grille for short nozzle		Weight with guard grille for short nozzle and top-mounted terminal box
	without attachments-	kg	with round full nozzle	kg	Compact fan ⁽⁴⁾	kg	with guard grille for short nozzle	kg	w. guard grille f. short nozzle a. top-mount. term. box	kg
"V"	A3G 200-AD01 -01 ⁽³⁾	1,0	W3G 200-CD01 -30 ⁽³⁾	2,0	---	---	S3G 200-AD01 -30 ⁽³⁾	1,5	S3G 200-AD01 -50	1,6
"V"	---	---	---	---	W3G 200-HD01 -01	1,6	---	---	---	---
"V"	A3G 200-AD01 -03 ⁽³⁾	1,0	W3G 200-CD01 -32 ⁽³⁾	2,0	---	---	S3G 200-AD01 -32 ⁽³⁾	1,5	S3G 200-AD01 -52	1,6
"V"	---	---	---	---	W3G 200-HD01 -03 ⁽³⁾	1,6	---	---	---	---

Airflow direction "A" on request

(4) depending on installation and position

Curves: Open-loop speed control



Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection. Intake-side sound level: L_{wA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

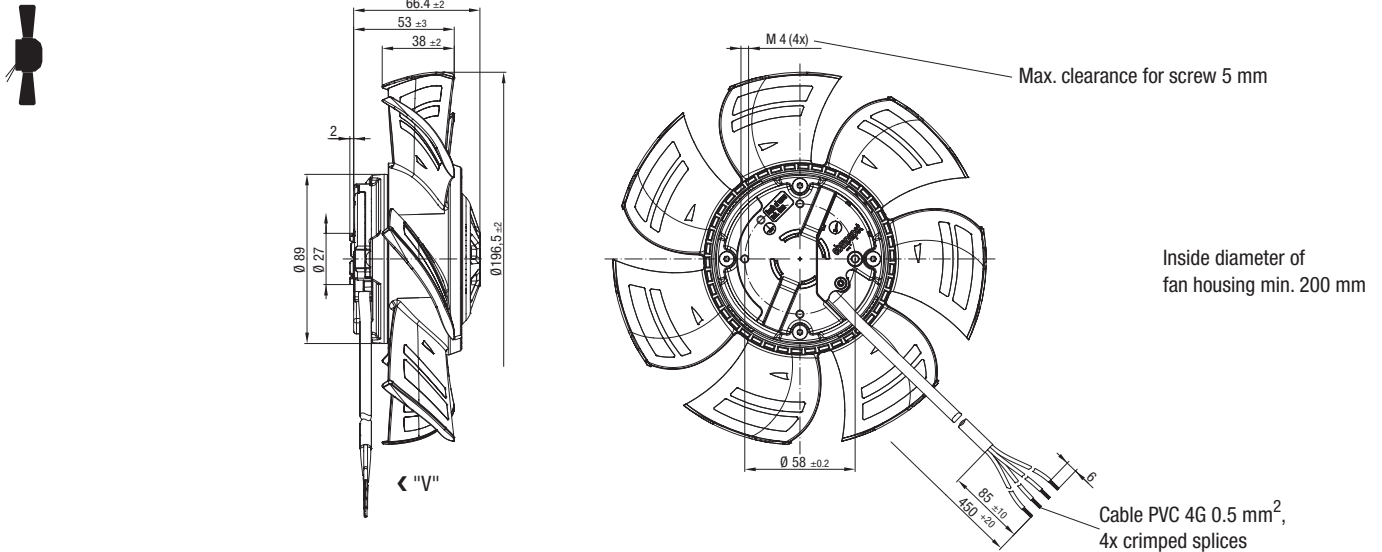
	n rpm	P_{ed} W	I A	L_{wA} dB(A)
Ⓒ 1	2985	50	0,46	64
Ⓒ 2	2875	55	0,50	64
Ⓒ 3	2830	57	0,52	66
Ⓒ 4	2820	60	0,53	72
Ⓓ 1	2970	50	0,49	65
Ⓓ 2	2885	55	0,53	64
Ⓓ 3	2825	58	0,56	65
Ⓓ 4	2900	54	0,55	71

EC axial fans – HyBlade®

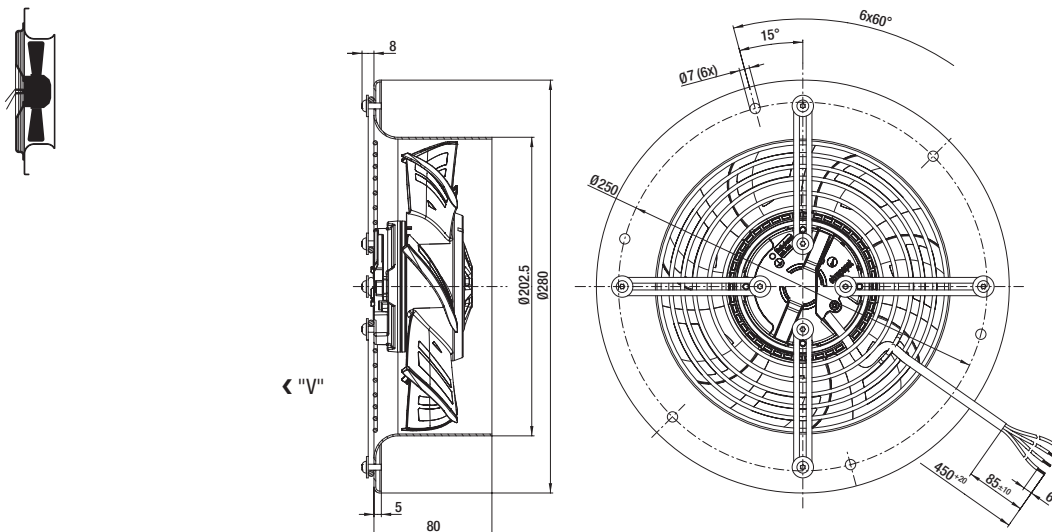
Ø 200 with motor M3G 055, 2 speed levels



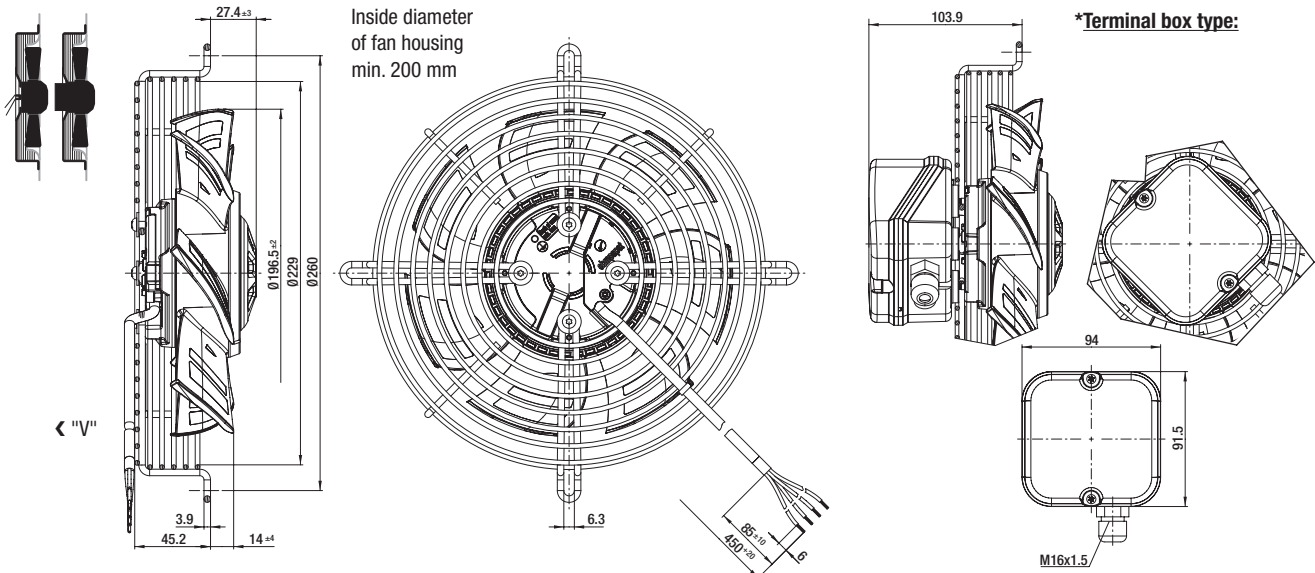
A3G 200-AD01-01 (without attachments, airflow direction "V")



W3G 200-CD01-30 (with round full nozzle, airflow direction "V")



S3G 200-AD01-30 / S3G 200-AD01-50* (with guard grille for short nozzle, airflow direction "V")



EC axial fans – HyBlade®

Ø 200 with motor M3G 055, open-loop speed control



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

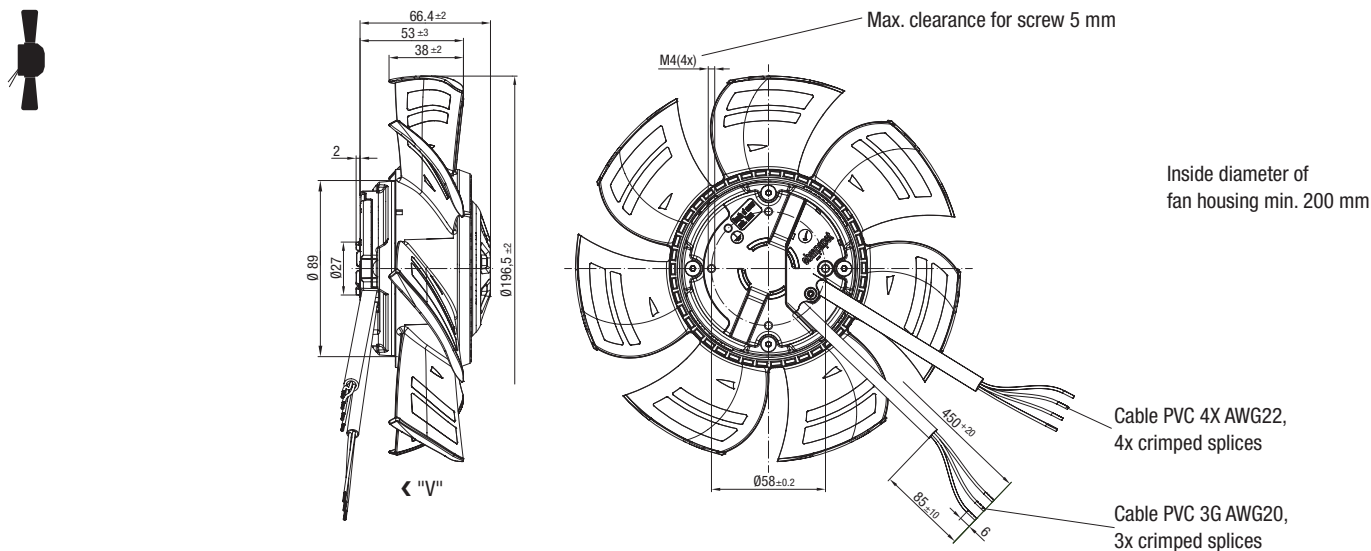
Ø 990

Ø 1250

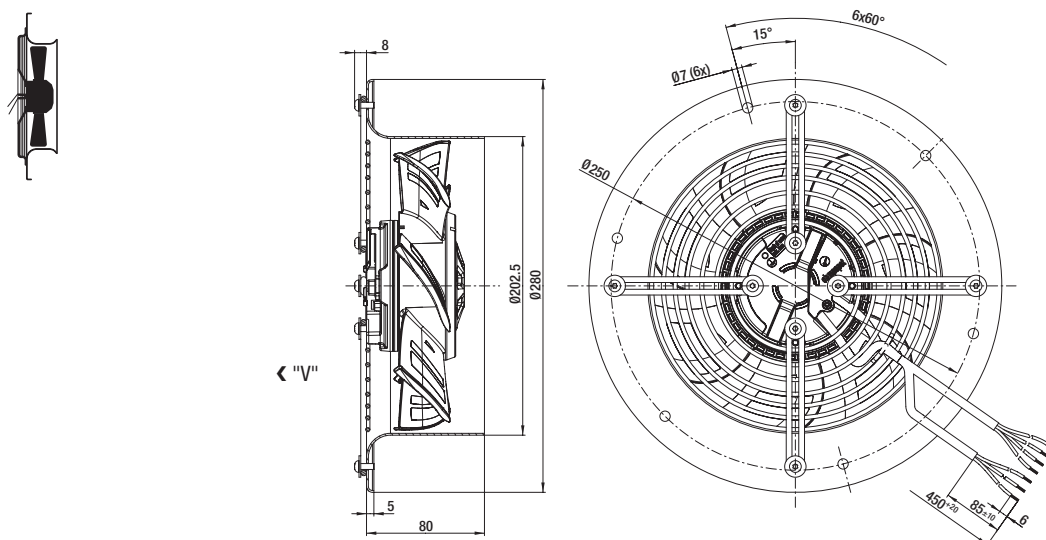
Technology

Agents

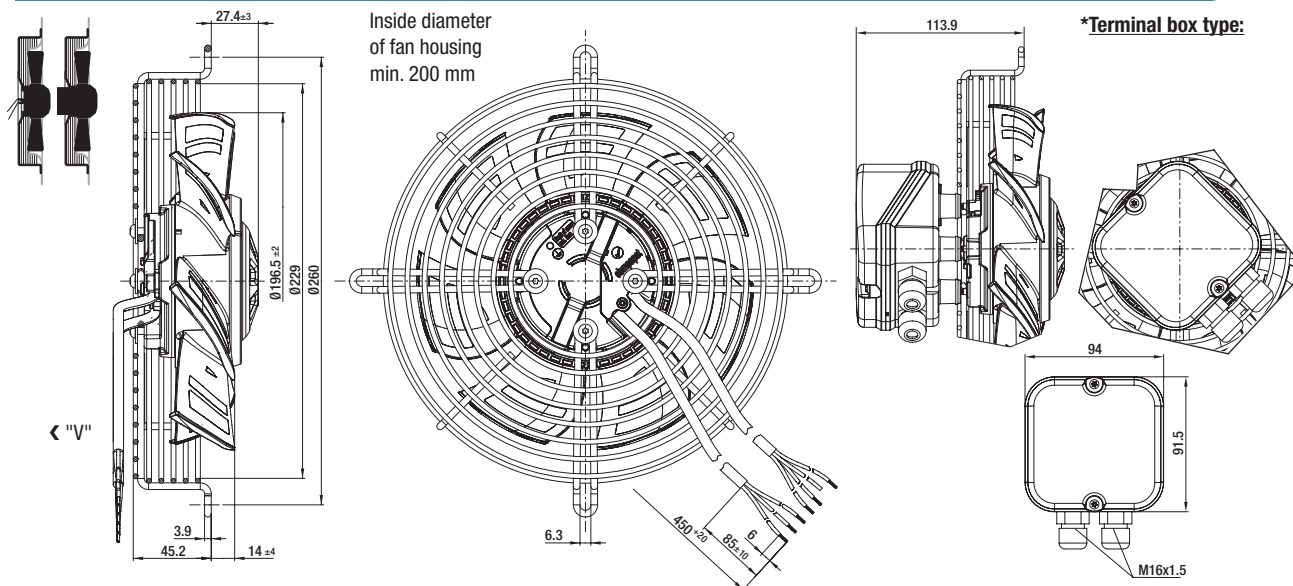
A3G 200-AD01-03 (without attachments, airflow direction "V")



W3G 200-CD01-32 (with round full nozzle, airflow direction "V")



S3G 200-AD01-32 / S3G 200-AD01-52* (with guard grille for short nozzle, airflow direction "V")

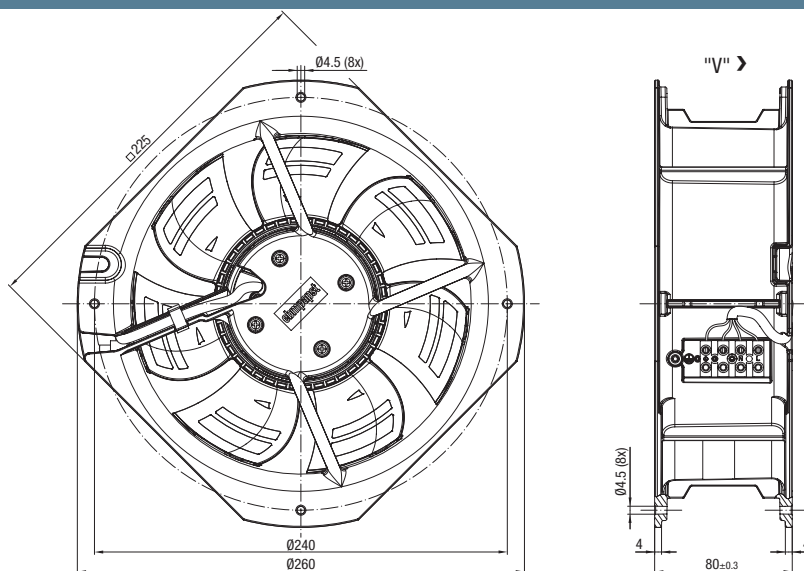


EC axial fans – HyBlade®

Ø 200 with motor M3G 055, 2 speed levels, compact



W3G 200-HD01-01 Compact fan (with full nozzle, airflow direction "V")



EC axial fans – HyBlade®

Ø 200 with motor M3G 055, open-loop speed control, compact



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

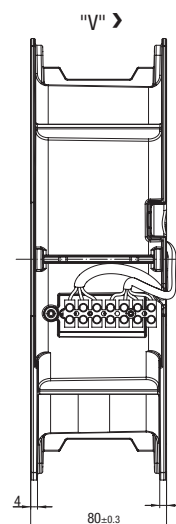
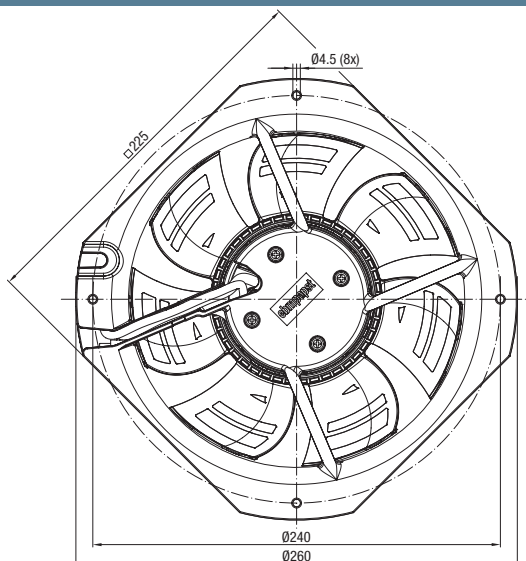
Ø 990

Ø 1250

Technology

Agents

W3G 200-HD01-03 Compact fan (with full nozzle, airflow direction "V")



EC axial fans – HyBlade®

Ø 250, including compact fan



- **Material:** Guard grille: Steel, coated with black plastic (RAL 9005)
Fan housing: Sheet steel, galvanized and coated with black plastic (RAL 9005)
Compact fan housing: Die-cast aluminum
Blades: PP plastic
Rotor: Thick-film passivated
Electronics housing: Die-cast aluminum
- **Number of blades:** 7
- **Direction of rotation:** Counterclockwise viewed toward rotor
- **Degree of protection:** IP54⁽²⁾
- **Insulation class:** "B"
- **Installation position:** Any
- **Condensation drain holes:** None, open rotor
- **Mode:** Continuous operation (S1)
- **Mounting:** Maintenance-free ball bearings

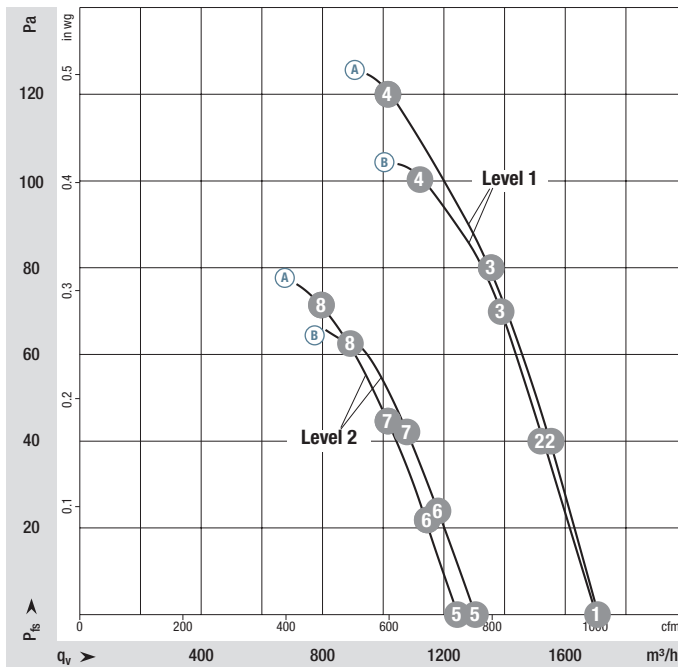
Nominal data		Curve	Nominal voltage range	Frequency	Speed ⁽¹⁾	Max. input power ⁽¹⁾	Max. input current ⁽¹⁾	Max. back pressure	Perm. ambient temp.	2-speed / 0-10 V	Techn. features and connection diagram
Type	Motor		VAC	Hz	rpm	W	A	Pa	°C		
*3G 250 ⁽²⁾	M3G 055-CF	A	1~200-240	50/60	2330	83	0,72	120	-25...+60	2 speed levels	P. 128 / H3)
*3G 250 ⁽²⁾	M3G 055-CF	B	1~200-240	50/60	2330	83	0,72	100	-25...+60	2 speed levels	P. 128 / H3)
*3G 250 ⁽²⁾	M3G 055-CF	C	1~200-240	50/60	2330	83	0,72	120	-25...+60	Open-loop speed control	P. 129 / H4)
*3G 250 ⁽²⁾	M3G 055-CF	D	1~200-240	50/60	2330	83	0,72	100	-25...+60	Open-loop speed control	P. 129 / H4)

Subject to change

(1) Nominal data at operating point with maximum load and 230 VAC

(2) Not suitable for constant outdoor use, special version available on request.

Curves:
2 speed levels



	n rpm	P _{ed} W	I A	L _{WA} dB(A)
A 1 Level 1	2480	70	0,63	71
A 2 Level 1	2425	79	0,67	70
A 3 Level 1	2385	84	0,71	71
A 4 Level 1	2330	83	0,72	74
A 5 Level 2	1860	30	0,30	62
A 6 Level 2	1840	33	0,32	63
A 7 Level 2	1820	36	0,35	63
A 8 Level 2	1805	39	0,37	67
B 1 Level 1	2465	67	0,59	69
B 2 Level 1	2410	75	0,65	69
B 3 Level 1	2375	81	0,68	68
B 4 Level 1	2330	83	0,72	69
B 5 Level 2	1930	32	0,32	61
B 6 Level 2	1910	36	0,34	61
B 7 Level 2	1890	39	0,37	61
B 8 Level 2	1865	41	0,41	63

Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection. Intake-side sound level: L_{WA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

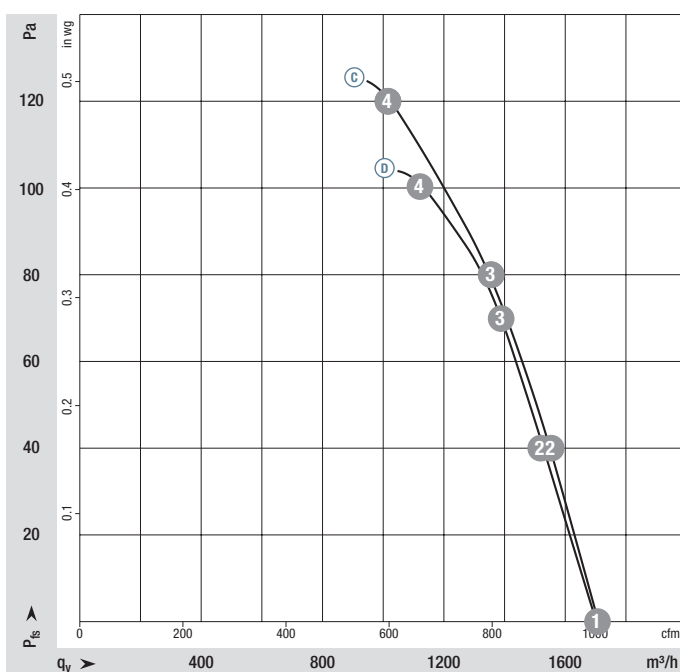
- **Technical features:** See connection diagram P. 128 f.
- **EMC:** Immunity to interference according to EN 61000-6-2 (industrial environment)
Circuit feedback according to EN 61000-3-2/3
Interference emission according to EN 61000-6-4 (industrial environment)
Radio interference is to be checked in the complete unit.
- **Touch current:** $\leq 3,5$ mA according to IEC 60990 (measuring circuit Fig. 4)
- **Cable exit:** Variable
- **Terminal box design:** electrical connection via terminal strip
- **Protection class:** I (with customer connection of protective earth)
- **Conformity with standards:** EN 60335-1, CE
- **Approvals:** VDE; cURus⁽³⁾

Airflow direction		Weight without attachments		Weight with round full nozzle		Weight with full nozzle		Weight with guard grille for short nozzle		Weight with guard grille for short nozzle and top-mounted terminal box
	without attachments-	kg	with round full nozzle	kg	Compact fan ⁽⁴⁾	kg	with guard grille for short nozzle	kg	w. guard grille f. short nozzle a. top-mount. term. box	kg
"V"	A3G 250-AH07 -01 ⁽³⁾	1,3	W3G 250-CH07 -30 ⁽³⁾	2,6	---	---	S3G 250-AH07 -30 ⁽³⁾	2,0	S3G 250-AH07 -50	2,1
"V"	---	---	---	---	W3G 250-HH07 -01	2,1	---	---	---	---
"V"	A3G 250-AH07 -03 ⁽³⁾	1,3	W3G 250-CH07 -32 ⁽³⁾	2,6	---	---	S3G 250-AH07 -32 ⁽³⁾	2,0	S3G 250-AH07 -52	2,1
"V"	---	---	---	---	W3G 250-HH07 -03 ⁽³⁾	2,1	---	---	---	---

Airflow direction "A" on request

(4) depending on installation and position

Curves: Open-loop speed control



Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection. Intake-side sound level: L_{wA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

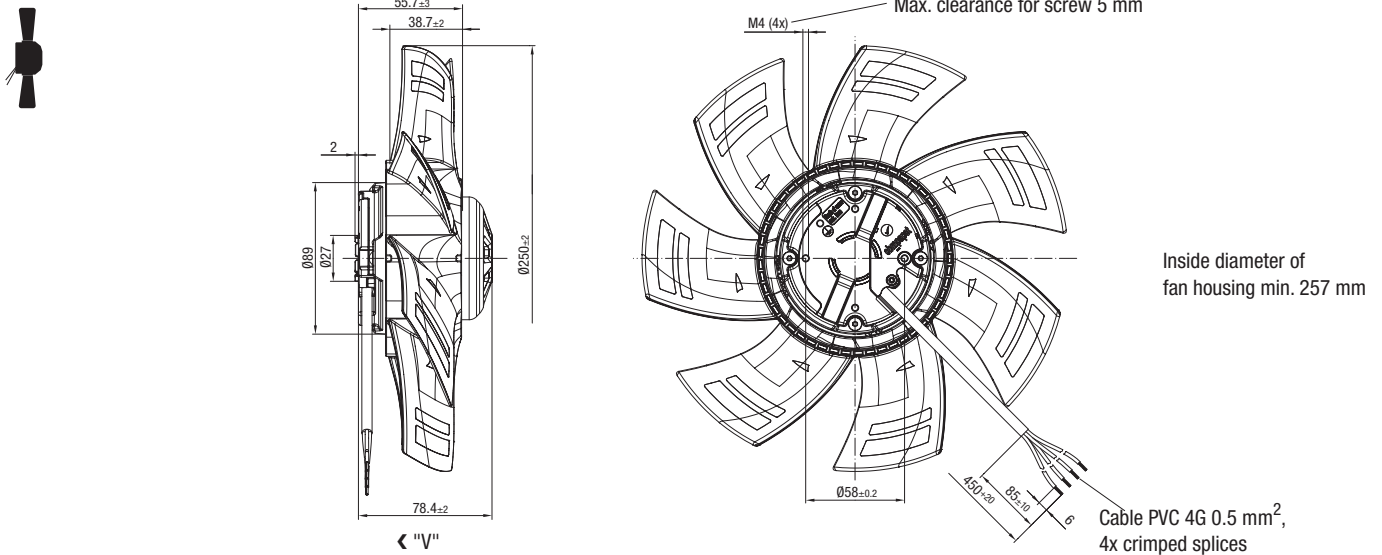
	n rpm	P_{ed} W	I A	L_{wA} dB(A)
Ⓒ 1	2480	70	0,63	71
Ⓒ 2	2425	79	0,67	70
Ⓒ 3	2385	84	0,71	71
Ⓒ 4	2330	83	0,72	74
Ⓓ 1	2465	67	0,59	69
Ⓓ 2	2410	75	0,65	69
Ⓓ 3	2375	81	0,68	68
Ⓓ 4	2330	83	0,72	69

EC axial fans – HyBlade®

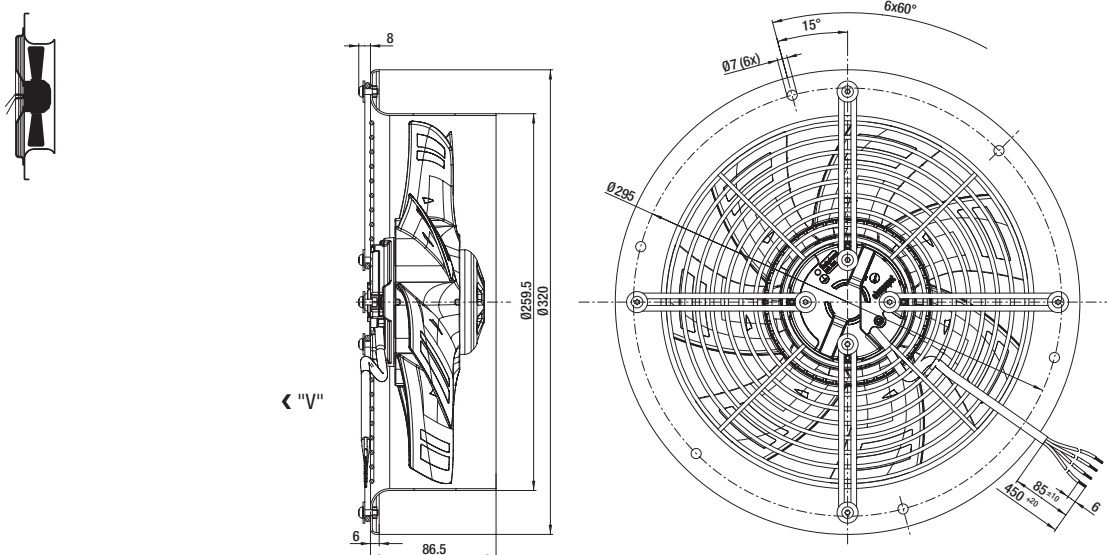
Ø 250 with motor M3G 055, 2 speed levels



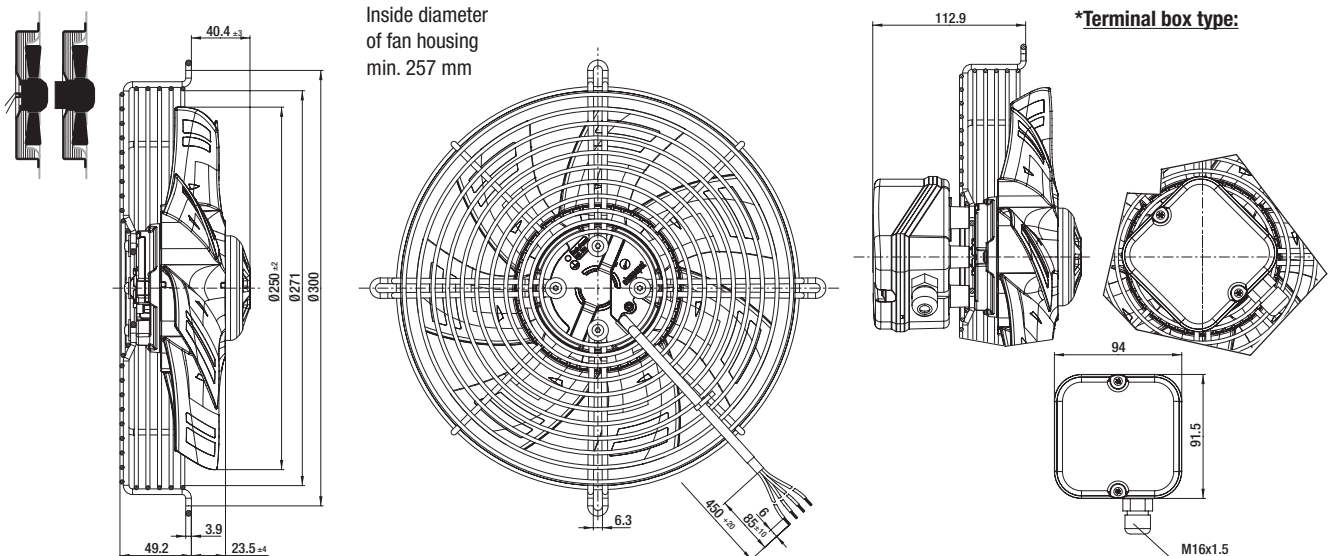
A3G 250-AH07-01 (without attachments, airflow direction "V")



W3G 250-CH07-30 (with round full nozzle, airflow direction "V")



S3G 250-AH07-30 / S3G 250-AH07-50* (with guard grille for short nozzle, airflow direction "V")



Ø 250 with motor M3G 055, open-loop speed control



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

0800

Ø 910

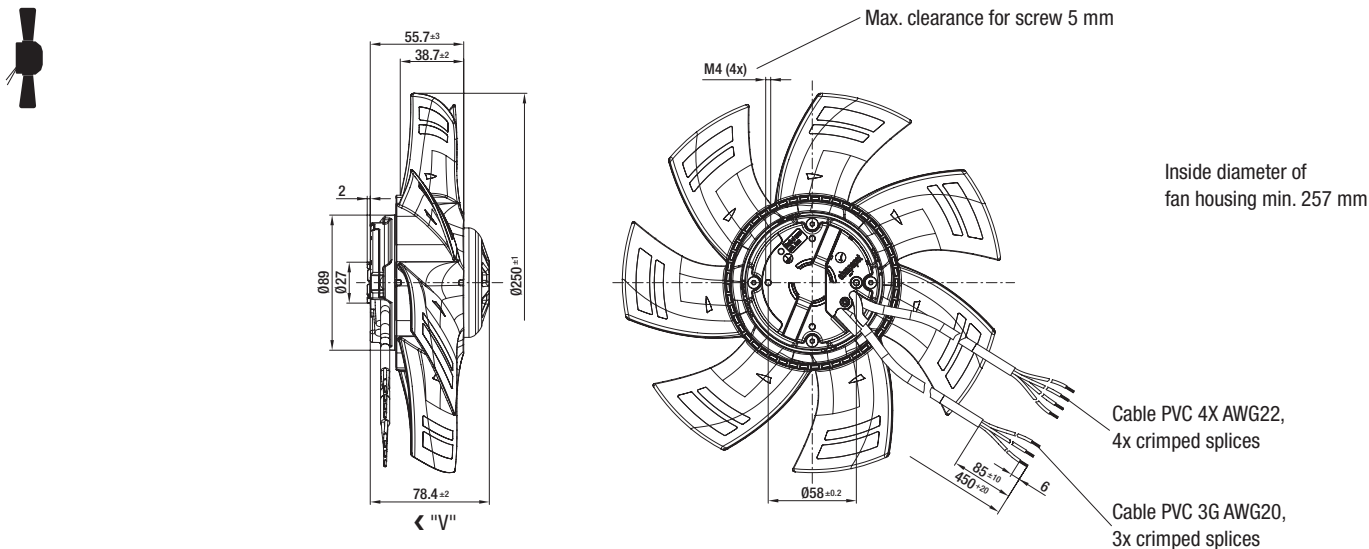
0660

Ø 125

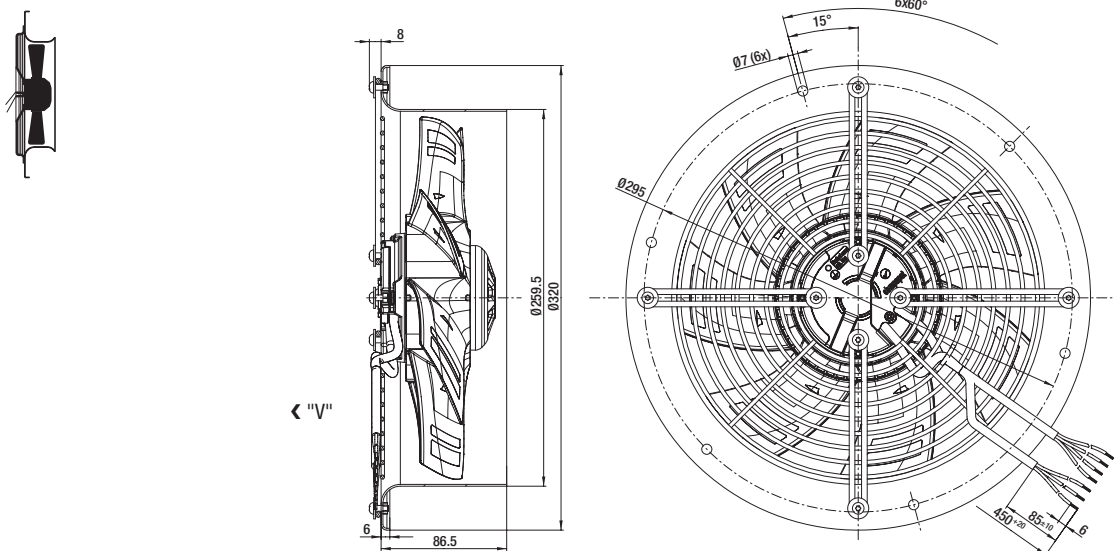
Technology

Agents

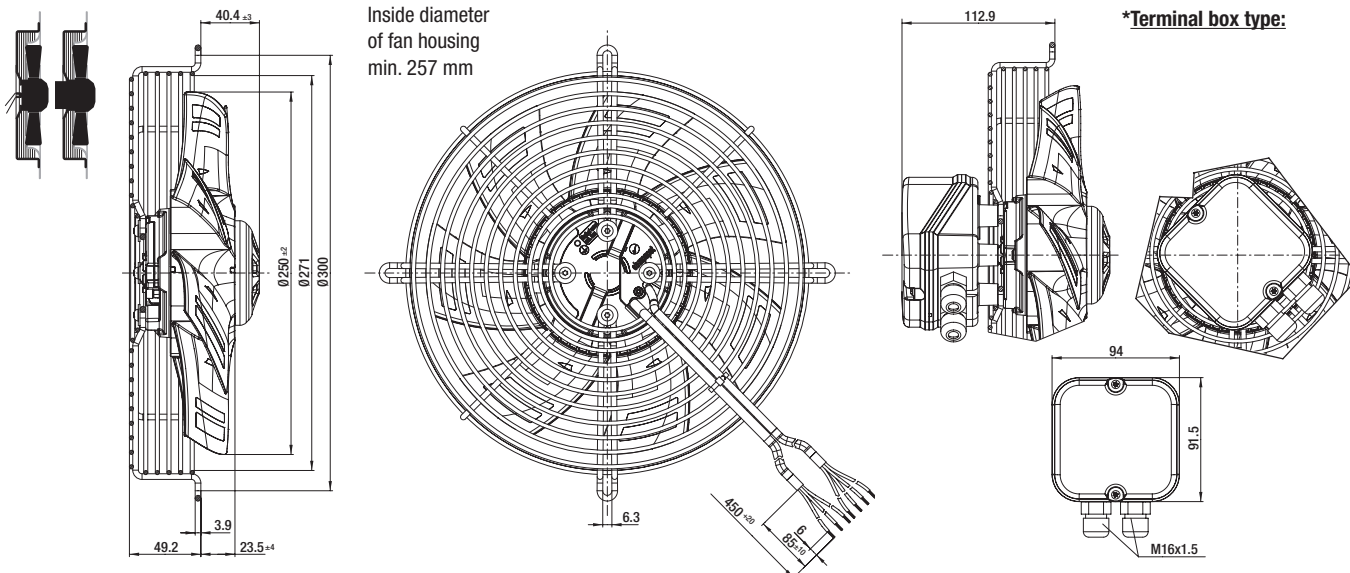
A3G 250-AH07-03 (without attachments, airflow direction "V")



W3G 250-CH07-32 (with round full nozzle, airflow direction "V")



S3G 250-AH07-32 / S3G 250-AH07-52* (with guard grille for short nozzle, airflow direction "V")

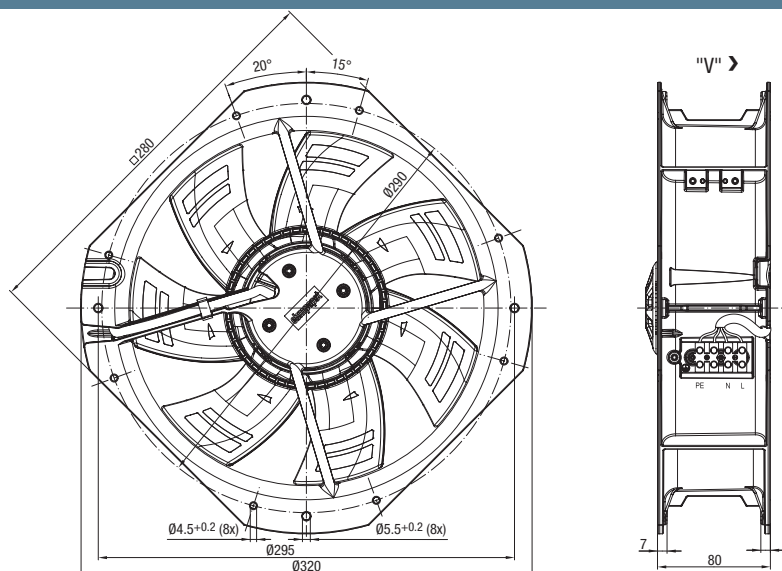


EC axial fans – HyBlade®

Ø 250 with motor M3G 055, 2 speed levels, compact



W3G 250-HH07-01 Compact fan (with full nozzle, airflow direction "V")

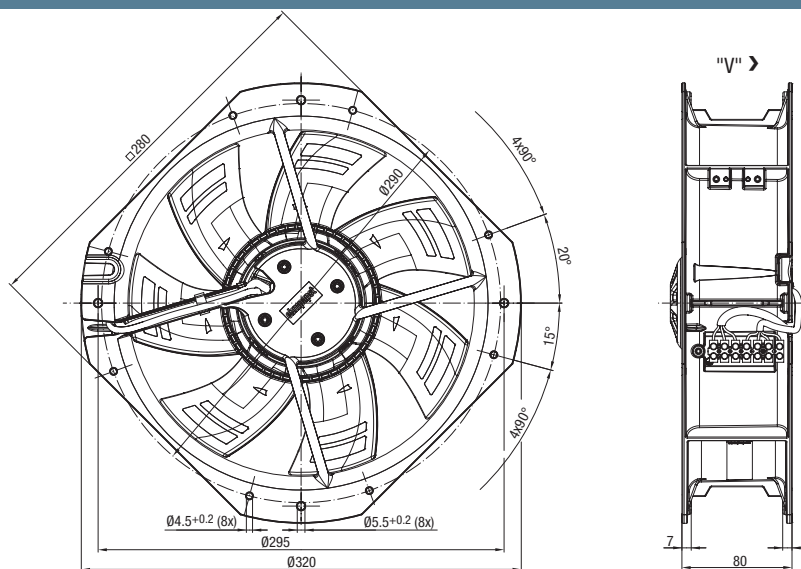


EC axial fans – HyBlade®

Ø 250 with motor M3G 055, open-loop speed control, compact



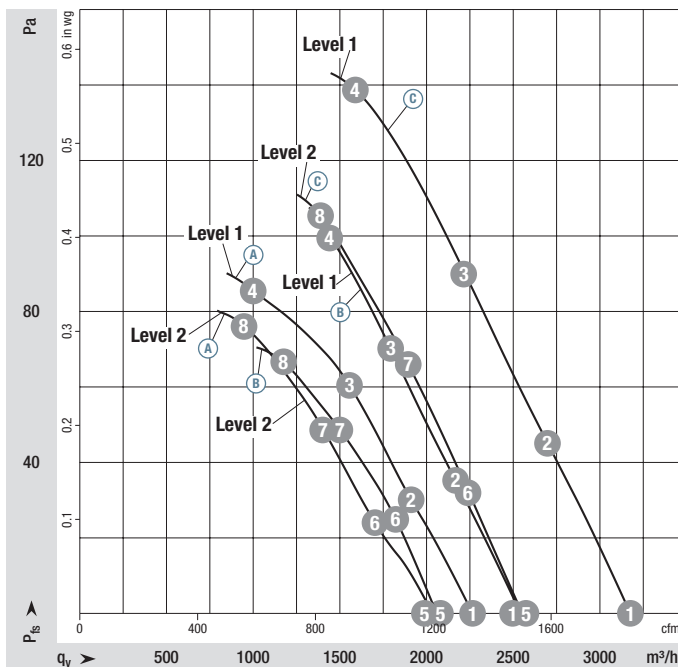
W3G 250-HH07-03 Compact fan (with full nozzle, airflow direction "V")





- **Material:** Guard grille: Steel, coated with black plastic (RAL 9005)
Fan housing: Sheet steel, galvanized and coated with black plastic (RAL 9005)
Blades: PP plastic
Rotor: Thick-film passivated
Electronics housing: Die-cast aluminum
- **Number of blades:** 5
- **Direction of rotation:** Counterclockwise viewed toward rotor
- **Degree of protection:** IP54⁽²⁾
- **Insulation class:** "B"
- **Installation position:** Any
- **Condensation drain holes:** None, open rotor
- **Mode:** Continuous operation (S1)
- **Mounting:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed ⁽¹⁾	Max. input power ⁽¹⁾	Max. input current ⁽¹⁾	Max. back pressure	Perm. ambient temp.	2-speed / 0-10 V	Techn. features and connection diagram
Type	Motor	VAC	Hz	rpm	W	A	Pa	°C			
*3G 300 ⁽²⁾	M3G 055-CF	Ⓐ 1~200-240	50/60	1500	85	0,80	85	-25..+60	2 speed levels		P. 128 / H3)
*3G 300 ⁽²⁾	M3G 055-DF	Ⓑ 1~200-240	50/60	1750	120	1,00	100	-25..+40	2 speed levels		P. 128 / H3)
*3G 300 ⁽²⁾	M3G 074-CF	Ⓒ 1~200-240	50/60	2020	170	1,35	140	-25..+60	2 speed levels		P. 128 / H3)
*3G 300 ⁽²⁾	M3G 055-CF	Ⓓ 1~200-240	50/60	1500	85	0,80	85	-25..+60	Open-loop speed control		P. 129 / H4)
*3G 300 ⁽²⁾	M3G 055-DF	Ⓔ 1~200-240	50/60	1560	97	0,80	89	-25..+60	Open-loop speed control		P. 129 / H4)
*3G 300 ⁽²⁾	M3G 074-CF	Ⓕ 1~200-240	50/60	2020	170	1,35	140	-25..+60	Open-loop speed control		P. 129 / H4)
Subject to change		(1) Nominal data at operating point with maximum load and 230 VAC					(2) Not suitable for constant outdoor use, special version available on request.				

Curves:
2 speed levels

Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection. Intake-side sound level: L_{WA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

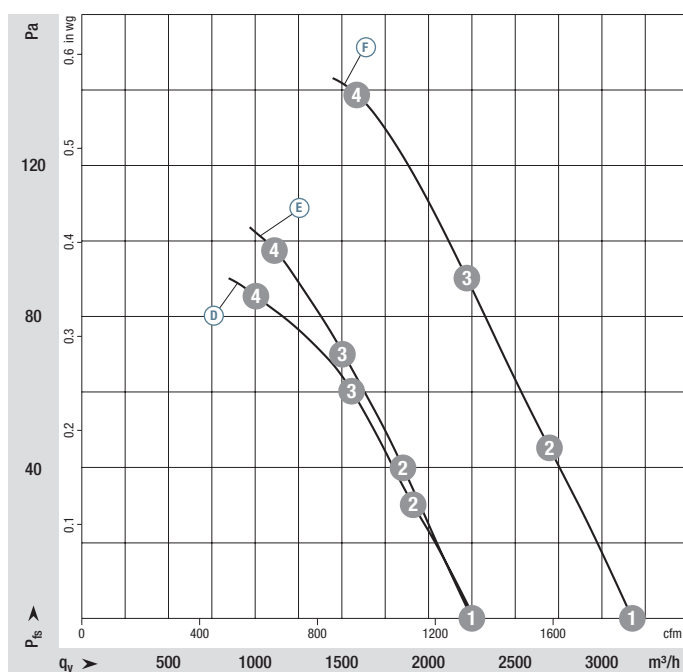
	n rpm	P _{ed} W	I A	L _{WA} dB(A)
Ⓐ 1 Level 1	1650	72	0,63	63
Ⓐ 2 Level 1	1595	79	0,67	63
Ⓐ 3 Level 1	1560	85	0,80	62
Ⓐ 4 Level 1	1500	85	0,80	67
Ⓐ 5 Level 2	1485	52	0,48	60
Ⓐ 6 Level 2	1435	57	0,52	60
Ⓐ 7 Level 2	1405	60	0,54	60
Ⓐ 8 Level 2	1350	66	0,60	65
Ⓑ 1 Level 1	1820	96	0,86	68
Ⓑ 2 Level 1	1775	105	0,94	67
Ⓑ 3 Level 1	1745	112	0,98	67
Ⓑ 4 Level 1	1750	120	1,00	68
Ⓑ 5 Level 2	1430	45	0,44	62
Ⓑ 6 Level 2	1415	51	0,51	63
Ⓑ 7 Level 2	1395	57	0,55	63
Ⓑ 8 Level 2	1370	60	0,57	63
Ⓒ 1 Level 1	2390	170	1,30	71
Ⓒ 2 Level 1	2245	170	1,35	71
Ⓒ 3 Level 1	2135	170	1,35	69
Ⓒ 4 Level 1	2020	170	1,35	69
Ⓒ 5 Level 2	1910	88	0,75	66
Ⓒ 6 Level 2	1865	98	0,81	66
Ⓒ 7 Level 2	1830	105	0,86	65
Ⓒ 8 Level 2	1780	114	0,93	66

- **Technical features:** See connection diagram P. 128 f.
- **EMC:** Immunity to interference according to EN 61000-6-2 (industrial environment)
Circuit feedback up to total power ≤ 130 W according to EN 61000-3-2/3
Interference emission according to EN 61000-6-4 (industrial environment)
Radio interference is to be checked in the complete unit.
- **Touch current:** $\leq 3,5$ mA according to IEC 60990 (measuring circuit Fig. 4)
- **Cable exit:** Variable
- **Terminal box design:** electrical connection via terminal strip
- **Protection class:** I (with customer connection of protective earth)
- **Conformity with standards:** EN 60335-1, CE
- **Approvals:** VDE; cURus⁽³⁾

Airflow direction		Weight without attachments		Weight with round full nozzle		Weight with guard grille for short nozzle		Weight with guard grille for short nozzle and top-mounted terminal box
	without attachments-	kg	with round full nozzle	kg	with guard grille for short nozzle	kg	with guard grille for short nozzle and top-mounted terminal box	kg
"V"	A3G 300-AK13 -01 ⁽³⁾	1,40	W3G 300-CK13 -30 ⁽³⁾	3,40	S3G 300-AK13 -30 ⁽³⁾	2,40	S3G 300-AK13 -50	2,50
"V"	A3G 300-AL11 -01 ⁽³⁾	1,60	W3G 300-CL11 -30 ⁽³⁾	3,60	S3G 300-AL11 -30 ⁽³⁾	2,70	S3G 300-AL11 -50	2,80
"V"	A3G 300-AN02 -01	2,00	W3G 300-CN02 -30	4,00	S3G 300-AN02 -30	2,95	S3G 300-AN02 -50	3,10
"V"	A3G 300-AK13 -03 ⁽³⁾	1,40	W3G 300-CK13 -32 ⁽³⁾	3,40	S3G 300-AK13 -32 ⁽³⁾	2,40	S3G 300-AK13 -52	2,50
"V"	A3G 300-AL11 -03 ⁽³⁾	1,60	W3G 300-CL11 -32 ⁽³⁾	3,60	S3G 300-AL11 -32 ⁽³⁾	2,70	S3G 300-AL11 -52	2,80
"V"	A3G 300-AN02 -03 ⁽³⁾	2,00	W3G 300-CN02 -32 ⁽³⁾	4,00	S3G 300-AN02 -32 ⁽³⁾	2,95	S3G 300-AN02 -52	3,10

Airflow direction "A" on request

Curves: Open-loop speed control



Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection. Intake-side sound level: L_{wA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

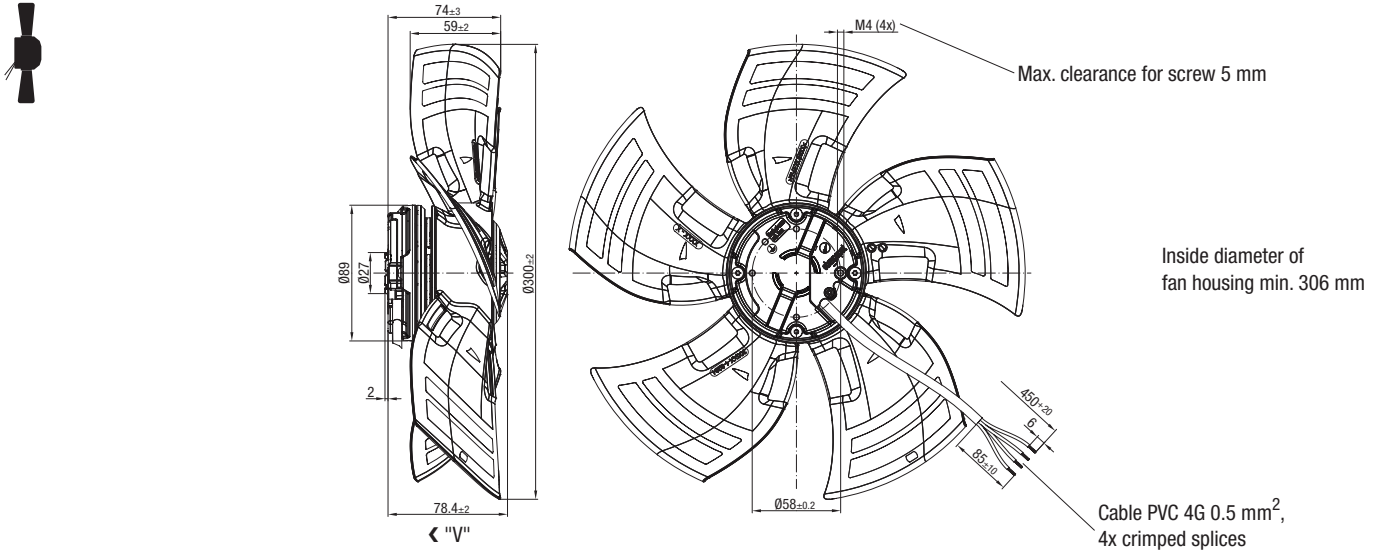
	n rpm	P _{ed} W	I A	L _{wA} dB(A)
Ⓓ ①	1650	72	0,63	63
Ⓓ ②	1595	79	0,67	63
Ⓓ ③	1560	85	0,80	62
Ⓓ ④	1500	85	0,80	67
Ⓔ ①	1665	73	0,64	68
Ⓔ ②	1630	82	0,71	67
Ⓔ ③	1605	87	0,75	67
Ⓔ ④	1560	97	0,80	68
Ⓕ ①	2390	170	1,30	71
Ⓕ ②	2245	170	1,35	71
Ⓕ ③	2135	170	1,35	69
Ⓕ ④	2020	170	1,35	69

EC axial fans – HyBlade®

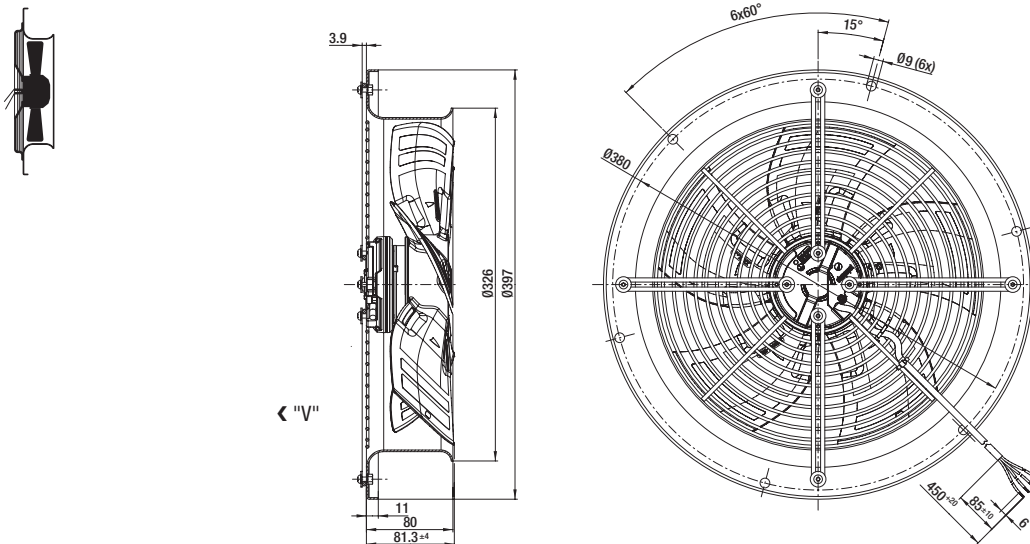
Ø 300 with motor M3G 055, 2 speed levels



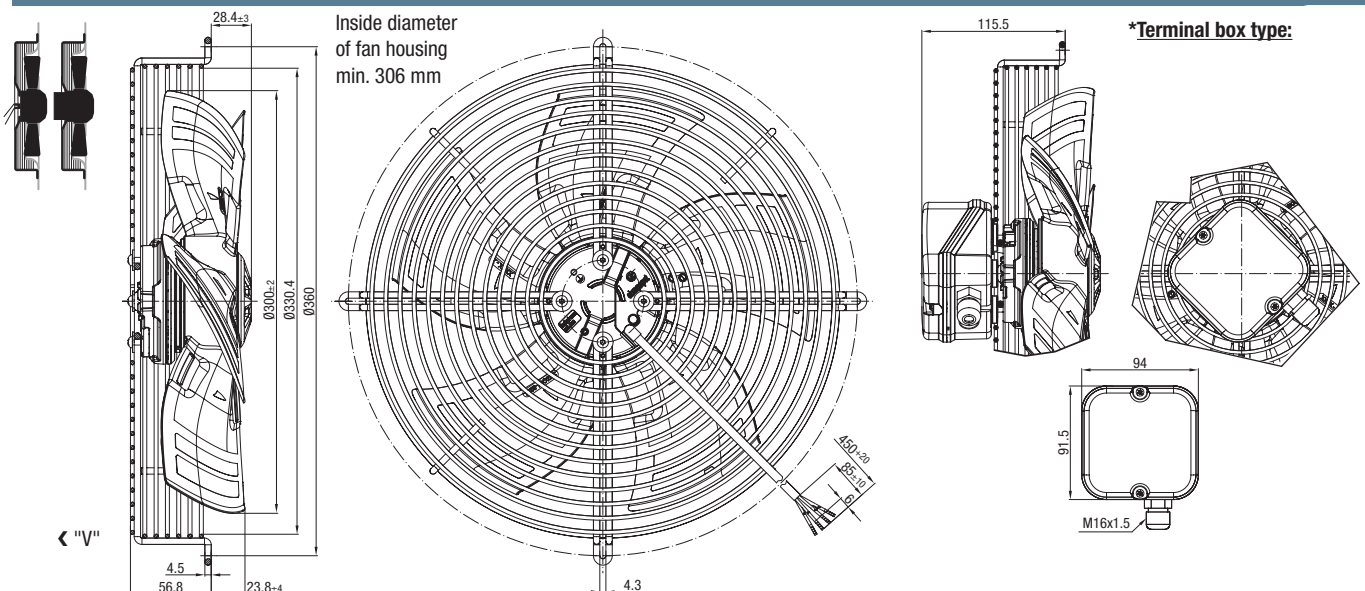
A3G 300-AK13-01 (without attachments, airflow direction "V")



W3G 300-CK13-30 (with round full nozzle, airflow direction "V")



S3G 300-AK13-30 / S3G 300-AK13-50* (with guard grille for short nozzle, airflow direction "V")



EC axial fans – HyBlade®

Ø 300 with motor M3G 055, open-loop speed control



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

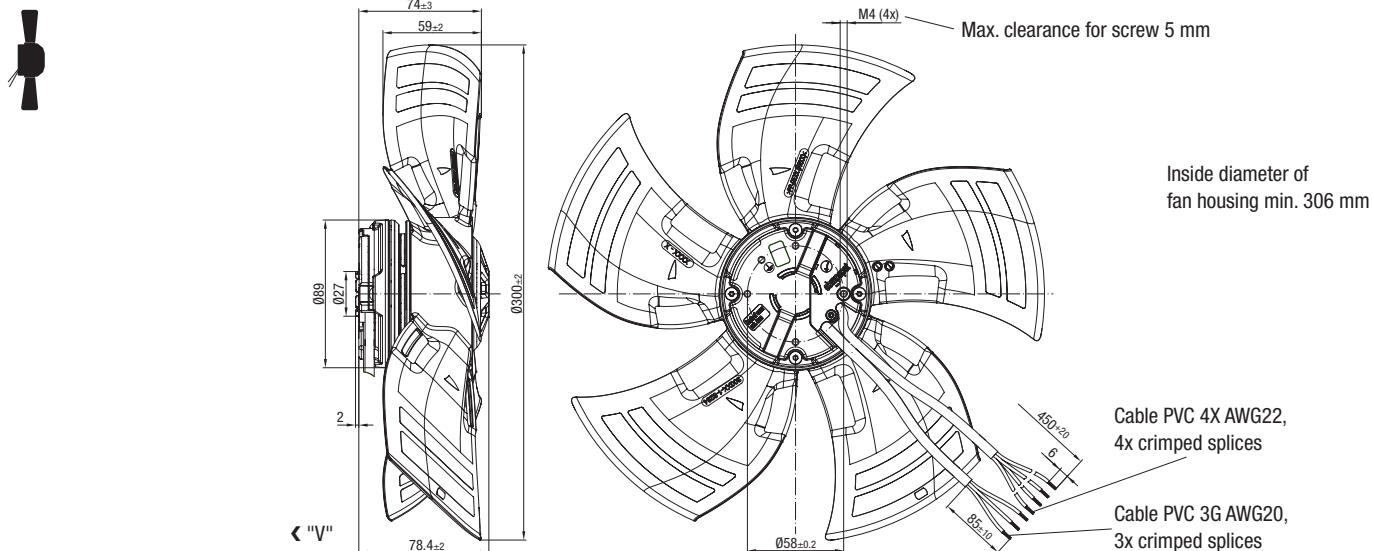
Ø 990

Ø 1250

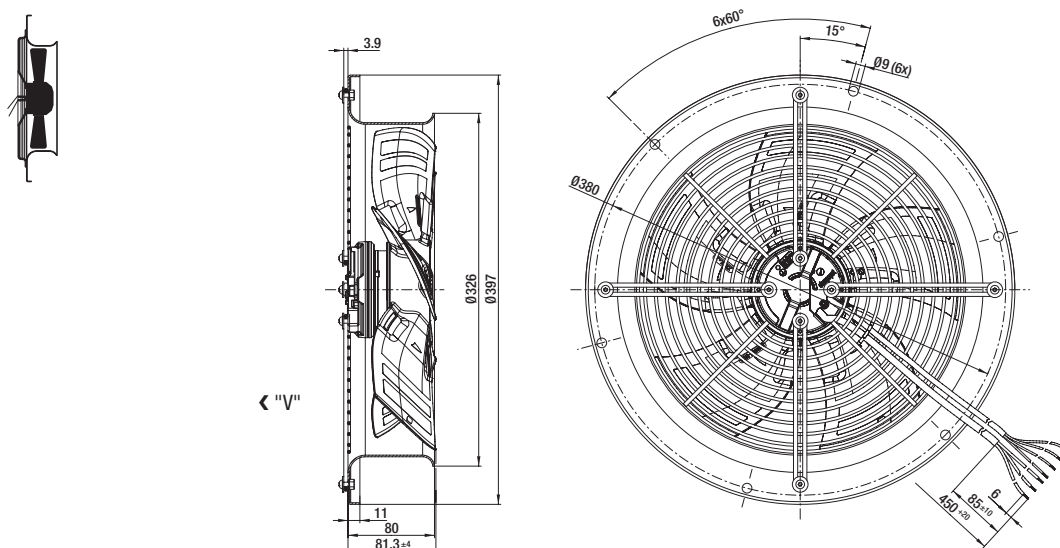
Technology

Agents

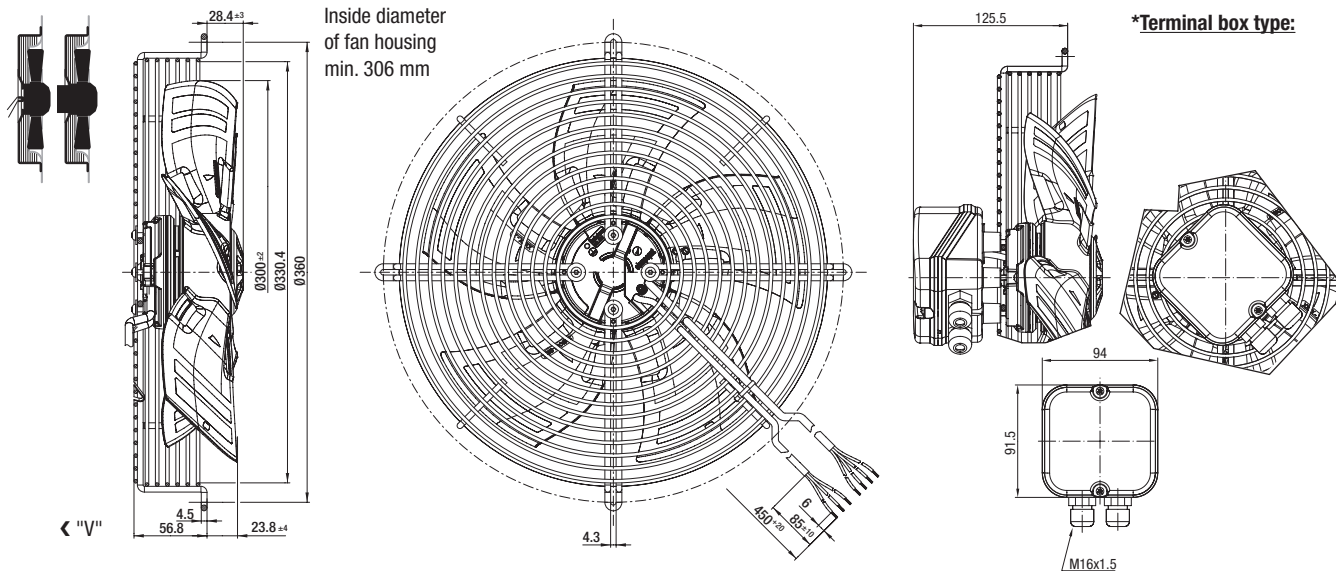
A3G 300-AK13-03 (without attachments, airflow direction "V")



W3G 300-CK13-32 (with round full nozzle, airflow direction "V")



S3G 300-AK13-32 / S3G 300-AK13-52* (with guard grille for short nozzle, airflow direction "V")

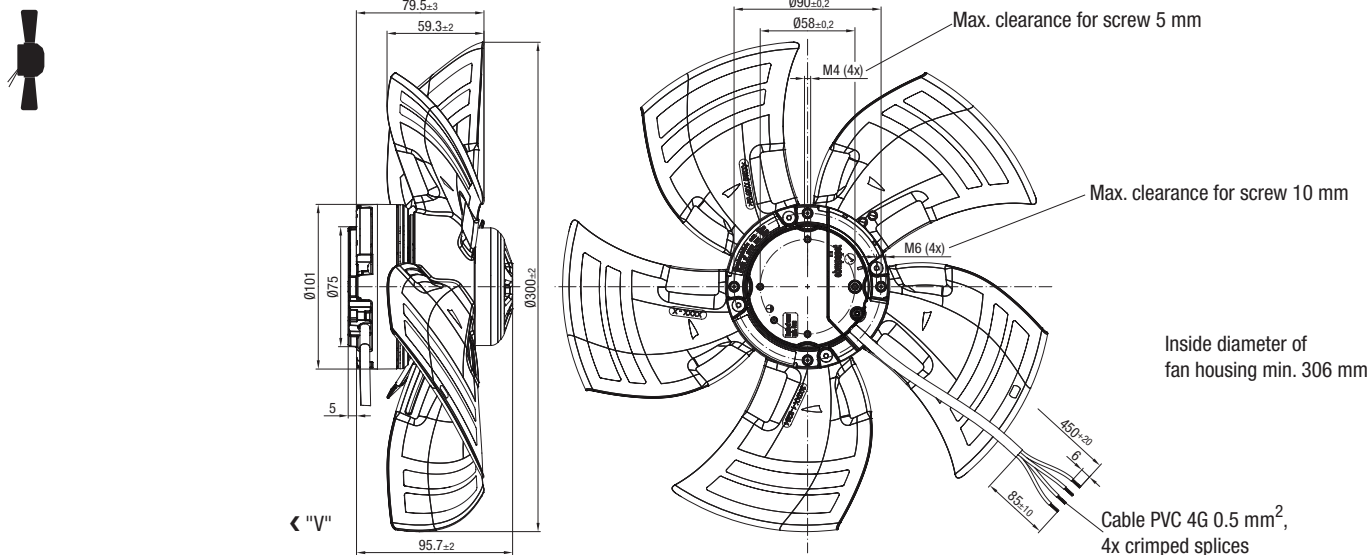


EC axial fans – HyBlade®

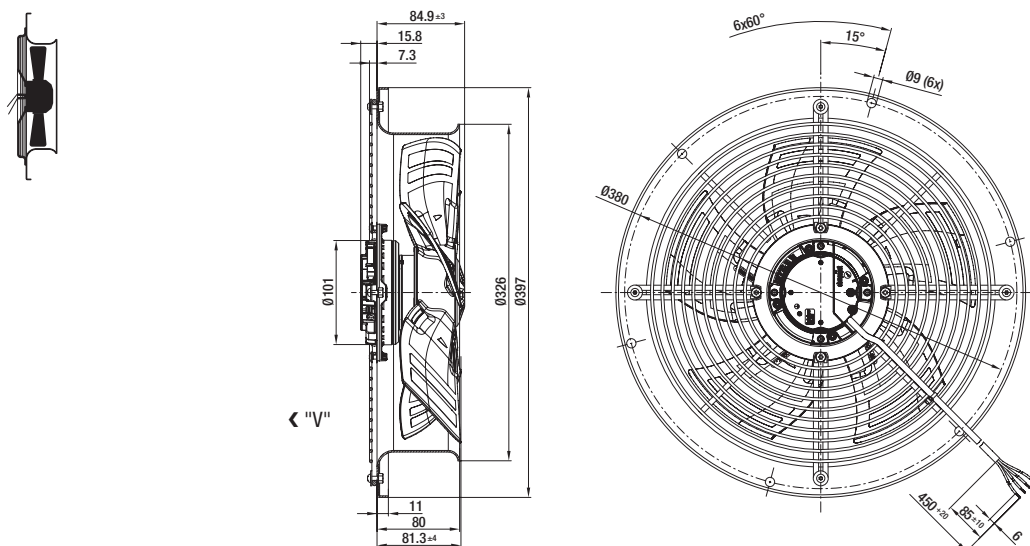
Ø 300 with motor M3G 055, 2 speed levels



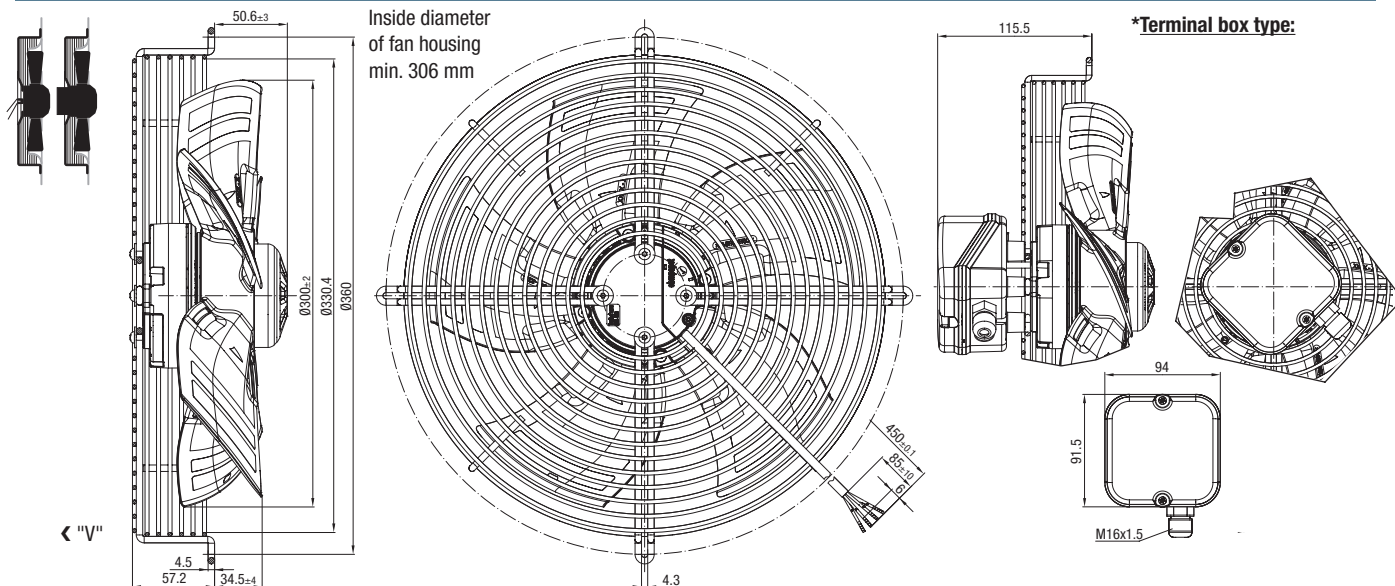
A3G 300-AL11-01 (without attachments, airflow direction "V")



W3G 300-CL11-30 (with round full nozzle, airflow direction "V")



S3G 300-AL11-30 / S3G 300-AL11-50* (with guard grille for short nozzle, airflow direction "V")



EC axial fans – HyBlade®

Ø 300 with motor M3G 055, open-loop speed control



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

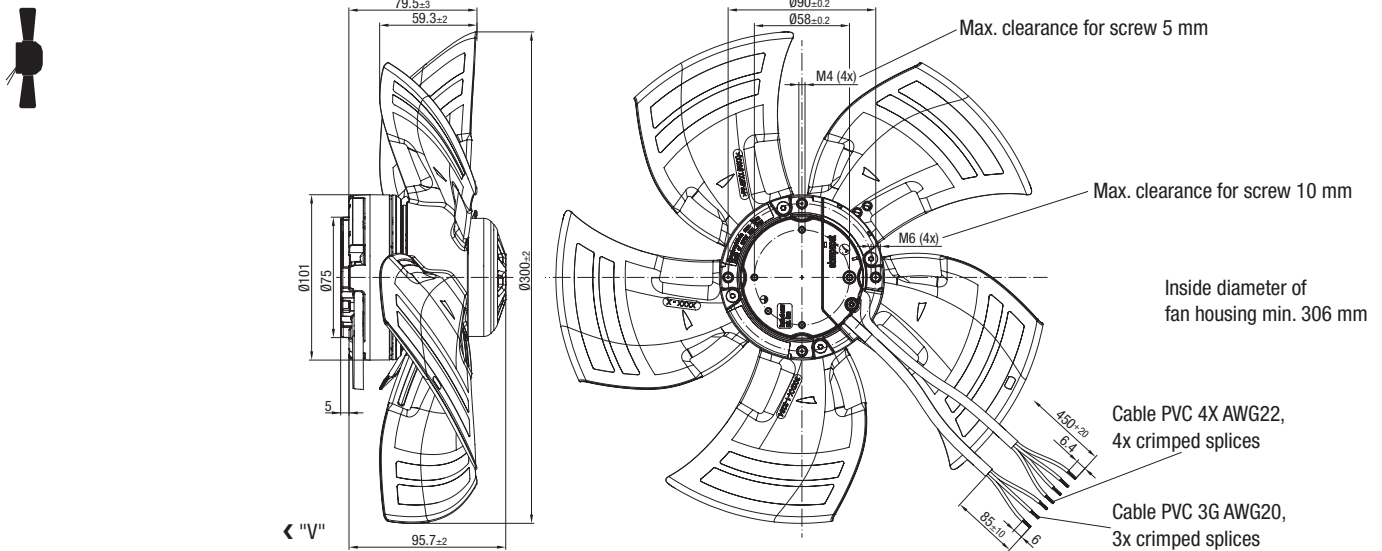
Ø 990

Ø 1250

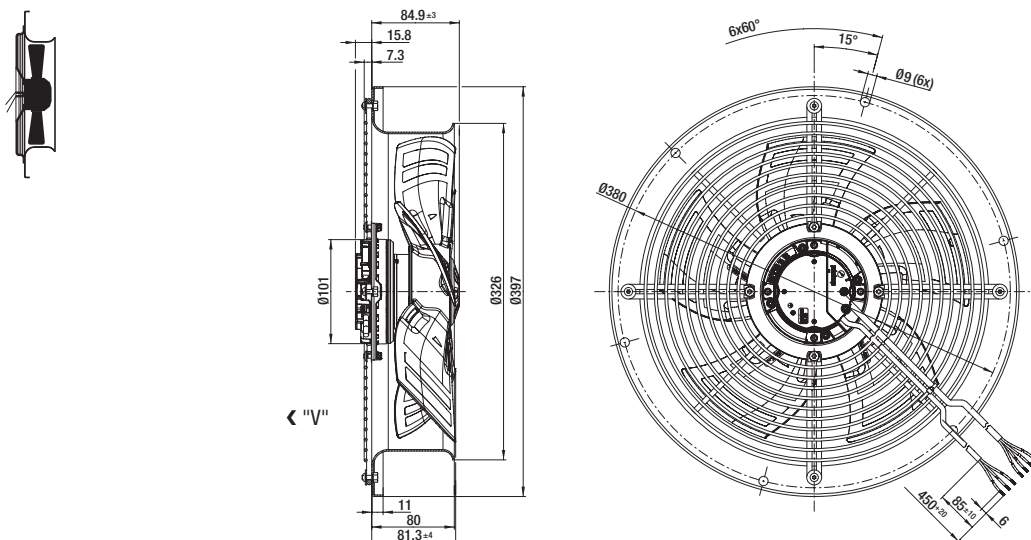
Technology

Agents

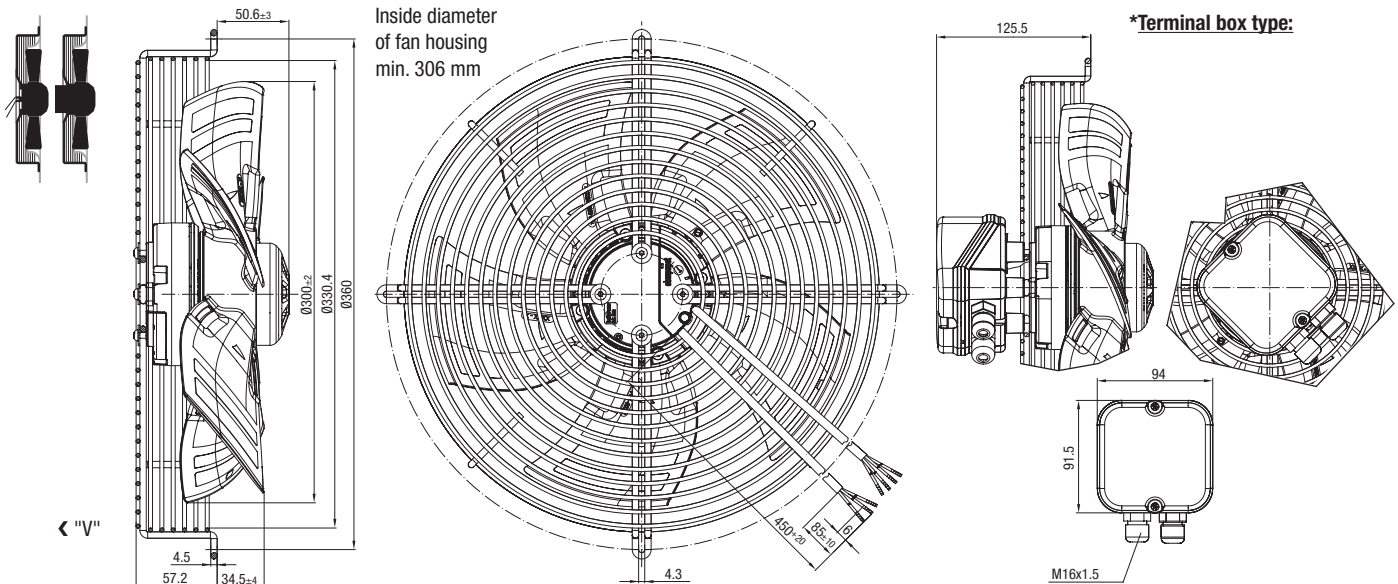
A3G 300-AL11-03 (without attachments, airflow direction "V")



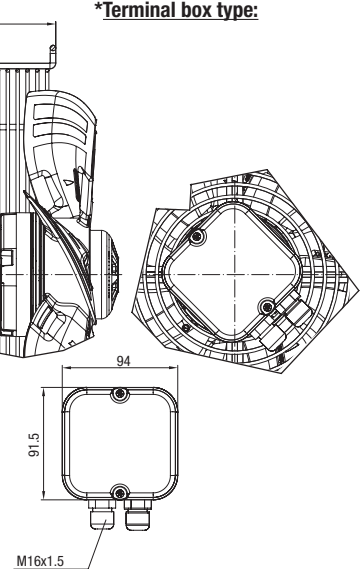
W3G 300-CL11-32 (with round full nozzle, airflow direction "V")



S3G 300-AL11-32 / S3G 300-AL11-52* (with guard grille for short nozzle, airflow direction "V")



*Terminal box type:

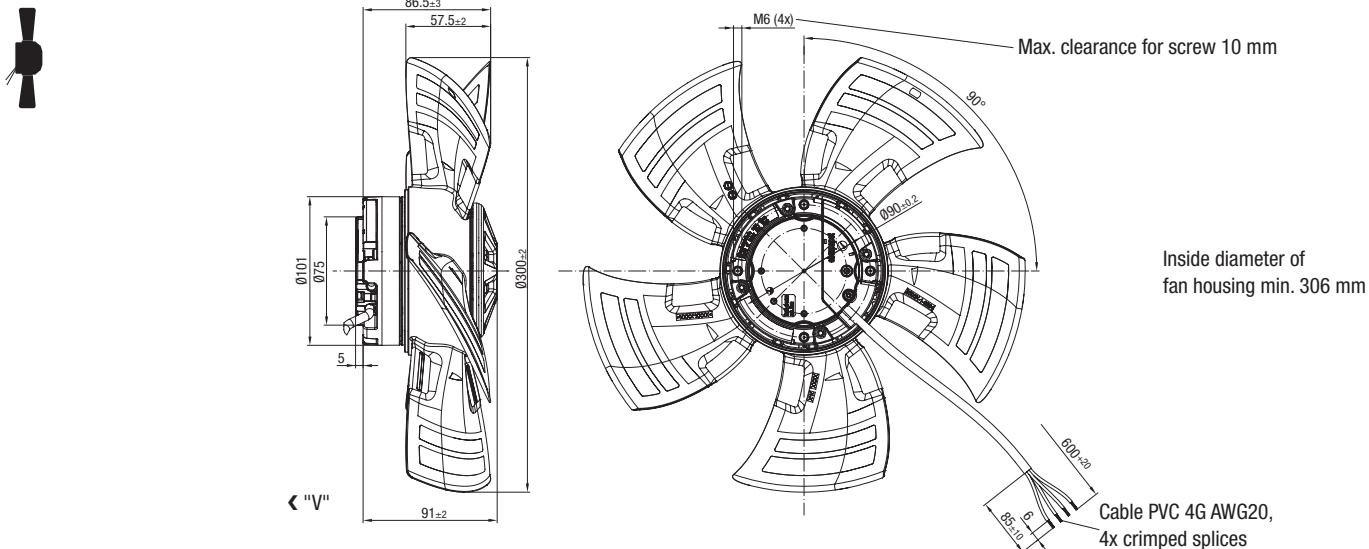


EC axial fans – HyBlade®

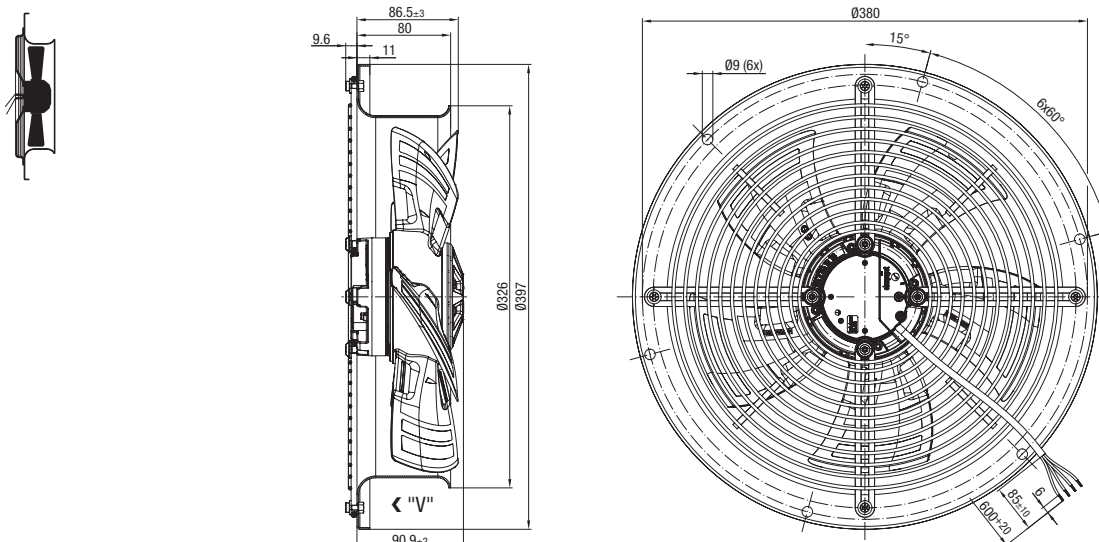
Ø 300 with motor M3G 074, 2 speed levels



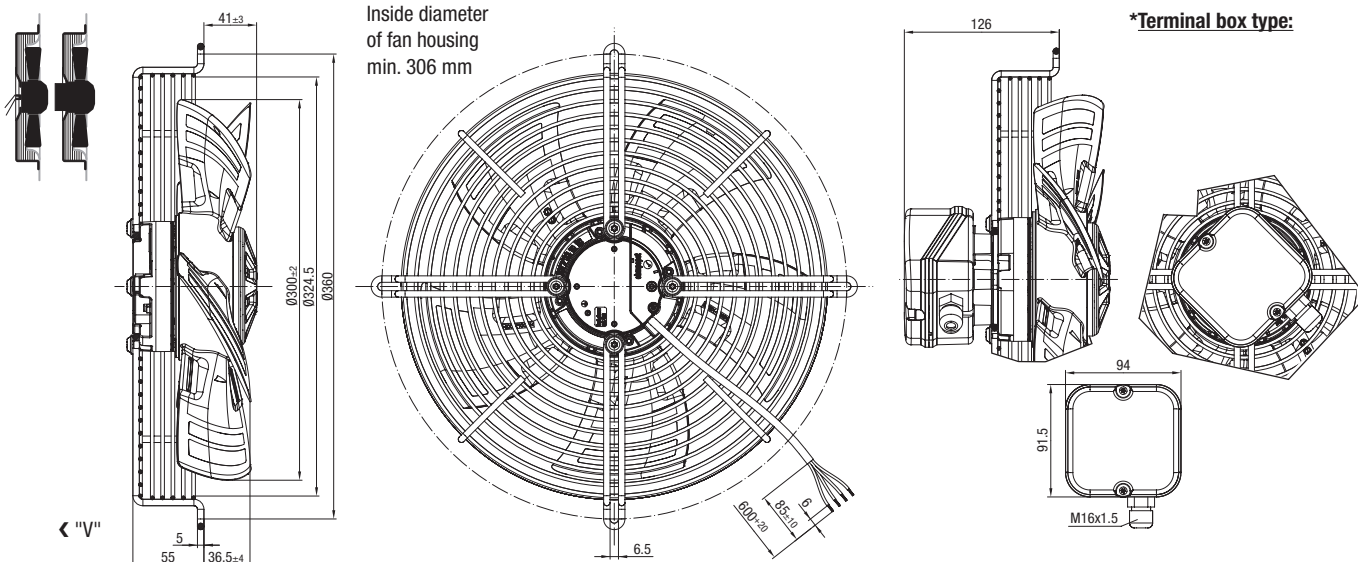
A3G 300-AN02-01 (without attachments, airflow direction "V")



W3G 300-CN02-30 (with round full nozzle, airflow direction "V")



S3G 300-AN02-30 / S3G 300-AN02-50* (with guard grille for short nozzle, airflow direction "V")



EC axial fans – HyBlade®

Ø 300 with motor M3G 074, open-loop speed control



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

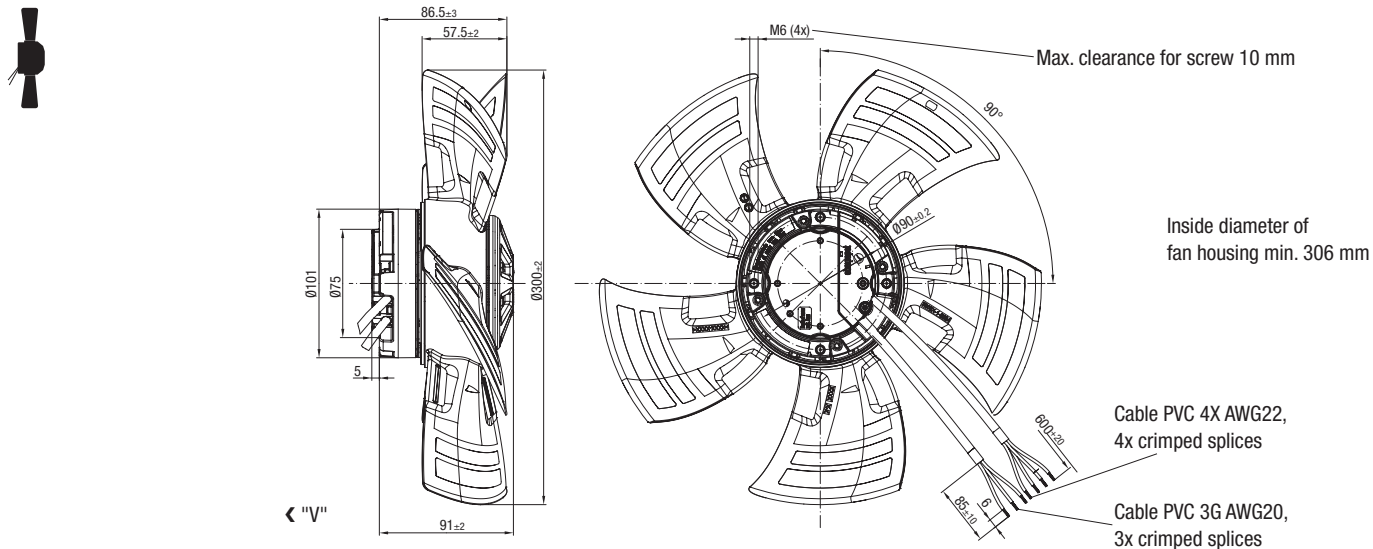
Ø 990

Ø 1250

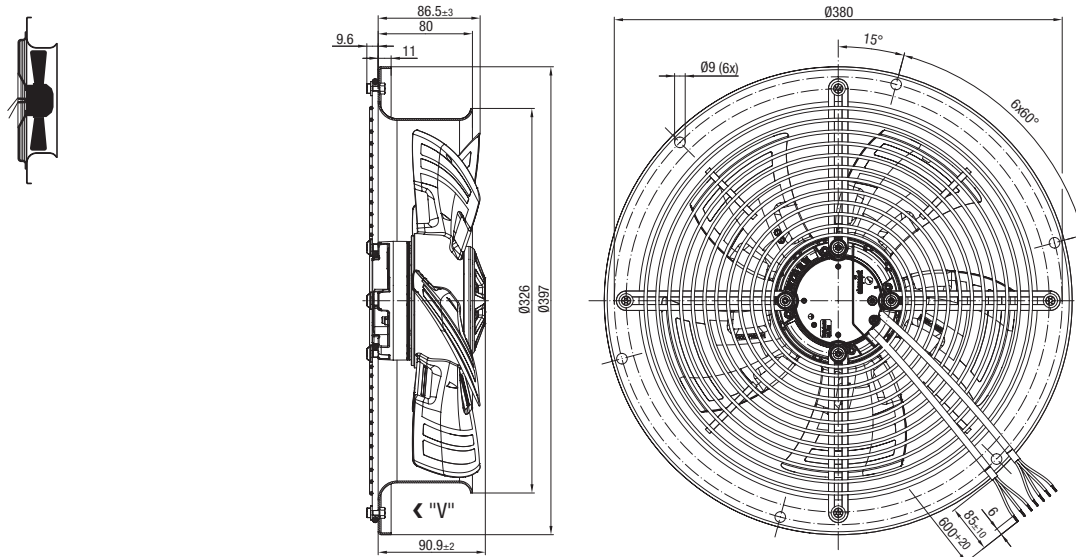
Technology

Agents

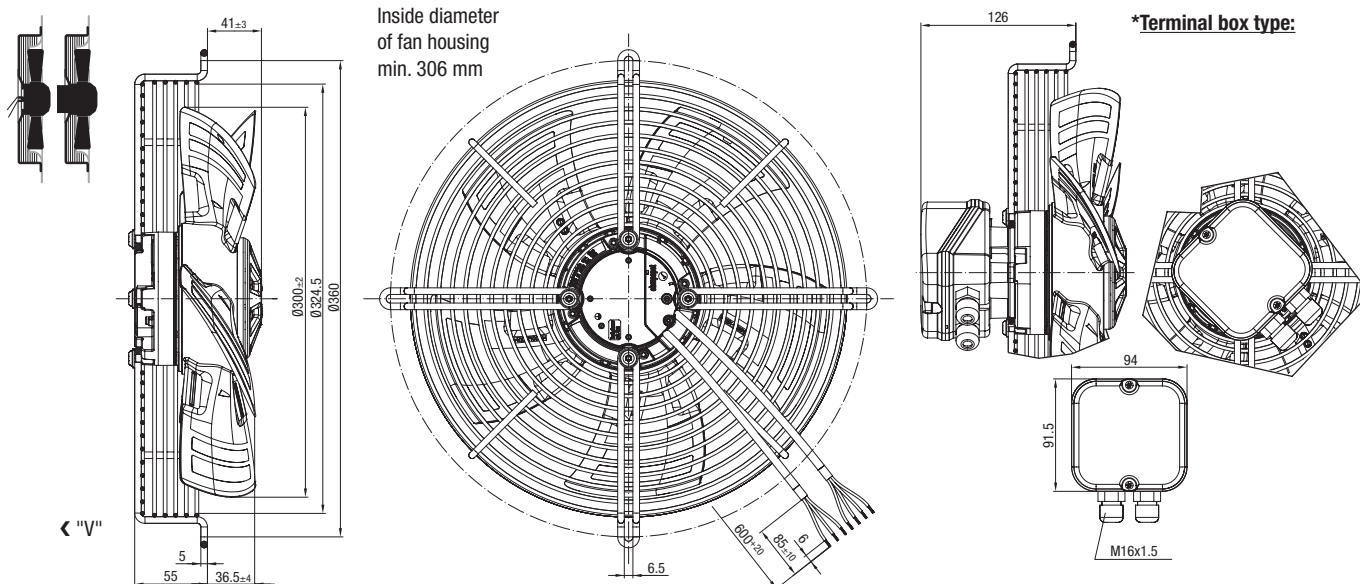
A3G 300-AN02-03 (without attachments, airflow direction "V")



W3G 300-CN02-32 (with round full nozzle, airflow direction "V")



S3G 300-AN02-32 / S3G 300-AN02-52* (with guard grille for short nozzle, airflow direction "V")



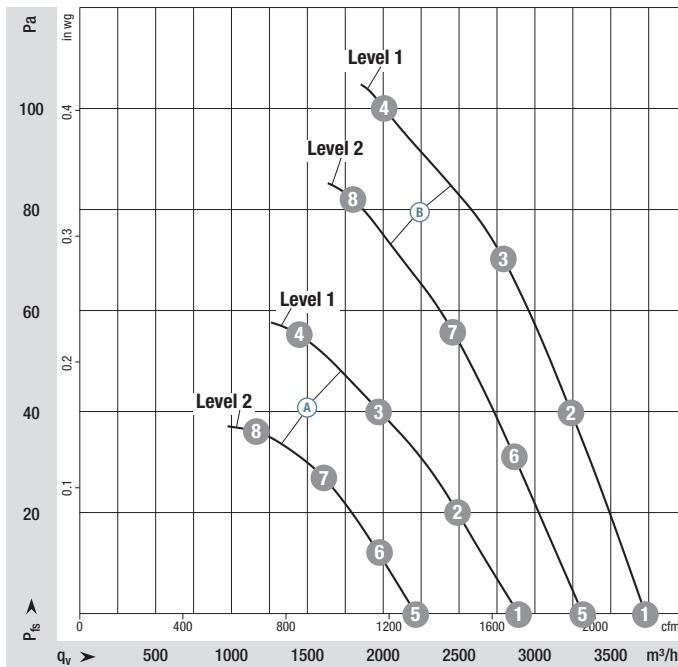


- **Material:** Guard grille: Steel, coated with black plastic (RAL 9005)
Fan housing: Sheet steel, galvanized and coated with black plastic (RAL 9005)
Blades: PP plastic
Rotor: Thick-film passivated
Electronics housing: Die-cast aluminum
- **Number of blades:** 5
- **Direction of rotation:** Counterclockwise viewed toward rotor
- **Degree of protection:** IP54⁽²⁾
- **Insulation class:** "B"
- **Installation position:** Any
- **Condensation drain holes:** None, open rotor
- **Mode:** Continuous operation (S1)
- **Mounting:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed ⁽¹⁾	Max. input power ⁽¹⁾	Max. input current ⁽¹⁾	Max. back pressure	Perm. ambient temp.	2-speed / 0-10 V	Techn. features and connection diagram
Type	Motor	VAC	Hz	rpm	W	A	Pa	°C			
*3G 350 ⁽²⁾	M3G 055-DF	Ⓐ 1~200-240	50/60	1040	73	0,65	55	-25...+60		2 speed levels	P. 128 / H3)
*3G 350 ⁽²⁾	M3G 074-CF	Ⓑ 1~200-240	50/60	1475	165	1,35	100	-25...+60		2 speed levels	P. 128 / H3)
*3G 350 ⁽²⁾	M3G 055-DF	Ⓒ 1~200-240	50/60	1040	73	0,65	55	-25...+60		Open-loop speed control	P. 129 / H4)
*3G 350 ⁽²⁾	M3G 074-CF	Ⓓ 1~200-240	50/60	1475	165	1,35	100	-25...+60		Open-loop speed control	P. 129 / H4)

Subject to change (1) Nominal data at operating point with maximum load and 230 VAC (2) Not suitable for constant outdoor use, special version available on request.

Curves:
2 speed levels



	n rpm	P _{ed} W	I A	L _{WA} dB(A)
Ⓐ 1 Level 1	1210	73	0,65	65
Ⓐ 2 Level 1	1150	73	0,65	62
Ⓐ 3 Level 1	1095	73	0,65	59
Ⓐ 4 Level 1	1040	73	0,65	56
Ⓐ 5 Level 2	915	34	0,33	59
Ⓐ 6 Level 2	895	37	0,35	56
Ⓐ 7 Level 2	875	40	0,38	54
Ⓐ 8 Level 2	855	42	0,40	52
Ⓑ 1 Level 1	1575	141	1,15	71
Ⓑ 2 Level 1	1545	155	1,24	68
Ⓑ 3 Level 1	1525	164	1,32	66
Ⓑ 4 Level 1	1475	165	1,35	67
Ⓑ 5 Level 2	1395	98	0,82	68
Ⓑ 6 Level 2	1370	108	0,90	65
Ⓑ 7 Level 2	1350	115	0,99	63
Ⓑ 8 Level 2	1335	123	1,06	64

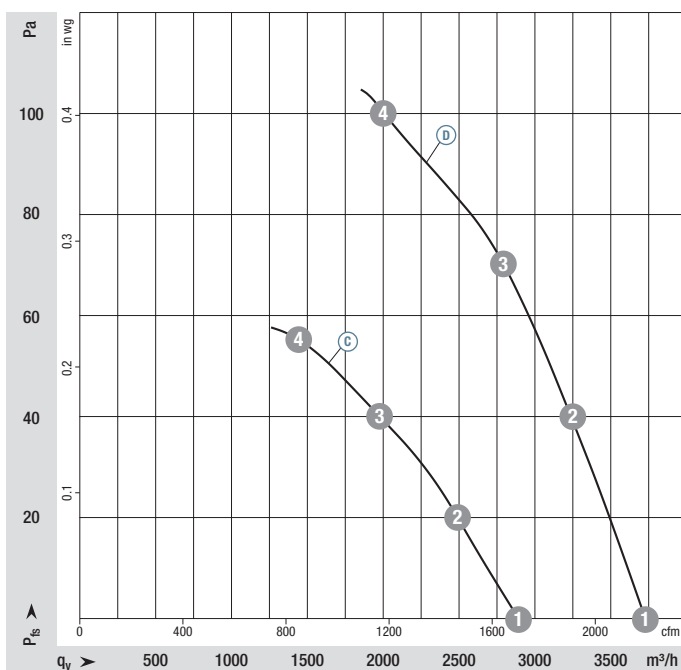
Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection. Intake-side sound level: L_{WA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

- **Technical features:** See connection diagram P. 128 f.
- **EMC:** Immunity to interference according to EN 61000-6-2 (industrial environment)
Circuit feedback up to total power ≤ 130 W according to EN 61000-3-2/3
Interference emission according to EN 61000-6-4 (industrial environment)
Radio interference is to be checked in the complete unit.
- **Touch current:** $\leq 3,5$ mA according to IEC 60990 (measuring circuit Fig. 4)
- **Cable exit:** Variable
- **Terminal box design:** electrical connection via terminal strip
- **Protection class:** I (with customer connection of protective earth)
- **Conformity with standards:** EN 60335-1, CE
- **Approvals:** VDE; cURus⁽³⁾

Airflow direction		Weight without attachments		Weight with round full nozzle		Weight with guard grille for short nozzle		Weight with guard grille for short nozzle and top-mounted terminal box
	without attachments-	kg	with round full nozzle	kg	with guard grille for short nozzle	kg	with guard grille for short nozzle and top-mounted terminal box	kg
"V"	A3G 350-AG03 -01 ⁽³⁾	1,70	W3G 350-CG03 -30 ⁽³⁾	4,60	S3G 350-AG03 -30 ⁽³⁾	3,20	S3G 350-AG03 -50	3,30
"V"	A3G 350-AN01 -01	2,10	W3G 350-CN01 -30	5,20	S3G 350-AN01 -30	3,60	S3G 350-AN01 -50	3,80
"V"	A3G 350-AG03 -03 ⁽³⁾	1,70	W3G 350-CG03 -32 ⁽³⁾	4,60	S3G 350-AG03 -32 ⁽³⁾	3,20	S3G 350-AG03 -52	3,30
"V"	A3G 350-AN01 -03 ⁽³⁾	2,10	W3G 350-CN01 -32 ⁽³⁾	5,20	S3G 350-AN01 -32 ⁽³⁾	3,60	S3G 350-AN01 -52	3,80

Airflow direction "A" on request

Curves: Open-loop speed control



Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection. Intake-side sound level: L_{wA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

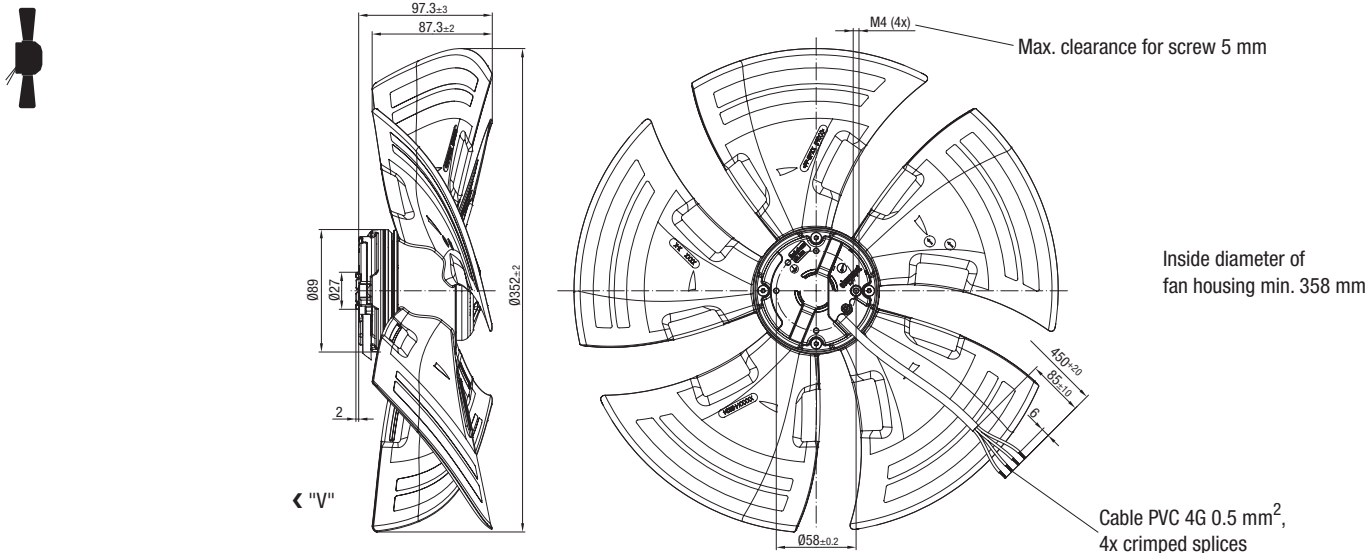
	n rpm	P_{ed} W	I A	L_{wA} dB(A)
Ⓒ 1	1210	73	0,65	65
Ⓒ 2	1150	73	0,65	62
Ⓒ 3	1095	73	0,65	59
Ⓒ 4	1040	73	0,65	56
Ⓓ 1	1575	141	1,15	71
Ⓓ 2	1545	155	1,24	68
Ⓓ 3	1525	164	1,32	66
Ⓓ 4	1475	165	1,35	67

EC axial fans – HyBlade®

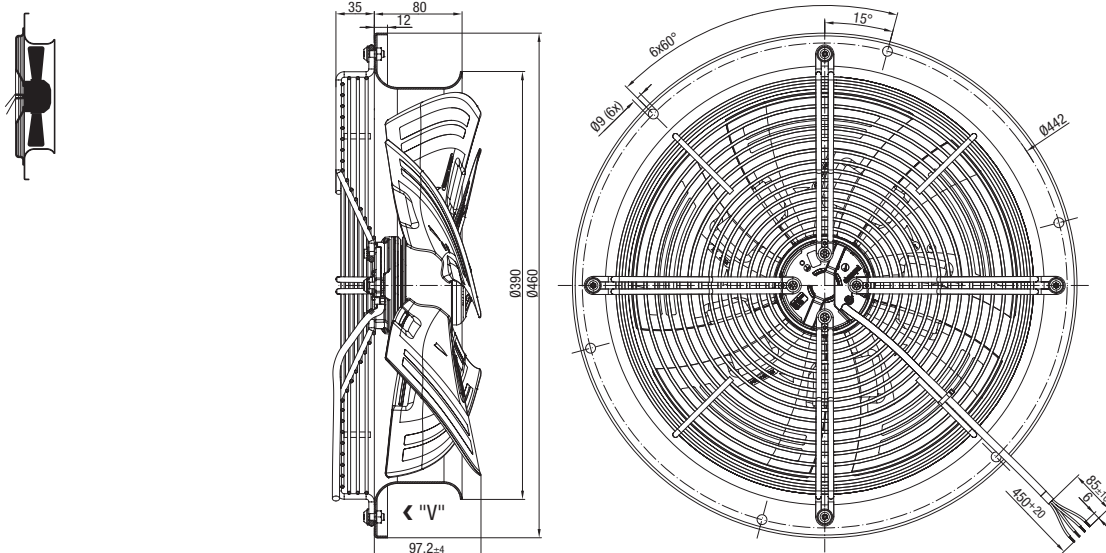
Ø 350 with motor M3G 055, 2 speed levels



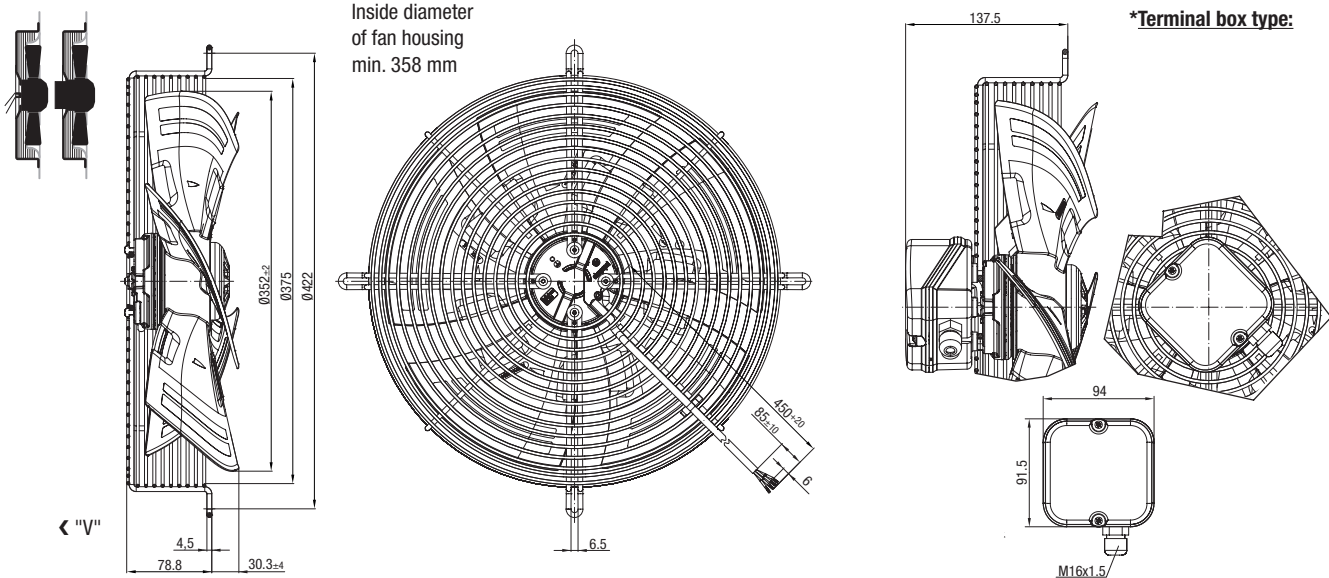
A3G 350-AG03-01 (without attachments, airflow direction "V")



W3G 350-CG03-30 (with round full nozzle, airflow direction "V")



S3G 350-AG03-30 / S3G 350-AG03-50* (with guard grille for short nozzle, airflow direction "V")



EC axial fans – HyBlade®

Ø 350 with motor M3G 055, open-loop speed control



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

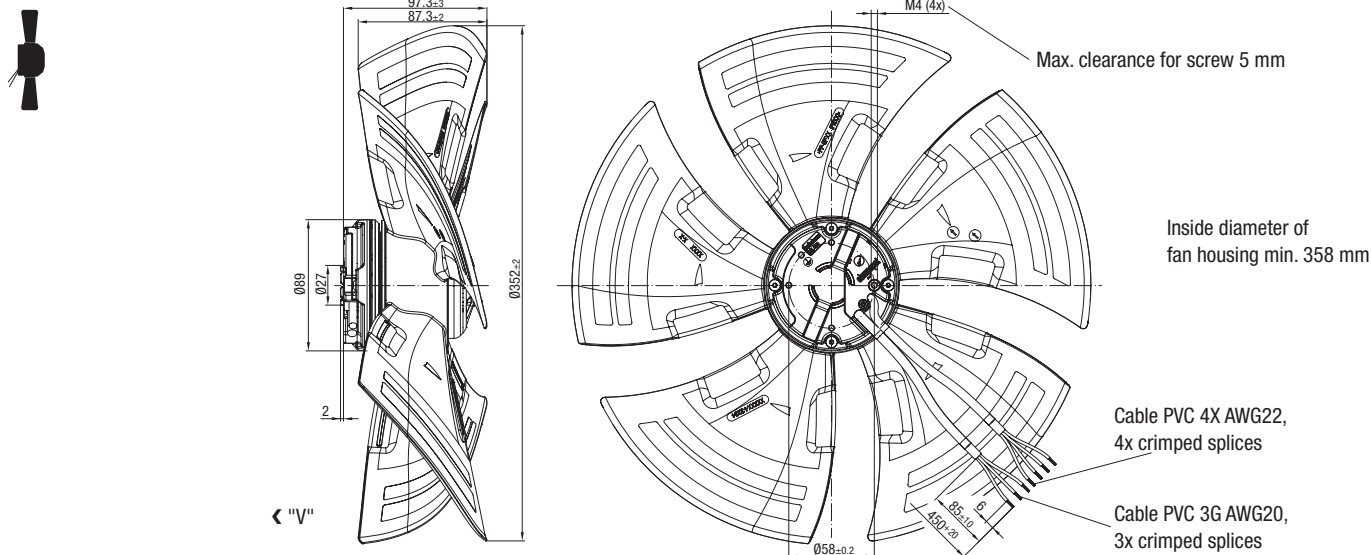
Ø 990

Ø 1250

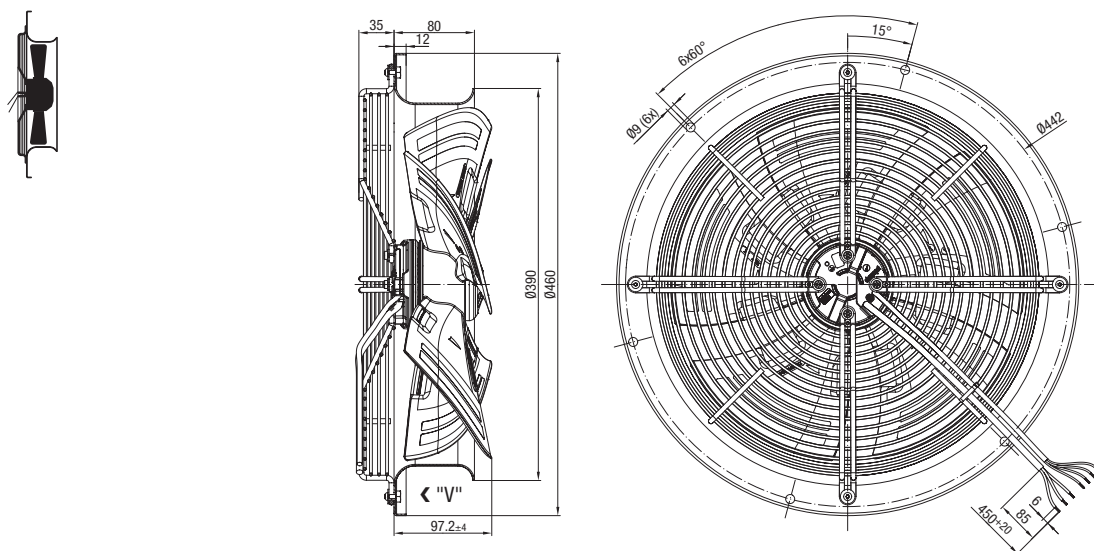
Technology

Agents

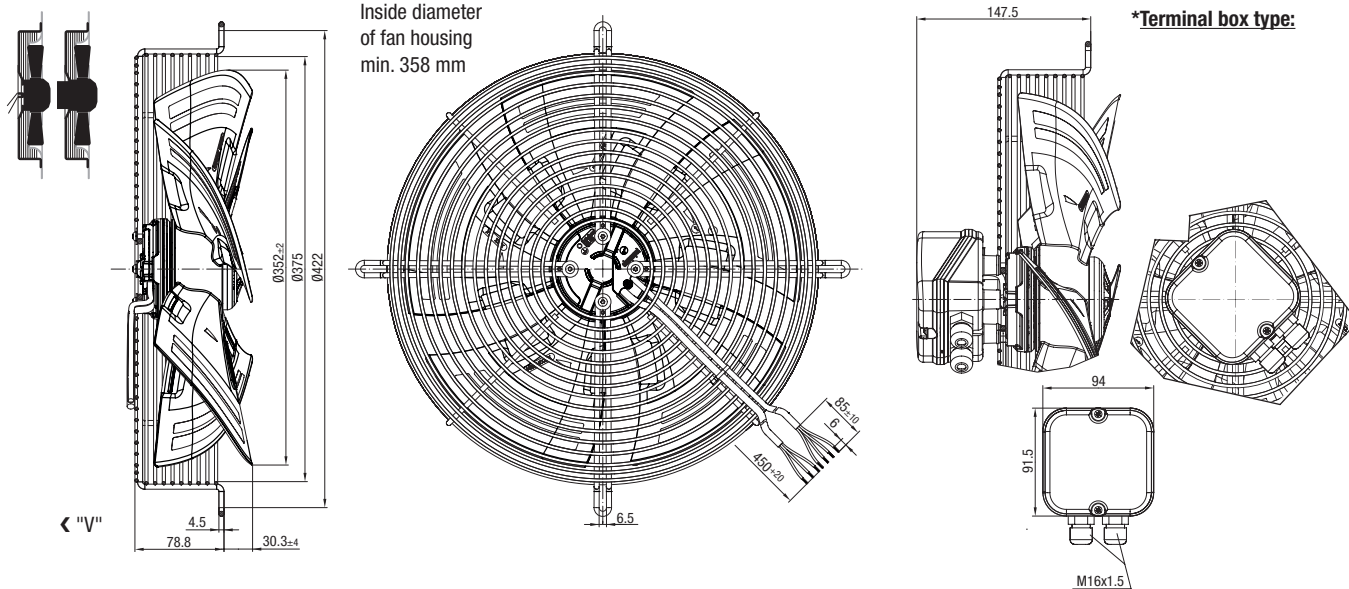
A3G 350-AG03-03 (without attachments, airflow direction "V")



W3G 350-CG03-32 (with round full nozzle, airflow direction "V")



S3G 350-AG03-32 / S3G 350-AG03-52* (with guard grille for short nozzle, airflow direction "V")

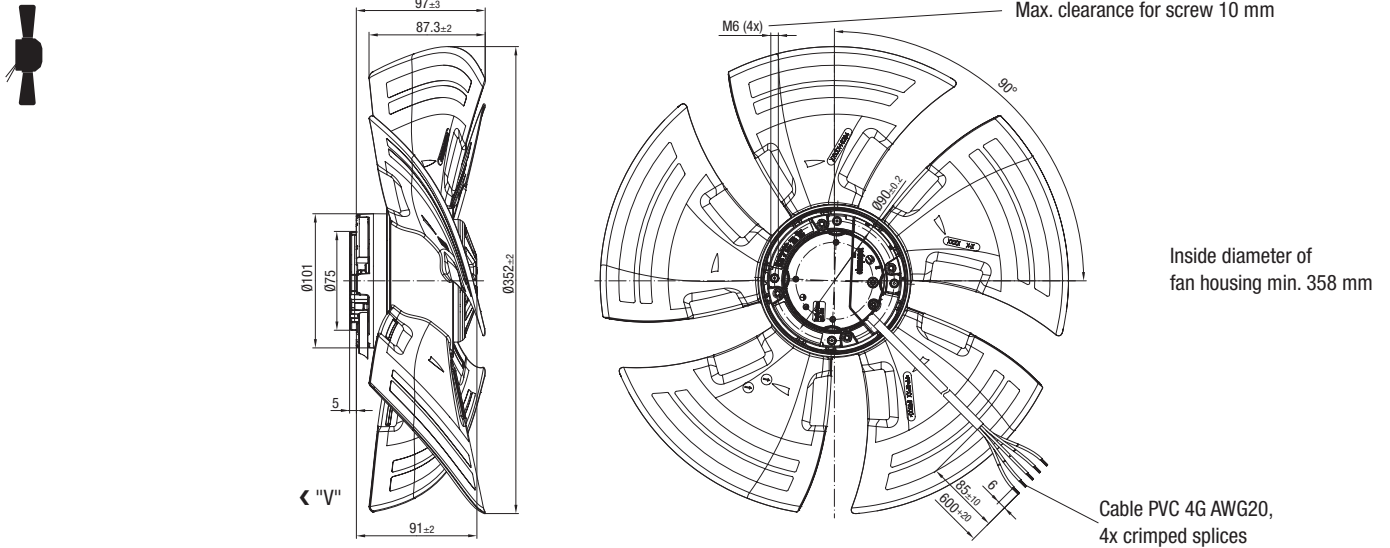


EC axial fans – HyBlade®

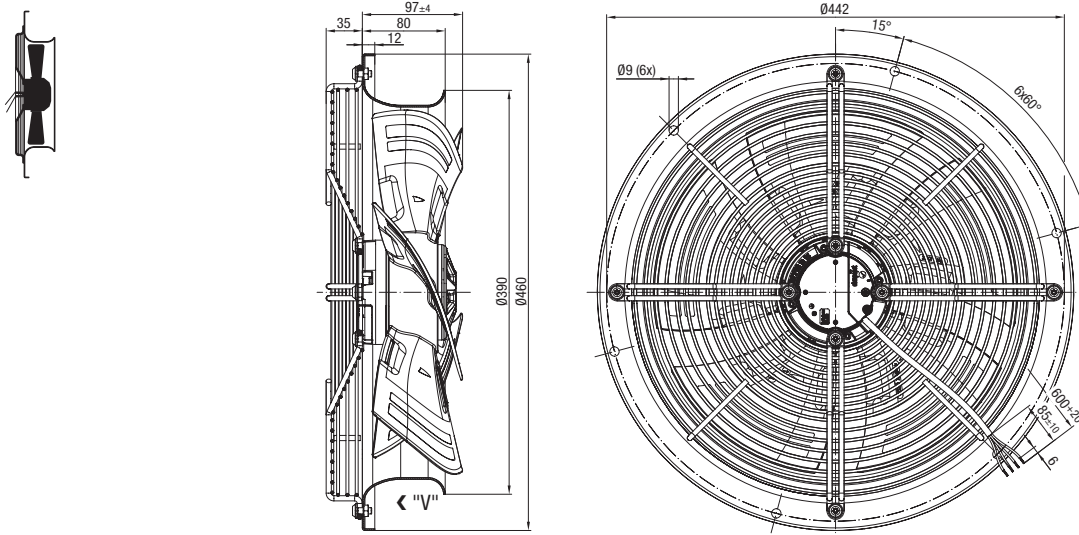
Ø 350 with motor M3G 074, 2 speed levels



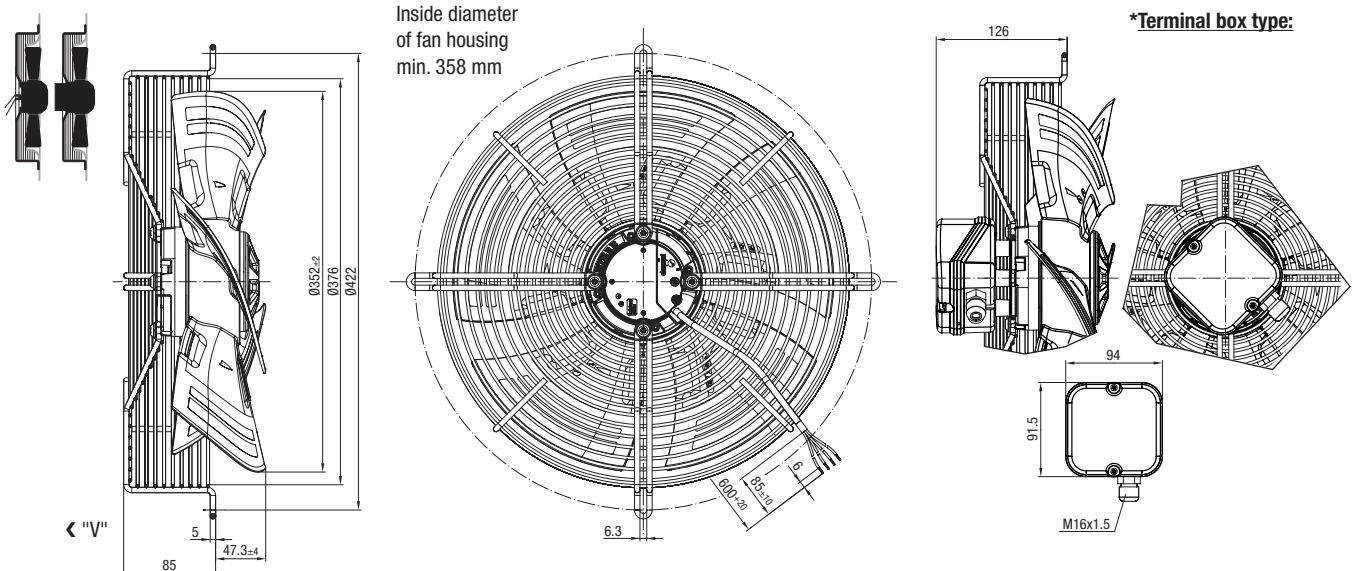
A3G 350-AN01-01 (without attachments, airflow direction "V")



W3G 350-CN01-30 (with round full nozzle, airflow direction "V")



S3G 350-AN01-30 / S3G 350-AN01-50* (with guard grille for short nozzle, airflow direction "V")



EC axial fans – HyBlade®

Ø 350 with motor M3G 074, open-loop speed control



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

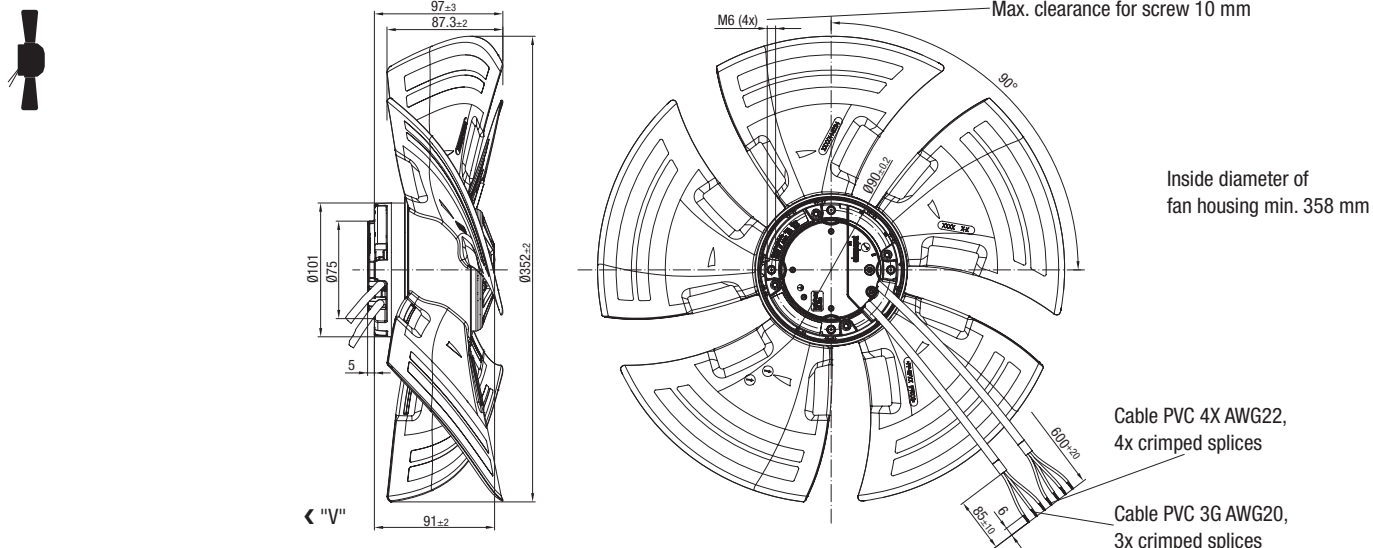
Ø 990

Ø 1250

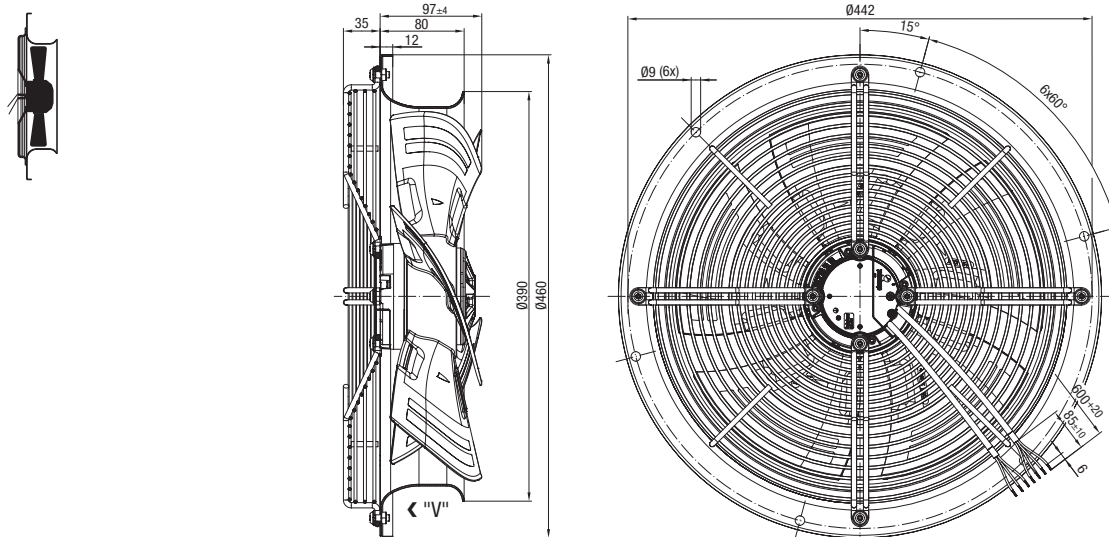
Technology

Agents

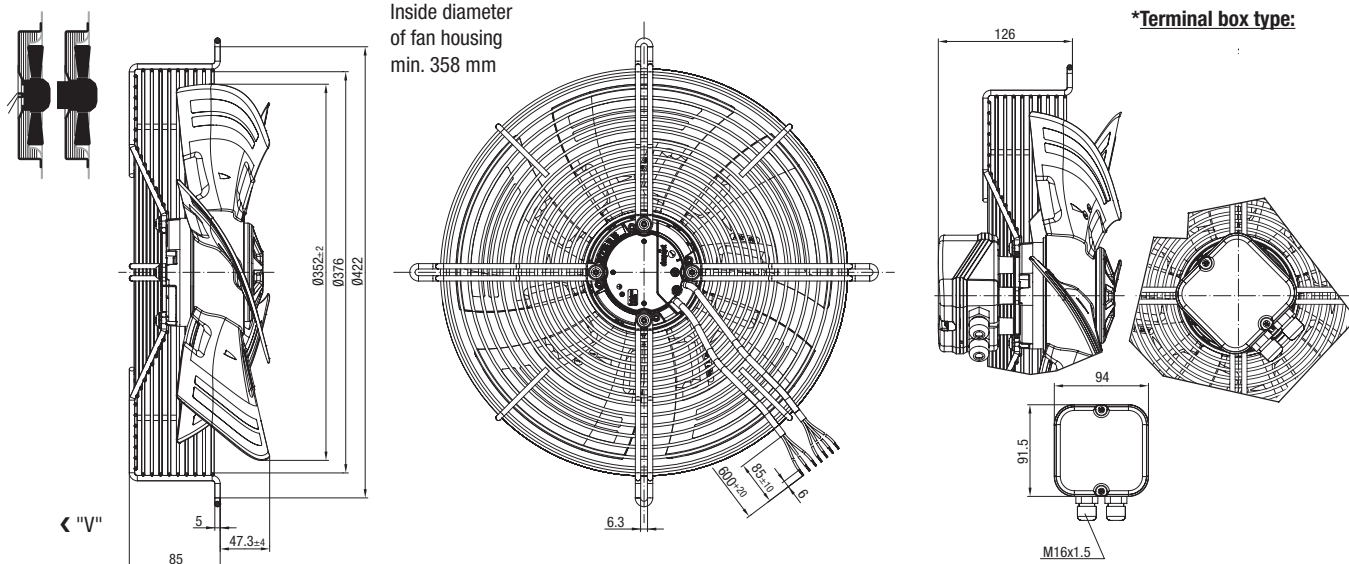
A3G 350-AN01-03 (without attachments, airflow direction "V")



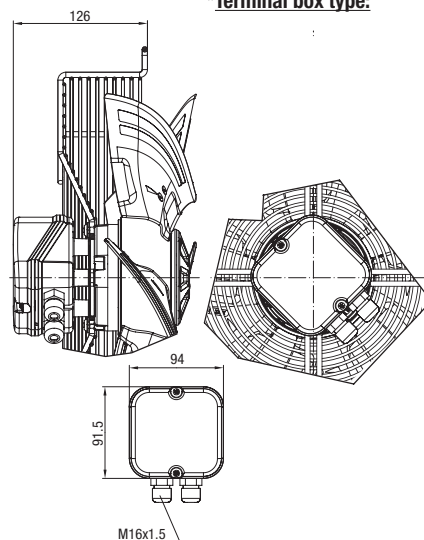
W3G 350-CN01-32 (with round full nozzle, airflow direction "V")



S3G 350-AN01-32 / S3G 350-AN01-52* (with guard grille for short nozzle, airflow direction "V")



*Terminal box type:





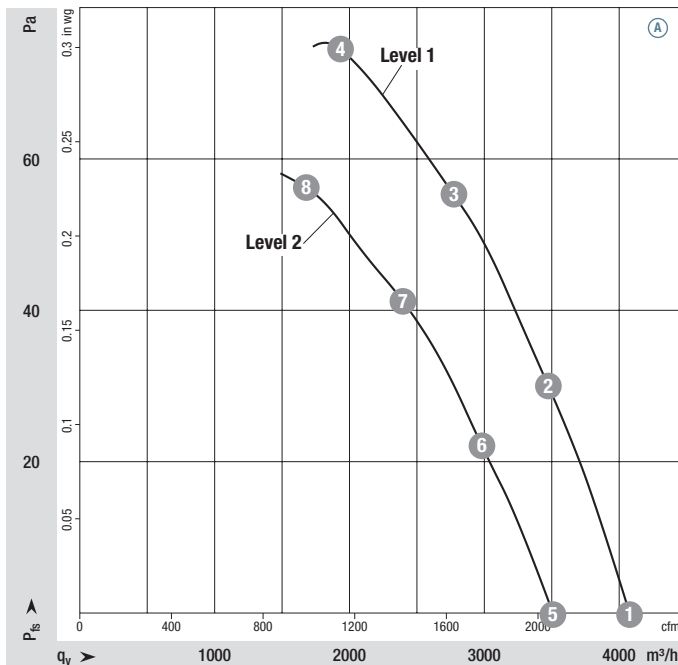
- **Material:** Guard grille: Steel, coated with black plastic (RAL 9005)
Fan housing: Sheet steel, galvanized and coated with black plastic (RAL 9005)
Blades (5): (A) (B) PP plastic;
(C) (D) press-fitted sheet steel blank, over-molded with PP plastic
Rotor: (A) (B) Thick-film passivated; (C) (D) painted black
Electronics housing: (A) (B) (C) (D) Die-cast aluminum; (C) (D) painted black
- **Direction of rotation:** Counterclockwise viewed toward rotor
- **Degree of protection:** (A) (B) IP 54⁽²⁾; (C) (D) IP 55
- **Insulation class:** (A) (B) "B"; (C) (D) "F"
- **Installation position:** (A) (B) Any; (C) (D) shaft horizontal or rotor on bottom, rotor on top on request
- **Condensation drain holes:** (A) (B) None, open rotor; (C) (D) rotor side
- **Mode:** Continuous operation (S1)
- **Mounting:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed ⁽¹⁾	Max. input power ⁽¹⁾	Max. input current ⁽¹⁾	Max. back pressure	Perm. ambient temp.	2-speed / 0-10 V	Techn. features and connection diagram
Type	Motor	VAC	Hz	rpm	W	A	Pa	°C			
*3G 400 ⁽²⁾	M3G 074-CF	(A) 1~200-240	50/60	1080	140	1,15	75	-25...+60		2 speed levels	P. 128 / H3)
*3G 400 ⁽²⁾	M3G 074-CF	(B) 1~200-240	50/60	1080	140	1,15	75	-25...+60		Open-loop speed control	P. 129 / H4)
*3G 400	M3G 084-DF	(C) 1~200-277	50/60	1760	500	2,20	180	-25...+60		Open-loop speed control	P. 130 / P5)
*3G 400	M3G 084-DF	(D) 3~380-480	50/60	1760	500	0,80	180	-25 ⁽³⁾ ...+60		Open-loop speed control	P. 131 / P6)

Subject to change

(1) Nominal data at operating point with maximum load and 230 or 400 VAC (2) Not suitable for constant outdoor use, special version available on request.
(3) Occasional start-up between -40°C and -25°C is permissible. Continuous operation below -25°C only possible with special low-temperature bearings (on request).

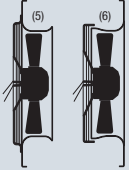
Curves:
2 speed levels



	n rpm	P _{ed} W	I A	L _{WA} dB(A)
(A) 1 Level 1	1135	116	0,97	69
(A) 2 Level 1	1110	127	1,05	66
(A) 3 Level 1	1095	133	1,09	63
(A) 4 Level 1	1080	140	1,15	69
(A) 5 Level 2	980	75	0,69	65
(A) 6 Level 2	965	82	0,71	63
(A) 7 Level 2	950	87	0,77	59
(A) 8 Level 2	840	90	0,79	64

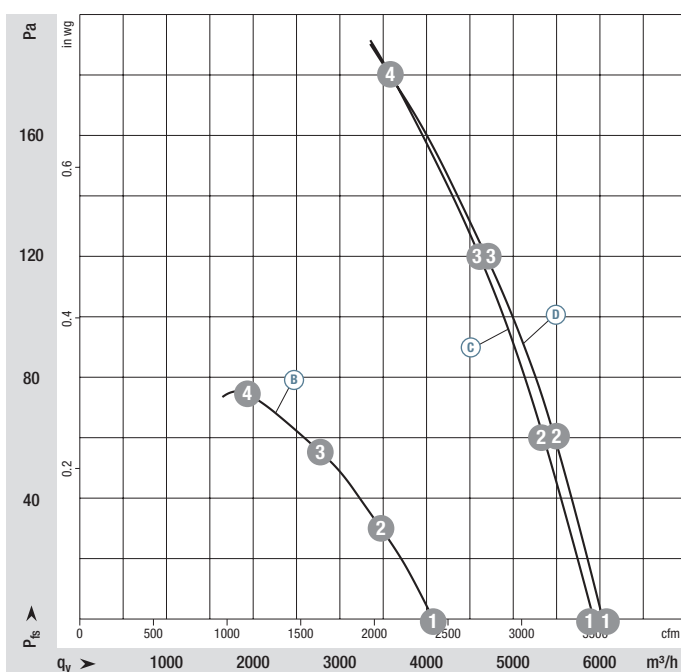
Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection. Intake-side sound level: L_{WA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

- **Technical features:** See connection diagram P. 128 ff.
- **EMC:** (A) (B) (C) (D) Immunity to interference according to EN 61000-6-2 (industrial environment)
 - (A) (B) Circuit feedback up to total power of ≤ 130 W according to EN 61000-3-2/3
 - (C) (D) Circuit feedback according to EN 61000-3-2
 - (A) (B) Interference emission according to EN 61000-6-4 (industrial environment), radio interference is to be checked in the complete unit.
 - (C) (D) Interference emission according to EN 61000-6-4 (industrial environment), according to household appliance standard on request
- **Touch current:** $< 3,5$ mA according to IEC 60990 (measuring circuit Fig. 4)
- **Cable exit:** Variable
- **Terminal box design:** (A) (B) electrical connection via terminal strip
- **Protection class:** I (with customer connection of protective earth)
- **Conformity with standards:** (A) (B) EN 60335-1, CE; (C) EN 61800-5-1, EN 60335-1, CE; (D) EN 61800-5-1, CE
- **Approvals:** (A) (B) VDE; cURus⁽⁴⁾
 - (C) EAC, UL; (D) EAC, UL on request

Airflow direction		Weight without attachments		Weight with round full nozzle		Weight with guard grille for short nozzle		Weight with guard grille for short nozzle and top-mounted terminal box
	without attachments-	kg	with round (5), square (6), full nozzle	kg	with guard grille for short nozzle	kg	with guard grille for short nozzle and top-mounted terminal box	kg
"V"	A3G 400-AN04 -01	2,30	W3G 400-CN04 -30 ⁽⁵⁾	6,20	S3G 400-AN04 -30	4,10	S3G 400-AN04 -50	4,20
"V"	A3G 400-AN04 -03 ⁽⁴⁾	2,30	W3G 400-CN04 -32 ⁽⁴⁾⁽⁵⁾	6,20	S3G 400-AN04 -32 ⁽⁴⁾	4,10	S3G 400-AN04 -52	4,20
"V"	A3G 400-BK08 -H1	4,40	W3G 400-FK08 -H1 ⁽⁶⁾	8,90	S3G 400-LK08 -H1	5,70	on request	---
"V"	A3G 400-BK11 -M1	5,00	W3G 400-FK11 -M1 ⁽⁶⁾	9,50	S3G 400-LK11 -M1	7,10	on request	---

Airflow direction "A" on request

Curves: Open-loop speed control



Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection. Intake-side sound level: L_{wA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

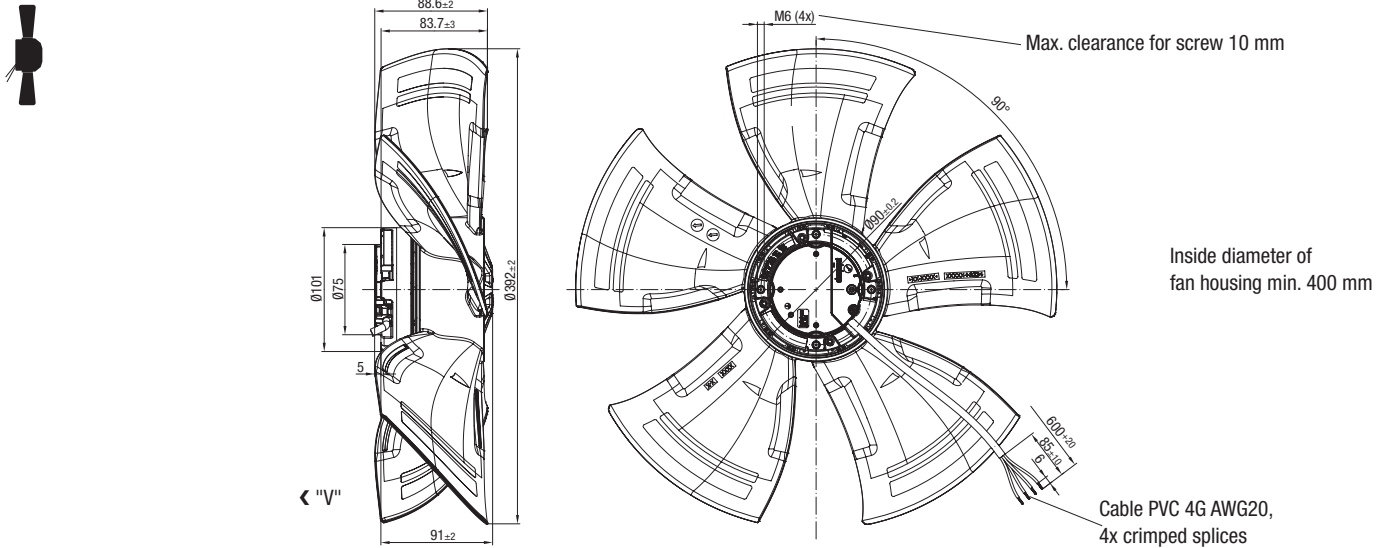
	n rpm	P _{ed} W	I A	L _{wA} dB(A)
(B) 1	1135	116	0,97	69
(B) 2	1110	127	1,05	66
(B) 3	1095	133	1,09	63
(B) 4	1080	140	1,15	69
(C) 1	1760	432	1,89	79
(C) 2	1760	464	2,03	77
(C) 3	1760	490	2,14	73
(C) 4	1760	500	2,20	74
(D) 1	1760	452	0,72	79
(D) 2	1760	474	0,75	77
(D) 3	1760	489	0,78	73
(D) 4	1760	500	0,80	74

EC axial fans – HyBlade®

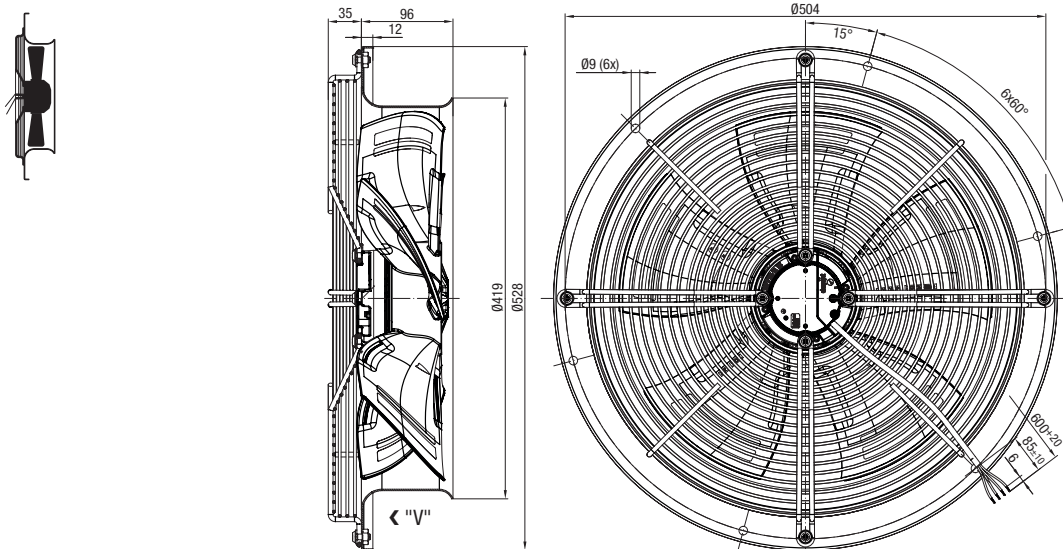
Ø 400 with motor M3G 074, 2 speed levels



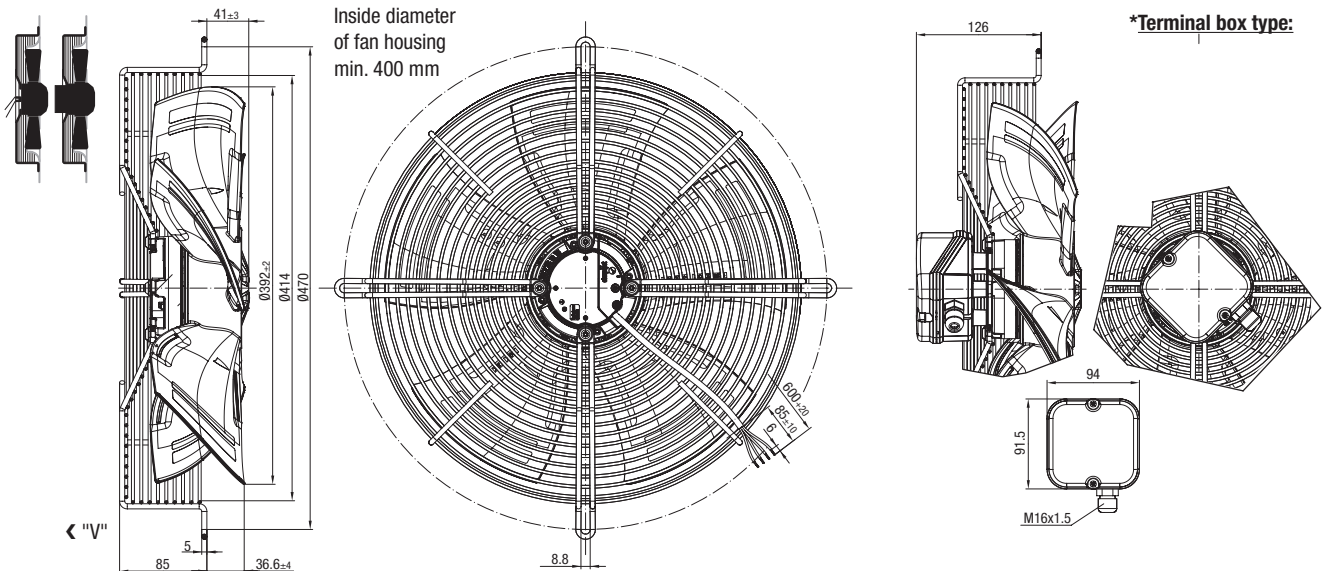
A3G 400-AN04-01 (without attachments, airflow direction "V")



W3G 400-CN04-30 (with round full nozzle, airflow direction "V")



S3G 400-AN04-30 / S3G 400-AN04-50* (with guard grille for short nozzle, airflow direction "V")



EC axial fans – HyBlade®

Ø 400 with motor M3G 074, open-loop speed control



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

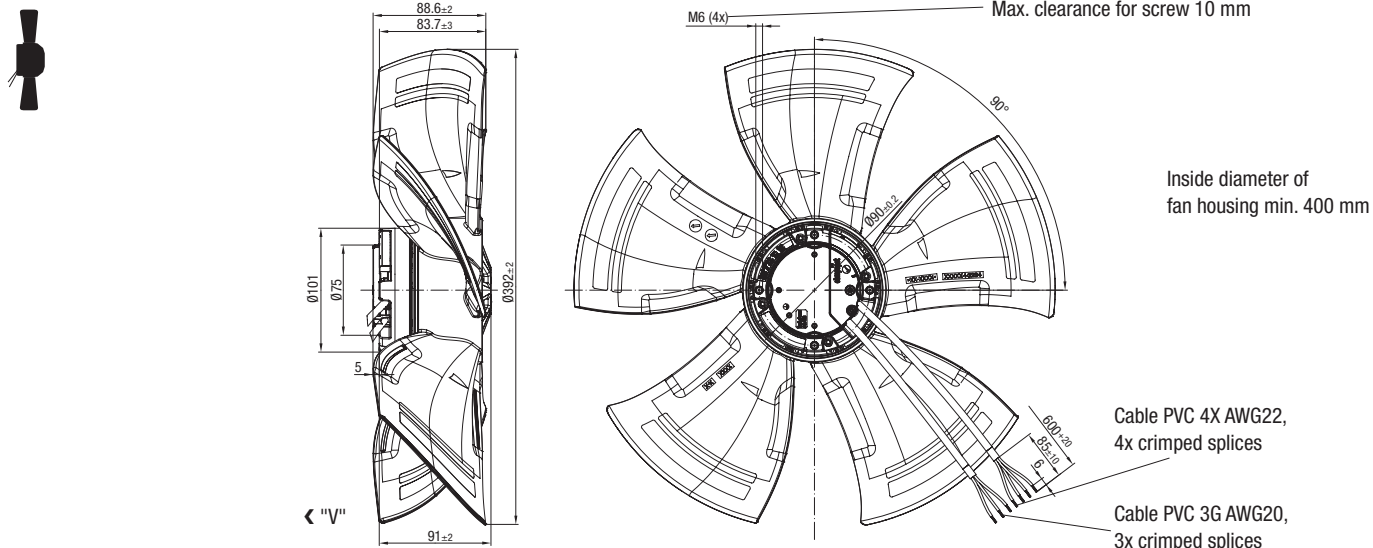
Ø 990

Ø 1250

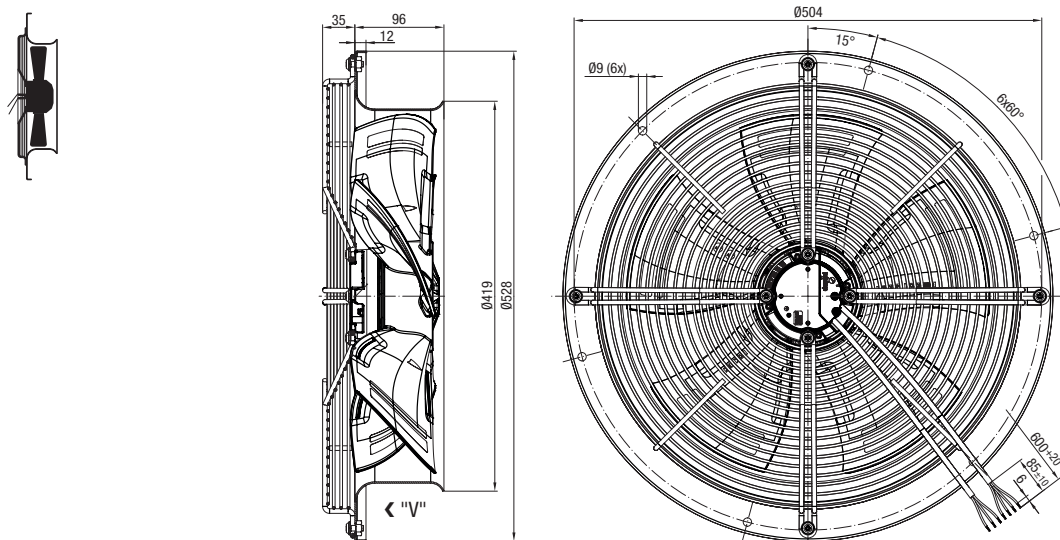
Technology

Agents

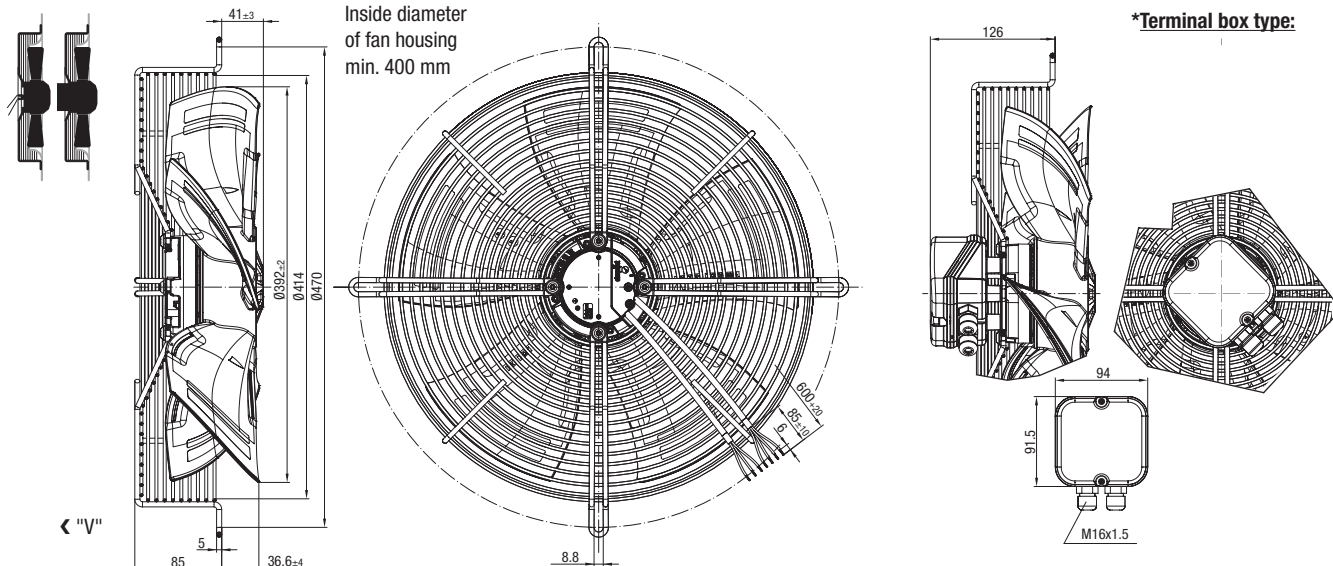
A3G 400-AN04-03 (without attachments, airflow direction "V")



W3G 400-CN04-32 (with round full nozzle, airflow direction "V")



S3G 400-AN04-32 / S3G 400-AN04-52* (with guard grille for short nozzle, airflow direction "V")

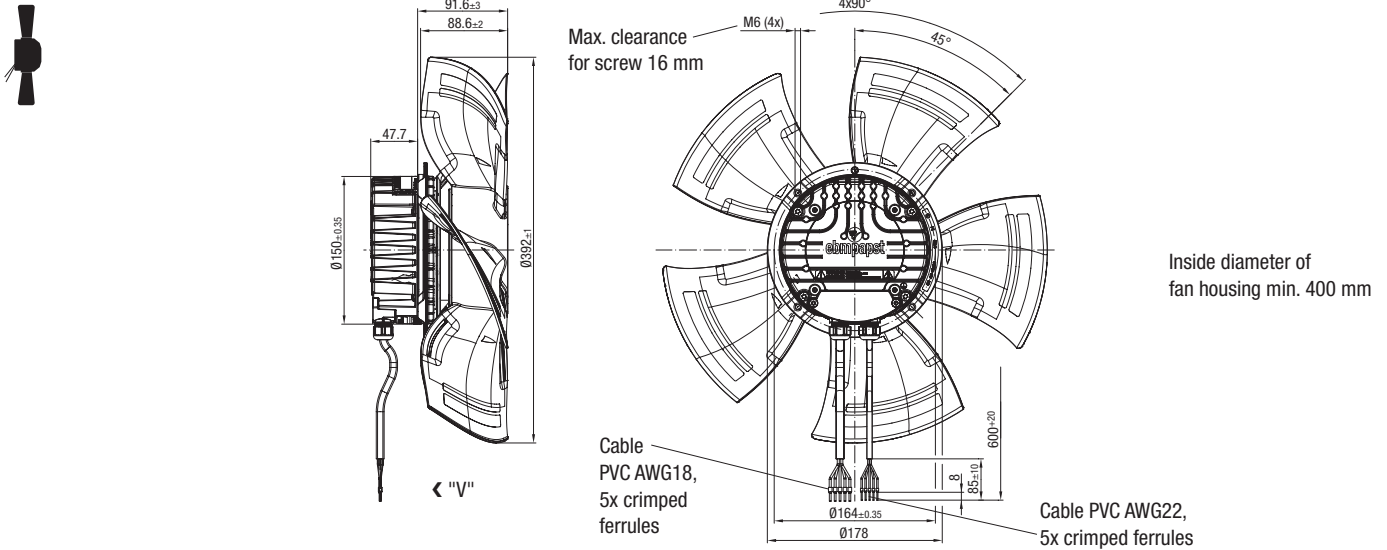


EC axial fans – HyBlade®

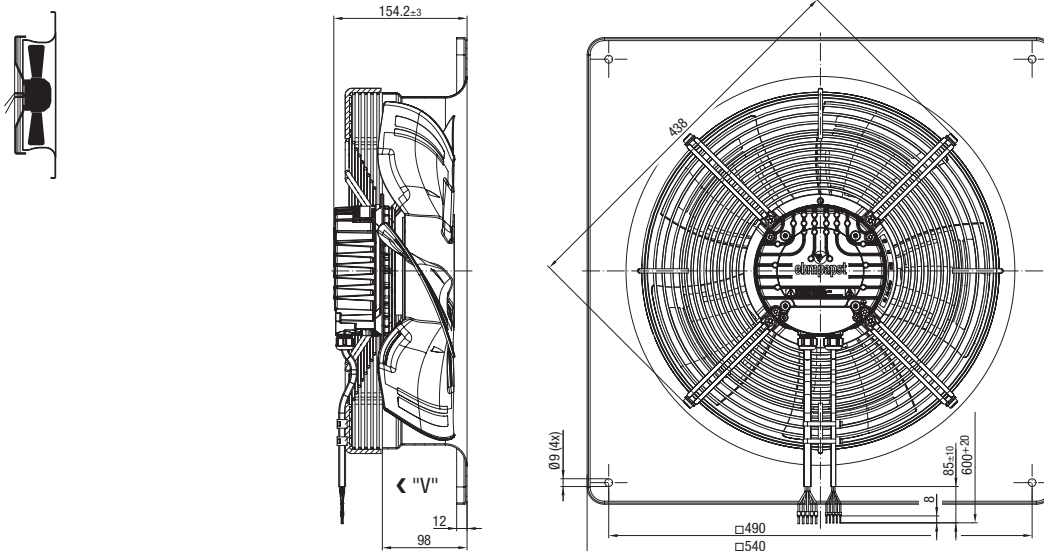
Ø 400 with motor M3G 084, 2 speed levels



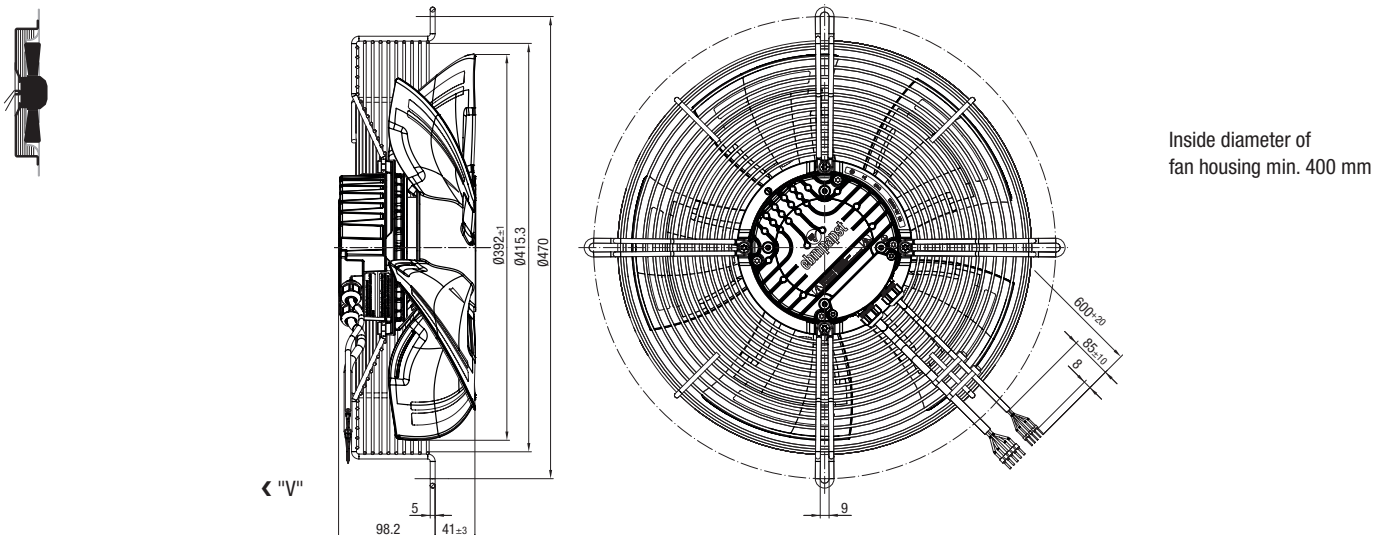
A3G 400-BK08-H1 (without attachments, airflow direction "V")



W3G 400-FK08-H1 (with square full nozzle, airflow direction "V")



S3G 400-LK08-H1 (with guard grille for short nozzle, airflow direction "V")



EC axial fans – HyBlade®

Ø 400 with motor M3G 084, open-loop speed control



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

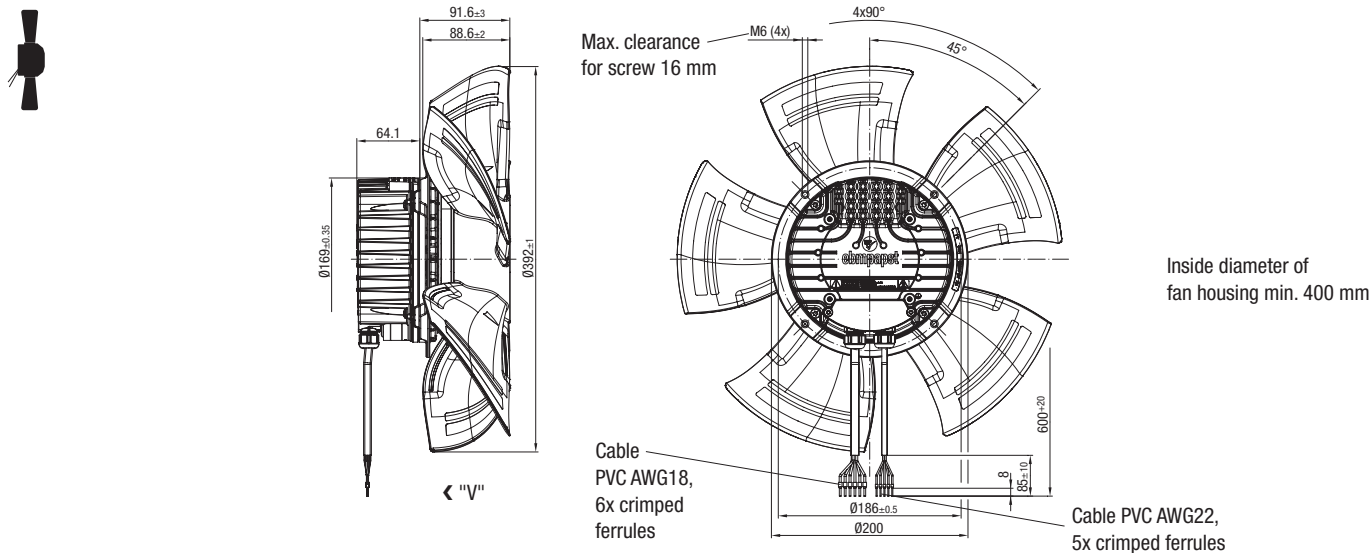
Ø 990

Ø 1250

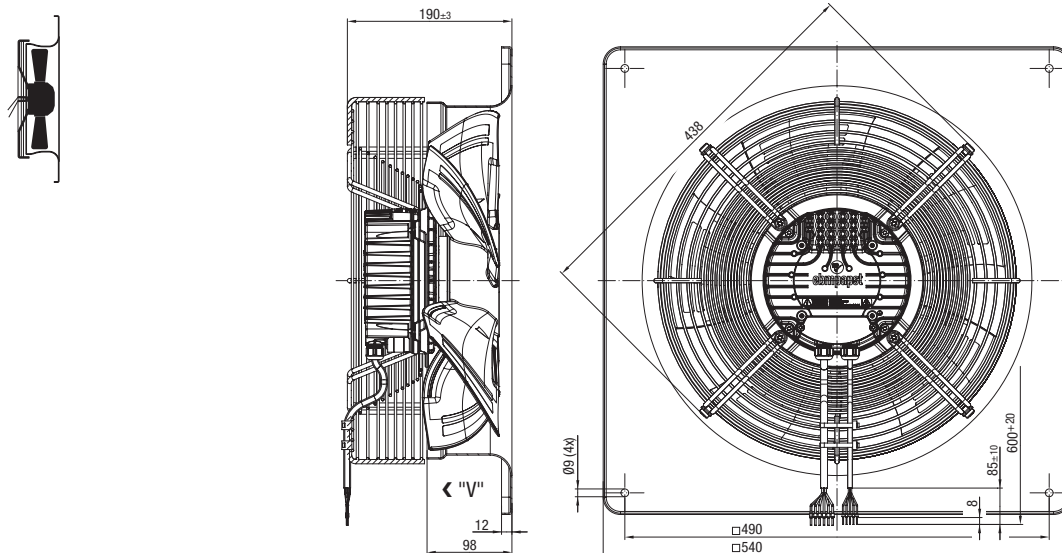
Technology

Agents

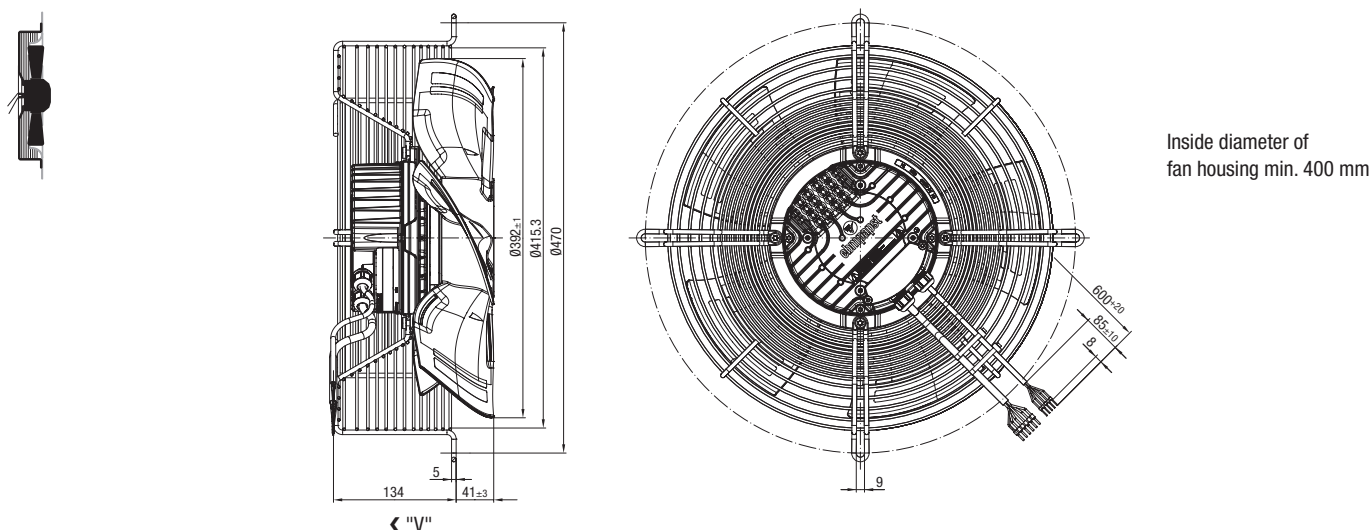
A3G 400-BK11-M1 (without attachments, airflow direction "V")



W3G 400-FK11-M1 (with square full nozzle, airflow direction "V")



S3G 400-LK11-M1 (with guard grille for short nozzle, airflow direction "V")





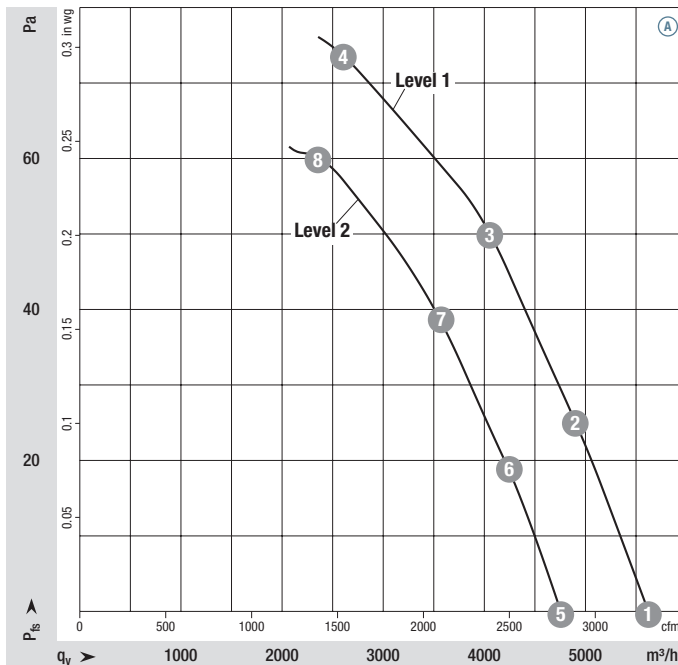
- Material:** Guard grille: Steel, coated with black plastic (RAL 9005)
Fan housing: Sheet steel, galvanized and coated with black plastic (RAL 9005)
Blades (5): (A) (B) PP plastic;
(C) (D) press-fitted sheet steel blank, over-molded with PP plastic
Rotor: (A) (B) Thick-film passivated; (C) (D) painted black
Electronics housing: (A) (B) (C) (D) Die-cast aluminum; (C) (D) painted black
- Direction of rotation:** Counterclockwise viewed toward rotor
- Degree of protection:** (A) (B) IP 54⁽²⁾; (C) (D) IP 55
- Insulation class:** (A) (B) "B"; (C) (D) "F"
- Installation position:** (A) (B) Any; (C) (D) shaft horizontal or rotor on bottom, rotor on top on request
- Condensation drain holes:** (A) (B) None, open rotor; (C) (D) rotor side
- Mode:** Continuous operation (S1)
- Mounting:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed ⁽¹⁾	Max. input power ⁽¹⁾	Max. input current ⁽¹⁾	Max. back pressure	Perm. ambient temp.	2-speed / 0-10 V	Techn. features and connection diagram
Type	Motor	VAC	Hz	rpm	W	A	Pa	°C			
*3G 450 ⁽²⁾	M3G 074-DF	(A) 1~200-240	50/60	980	163	1,34	74	-25...+60		2 speed levels	P. 128 / H3)
*3G 450 ⁽²⁾	M3G 074-DF	(B) 1~200-240	50/60	980	163	1,34	74	-25...+60		Open-loop speed control	P. 129 / H4)
*3G 450	M3G 084-FA	(C) 1~200-277	50/60	1500	500	2,20	150	-25...+60		Open-loop speed control	P. 130 / P5)
*3G 450	M3G 084-FA	(D) 3~380-480	50/60	1520	530	0,85	165	-25 ⁽³⁾ ...+65		Open-loop speed control	P. 131 / P6)

Subject to change

(1) Nominal data at operating point with maximum load and 230 or 400 VAC (2) Not suitable for constant outdoor use, special version available on request.
(3) Occasional start-up between -40°C and -25°C is permissible. Continuous operation below -25°C only possible with special low-temperature bearings (on request).

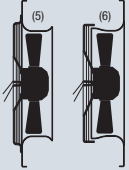
Curves:
2 speed levels



	n rpm	P _{ed} W	I A	L _{WA} dB(A)
(A) 1 Level 1	1110	163	1,34	66
(A) 2 Level 1	1060	163	1,34	64
(A) 3 Level 1	1025	163	1,34	61
(A) 4 Level 1	980	163	1,34	68
(A) 5 Level 2	945	105	0,92	61
(A) 6 Level 2	930	114	0,99	60
(A) 7 Level 2	915	122	1,07	58
(A) 8 Level 2	895	129	1,09	66

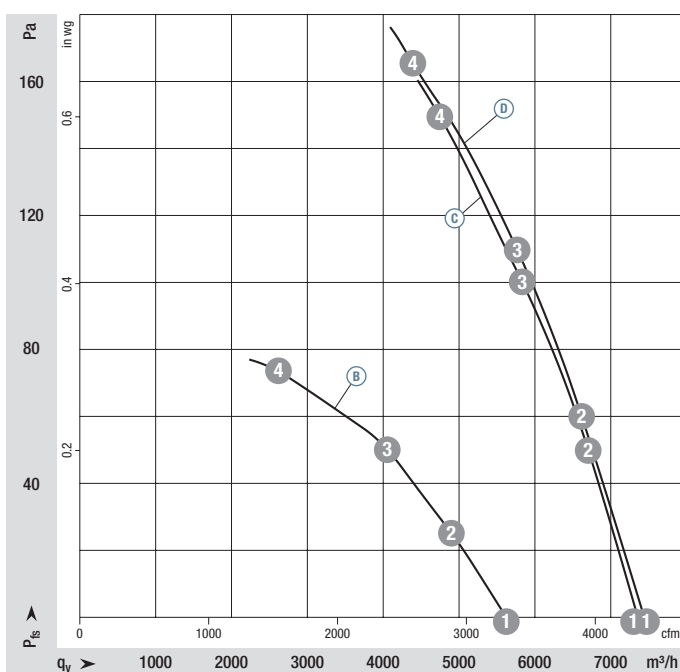
Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection. Intake-side sound level: L_{WA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

- **Technical features:** See connection diagram P. 128 ff.
- **EMC:** (A) (B) (C) (D) Immunity to interference according to EN 61000-6-2 (industrial environment)
 - (A) (B) Circuit feedback up to total power of ≤ 130 W according to EN 61000-3-2/3
 - (C) (D) Circuit feedback according to EN 61000-3-2/3
 - (A) (B) Interference emission according to EN 61000-6-4 (industrial environment), radio interference is to be checked in the complete unit.
 - (C) (D) Interference emission according to EN 61000-6-4 (industrial environment), according to household appliance standard on request
- **Touch current:** $< 3,5$ mA according to IEC 60990 (measuring circuit Fig. 4)
- **Cable exit:** Variable
- **Terminal box design:** (A) (B) electrical connection via terminal strip
- **Protection class:** I (with customer connection of protective earth)
- **Conformity with standards:** (A) (B) EN 60335-1, CE; (C) EN 61800-5-1, EN 60335-1, CE; (D) EN 61800-5-1, CE
- **Approvals:** (A) (B) VDE; cURus⁽⁴⁾
 - (C) EAC, UL; (D) EAC, UL on request

Airflow direction		Weight without attachments		Weight with round full nozzle		Weight with guard grille for short nozzle		Weight with guard grille for short nozzle and top-mounted terminal box
	without attachments-	kg	with round (5), square (6), full nozzle	kg	with guard grille for short nozzle	kg	with guard grille for short nozzle and top-mounted terminal box	kg
"V"	A3G 450-A002 -01	2,70	W3G 450-C002 -30 ⁽⁵⁾	7,50	S3G 450-A002 -30	4,80	S3G 450-A002 -50	4,90
"V"	A3G 450-A002 -03 ⁽⁴⁾	2,70	W3G 450-C002 -32 ⁽⁴⁾⁽⁵⁾	7,50	S3G 450-A002 -32 ⁽⁴⁾	4,80	S3G 450-A002 -52	4,90
"V"	A3G 450-BL03 -H1	5,00	W3G 450-FL03 -H1 ⁽⁶⁾	10,00	S3G 450-LL03 -H1	6,70	on request	---
"V"	A3G 450-BL07 -M1	5,30	W3G 450-FL07 -M1 ⁽⁶⁾	10,40	S3G 450-LL07 -M1	7,50	on request	---

Airflow direction "A" on request

Curves:
Open-loop speed control



Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection. Intake-side sound level: L_{wA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

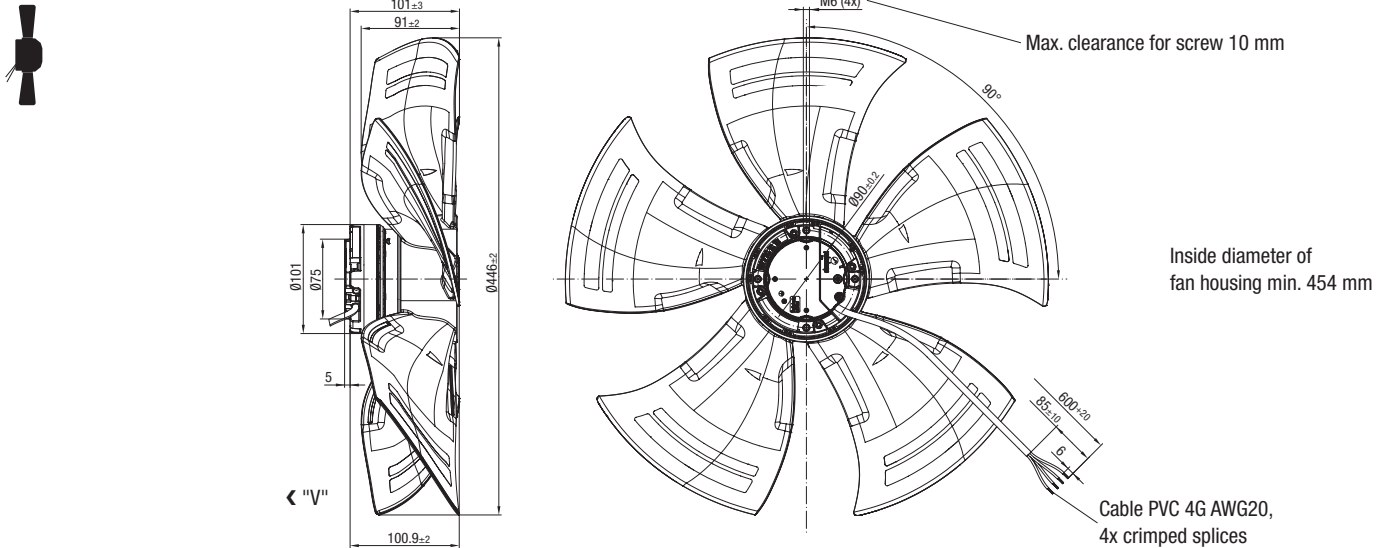
	n rpm	P_{ed} W	I A	L_{wA} dB(A)
(B) 1	1110	163	1,34	66
(B) 2	1060	163	1,34	64
(B) 3	1025	163	1,34	61
(B) 4	980	163	1,34	68
(C) 1	1500	396	1,73	74
(C) 2	1500	438	1,91	73
(C) 3	1500	479	2,09	71
(C) 4	1500	500	2,20	72
(D) 1	1550	457	0,73	74
(D) 2	1545	501	0,80	72
(D) 3	1530	519	0,82	71
(D) 4	1520	530	0,85	78

EC axial fans – HyBlade®

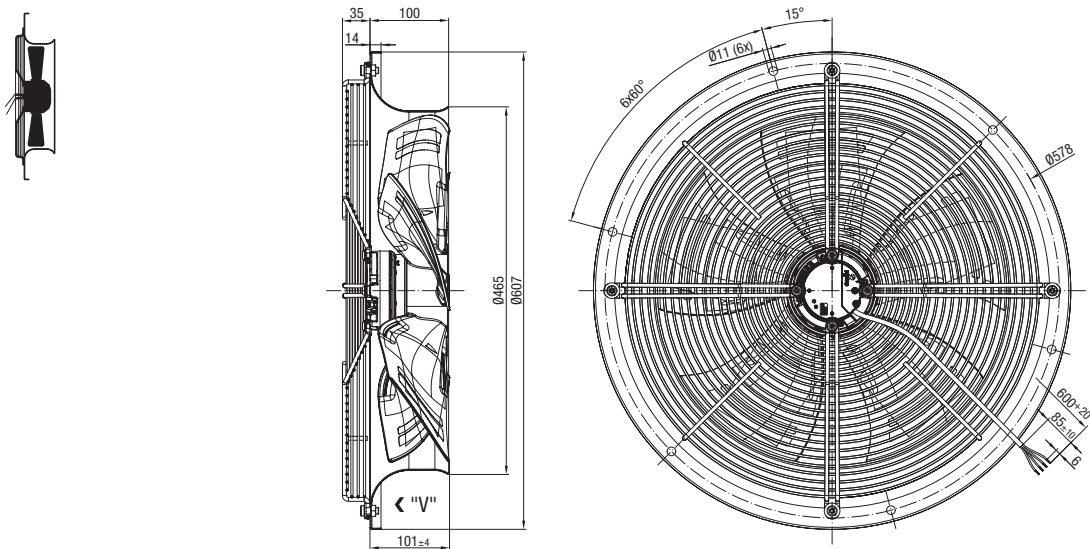
Ø 450 with motor M3G 074, 2 speed levels



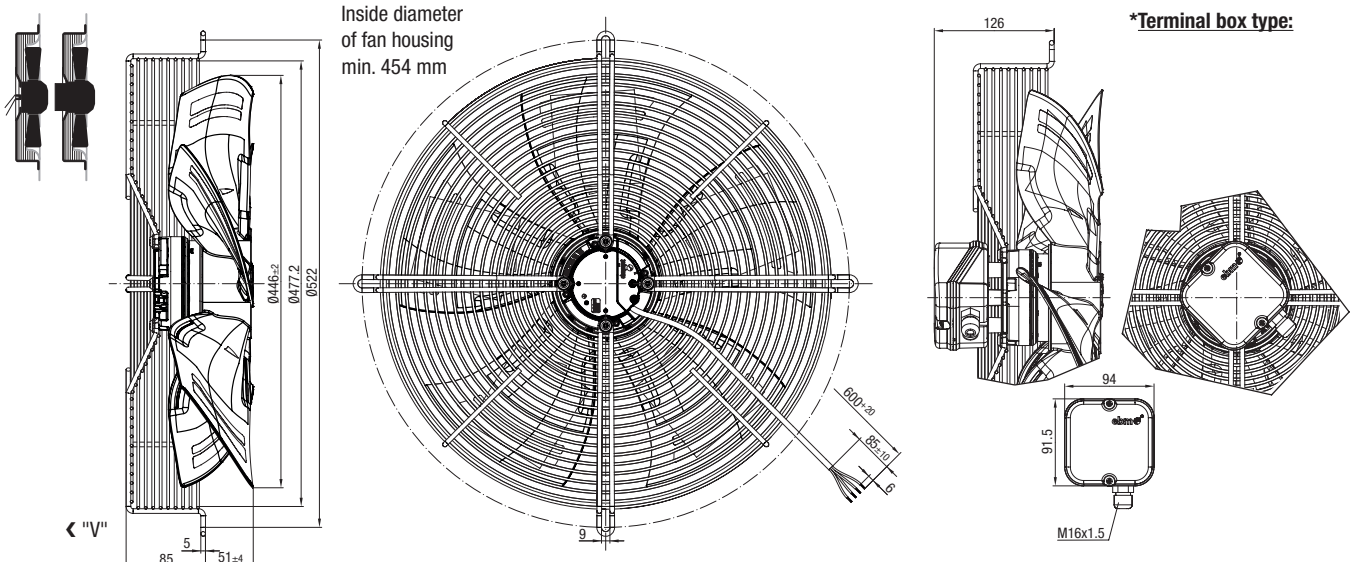
A3G 450-A002-01 (without attachments, airflow direction "V")



W3G 450-C002-30 (with round full nozzle, airflow direction "V")



S3G 450-A002-30 / S3G 450-A002-50* (with guard grille for short nozzle, airflow direction "V")



EC axial fans – HyBlade®

Ø 450 with motor M3G 074, open-loop speed control



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

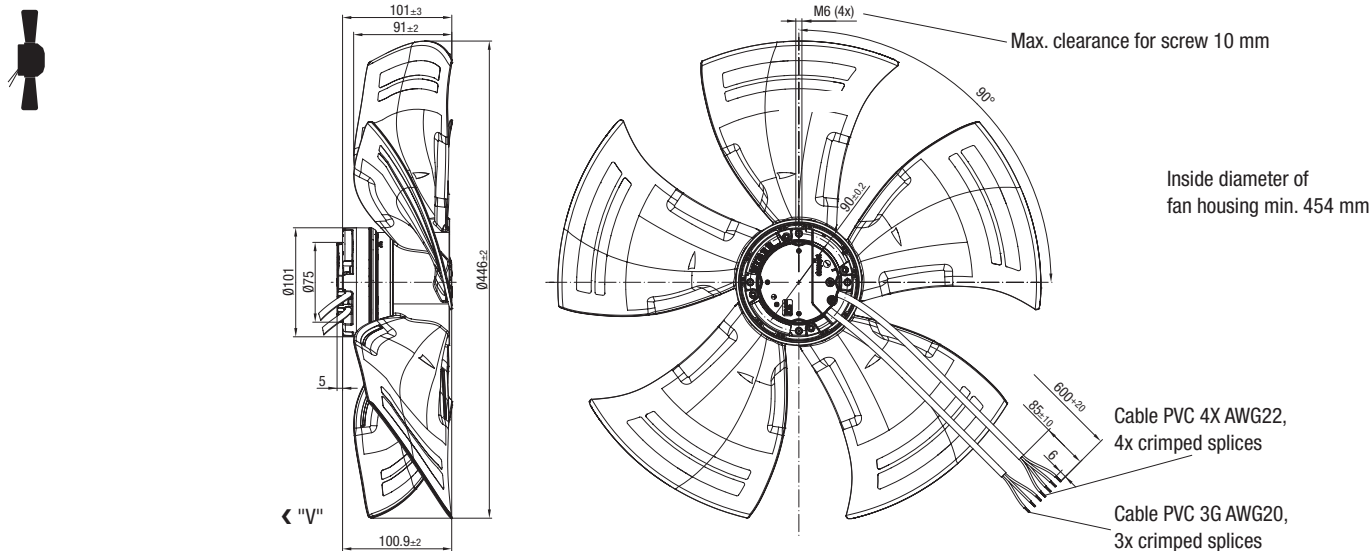
Ø 990

Ø 1250

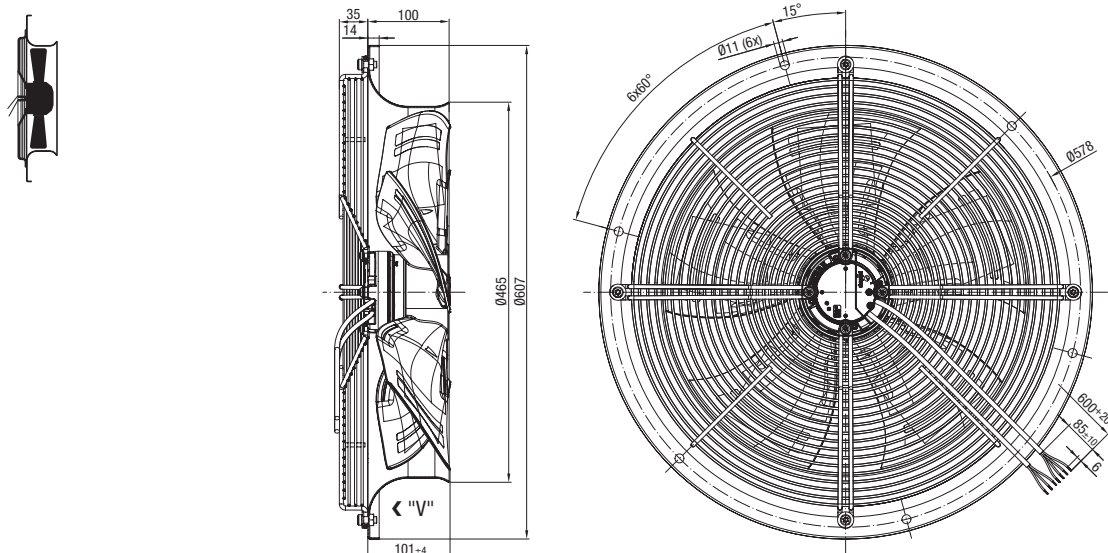
Technology

Agents

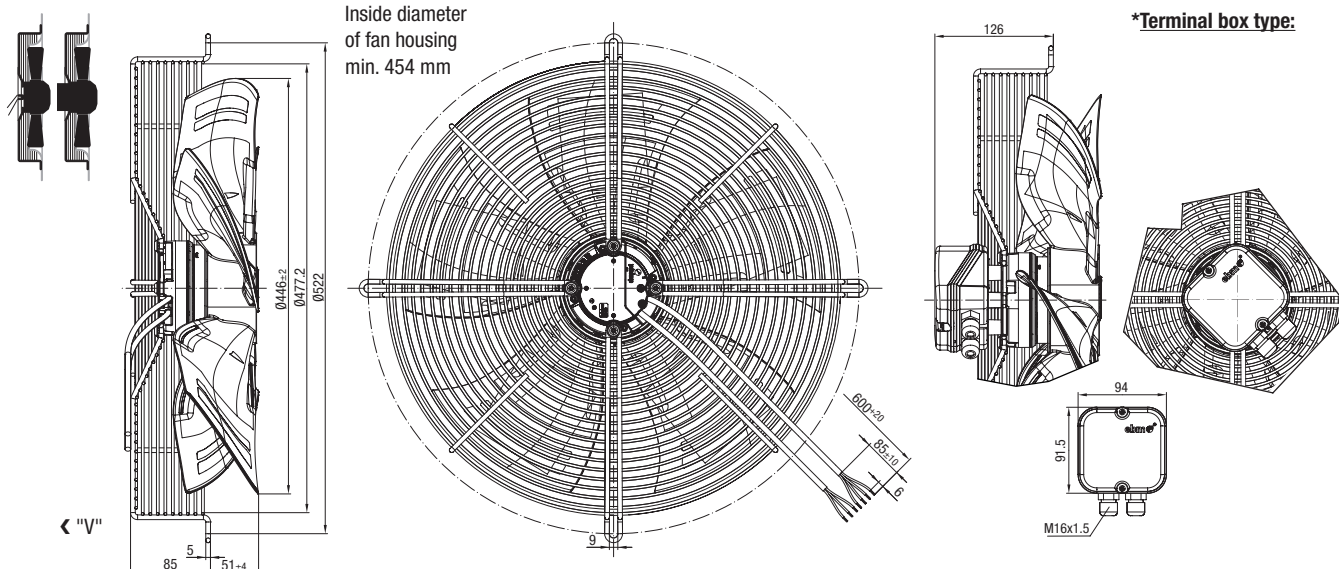
A3G 450-A002-03 (without attachments, airflow direction "V")



W3G 450-C002-32 (with round full nozzle, airflow direction "V")



S3G 450-A002-32 / S3G 450-A002-52* (with guard grille for short nozzle, airflow direction "V")

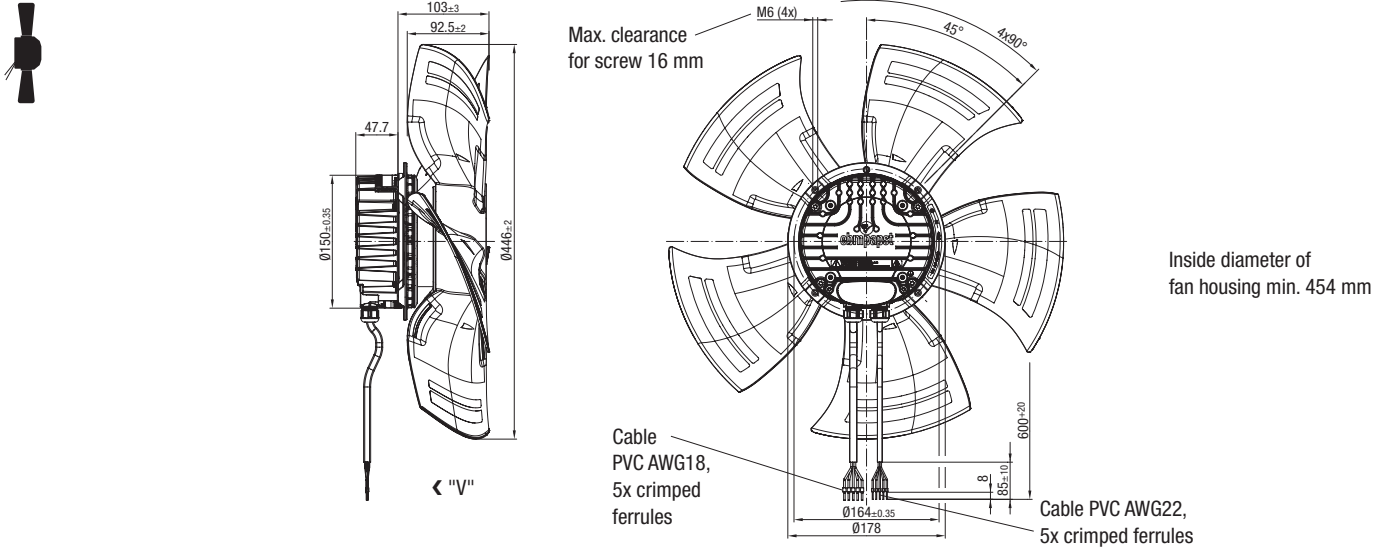


EC axial fans – HyBlade®

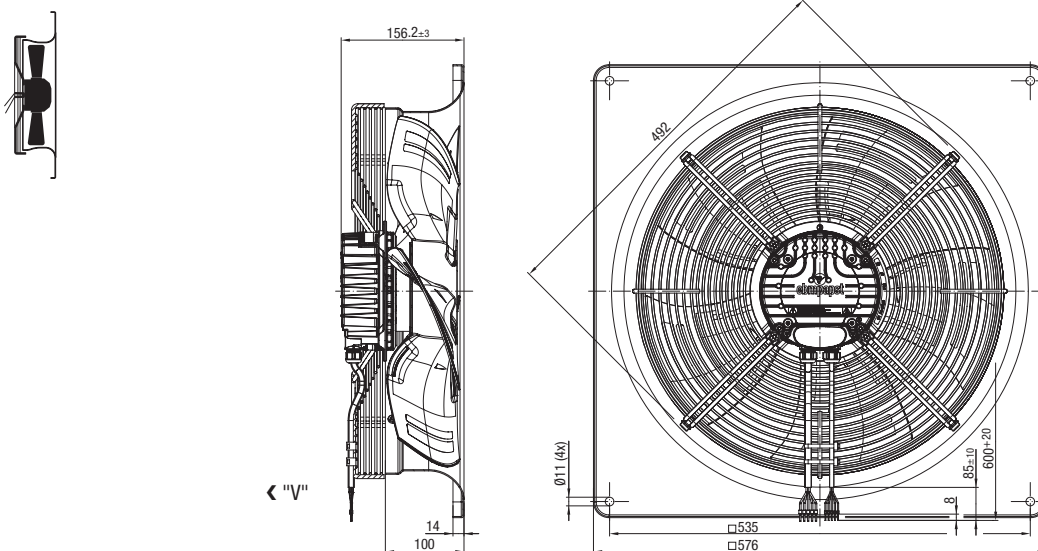
Ø 450 with motor M3G 084, 2 speed levels



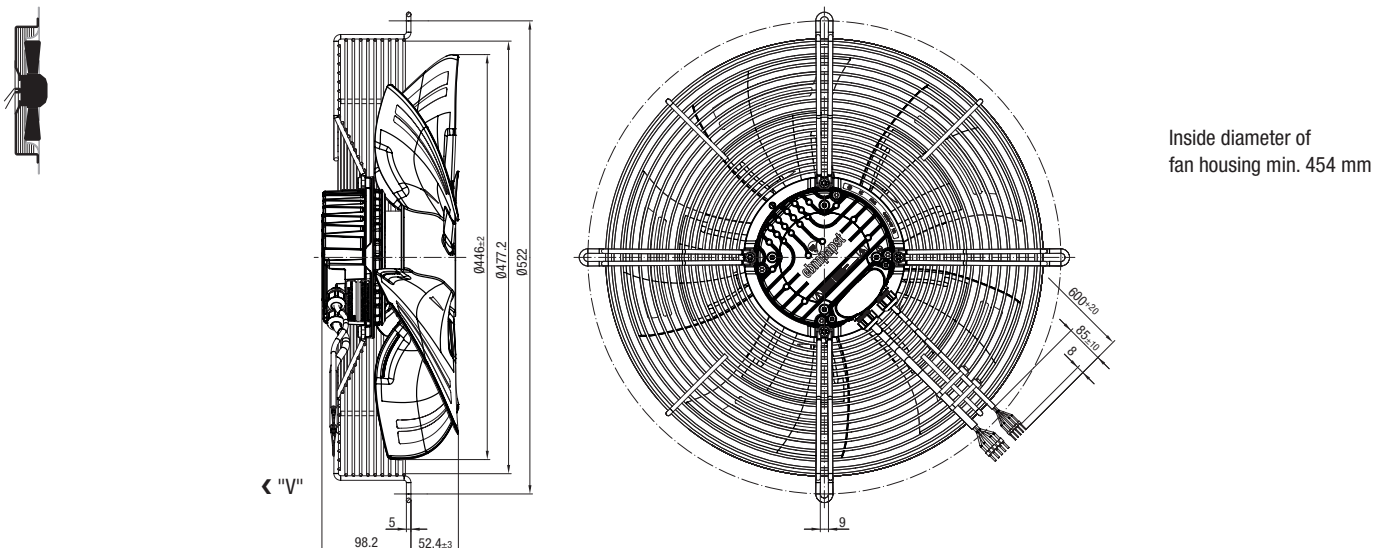
A3G 450-BL03-H1 (without attachments, airflow direction "V")



W3G 450-FL03-H1 (with square full nozzle, airflow direction "V")



S3G 450-LL03-H1 (with guard grille for short nozzle, airflow direction "V")



Inside diameter of fan housing min. 454 mm

EC axial fans – HyBlade®

Ø 450 with motor M3G 084, open-loop speed control



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

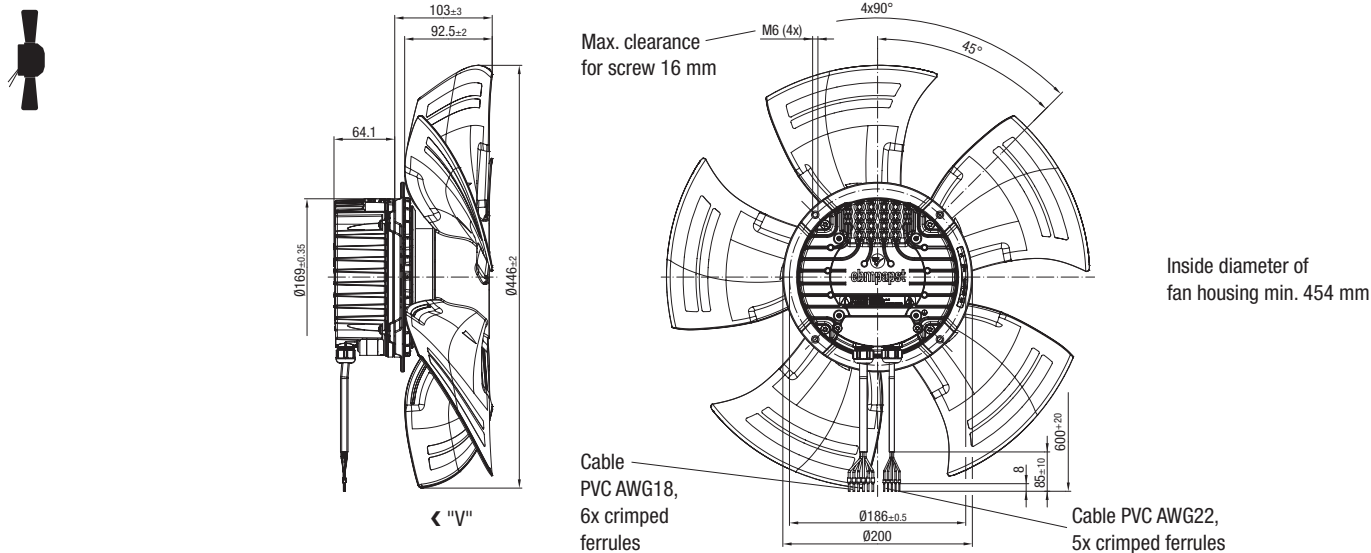
Ø 990

Ø 1250

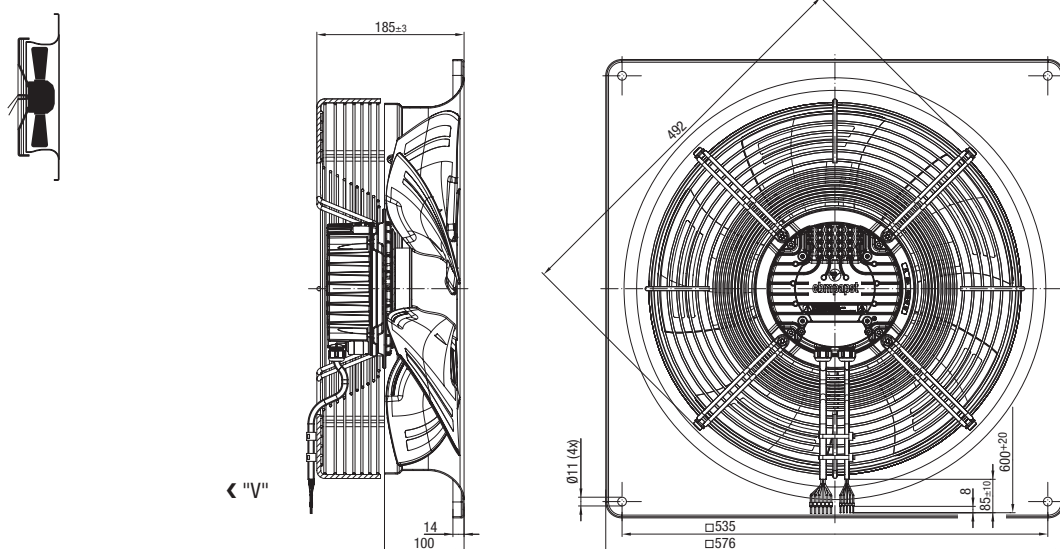
Technology

Agents

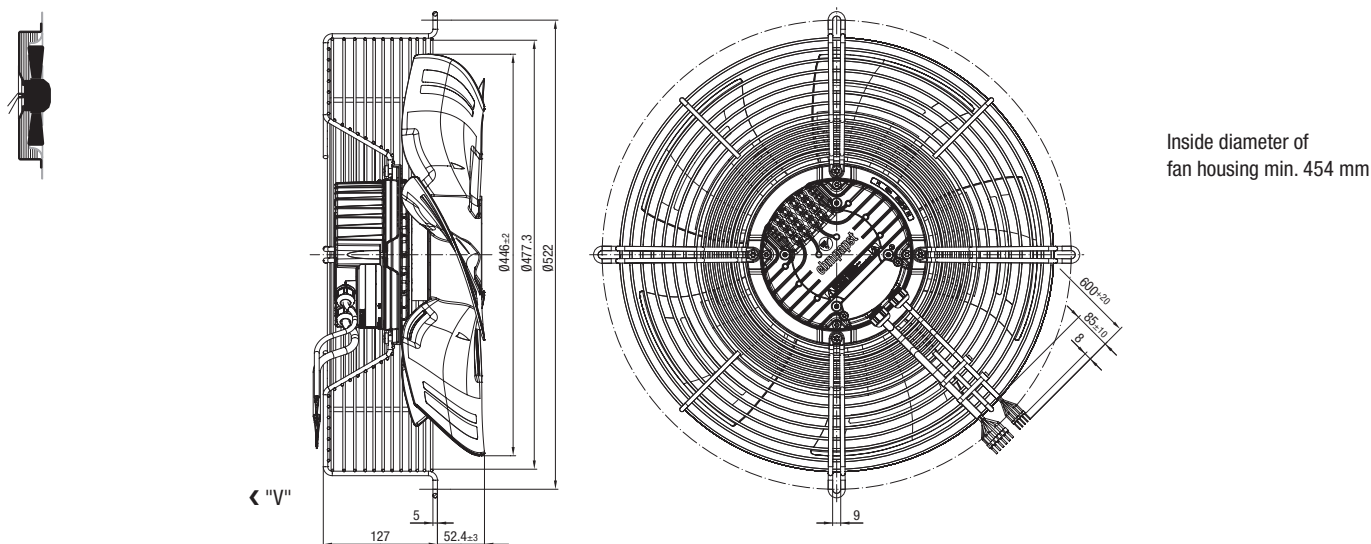
A3G 450-BL07-M1 (without attachments, airflow direction "V")



W3G 450-FL07-M1 (with square full nozzle, airflow direction "V")



S3G 450-LL07-M1 (with guard grille for short nozzle, airflow direction "V")





- **Material:** Guard grille: Steel, coated with black plastic (RAL 9005)
Fan housing: Sheet steel, galvanized and coated with black plastic (RAL 9005)
Blades, press-fitted sheet steel blank, over-molded with PP plastic
Rotor: Painted black
Electronics housing: Die-cast aluminum, painted black
- **Number of blades:** 5
- **Direction of rotation:** Counterclockwise viewed toward rotor
- **Degree of protection:** IP55
- **Insulation class:** "F"
- **Installation position:** Shaft horizontal or rotor on bottom, rotor on top on request
- **Condensation drainage holes:** Rotor side
- **Mode:** Continuous operation (S1)
- **Mounting:** Maintenance-free ball bearings

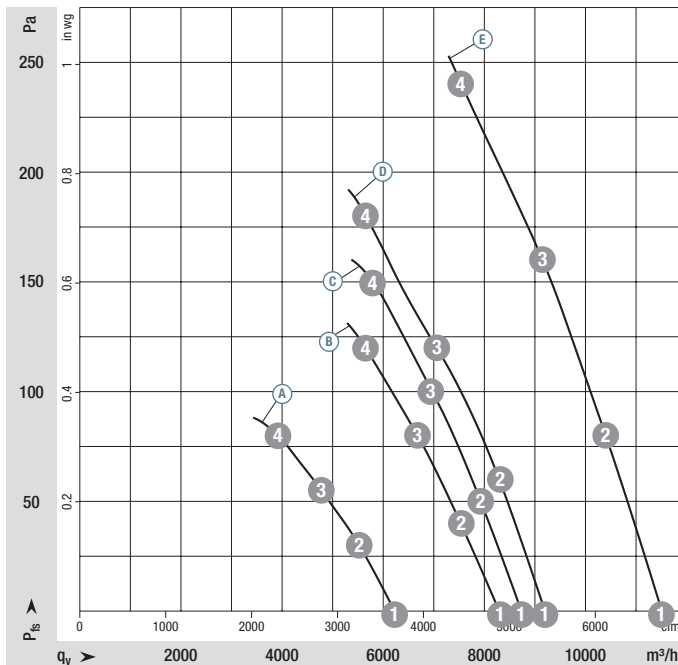
Nominal data		Curve	Nominal voltage range	Frequency	Speed ⁽¹⁾	Max. input power ⁽¹⁾	Max. input current ⁽¹⁾	Max. back pressure	Perm. ambient temp.	Techn. features and connection diagram
Type	Motor	VAC	Hz	rpm	W	A	Pa	°C		
*3G 500	M3G 084-DF	Ⓐ 1~200-277	50/60	970	250	1,10	80	-25..+60	P. 132 / P7)	
*3G 500	M3G 084-GF	Ⓑ 1~200-277	50/60	1260	500	2,20	120	-25..+60	P. 132 / P7)	
*3G 500	M3G 084-GF	Ⓒ 3~380-480	50/60	1370	630	1,00	150	-25 ⁽²⁾ ..+60	P. 133 / P8)	
*3G 500	M3G 112-EA	Ⓓ 1~200-277	50/60	1440	740	3,25	180	-25 ⁽²⁾ ..+60	P. 132 / P7)	
*3G 500	M3G 112-GA	Ⓔ 3~380-480	50/60	1770	1300	2,10	240	-25 ⁽²⁾ ..+60	P. 133 / P8)	

Subject to change

(1) Nominal data at operating point with maximum load and 230 or 400 VAC.

(2) Occasional start-up between -40°C and -25°C is permissible. Continuous operation below -25°C only possible with special low-temperature bearings (on request).

Curves:



Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection. Intake-side sound level: L_{wA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

	n rpm	P _{ed} W	I A	L _{wA} dB(A)
Ⓐ ①	970	177	0,82	68
Ⓐ ②	970	207	0,94	64
Ⓐ ③	970	228	1,03	62
Ⓐ ④	970	250	1,10	63
Ⓑ ①	1260	374	1,65	71
Ⓑ ②	1260	425	1,87	69
Ⓑ ③	1260	467	2,05	68
Ⓑ ④	1260	500	2,20	69
Ⓒ ①	1370	471	0,77	73
Ⓒ ②	1370	537	0,86	71
Ⓒ ③	1370	591	0,94	70
Ⓒ ④	1370	630	1,00	72
Ⓓ ①	1440	533	2,37	77
Ⓓ ②	1440	614	2,72	74
Ⓓ ③	1440	683	3,00	72
Ⓓ ④	1440	740	3,25	74
Ⓔ ①	1770	987	1,58	80
Ⓔ ②	1770	1094	1,75	78
Ⓔ ③	1770	1213	1,93	76
Ⓔ ④	1770	1300	2,10	78

- **Technical features:** See connection diagram P. 132 ff.
- **EMC:** Immunity to interference according to EN 61000-6-2 (industrial environment)
Circuit feedback according to EN 61000-3-2
Interference emission according to EN 61000-6-4 (industrial environment), according to household appliance standard on request
- **Touch current:** ≤ 3.5 mA according to IEC 60990 (measuring circuit Fig. 4)
- **Electrical connection:** Via terminal box
- **Protection class:** I (with customer connection of protective earth)
- **Conformity with standards:** (A) (B) EN 61800-5-1, EN 60335-1, CE
(C) (E) EN 61800-5-1, CE
(D) EN 61800-5-1, EN 60335-1 in preparation, CE
- **Approvals:** (B) EAC, UL; (A) (C) EAC, UL on request
(D) UL, CSA; (E) UL, CSA planned

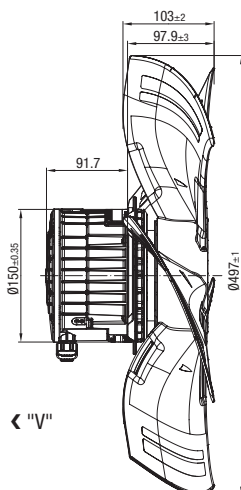
Airflow direction		Weight without attachments		Weight with square full nozzle		Weight with guard grille for short nozzle
	without attachments-	kg	with square full nozzle	kg	with guard grille for short nozzle	kg
"V"	A3G 500-BK07 -G1	4,80	W3G 500-GK07 -G1	11,30	S3G 500-AK07 -G1	7,40
"V"	A3G 500-BM06 -H1	5,70	W3G 500-GM06 -H1	12,30	S3G 500-AM06 -H1	8,30
"V"	A3G 500-BM03 -M1	6,00	W3G 500-GM03 -M1	13,30	S3G 500-AM03 -M1	9,50
"V"	A3G 500-BA74 -21	7,40	W3G 500-GA74 -21	14,40	S3G 500-AA74 -21	10,70
"V"	A3G 500-BD59 -01	8,90	W3G 500-GD59 -01	15,90	S3G 500-AD59 -01	12,20
Airflow direction "A" on request						

EC axial fans – HyBlade®

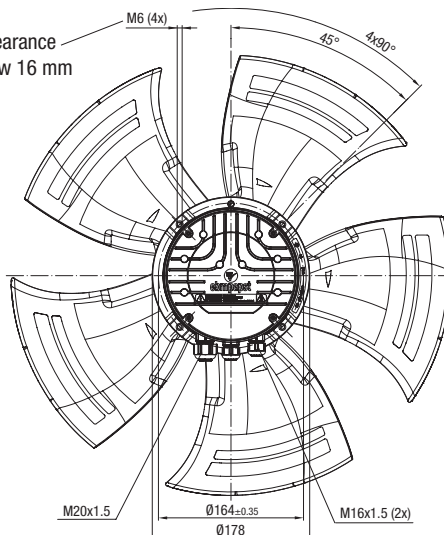
Ø 500 with motor M3G 084



A3G 500-BK07-G1 (without attachments, airflow direction "V")

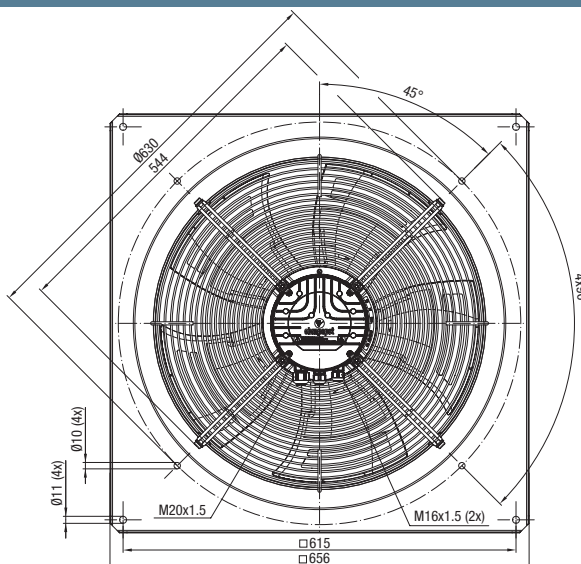
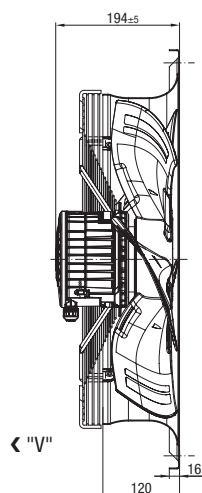


Max. clearance
for screw 16 mm

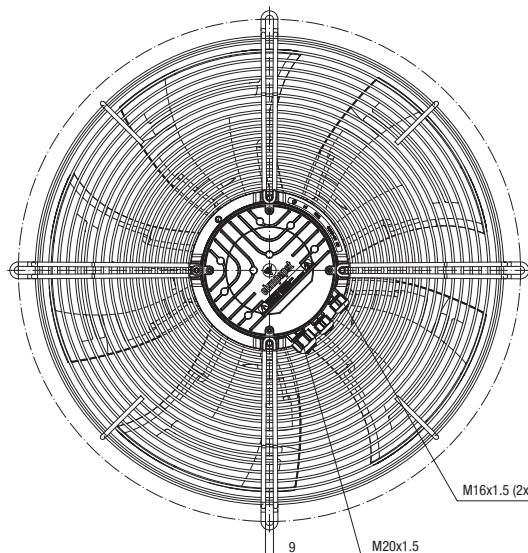
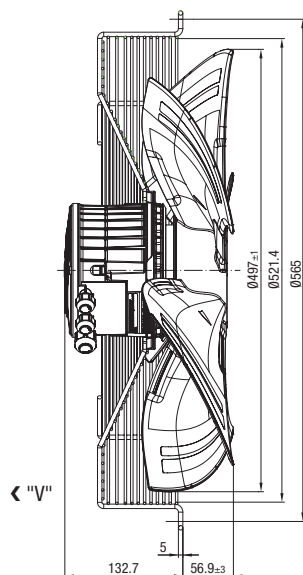


Inside diameter of
fan housing min. 503 mm

W3G 500-GK07-G1 (with square full nozzle, airflow direction "V")



S3G 500-AK07-G1 (with guard grille for short nozzle, airflow direction "V")



Inside diameter of
fan housing min. 503 mm

EC axial fans – HyBlade®

Ø 500 with motor M3G 084



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

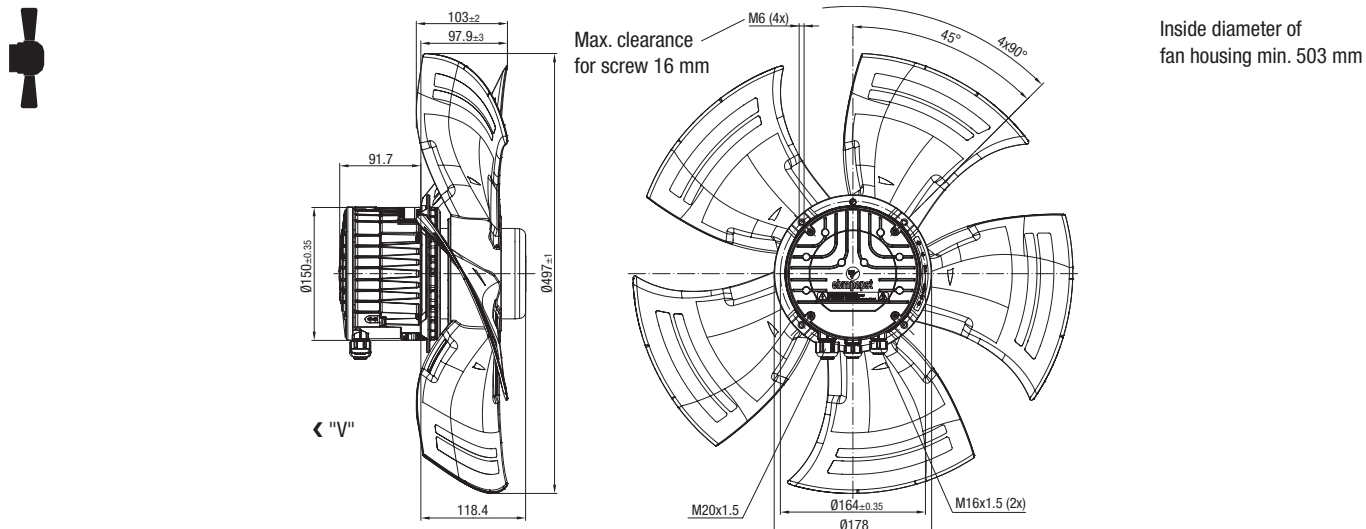
Ø 990

Ø 1250

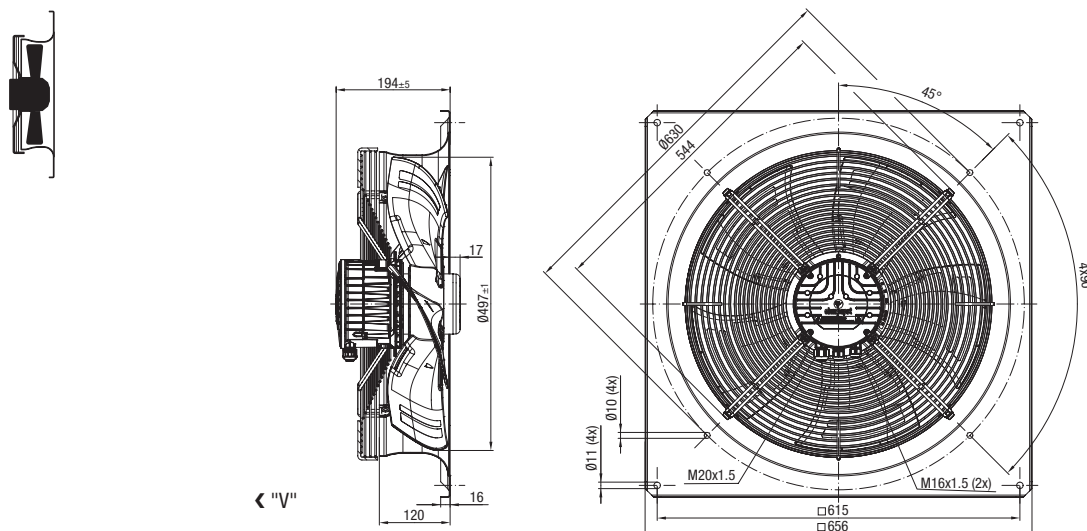
Technology

Agents

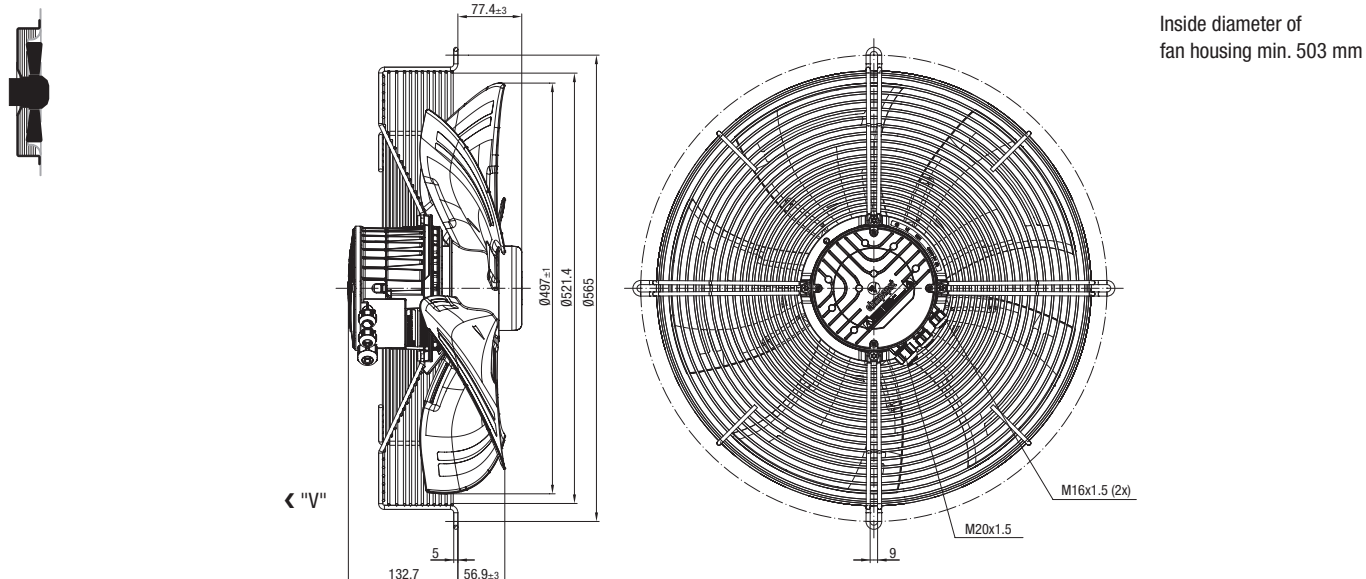
A3G 500-BM06-H1 (without attachments, airflow direction "V")



W3G 500-GM06-H1 (with square full nozzle, airflow direction "V")



S3G 500-AM06-H1 (with guard grille for short nozzle, airflow direction "V")

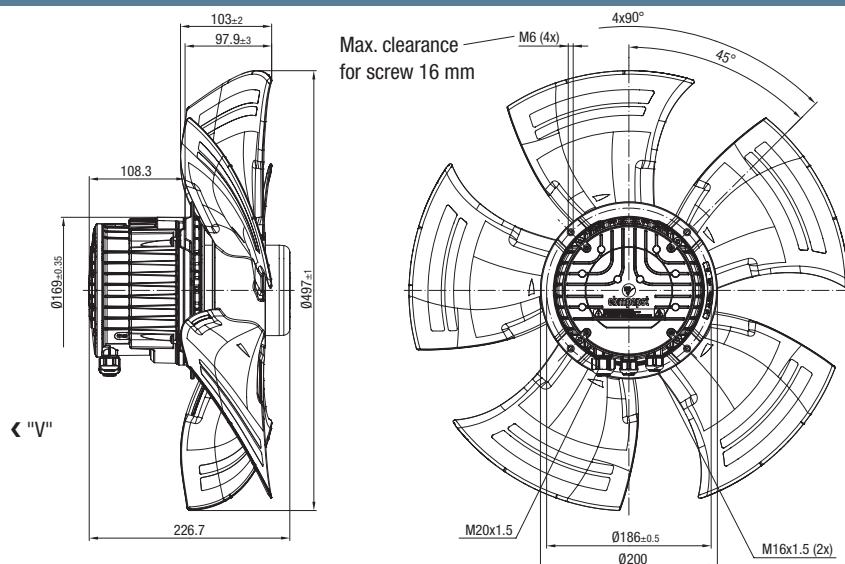


EC axial fans – HyBlade®

Ø 500 with motor M3G 084

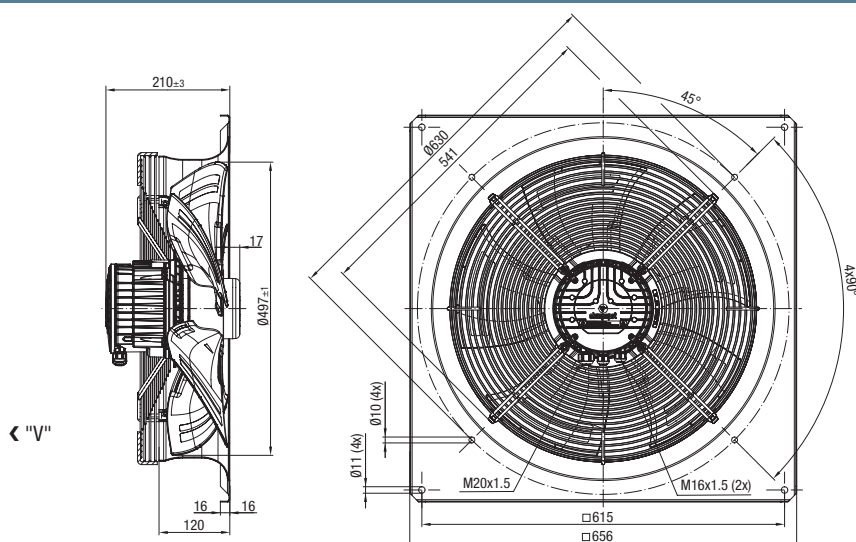


A3G 500-BM03-M1 (without attachments, airflow direction "V")

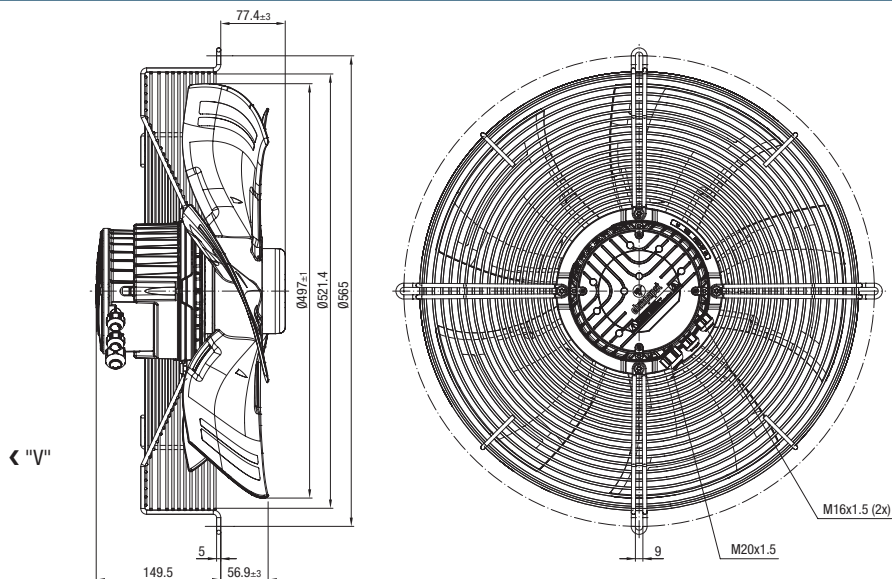


Inside diameter of fan housing min. 503 mm

W3G 500-GM03-M1 (with square full nozzle, airflow direction "V")



S3G 500-AM03-M1 (with guard grille for short nozzle, airflow direction "V")



Inside diameter of fan housing min. 503 mm

EC axial fans – HyBlade®

Ø 500 with motor M3G 112



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

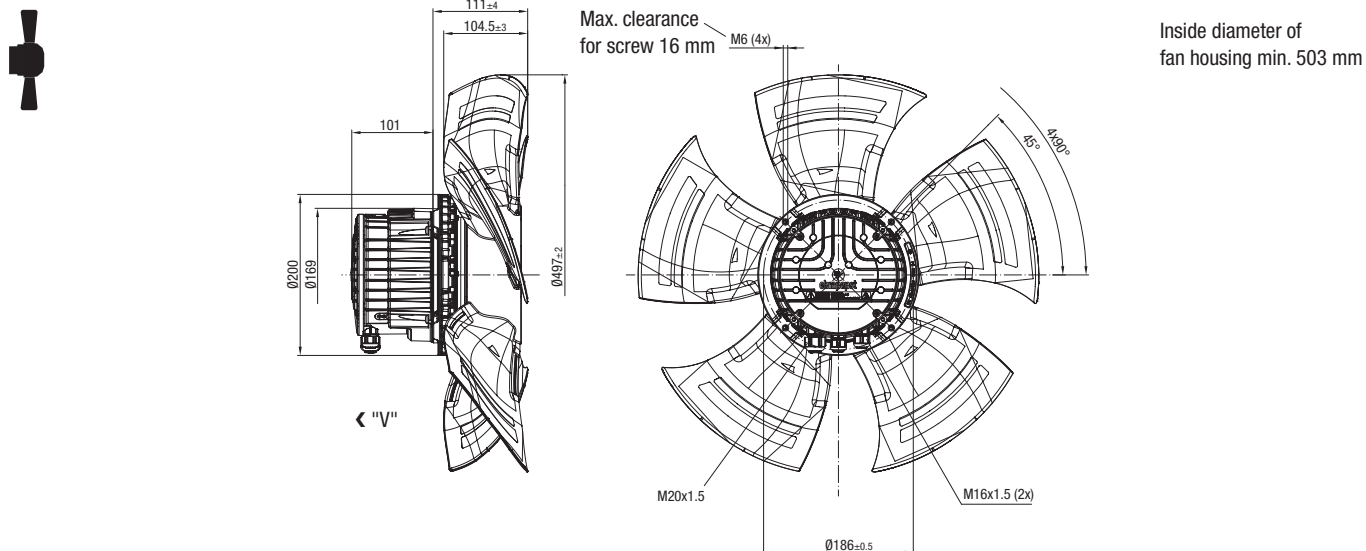
Ø 990

Ø 1250

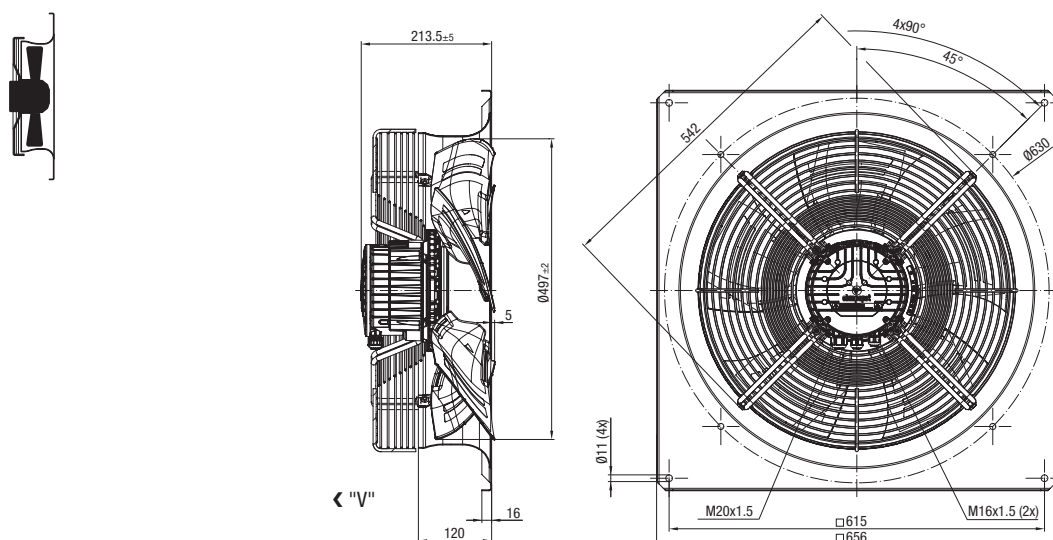
Technology

Agents

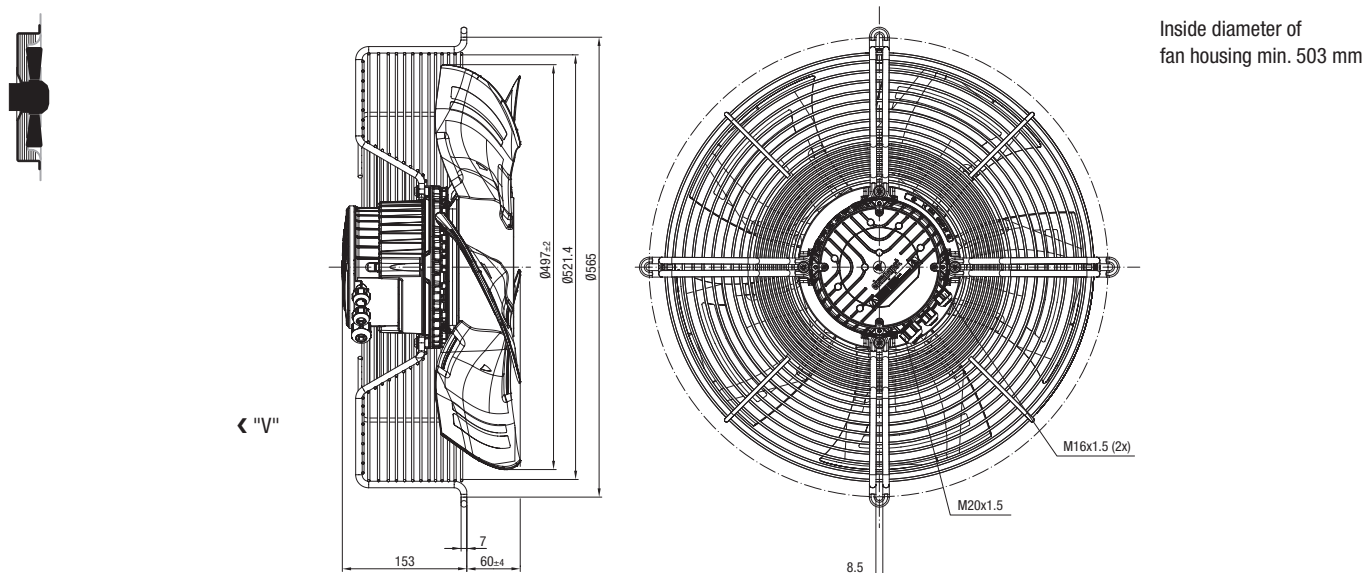
A3G 500-BA74-21 (without attachments, airflow direction "V")



W3G 500-GA74-21 (with square full nozzle, airflow direction "V")



S3G 500-AA74-21 (with guard grille for short nozzle, airflow direction "V")

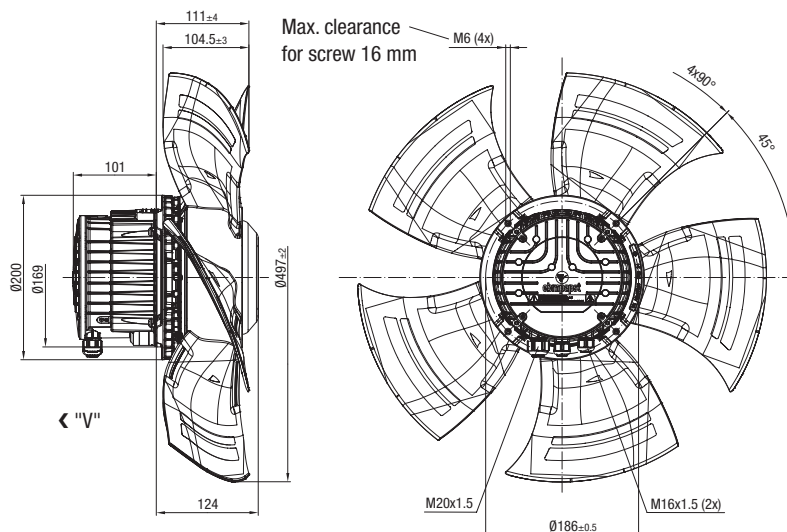


EC axial fans – HyBlade®

Ø 500 with motor M3G 112

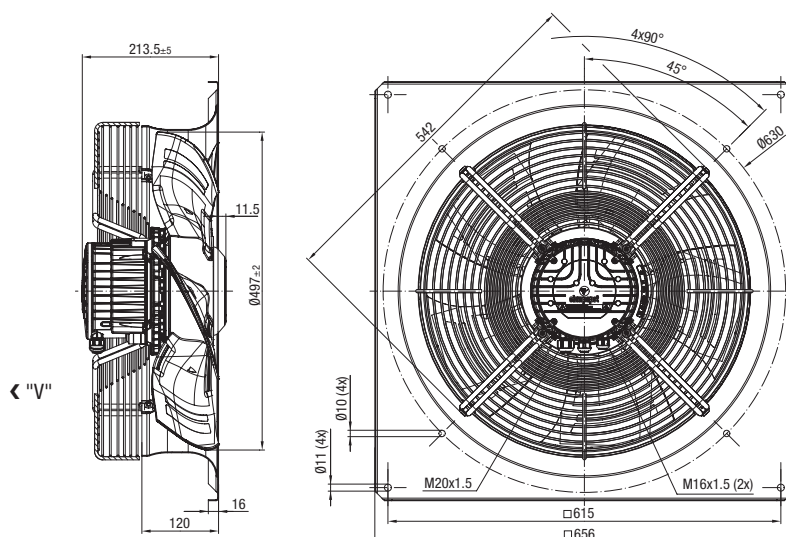


A3G 500-BD59-01 (without attachments, airflow direction "V")

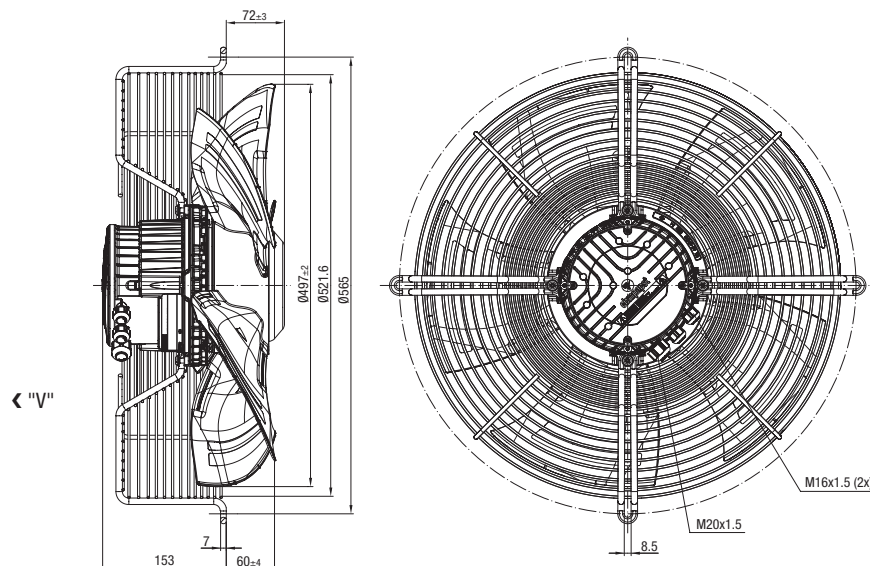


Inside diameter of fan housing min. 503 mm

W3G 500-GD59-01 (with square full nozzle, airflow direction "V")



S3G 500-AD59-01 (with guard grille for short nozzle, airflow direction "V")



Inside diameter of fan housing min. 503 mm

Agents	Technology	Ø 1250	Ø 990	Ø 910	Ø 800	Ø 710	Ø 630	Ø 560	Ø 500	Ø 450	Ø 400	Ø 350	Ø 300	Ø 250	Ø 200	Information
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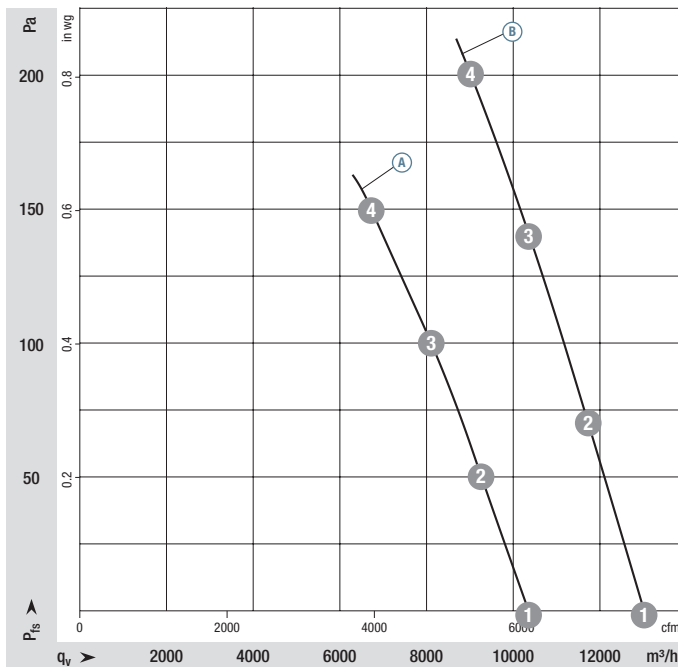
- **Material:** Guard grille: Steel, coated with black plastic (RAL 9005)
Fan housing: Sheet steel, galvanized and coated with black plastic (RAL 9005)
Blades: Sheet aluminum insert, over-molded with PP plastic
Rotor: Painted black
Electronics housing: Die-cast aluminum, painted black
- **Number of blades:** 5
- **Direction of rotation:** Counterclockwise viewed toward rotor
- **Degree of protection:** IP55
- **Insulation class:** "F"
- **Installation position:** Shaft horizontal or rotor on bottom, rotor on top on request
- **Condensation drainage holes:** Rotor side
- **Mode:** Continuous operation (S1)
- **Mounting:** Maintenance-free ball bearings

Nominal data		Blade pitch	Curve	Nominal voltage range	Frequency	Speed ⁽¹⁾	Max. input power ⁽¹⁾	Max. input current ⁽¹⁾	Max. back pressure	Perm. ambient temp.	Techn. features and connection diagram
Type	Motor			VAC	Hz	rpm	W	A	Pa	°C	
*3G 560	M3G 112-EA	-5°	A	1~200-277	50/60	1230	735	3,20	150	-25 ⁽²⁾ ...+60	P. 132 / P7)
*3G 560	M3G 112-IA	-5°	B	3~380-480	50/60	1520	1300	2,10	200	-25 ⁽²⁾ ...+60	P. 133 / P8)

Subject to change

(1) Nominal data at operating point with maximum load and 230 or 400 VAC.
(2) Occasional start-up between -40°C and -25°C is permissible. Continuous operation below -25°C only possible with special low-temperature bearings (on request).

Curves:



	n rpm	P _{ed} W	I A	L _{WA} dB(A)
(A) 1	1230	531	2,38	73
(A) 2	1230	606	2,70	72
(A) 3	1230	668	2,96	71
(A) 4	1230	735	3,20	74
(B) 1	1520	958	1,51	77
(B) 2	1520	1097	1,72	76
(B) 3	1520	1207	1,89	75
(B) 4	1520	1300	2,10	78

Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection.
Intake-side sound level: L_{WA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

- **Technical features:** See connection diagram P. 132 ff.
- **EMC:** Immunity to interference according to EN 61000-6-2 (industrial environment)
Circuit feedback according to EN 61000-3-2
Interference emission according to EN 61000-6-4 (industrial environment), according to household appliance standard on request
- **Touch current:** ≤ 3.5 mA according to IEC 60990 (measuring circuit Fig. 4)
- **Electrical connection:** Via terminal box
- **Protection class:** I (with customer connection of protective earth)
- **Conformity with standards:** EN 61800-5-1, CE; EN 60335-1 in preparation
- **Approvals:**  EAC, UL, CSA
 EAC; UL, CSA planned

Airflow direction		Weight without attachments		Weight with square full nozzle		Weight with guard grille for short nozzle
	without attachments-	kg	with square full nozzle	kg	with guard grille for short nozzle	kg
"V"	A3G 560-BB78 -21	8,50	W3G 560-GB78 -21	20,20	S3G 560-AB78 -21	12,80
"V"	A3G 560-BH99 -01	11,10	W3G 560-GH99 -01	22,80	S3G 560-AH99 -01	15,40

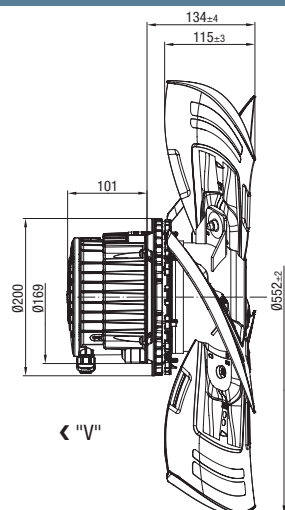
Airflow direction "A" on request

EC axial fans – HyBlade®

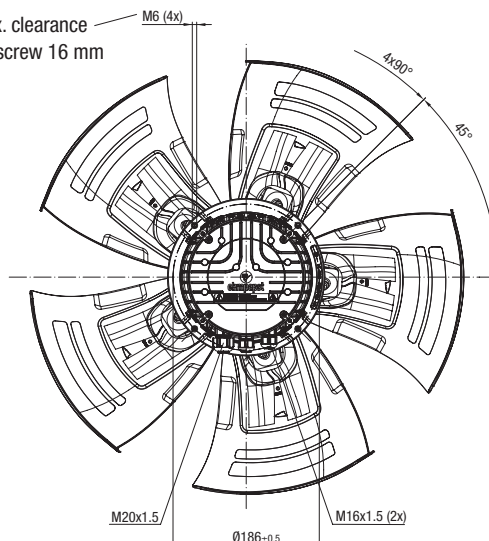
Ø 560 with motor M3G 112



A3G 560-BB78-21 (without attachments, airflow direction "V")

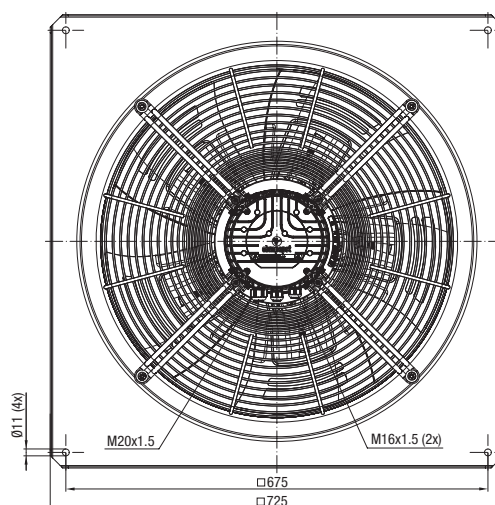
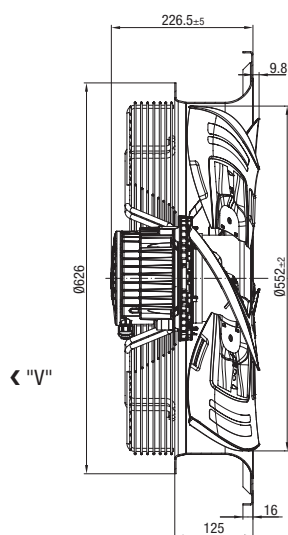


Max. clearance
for screw 16 mm

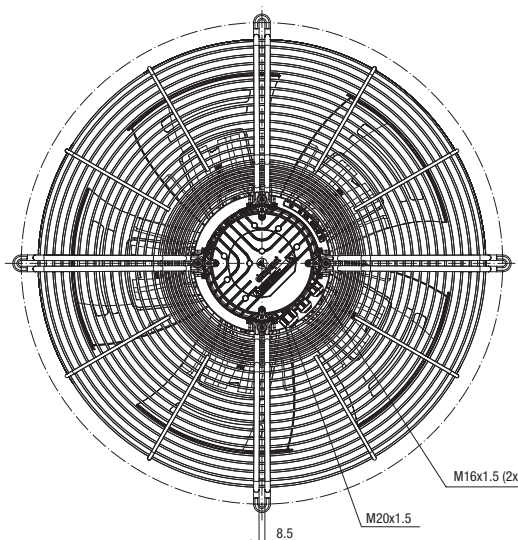
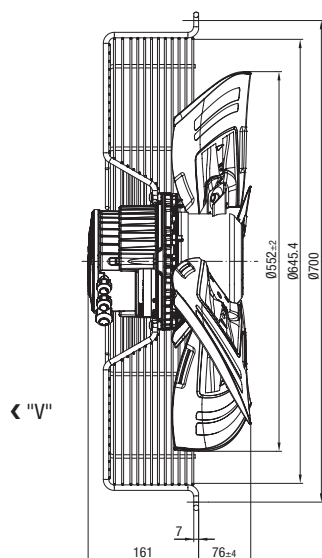


Inside diameter of
fan housing min. 559 mm

W3G 560-GB78-21 (with square full nozzle, airflow direction "V")



S3G 560-AB78-21 (with guard grille for short nozzle, airflow direction "V")



Inside diameter of
fan housing min. 559 mm

EC axial fans – HyBlade®

Ø 560 with motor M3G 112



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

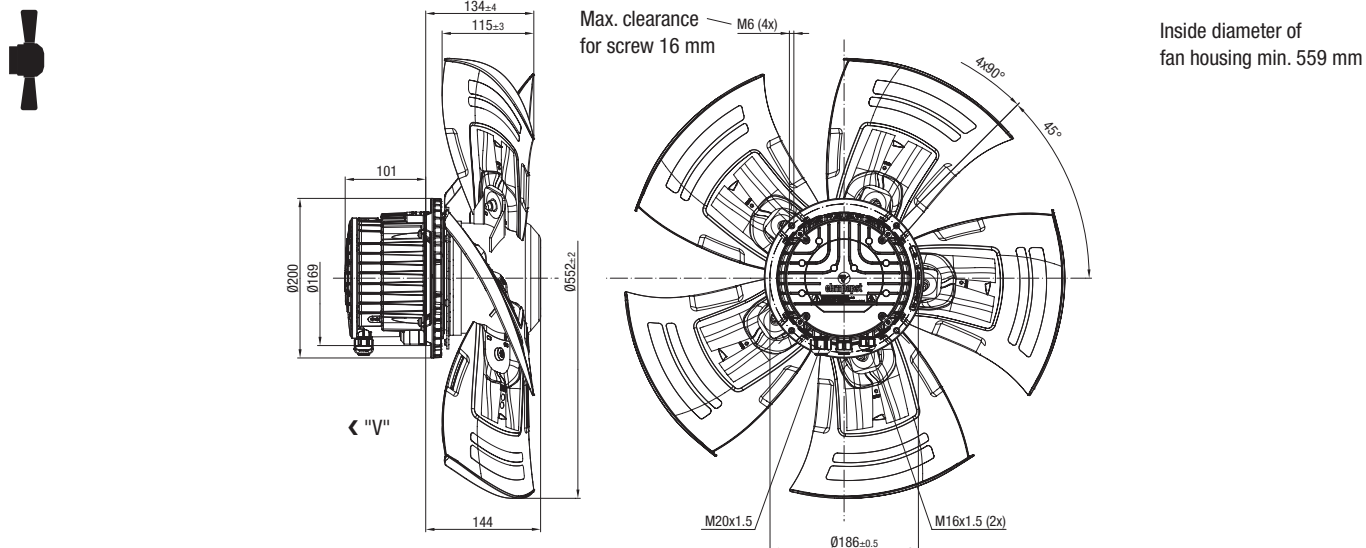
Ø 990

Ø 1250

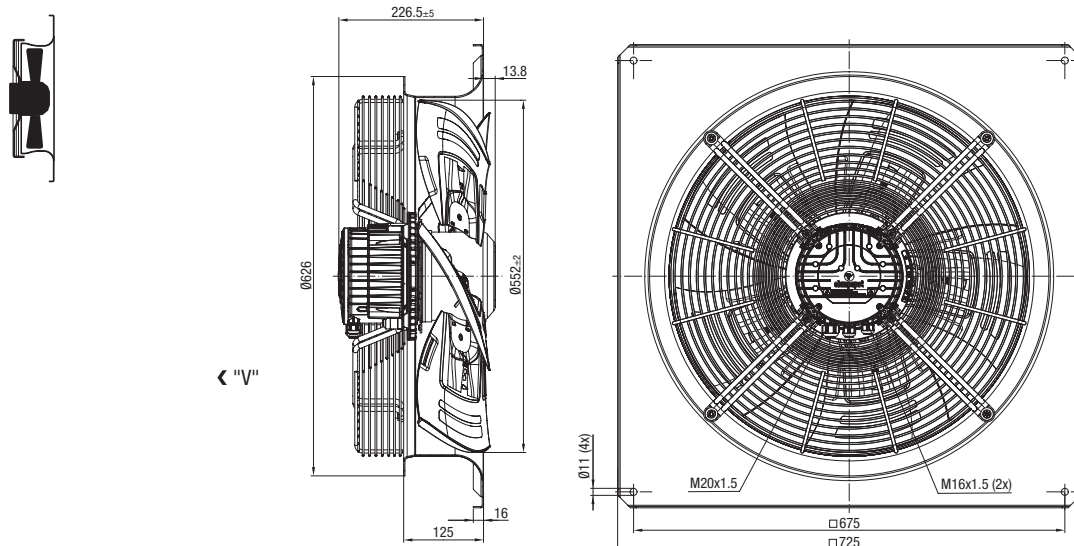
Technology

Agents

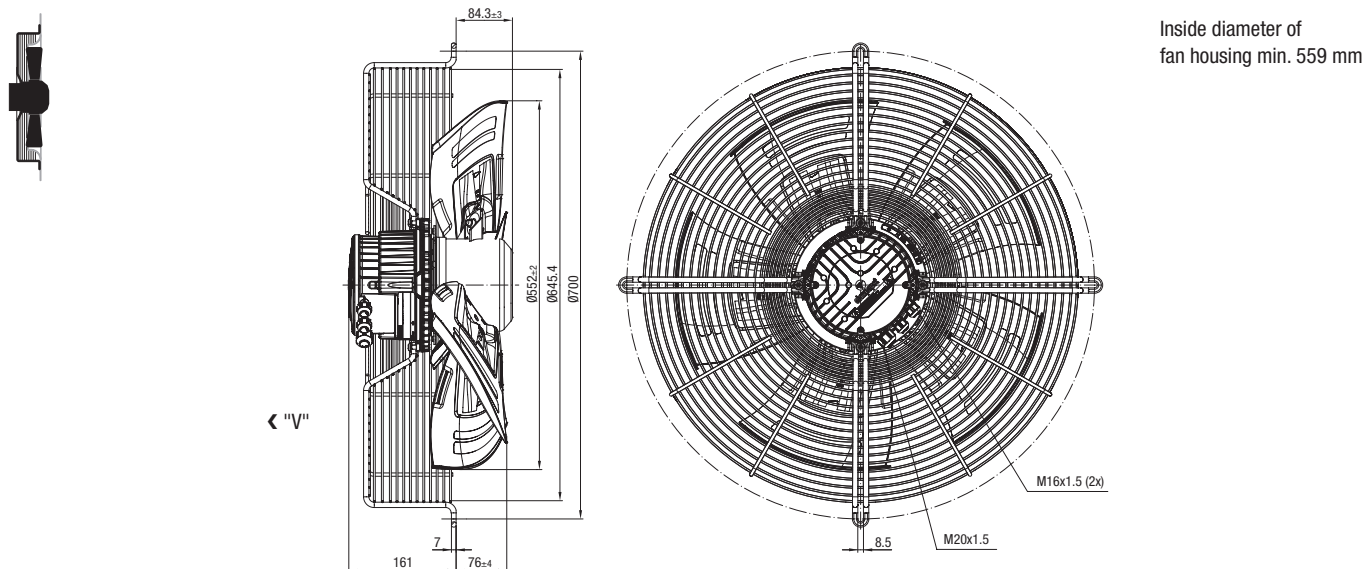
A3G 560-BH99-01 (without attachments, airflow direction "V")



W3G 560-GH99-01 (with square full nozzle, airflow direction "V")



S3G 560-AH99-01 (with guard grille for short nozzle, airflow direction "V")





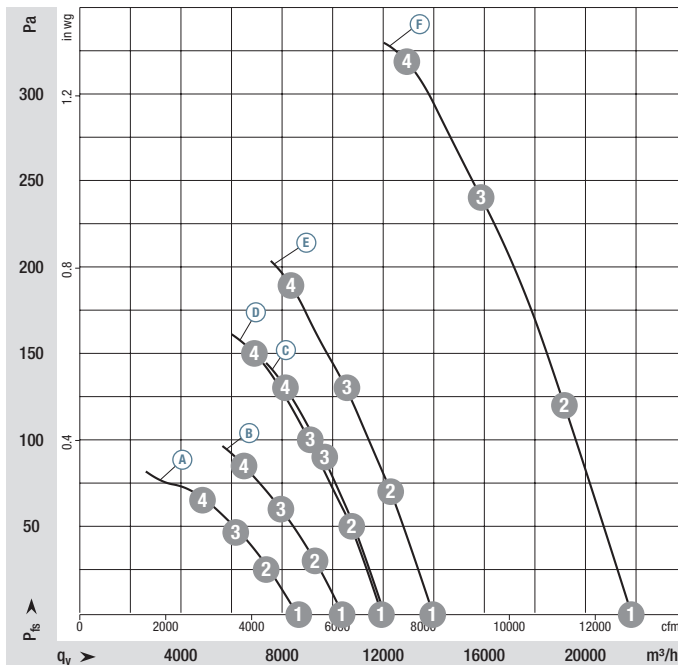
- **Material:** Guard grille: Steel, coated with black plastic (RAL 9005)
Fan housing: Sheet steel, galvanized and coated with black plastic (RAL 9005)
Blades (5): (A) to (E) Press-fitted sheet steel blank, over-molded with PP plastic
(F) Aluminum insert, over-molded with PP plastic
Rotor: Painted black
Electronics housing: Die-cast aluminum, painted black
- **Direction of rotation:** (A) to (E) counterclockwise, (F) clockwise, viewed toward rotor
- **Degree of protection:** IP55
- **Insulation class:** "F"
- **Installation position:** Shaft horizontal or rotor on bottom, rotor on top on request
- **Condensation drainage holes:** Rotor side
- **Mode:** Continuous operation (S1)
- **Mounting:** Maintenance-free ball bearings

Nominal data		Blade pitch	Curve	Nominal voltage range	Frequency	Speed ⁽¹⁾	Max. input power ⁽¹⁾	Max. input current ⁽¹⁾	Max. back pressure	Perm. ambient temp.	Techn. features and connection diagram
Type	Motor			VAC	Hz	rpm	W	A	Pa	°C	
*3G 630	M3G 084-FA	---	(A)	1~200-277	50/60	770	240	1,00	65	-25...+60	P. 132 / P7)
*3G 630	M3G 084-GF	---	(B)	1~200-277	50/60	900	390	1,70	85	-25...+60	P. 132 / P7)
*3G 630	M3G 112-GA	---	(C)	3~380-480	50/60	1000	700	1,10	130	-25 ⁽²⁾ ...+60	P. 133 / P8)
*3G 630	M3G 112-GA	---	(D)	1~200-277	50/60	1020	730	3,20	150	-25 ⁽²⁾ ...+60	P. 132 / P7)
*3G 630	M3G 112-IA	---	(E)	3~380-480	50/60	1160	1080	1,70	190	-25 ⁽²⁾ ...+60	P. 133 / P8)
*3G 630	M3G 150-IF	0°	(F)	3~380-480	50/60	1510	3250	5,00	320	-25 ⁽²⁾ ...+65	P. 134 / M5)

Subject to change

(1) Nominal data at operating point with maximum load and 230 or 400 VAC.
(2) Occasional start-up between -40°C and -25°C is permissible. Continuous operation below -25°C only possible with special low-temperature bearings (on request).

Curves:



Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection. Intake-side sound level: L_{WA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

	n rpm	P _{ed} W	I A	L _{WA} dB(A)
(A) 1	770	152	0,68	62
(A) 2	770	190	0,84	61
(A) 3	770	218	0,96	62
(A) 4	770	240	1,00	64
(B) 1	900	258	1,15	66
(B) 2	900	311	1,38	66
(B) 3	900	357	1,57	65
(B) 4	900	390	1,70	68
(C) 1	1000	473	0,77	75
(C) 2	1000	561	0,90	71
(C) 3	1000	629	1,01	69
(C) 4	1000	700	1,10	70
(D) 1	1020	463	2,08	76
(D) 2	1020	555	2,47	72
(D) 3	1020	648	2,86	70
(D) 4	1020	730	3,20	73

- **Technical features:** See connection diagram P. 132 ff.
- **EMC:** Immunity to interference according to EN 61000-6-2 (industrial environment)
Circuit feedback according to EN 61000-3-2
Interference emission according to EN 61000-6-4 (industrial environment), according to household appliance standard on request
- **Touch current:** ≤ 3.5 mA according to IEC 60990 (measuring circuit Fig. 4)
- **Electrical connection:** Via terminal box
- **Protection class:** I (with customer connection of protective earth)
- **Conformity with standards:** (A) (B) EN 61800-5-1, EN 60335-1, CE
(C) (D) (E) EN 61800-5-1, CE; EN 60335-1 in preparation
(F) EN 61800-5-1, CE
- **Approvals:** (A) EAC, UL on request; (B) EAC, UL
(D) UL, CSA; (C) (E) UL, CSA planned; (F) EAC

Airflow direction		Weight without attachments		Weight with square full nozzle		Weight with guard grille for short nozzle
	without attachments-	kg	with square full nozzle	kg	with guard grille for short nozzle	kg
"V"	A3G 630-BL06 -G1	5,50	W3G 630-GL06 -G1	20,00	S3G 630-AL06 -G1	11,10
"V"	A3G 630-BM07 -H1	5,90	W3G 630-GM07 -H1	20,40	S3G 630-AM07 -H1	11,40
"V"	A3G 630-BE55 -51	9,60	W3G 630-GE55 -51	23,60	S3G 630-AE55 -51	14,90
"V"	A3G 630-BE55 -21	9,60	W3G 630-GE55 -21	23,60	S3G 630-AE55 -21	14,90
"V"	A3G 630-BG97 -01	11,20	W3G 630-GG97 -01	25,20	S3G 630-AG97 -01	16,50
"V"	A3G 630-AU31 -71	25,40	W3G 630-GU31 -71	40,00	S3G 630-AU31 -71	33,00
Airflow direction "A" on request						

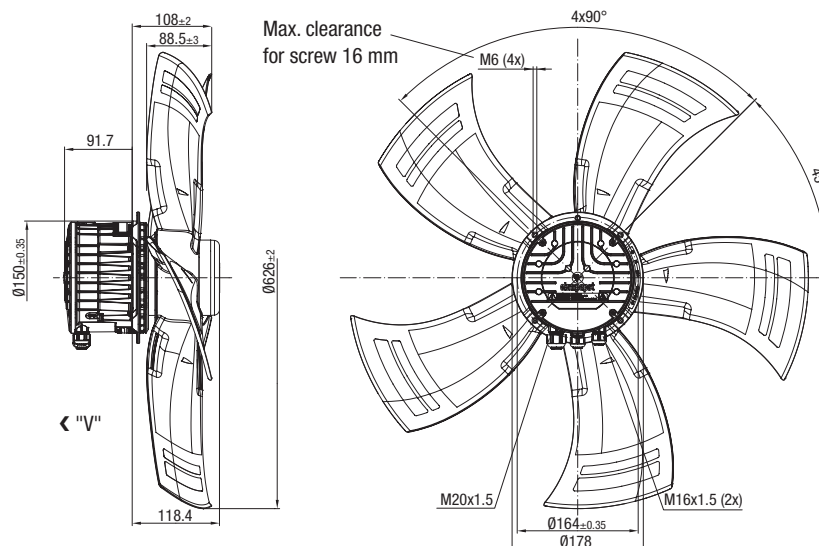
	n rpm	P _{ed} W	I A	L _{WA} dB(A)
(E) ①	1160	696	1,13	77
(E) ②	1160	836	1,35	74
(E) ③	1160	951	1,53	72
(E) ④	1160	1080	1,70	75
(F) ①	1510	2516	3,89	82
(F) ②	1510	2802	4,30	81
(F) ③	1510	3077	4,70	82
(F) ④	1510	3250	5,00	87

EC axial fans – HyBlade®

Ø 630 with motor M3G 084

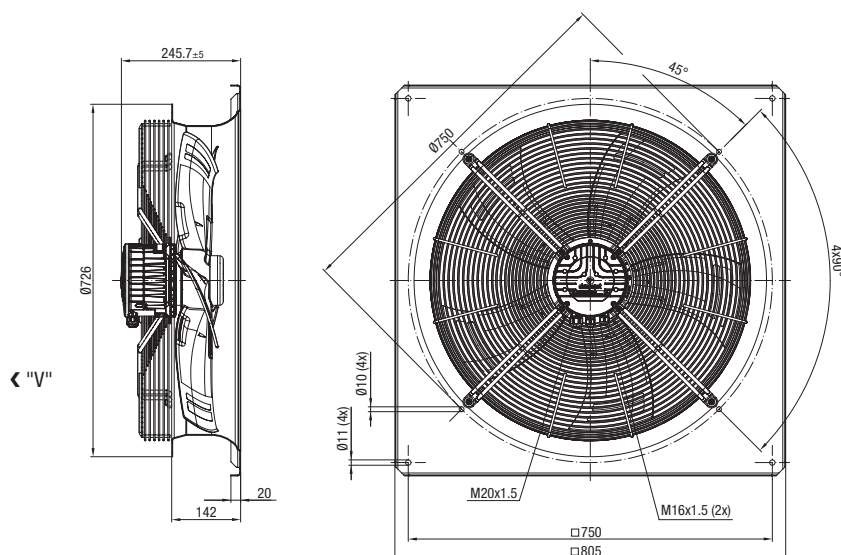


A3G 630-BL06-G1 (without attachments, airflow direction "V")

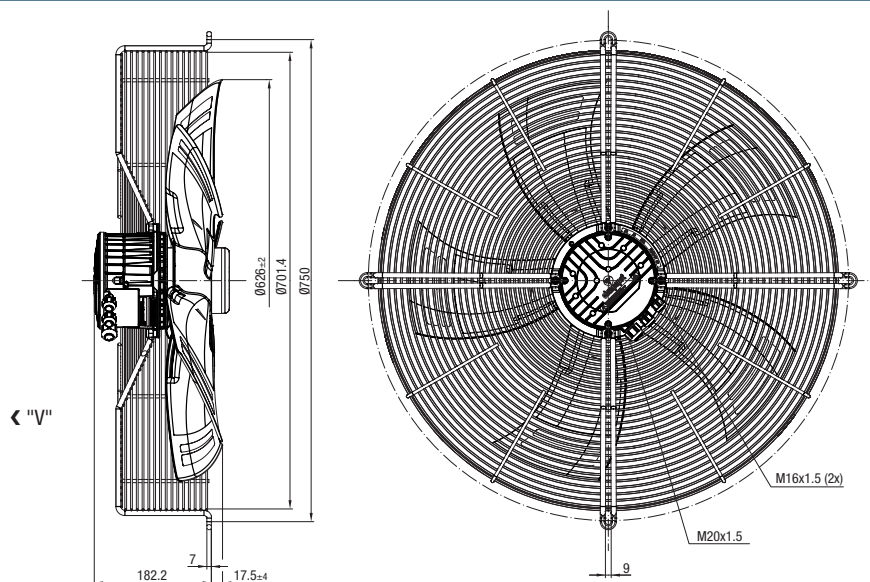


Inside diameter of fan housing min. 634 mm

W3G 630-GL06-G1 (with square full nozzle, airflow direction "V")



S3G 630-AL06-G1 (with guard grille for short nozzle, airflow direction "V")



Inside diameter of fan housing min. 634 mm

EC axial fans – HyBlade®

Ø 630 with motor M3G 084



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

Ø 990

Ø 1250

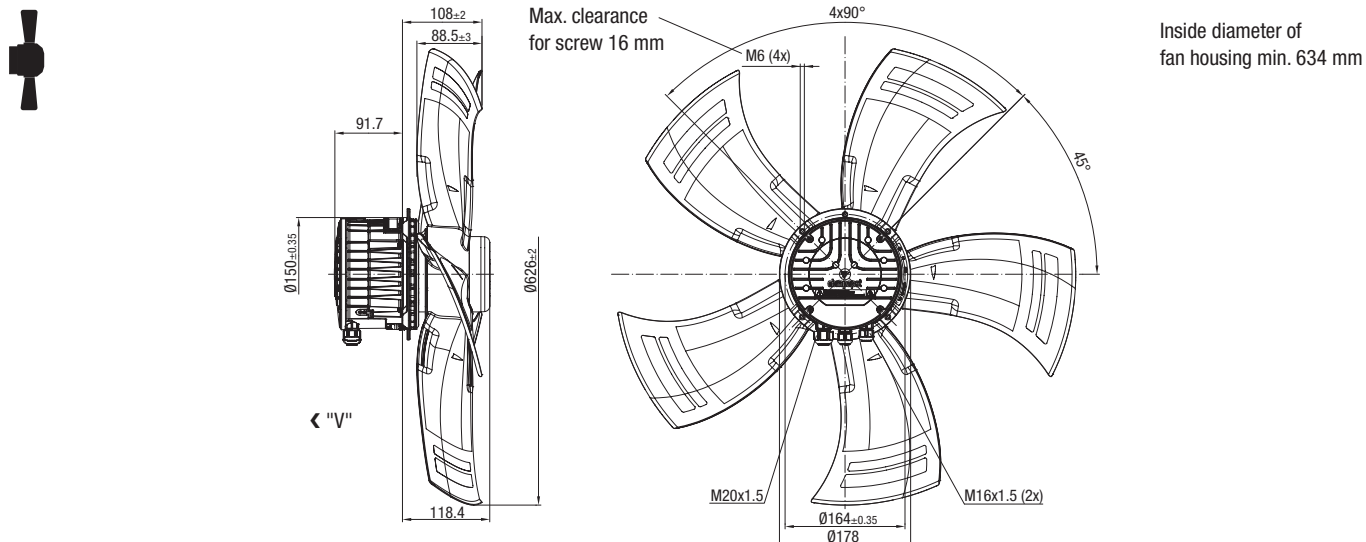
Technology

Agents

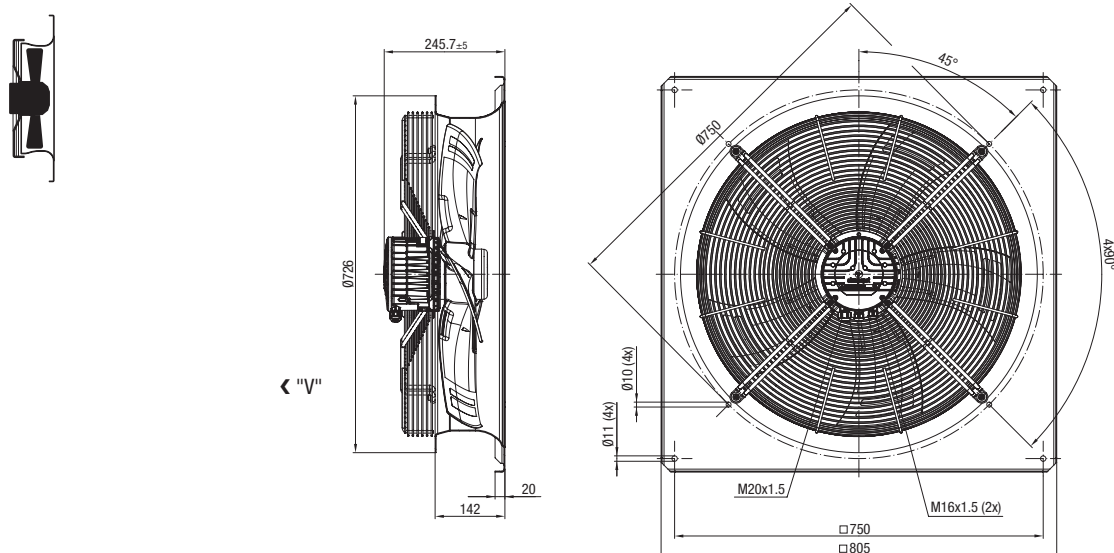
Agents

2015-09

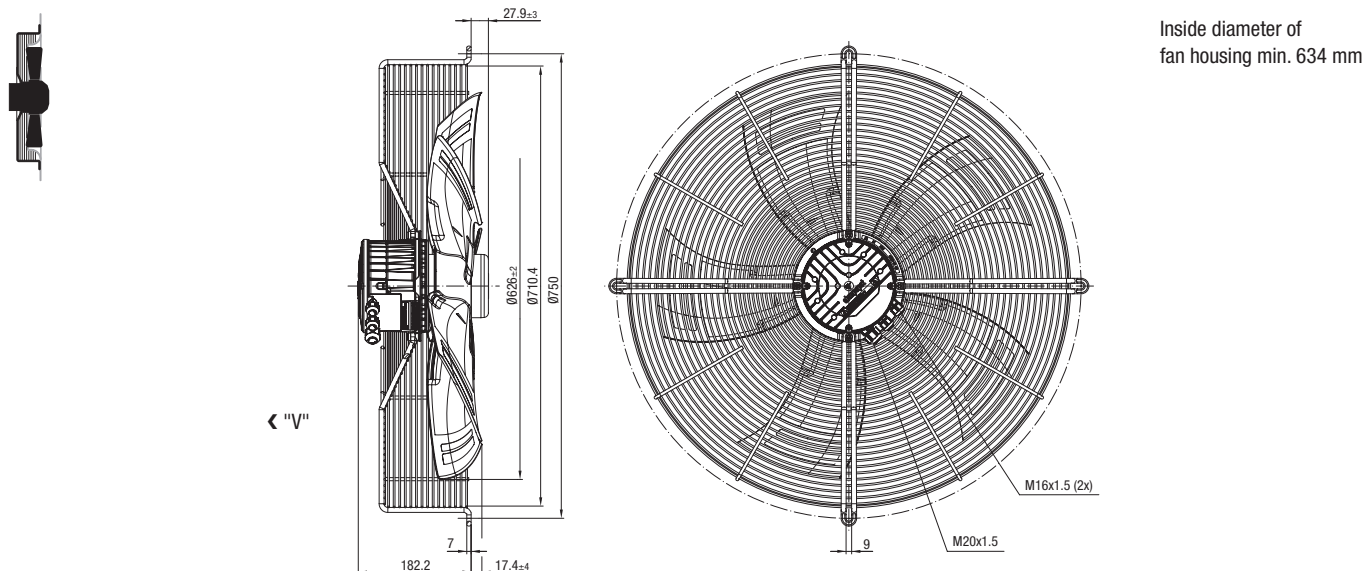
A3G 630-BM07-H1 (without attachments, airflow direction "V")



W3G 630-GM07-H1 (with square full nozzle, airflow direction "V")



S3G 630-AM07-H1 (with guard grille for short nozzle, airflow direction "V")

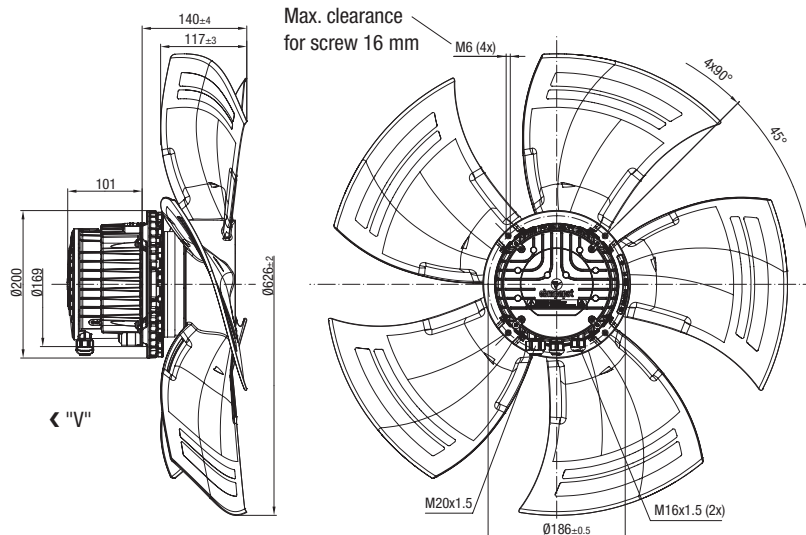


EC axial fans – HyBlade®

Ø 630 with motor M3G 112

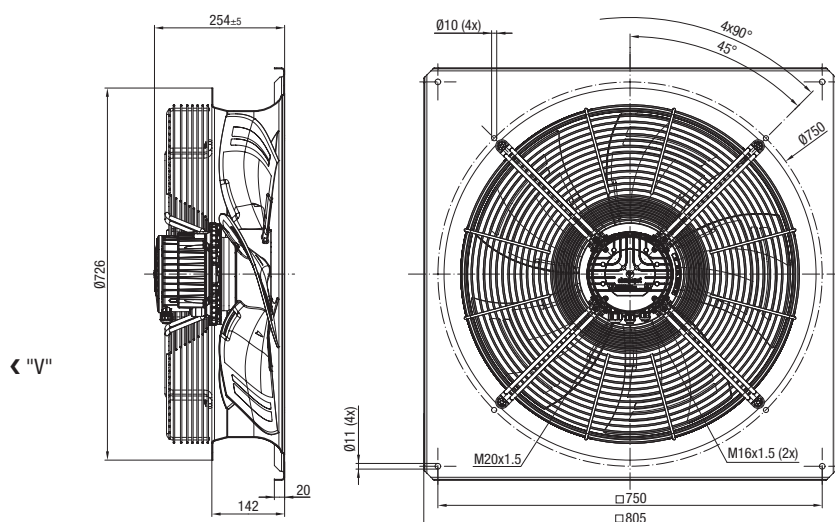


A3G 630-BE55-51 (without attachments, airflow direction "V")

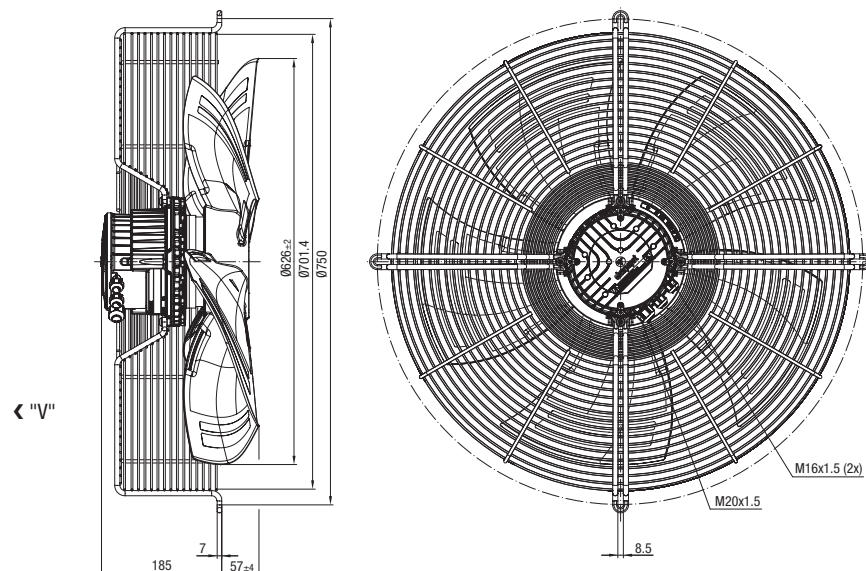


Inside diameter of fan housing min. 634 mm

W3G 630-GE55-51 (with square full nozzle, airflow direction "V")



S3G 630-AE55-51 (with guard grille for short nozzle, airflow direction "V")



Inside diameter of fan housing min. 634 mm

EC axial fans – HyBlade®

Ø 630 with motor M3G 112



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

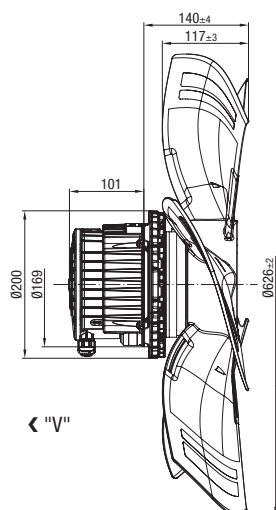
Ø 990

Ø 1250

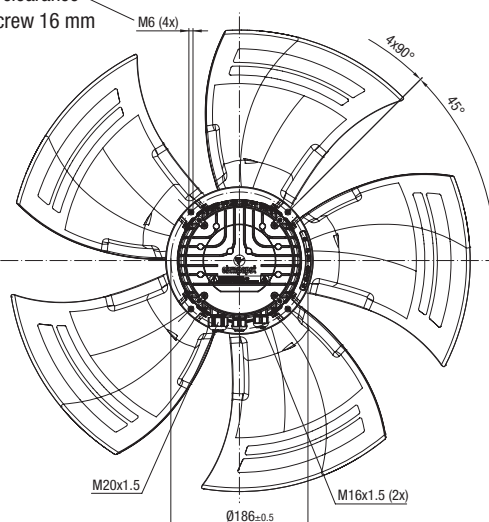
Technology

Agents

A3G 630-BE55-21 (without attachments, airflow direction "V")

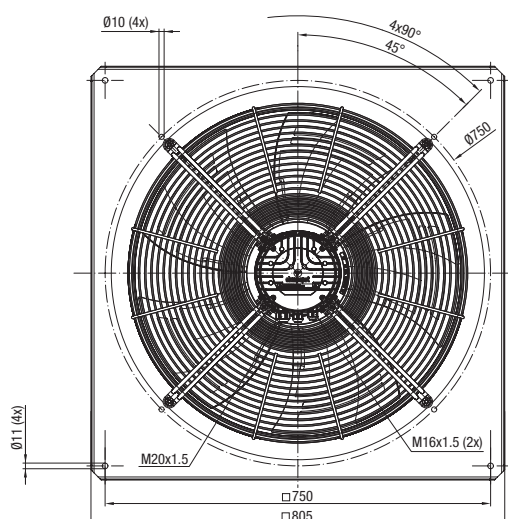
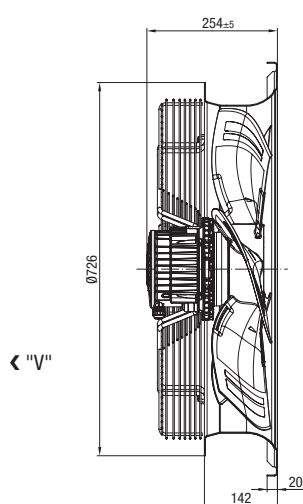


Max. clearance
for screw 16 mm

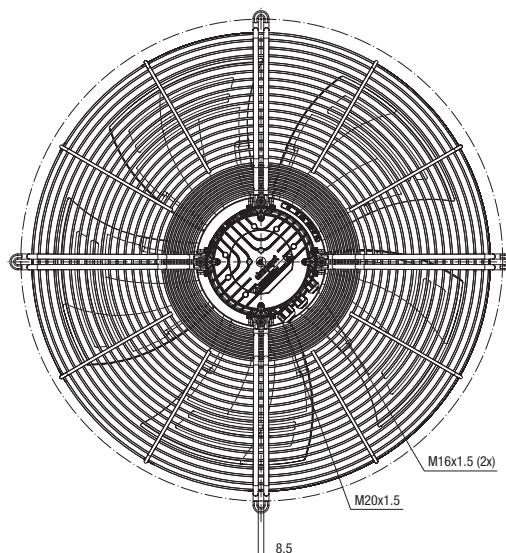
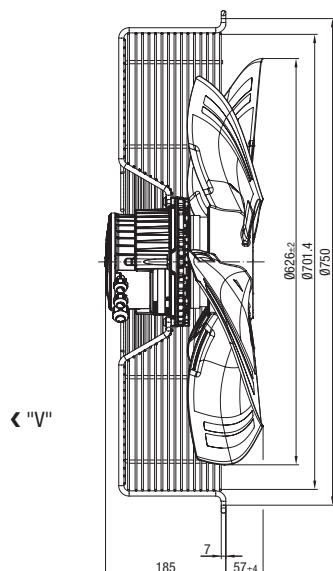


Inside diameter of
fan housing min. 634 mm

W3G 630-GE55-21 (with square full nozzle, airflow direction "V")



S3G 630-AE55-21 (with guard grille for short nozzle, airflow direction "V")



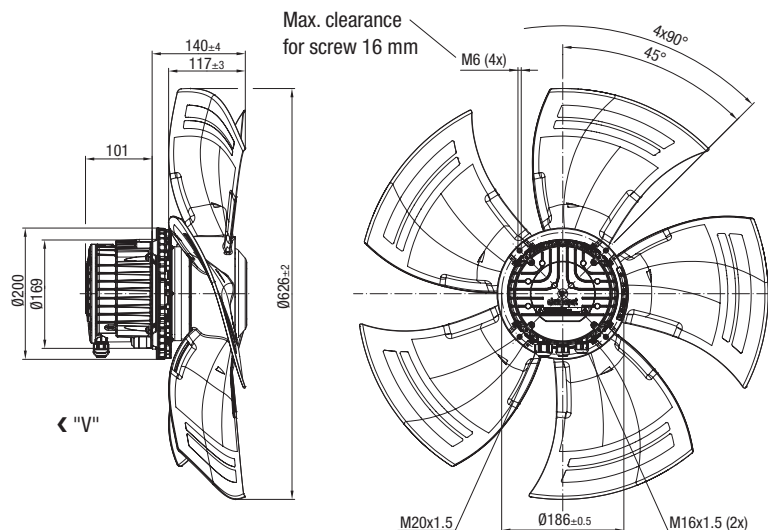
Inside diameter of
fan housing min. 634 mm

EC axial fans – HyBlade®

Ø 630 with motor M3G 112

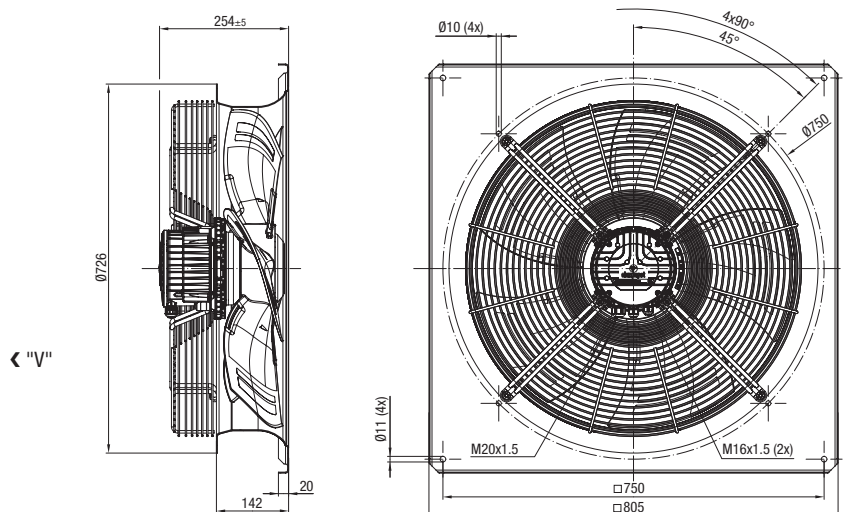


A3G 630-BG97-01 (without attachments, airflow direction "V")

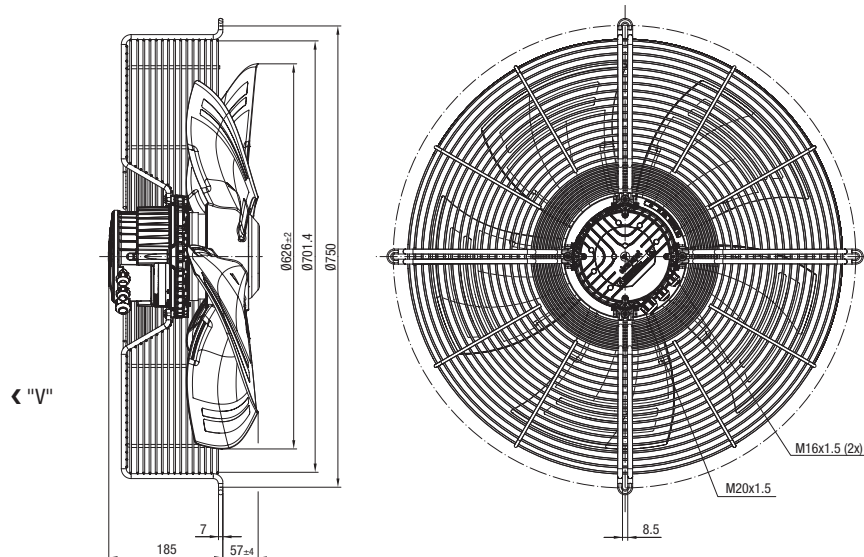


Inside diameter of fan housing min. 634 mm

W3G 630-GG97-01 (with square full nozzle, airflow direction "V")



S3G 630-AG97-01 (with guard grille for short nozzle, airflow direction "V")



Inside diameter of fan housing min. 634 mm

EC axial fans – HyBlade®

Ø 630 with motor M3G 150



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

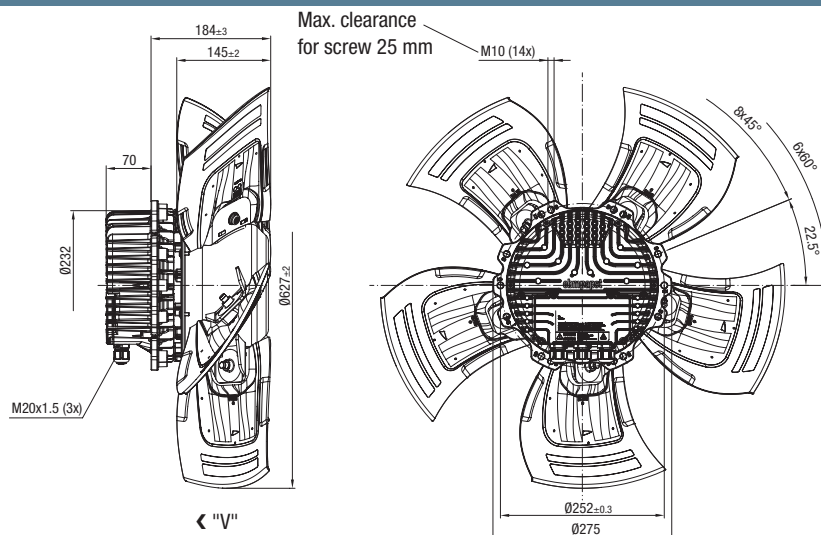
Ø 990

Ø 1250

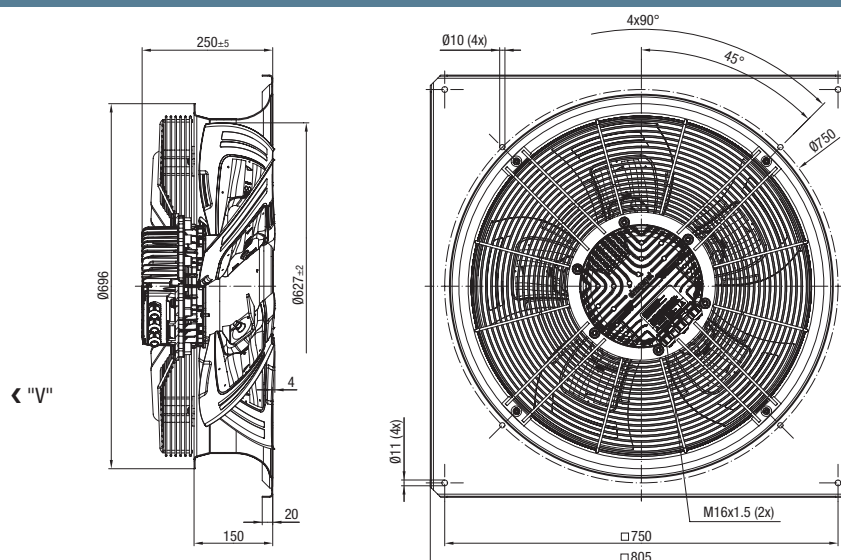
Technology

Agents

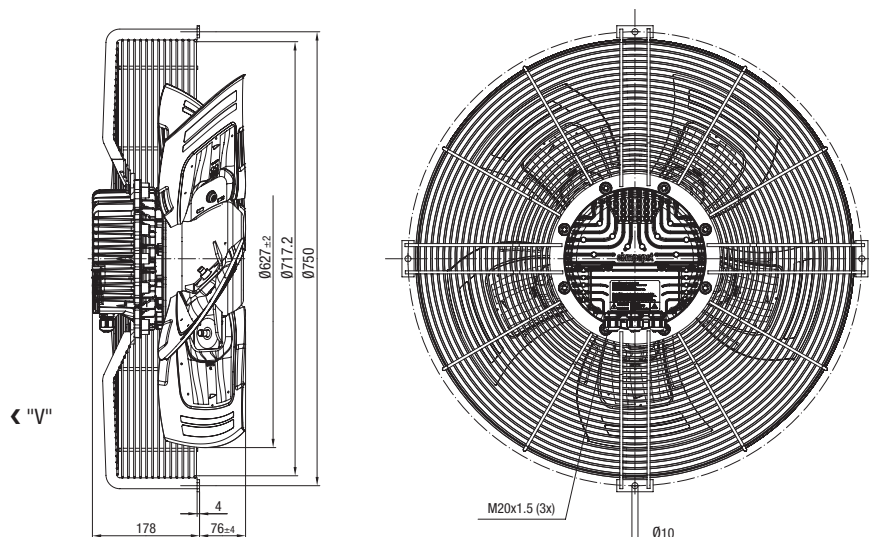
A3G 630-AU31-71 (without attachments, airflow direction "V")



W3G 630-GU31-71 (with square full nozzle, airflow direction "V")



S3G 630-AU31-71 (with guard grille for short nozzle, airflow direction "V")





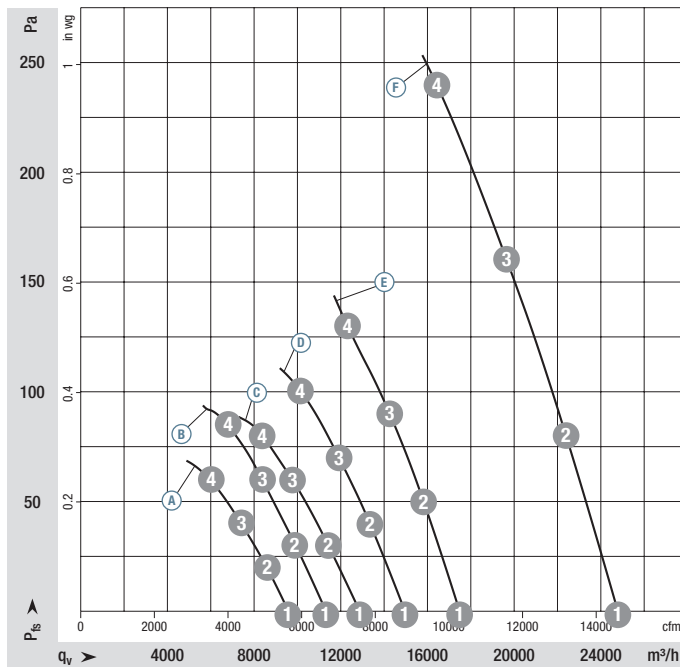
- **Material:** Guard grille: Steel, coated with black plastic (RAL 9005)
Fan housing: Sheet steel, galvanized and coated with black plastic (RAL 9005)
Blades: Aluminum insert, over-molded with PP plastic
Rotor: Painted black
Electronics housing: Die-cast aluminum, painted black
- **Number of blades:** 5
- **Direction of rotation:** (A) to (E) counterclockwise, (F) clockwise, viewed toward rotor
- **Degree of protection:** IP55
- **Insulation class:** "F"
- **Installation position:** Shaft horizontal or rotor on bottom, rotor on top on request
- **Condensation drainage holes:** Rotor side
- **Mode:** Continuous operation (S1)
- **Mounting:** Maintenance-free ball bearings

Nominal data		Blade pitch	Curve	Nominal voltage range	Frequency	Speed ⁽¹⁾	Max. input power ⁽¹⁾	Max. input current ⁽¹⁾	Max. back pressure	Perm. ambient temp.	Techn. features and connection diagram
Type	Motor			VAC	Hz	rpm	W	A	Pa	°C	
*3G 710	M3G 112-EA	-5°	(A)	1~200-277	50/60	620	250	1,10	60	-25...+60	P. 132 / P7)
*3G 710	M3G 112-EA	-5°	(B)	3~380-480	50/60	730	400	0,67	85	-25 ⁽²⁾ ...+60	P. 133 / P8)
*3G 710	M3G 112-GA	0°	(C)	1~200-277	50/60	730	500	2,20	80	-25...+60	P. 132 / P7)
*3G 710	M3G 112-IA	0°	(D)	1~200-277	50/60	850	740	3,30	100	-25 ⁽²⁾ ...+60	P. 132 / P7)
*3G 710	M3G 112-IA	0°	(E)	3~380-480	50/60	1010	1200	1,90	130	-25 ⁽²⁾ ...+60	P. 133 / P8)
*3G 710	M3G 150-IF	0°	(F)	3~380-480	50/60	1250	2875	4,40	240	-25 ⁽²⁾ ...+60	P. 134 / M5)

Subject to change

(1) Nominal data at operating point with maximum load and 230 or 400 VAC.
(2) Occasional start-up between -40°C and -25°C is permissible. Continuous operation below -25°C only possible with special low-temperature bearings (on request).

Curves:



Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection. Intake-side sound level: L_{WA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

	n	P _{ed}	I	L _{WA}
	rpm	W	A	dB(A)
(A) 1	620	141	0,65	63
(A) 2	620	177	0,79	60
(A) 3	620	212	0,94	61
(A) 4	620	250	1,10	65
(B) 1	730	219	0,41	67
(B) 2	730	286	0,50	65
(B) 3	730	348	0,59	66
(B) 4	730	400	0,67	70
(C) 1	730	324	1,44	64
(C) 2	730	386	1,71	64
(C) 3	730	450	1,98	67
(C) 4	730	500	2,20	71
(D) 1	850	484	2,17	68
(D) 2	850	590	2,62	67
(D) 3	850	667	2,94	68
(D) 4	850	740	3,30	73

- **Technical features:** See connection diagram P. 132 ff.
- **EMC:** Immunity to interference according to EN 61000-6-2 (industrial environment)
Circuit feedback according to EN 61000-3-2
Interference emission according to EN 61000-6-4 (industrial environment), according to household appliance standard on request
- **Touch current:** ≤ 3.5 mA according to IEC 60990 (measuring circuit Fig. 4)
- **Electrical connection:** Via terminal box
- **Protection class:** I (with customer connection of protective earth)
- **Conformity with standards:** EN 61800-5-1, CE; EN 60335-1 in preparation
 EN 61800-5-1, CE
- **Approvals:** UL, CSA
 UL, CSA planned
 EAC

Airflow direction		Weight without attachments		Weight with square full nozzle		Weight with guard grille for short nozzle
	◀ "V"	kg	◀ "V"	kg	◀ "V"	kg
	without attachments-		with square full nozzle		with guard grille for short nozzle	
"V"	A3G 710-BB77 -41	9,30	W3G 710-GB77 -41	23,90	S3G 710-AB77 -41	15,80
"V"	A3G 710-BB80 -51	9,40	W3G 710-GB80 -51	24,00	S3G 710-AB80 -51	15,90
"V"	A3G 710-BD60 -31	10,30	W3G 710-GD60 -31	24,90	S3G 710-AD60 -31	16,80
"V"	A3G 710-BG95 -21	12,00	W3G 710-GG95 -21	26,60	S3G 710-AG95 -21	18,50
"V"	A3G 710-BG98 -01	12,20	W3G 710-GG98 -01	26,90	S3G 710-AG98 -01	18,70
"V"	A3G 710-AU32 -71	25,60	W3G 710-GU32 -71	42,80	S3G 710-AU32 -71	34,80
Airflow direction "A" on request						

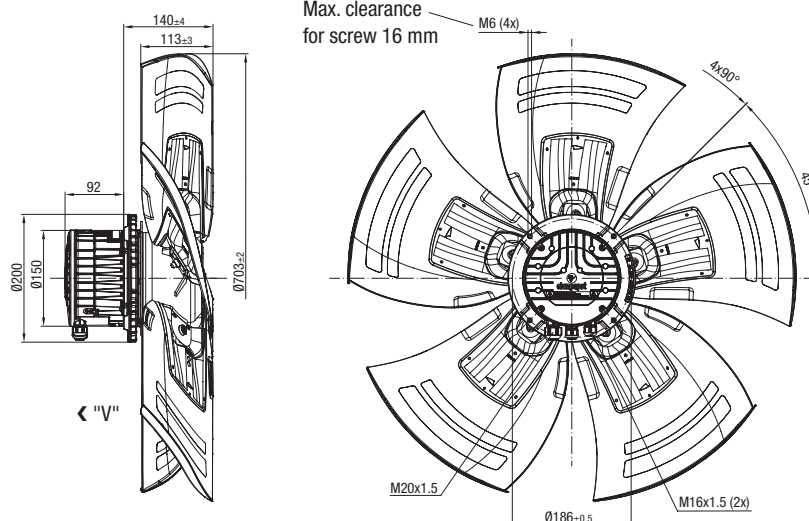
	n rpm	P _{ed} W	I A	L _{WA} dB(A)
①	1010	797	1,28	72
②	1010	957	1,53	71
③	1010	1073	1,70	72
④	1010	1200	1,90	78
①	1250	2209	3,43	79
②	1250	2431	3,77	78
③	1250	2645	4,08	79
④	1250	2875	4,40	81

EC axial fans – HyBlade®

Ø 710 with motor M3G 112

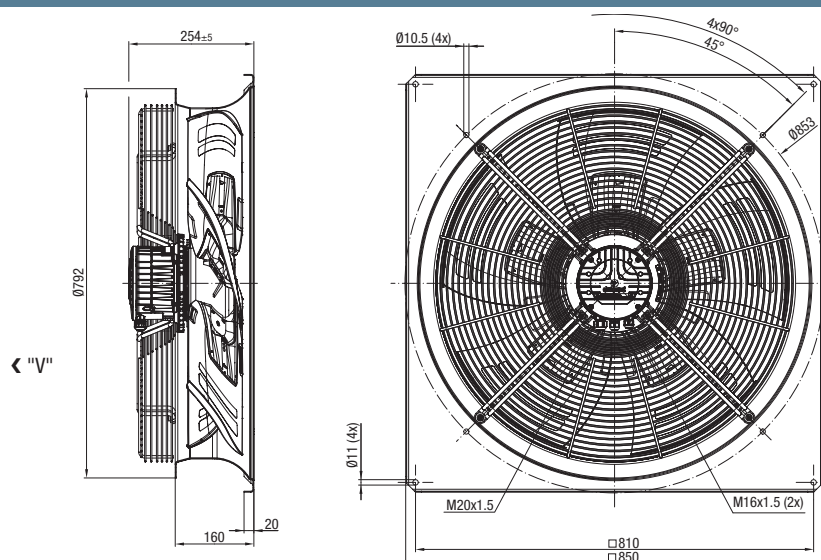


A3G 710-BB77-41 (without attachments, airflow direction "V")

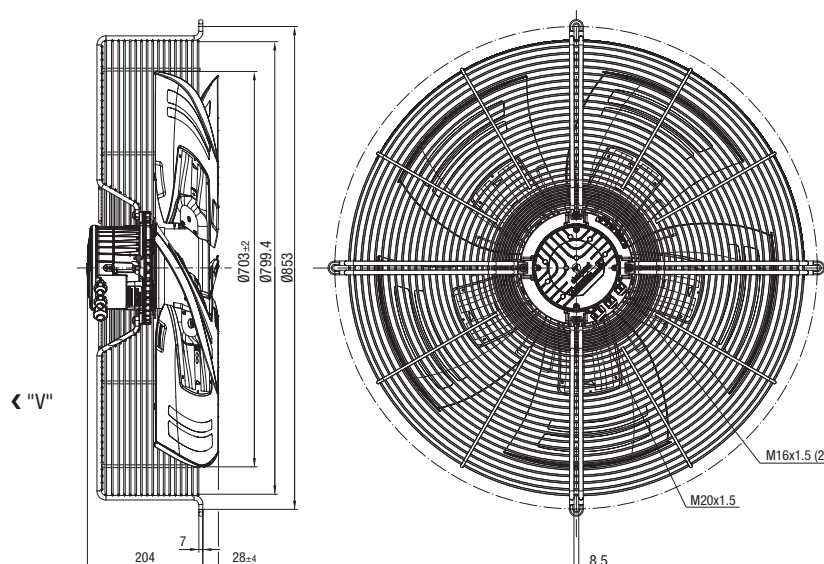


Inside diameter of fan housing min. 710 mm

W3G 710-GB77-41 (with square full nozzle, airflow direction "V")



S3G 710-AB77-41 (with guard grille for short nozzle, airflow direction "V")



Inside diameter of fan housing min. 710 mm

EC axial fans – HyBlade®

Ø 710 with motor M3G 112



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

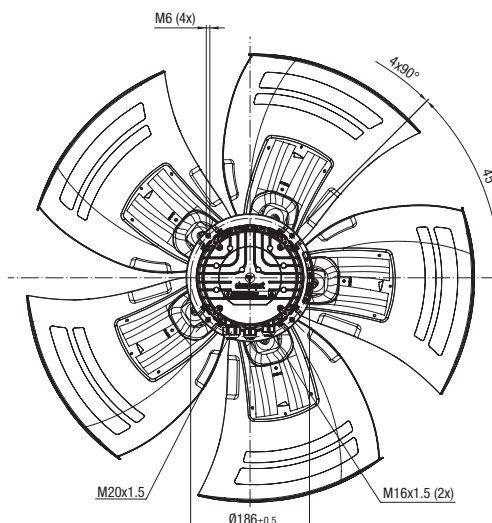
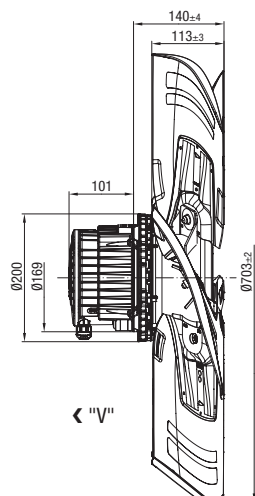
Ø 990

Ø 1250

Technology

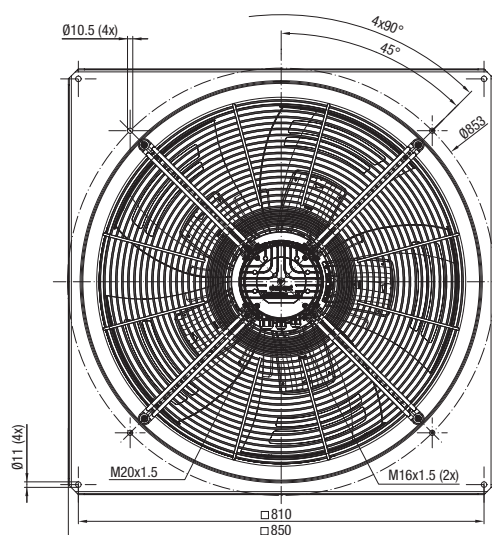
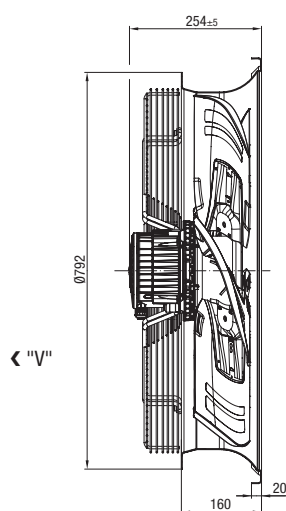
Agents

A3G 710-BB80-51 (without attachments, airflow direction "V")

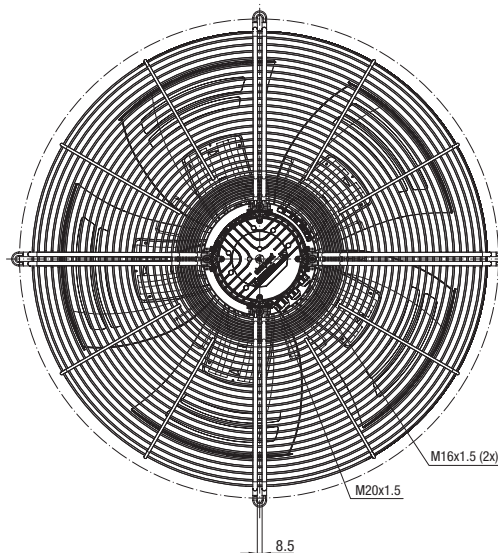
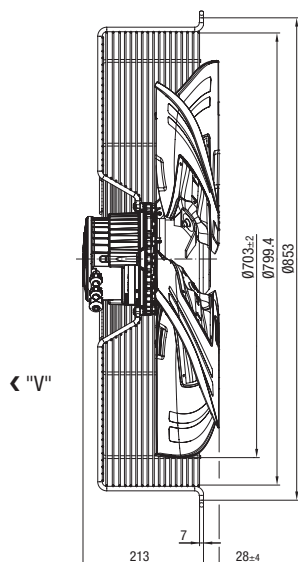


Inside diameter of fan housing min. 710 mm

W3G 710-GB80-51 (with square full nozzle, airflow direction "V")



S3G 710-AB80-51 (with guard grille for short nozzle, airflow direction "V")



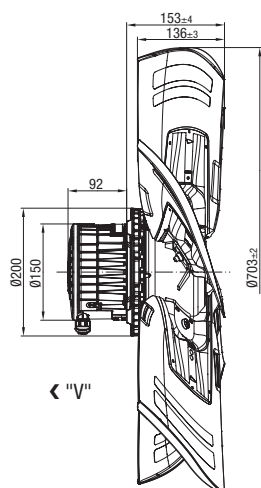
Inside diameter of fan housing min. 710 mm

EC axial fans – HyBlade®

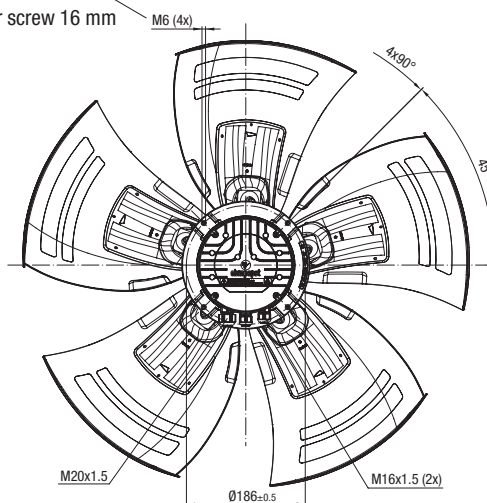
Ø 710 with motor M3G 112



A3G 710-BD60-31 (without attachments, airflow direction "V")

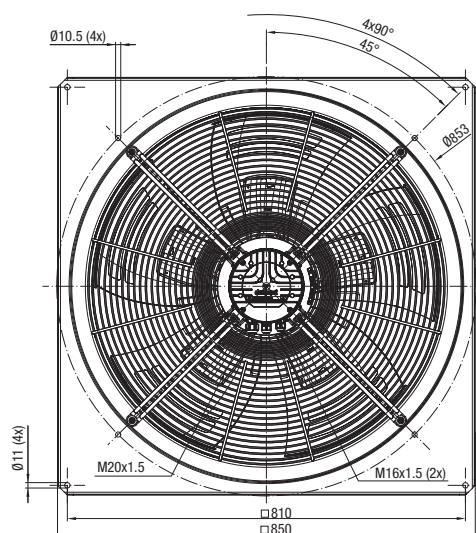
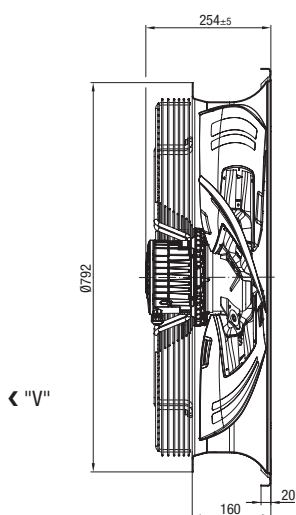


Max. clearance
for screw 16 mm

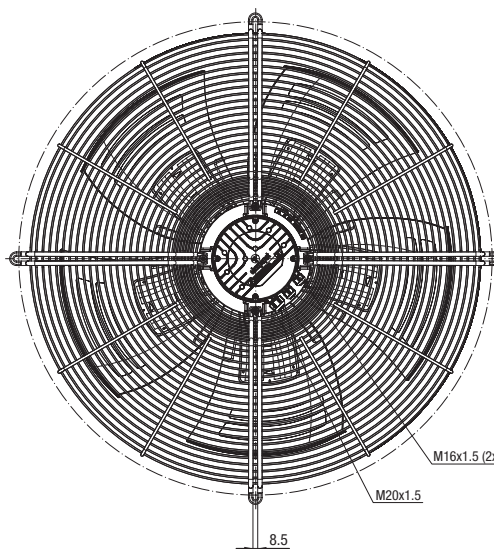
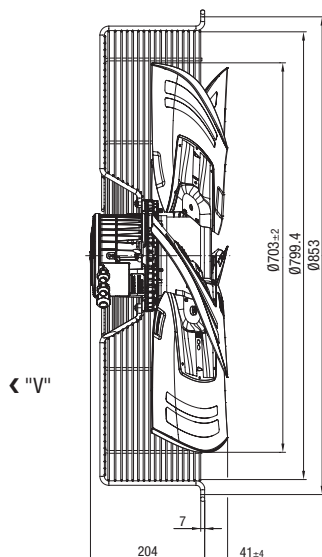


Inside diameter of
fan housing min. 710 mm

W3G 710-GD60-31 (with square full nozzle, airflow direction "V")



S3G 710-AD60-31 (with guard grille for short nozzle, airflow direction "V")



Inside diameter of
fan housing min. 710 mm

EC axial fans – HyBlade®

Ø 710 with motor M3G 112



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

Ø 990

Ø 1250

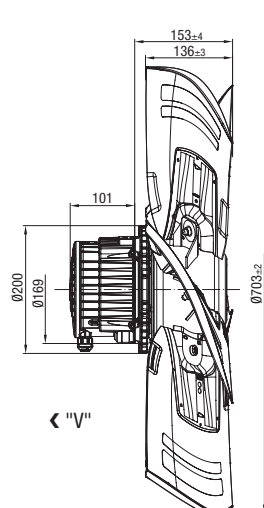
Technology

Agents

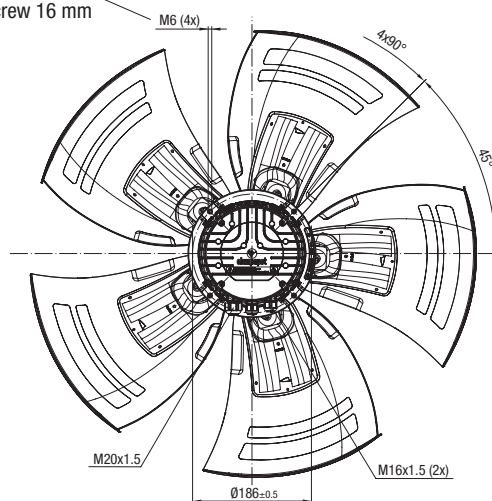
75

2015-09

A3G 710-BG95-21 (without attachments, airflow direction "V")

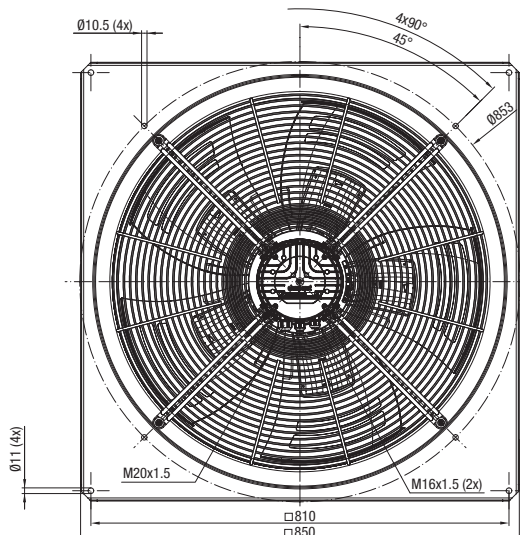
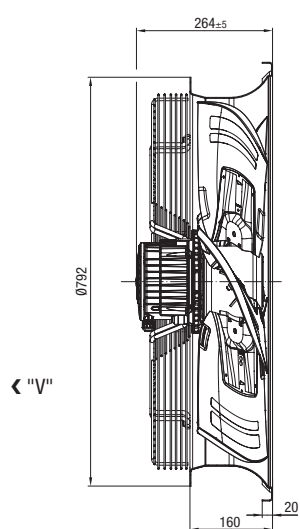


Max. clearance
for screw 16 mm

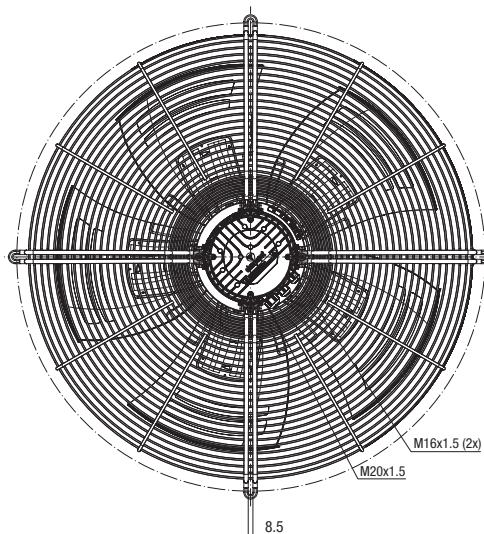
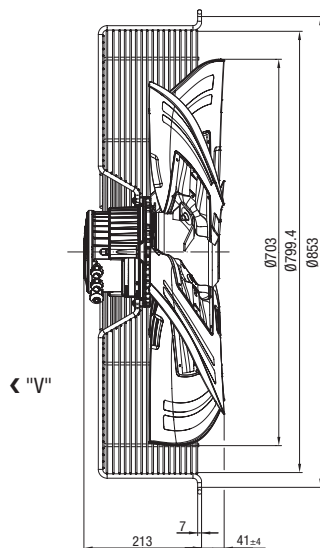


Inside diameter of
fan housing min. 710 mm

W3G 710-GG95-21 (with square full nozzle, airflow direction "V")



S3G 710-AG95-21 (with guard grille for short nozzle, airflow direction "V")



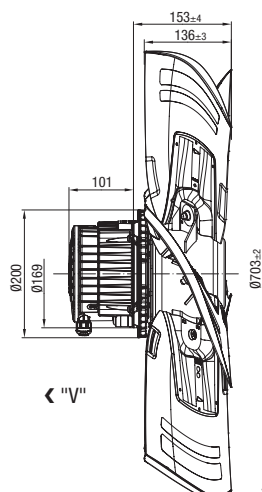
Inside diameter of
fan housing min. 710 mm

EC axial fans – HyBlade®

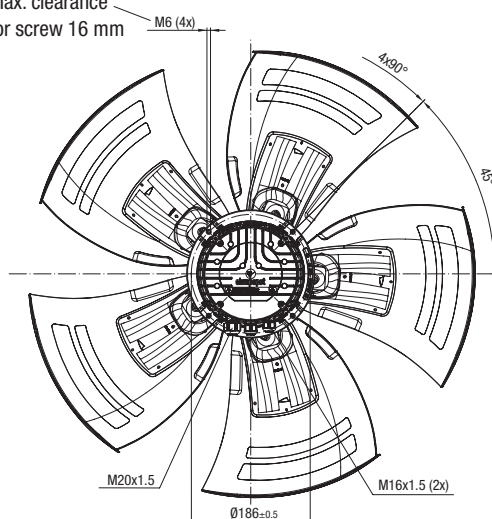
Ø 710 with motor M3G 112



A3G 710-BG98-01 (without attachments, airflow direction "V")

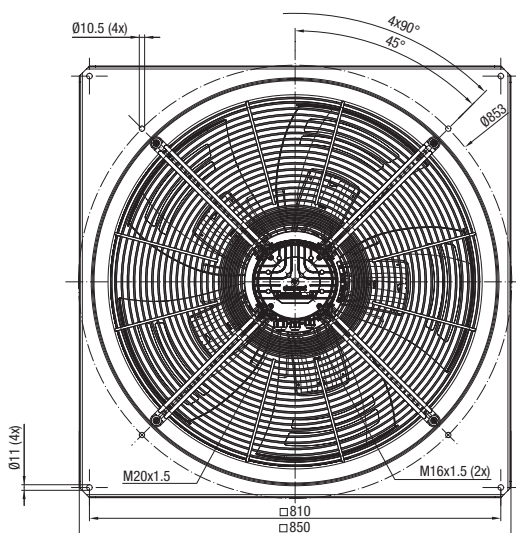
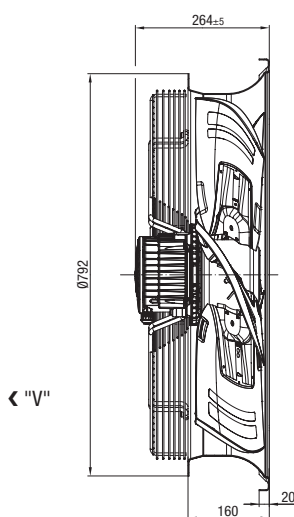


Max. clearance
for screw 16 mm

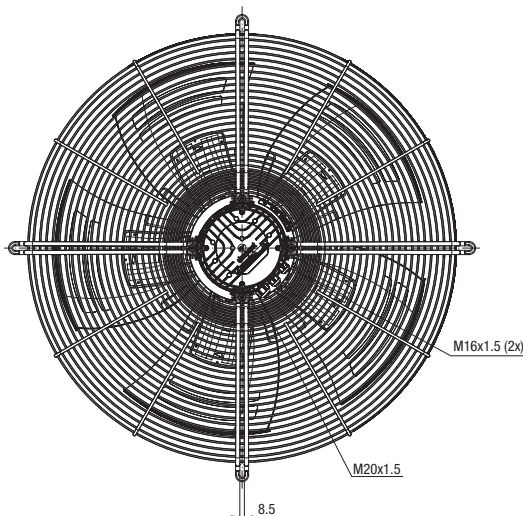
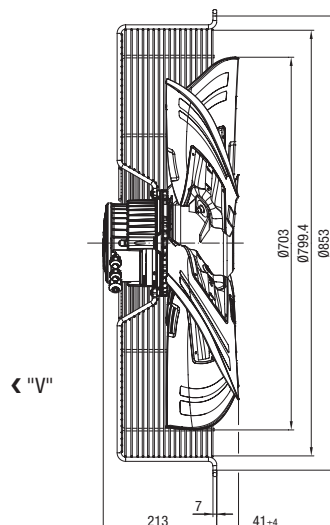


Inside diameter of
fan housing min. 710 mm

W3G 710-GG98-01 (with square full nozzle, airflow direction "V")



S3G 710-AG98-01 (with guard grille for short nozzle, airflow direction "V")



Inside diameter of
fan housing min. 710 mm

Ø 710 with motor M3G 150



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

066 Ø

Ø 125

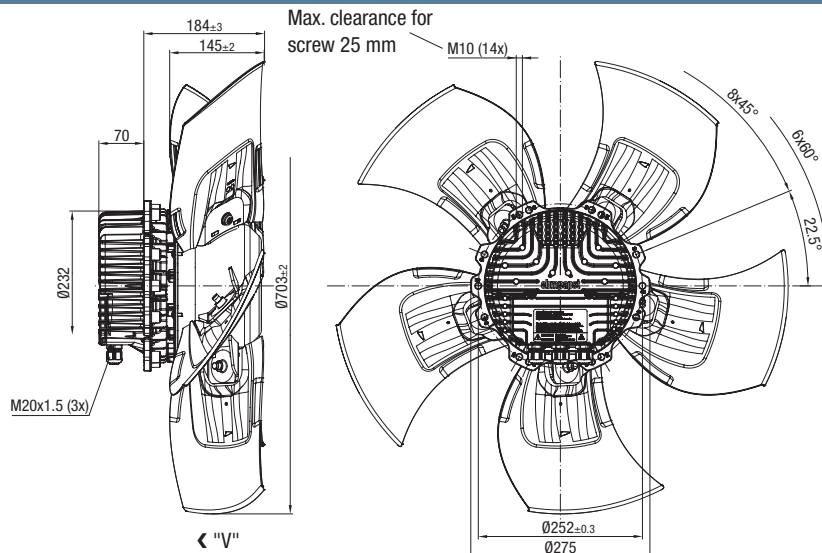
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S

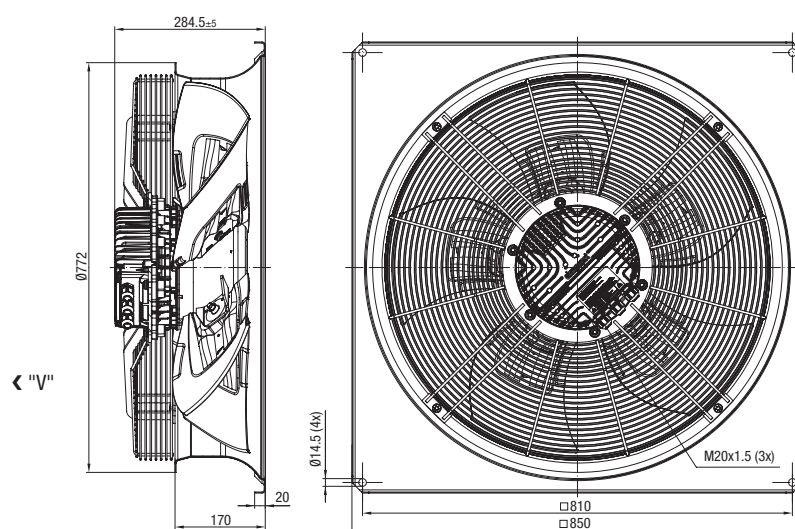
A

A3G 710-AU32-71 (without attachments, airflow direction "V")

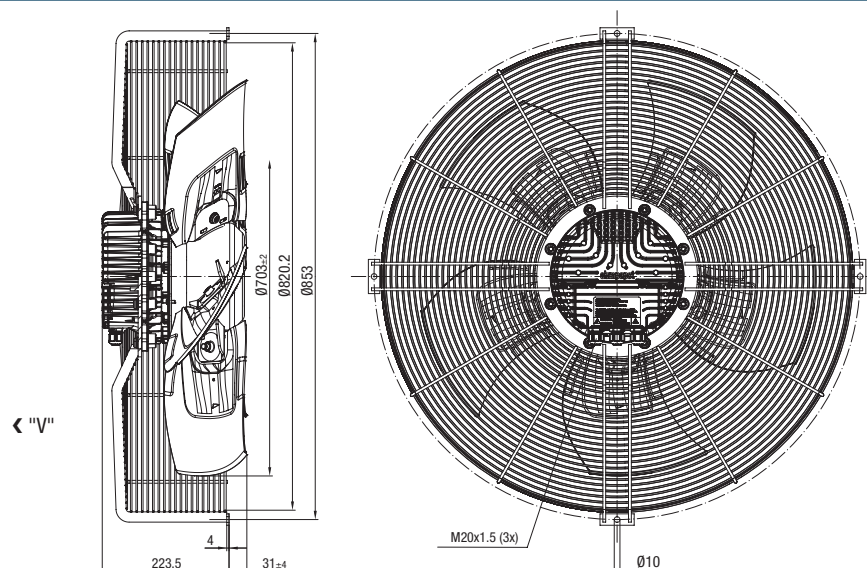


Inside diameter of
fan housing min. 710 mm

W3G 710-GU32-71 (with square full nozzle, airflow direction "V")



S3G 710-AU32-71 (with guard grille for short nozzle, airflow direction "V")



Inside diameter of
fan housing min. 710 mm



- Material:** Guard grille: Steel, coated with black plastic (RAL 9005)
Fan housing: Sheet steel, galvanized and coated with black plastic (RAL 9005)
Blades (5): (A) to (F) Press-fitted sheet steel blank, over-molded with PP plastic
(G) to (I) Aluminum insert, over-molded with PP plastic
Rotor: Painted black / Diffuser: PP plastic
Electronics housing: Die-cast aluminum, painted black
- Direction of rotation:** Clockwise viewed toward rotor
- Degree of protection:** IP55
- Insulation class:** "F"
- Installation position:** Shaft horizontal or rotor on bottom, rotor on top on request
- Condensation drainage holes:** Rotor side
- Mode:** Continuous operation (S1)
- Mounting:** Maintenance-free ball bearings

Nominal data		Blade pitch	Curve	Nominal voltage range	Frequency	Speed ⁽¹⁾	Max. input power ⁽¹⁾	Max. input current ⁽¹⁾	Max. back pressure	Perm. ambient temp.	Techn. features and connection diagram
Type	Motor			VAC	Hz	rpm	W	A	Pa	°C	
*3G 800	M3G 112-EA	---	(A)	1~200-277	50/60	490	240	1,10	50	-25...+60	P. 132 / P7)
*3G 800	M3G 112-GA	---	(B)	3~380-480	50/60	520	275	0,49	50	-25 ⁽²⁾ ...+60	P. 133 / P8)
*3G 800	M3G 112-EA	---	(C)	1~200-277	50/60	630	480	2,10	75	-25...+60	P. 132 / P7)
*3G 800	M3G 112-IA	---	(D)	3~380-480	50/60	700	700	1,10	100	-25 ⁽²⁾ ...+60	P. 133 / P8)
*3G 800	M3G 112-IA	---	(E)	1~200-277	50/60	730	750	3,30	100	-25 ⁽²⁾ ...+60	P. 132 / P7)
3G 800	M3G 112-IA	---	(F)	3~380-480	50/60	770	900	1,50	120	-25 ⁽²⁾ ...+60	P. 133 / P8) / P. 136 / M7*)
*3G 800	M3G 150-FF	0°	(G)	3~380-480	50/60	930	1700	2,70	160	-25 ⁽²⁾ ...+65	P. 134 / M5)
3G 800	M3G 150-IF	0°	(H)	3~380-480	50/60	1020	2560	3,90	230	-25 ⁽²⁾ ...+70	P. 134 / M5) / P. 137 / M9*)
3G 800	M3G 150-NA	0°	(I)	3~380-480	50/60	1090	2980	4,50	260	-25 ⁽²⁾ ...+65	P. 134 / M5) / P. 137 / M9*)

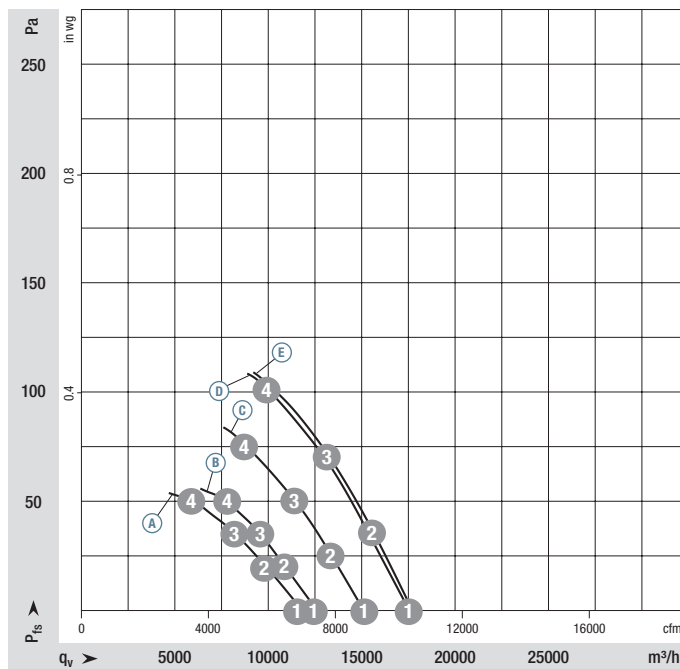
Subject to change

(1) Nominal data at operating point with maximum load and 230 or 400 VAC.

(*) AxiTop

(2) Occasional start-up between -40°C and -25°C is permissible. Continuous operation below -25°C only possible with special low-temperature bearings (on request).

Curves:



	n rpm	P _{ed} W	I A	L _{WA} dB(A)
(A) 1	490	148	0,68	60
(A) 2	490	184	0,83	57
(A) 3	490	208	0,93	55
(A) 4	490	240	1,10	61
(B) 1	520	177	0,37	62
(B) 2	520	217	0,42	58
(B) 3	520	247	0,45	57
(B) 4	520	275	0,49	60
(C) 1	630	306	1,34	65
(C) 2	630	360	1,58	62
(C) 3	630	411	1,79	60
(C) 4	630	480	2,10	65
(D) 1	700	453	0,74	68
(D) 2	700	536	0,86	65
(D) 3	700	622	0,99	63
(D) 4	700	700	1,10	69
(E) 1	730	473	2,14	62
(E) 2	730	576	2,57	58
(E) 3	730	667	2,96	57
(E) 4	730	750	3,30	61

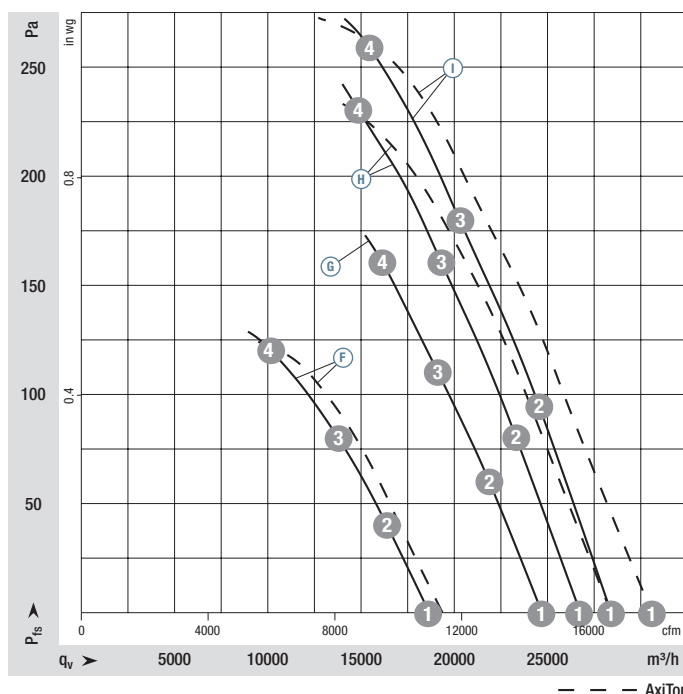
Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection.
Intake-side sound level: L_{WA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

- **Technical features:** See connection diagram P. 132 ff.
- **EMC:** Immunity to interference according to EN 61000-6-2 (industrial environment)
Circuit feedback according to EN 61000-3-2
Interference emission according to EN 61000-6-4 (industrial environment), according to household appliance standard on request
- **Touch current:** ≤ 3.5 mA according to IEC 60990 (measuring circuit Fig. 4)
- **Electrical connection:** Via terminal box
- **Protection class:** I (with customer connection of protective earth)
- **Conformity with standards:** (A) to (F) EN 61800-5-1, CE; EN 60335-1 in preparation
(G) (H) (I) EN 61800-5-1, CE
- **Approvals:** (C) (E) UL, CSA
(A) (B) (D) (F) UL, CSA planned
(G) (H) (I) EAC

Airflow direction		Weight without attachments		Weight with square full nozzle		Weight with guard grille for full nozzle		Weight with square full nozzle and diffuser
	without attachments-	kg	with square full nozzle	kg	with guard grille for full nozzle	kg	with square full nozzle and diffuser (AxiTop)	kg
"V"	A3G 800-BA77 -41	8,60	W3G 800-GA77 -41	25,40	S3G 800-BA77 -41	15,30	---	---
"V"	A3G 800-BA77 -51	8,80	W3G 800-GA77 -51	25,60	S3G 800-BA77 -51	15,50	---	---
"V"	A3G 800-BD57 -31	10,10	W3G 800-GD57 -31	30,00	S3G 800-BD57 -31	16,80	---	---
"V"	A3G 800-BG01 -51	12,10	W3G 800-GG01 -51	31,90	S3G 800-BG01 -51	18,80	---	---
"V"	A3G 800-BG95 -21	12,20	W3G 800-GG95 -21	32,00	S3G 800-BG95 -21	18,90	---	---
"V"	A3G 800-BG95 -01	12,10	W3G 800-GG95 -01	31,90	S3G 800-BG95 -01	18,80	W3G 800-HG95 -01	38,50
"V"	A3G 800-AS26 -71	22,50	W3G 800-GS26 -71	42,50	S3G 800-BS26 -71	29,50	---	---
"V"	A3G 800-AU23 -71	25,00	W3G 800-GU23 -71	45,00	S3G 800-BU23 -71	32,00	W3G 800-HU23 -71	52,50
"V"	A3G 800-AV05 -71	31,00	W3G 800-GV05 -71	51,00	S3G 800-BV05 -71	38,00	W3G 800-HV05 -71	58,50

Airflow direction "A" on request

Curves:



Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection.
Intake-side sound level: L_{wA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

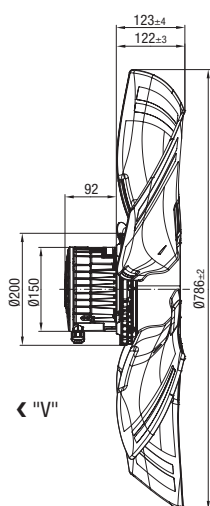
	n	P_{ed}	I	L_{wA}
	rpm	W	A	dB(A)
(F) 1	770	550	0,93	70
(F) 2	770	667	1,12	67
(F) 3	770	773	1,28	65
(F) 4	770	900	1,50	72
(G) 1	930	1243	2,03	73
(G) 2	930	1461	2,34	72
(G) 3	930	1614	2,56	73
(G) 4	930	1700	2,70	75
(H) 1	1020	1654	2,62	75
(H) 2	1020	1938	3,04	75
(H) 3	1020	2195	3,42	76
(H) 4	1020	2560	3,90	82
(I) 1	1090	1911	3,00	77
(I) 2	1090	2240	3,49	76
(I) 3	1090	2531	3,92	78
(I) 4	1090	2980	4,50	83

EC axial fans – HyBlade®

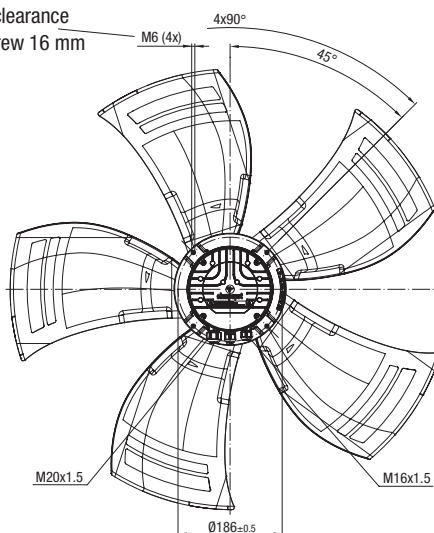
Ø 800 with motor M3G 112



A3G 800-BA77-41 (without attachments, airflow direction "V")

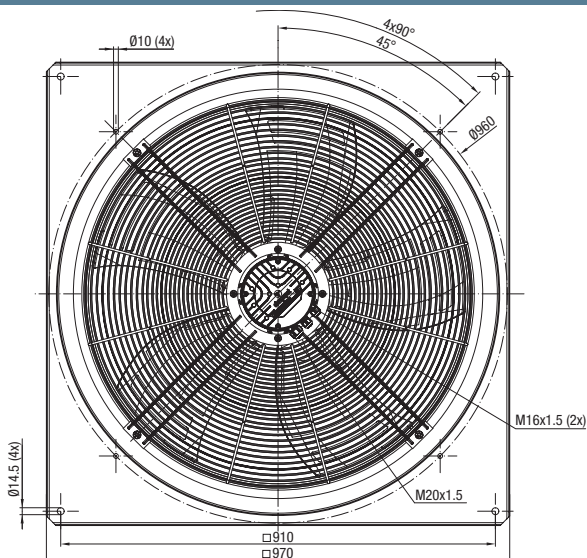
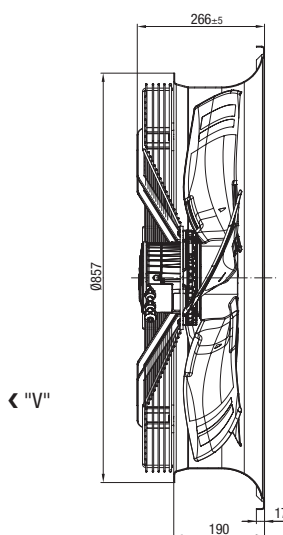


Max. clearance
for screw 16 mm

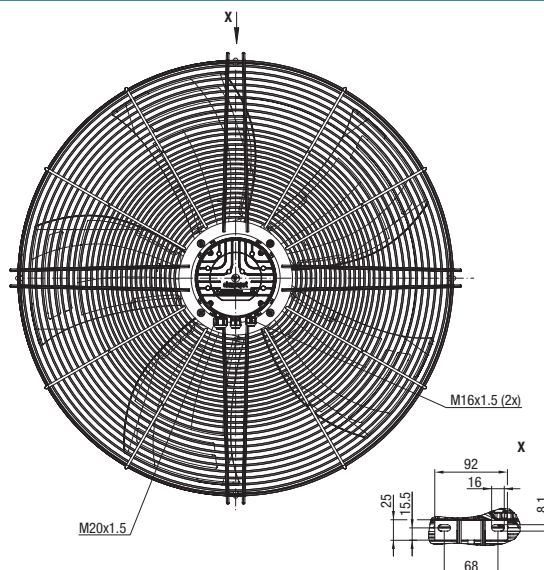
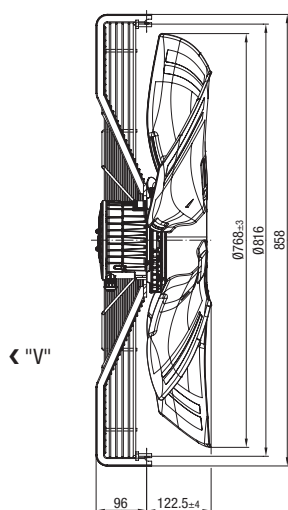


Inside diameter of
fan housing min. 795 mm

W3G 800-GA77-41 (with square full nozzle, airflow direction "V")



S3G 800-BA77-41 (with guard grille for full nozzle, airflow direction "V")



Inside diameter of
fan housing min. 795 mm

EC axial fans – HyBlade®

Ø 800 with motor M3G 112



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

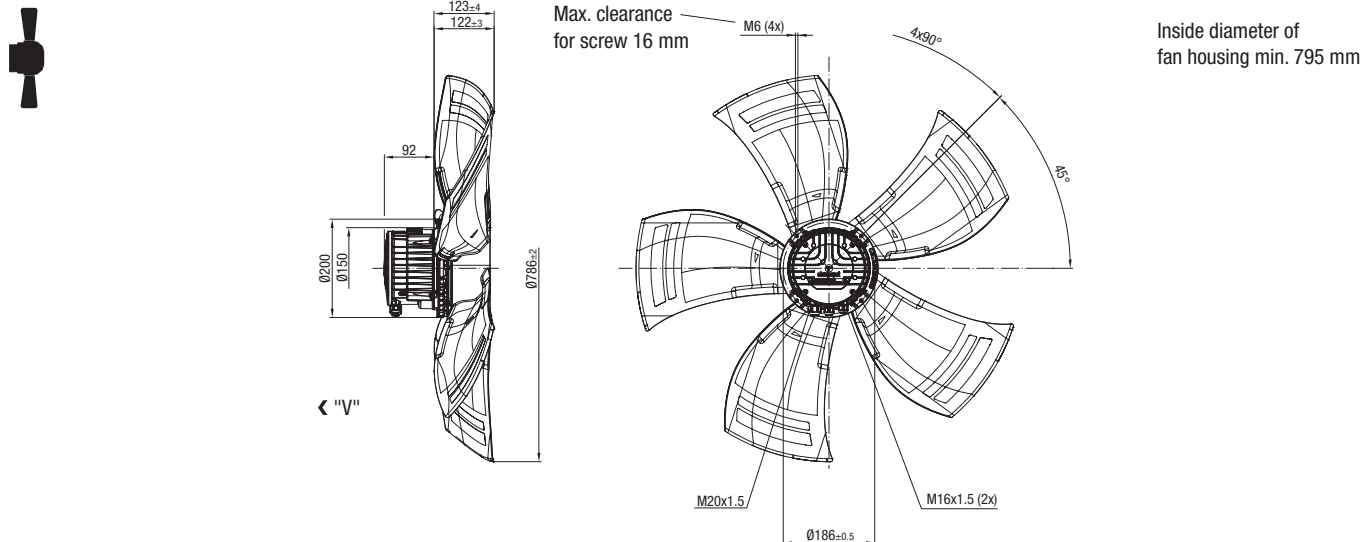
Ø 990

Ø 1250

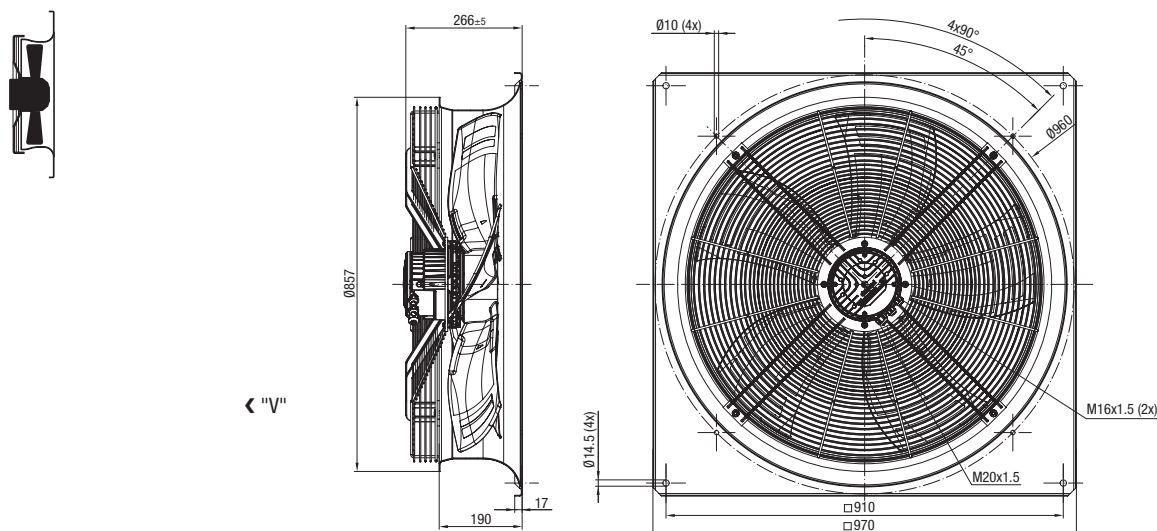
Technology

Agents

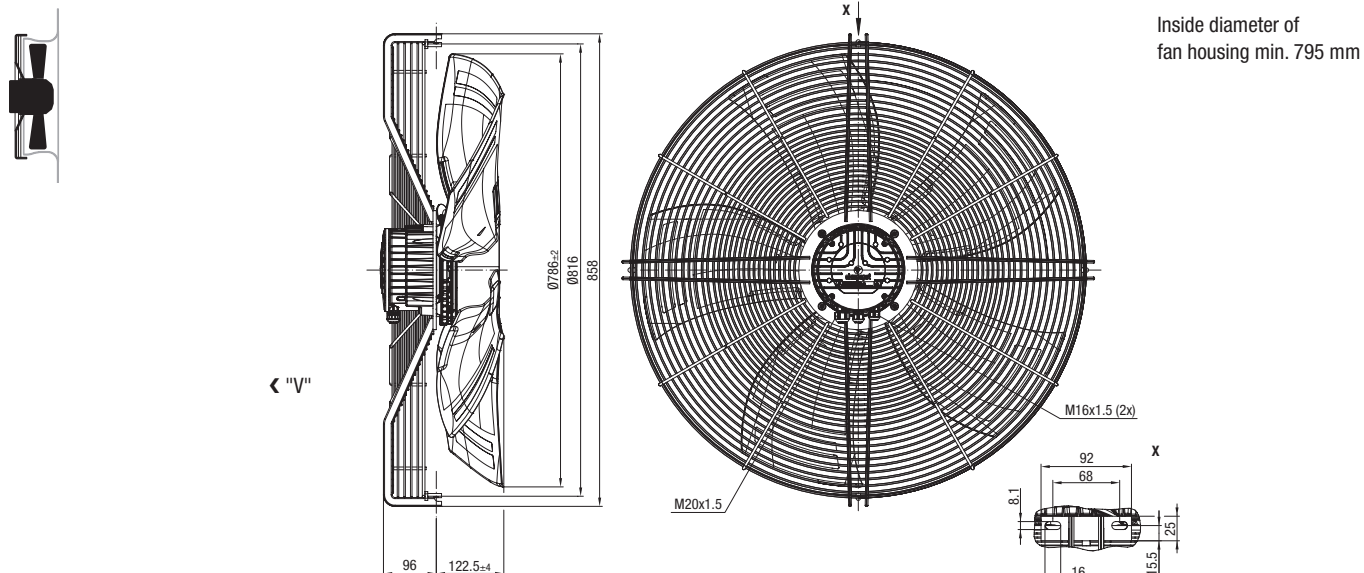
A3G 800-BA77-51 (without attachments, airflow direction "V")



W3G 800-GA77-51 (with square full nozzle, airflow direction "V")



S3G 800-BA77-51 (with guard grille for full nozzle, airflow direction "V")

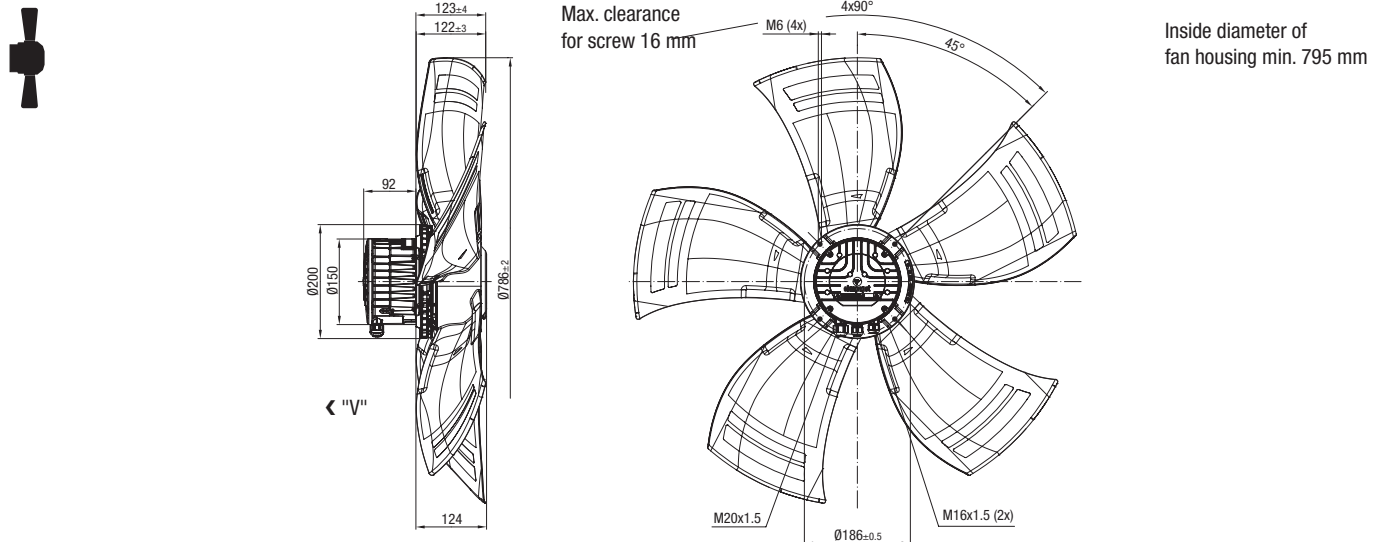


EC axial fans – HyBlade®

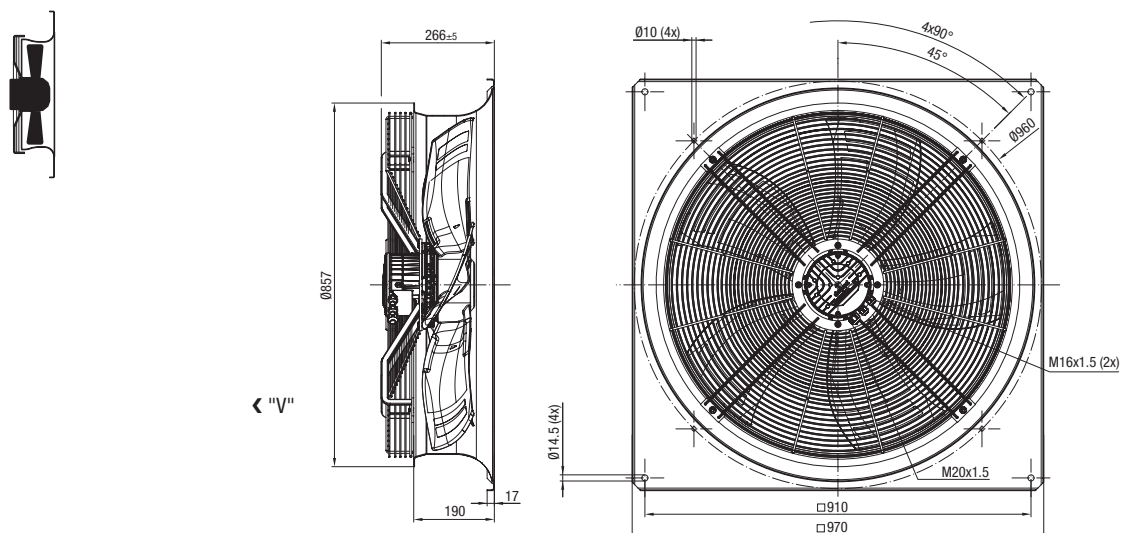
Ø 800 with motor M3G 112



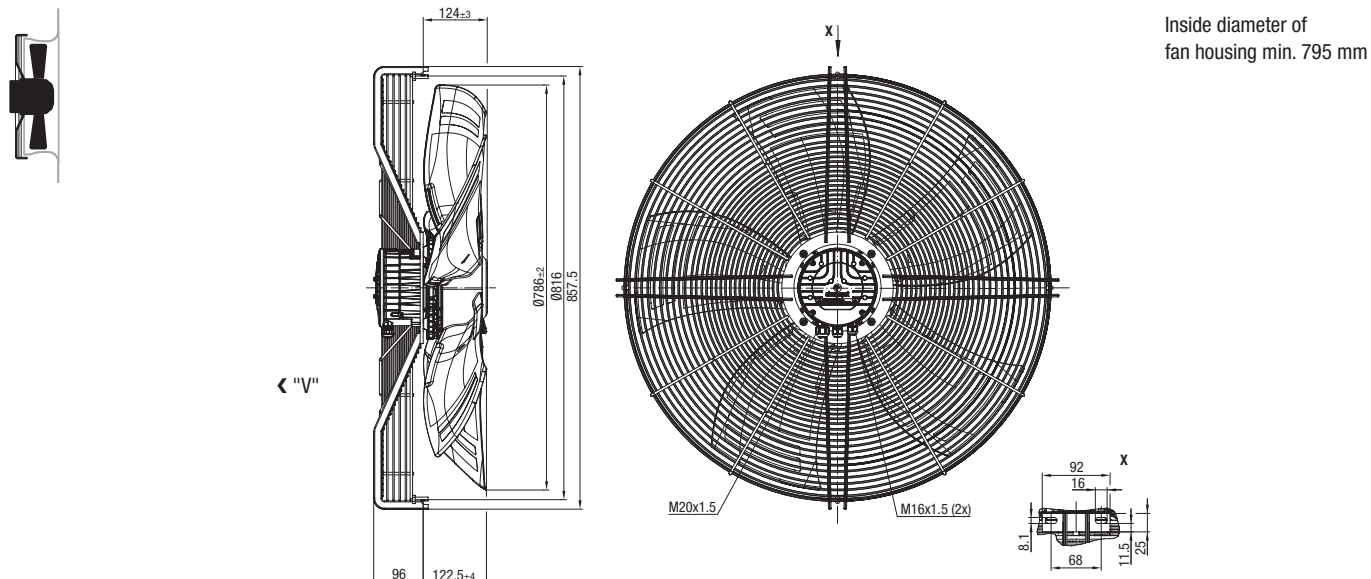
A3G 800-BD57-31 (without attachments, airflow direction "V")



W3G 800-GD57-31 (with square full nozzle, airflow direction "V")



S3G 800-BD57-31 (with guard grille for full nozzle, airflow direction "V")



EC axial fans – HyBlade®

Ø 800 with motor M3G 112



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

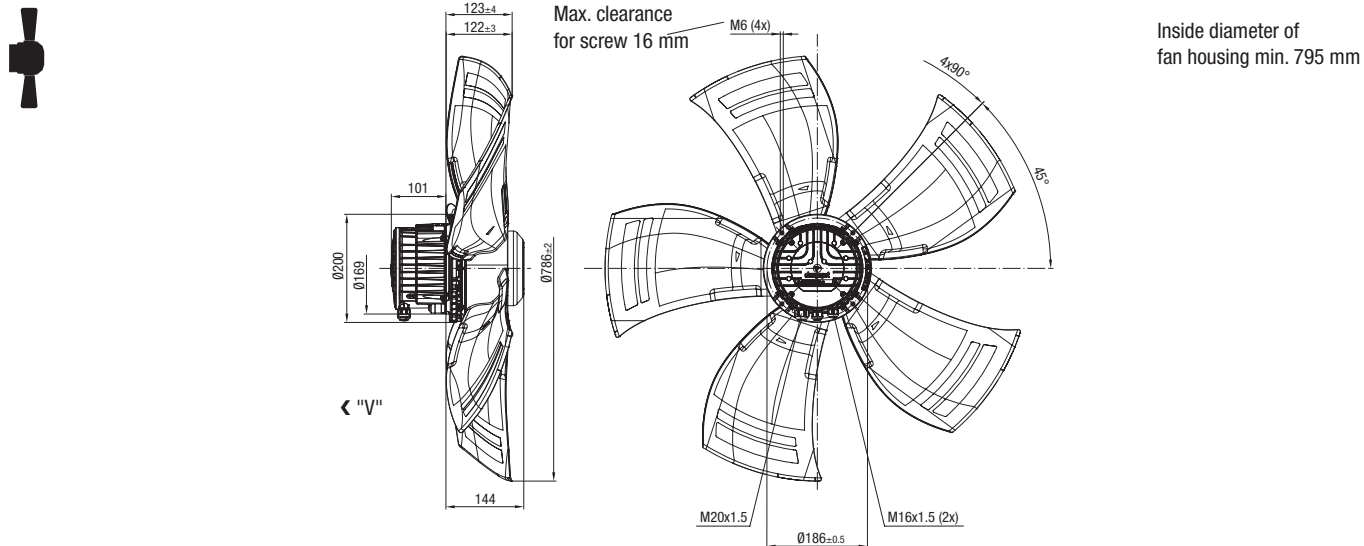
Ø 990

Ø 1250

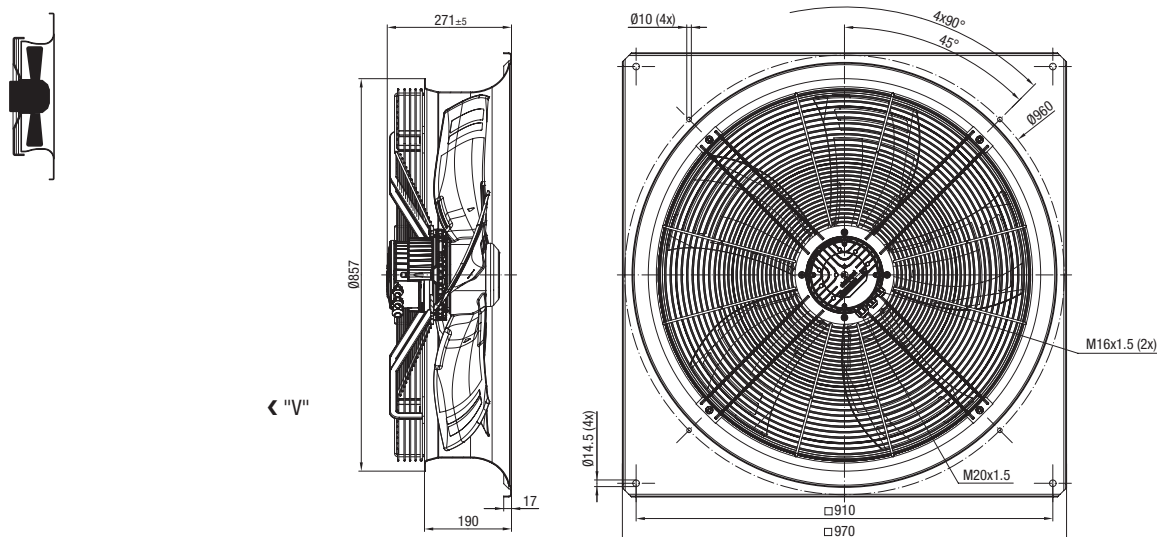
Technology

Agents

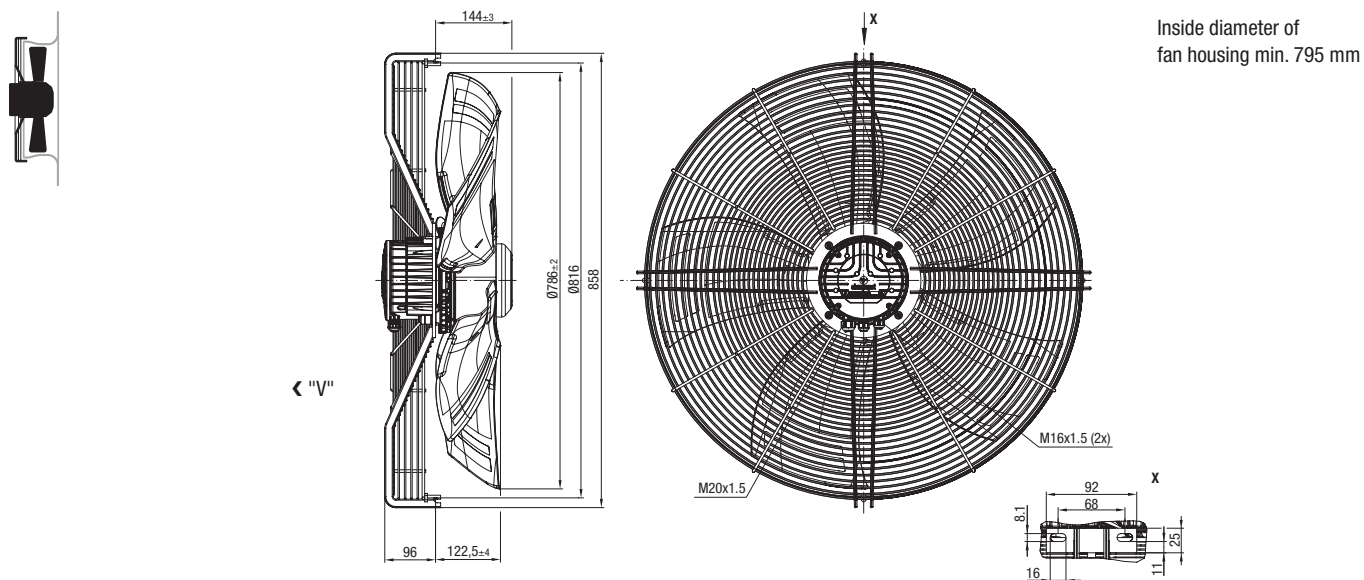
A3G 800-BG01-51 (without attachments, airflow direction "V")



W3G 800-GG01-51 (with square full nozzle, airflow direction "V")



S3G 800-BG01-51 (with guard grille for full nozzle, airflow direction "V")

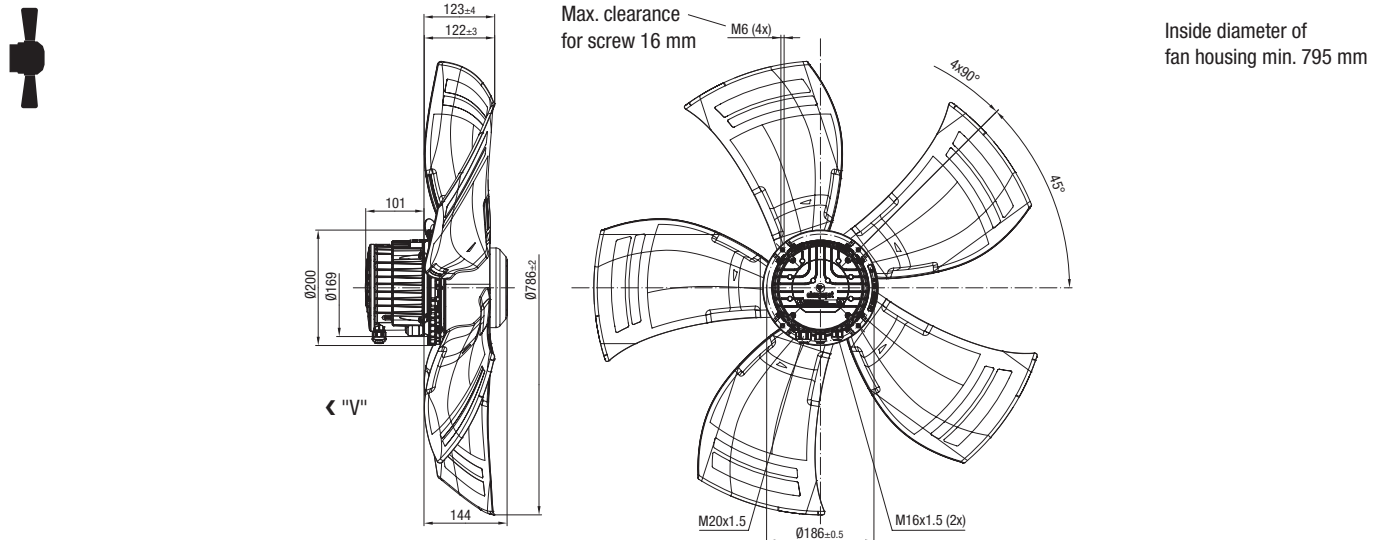


EC axial fans – HyBlade®

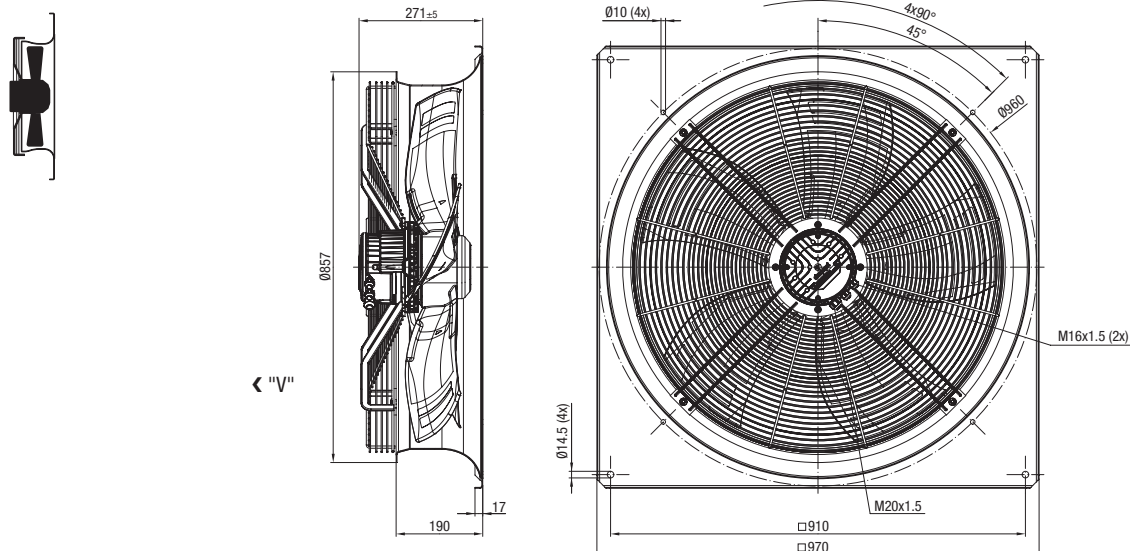
Ø 800 with motor M3G 112



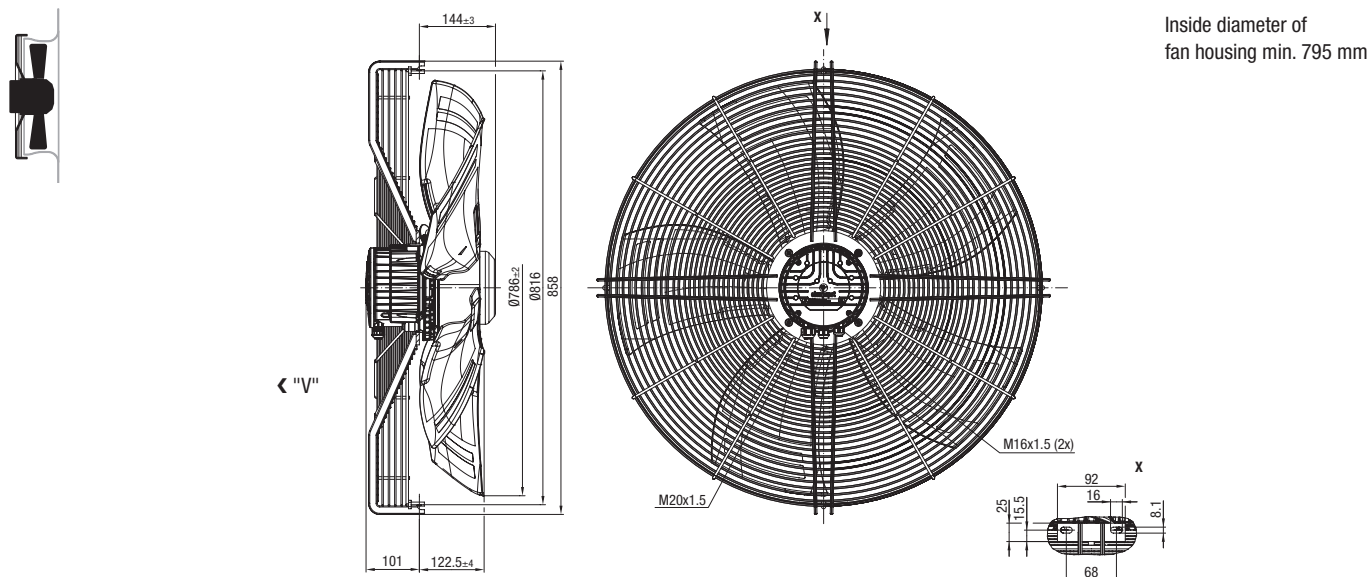
A3G 800-BG95-21 (without attachments, airflow direction "V")



W3G 800-GG95-21 (with square full nozzle, airflow direction "V")



S3G 800-BG95-21 (with guard grille for full nozzle, airflow direction "V")



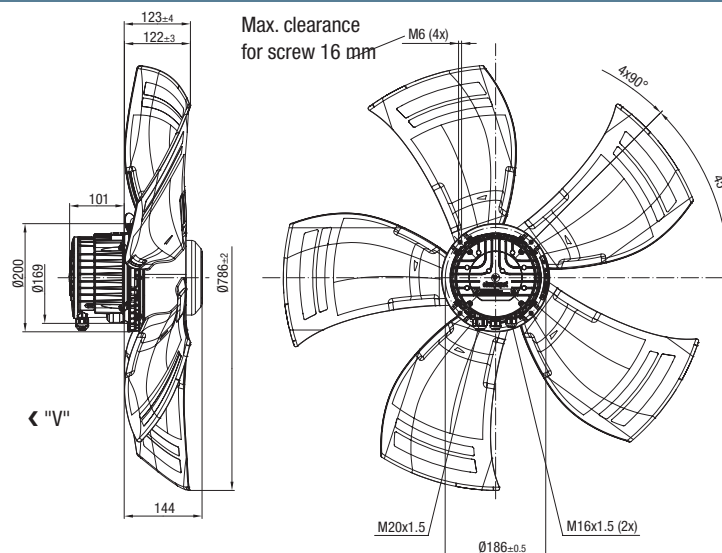
Agents	Technology	Ø 1250	Ø 990	Ø 910	Ø 800	Ø 710	Ø 630	Ø 560	Ø 500	Ø 450	Ø 400	Ø 350	Ø 300	Ø 250	Ø 200	Information
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EC axial fans – HyBlade®

Ø 800 with motor M3G 112

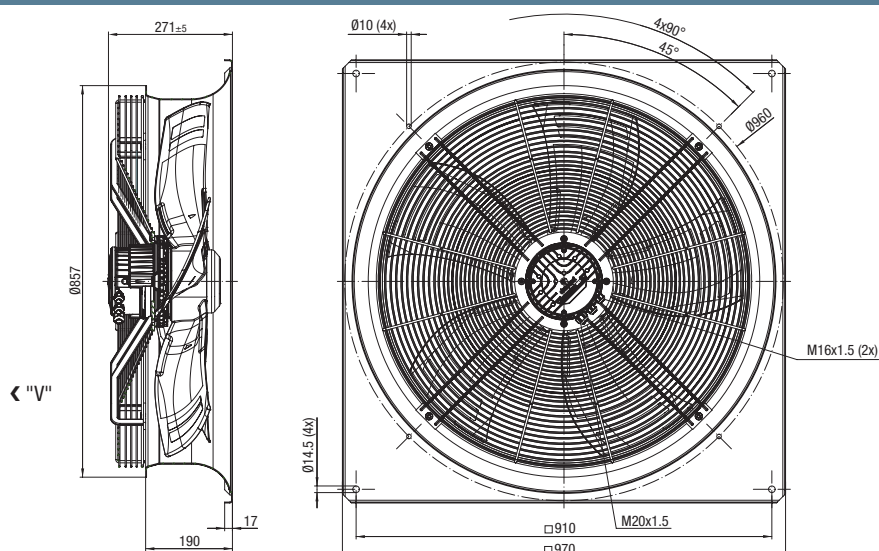


A3G 800-BG95-01 (without attachments, airflow direction "V")

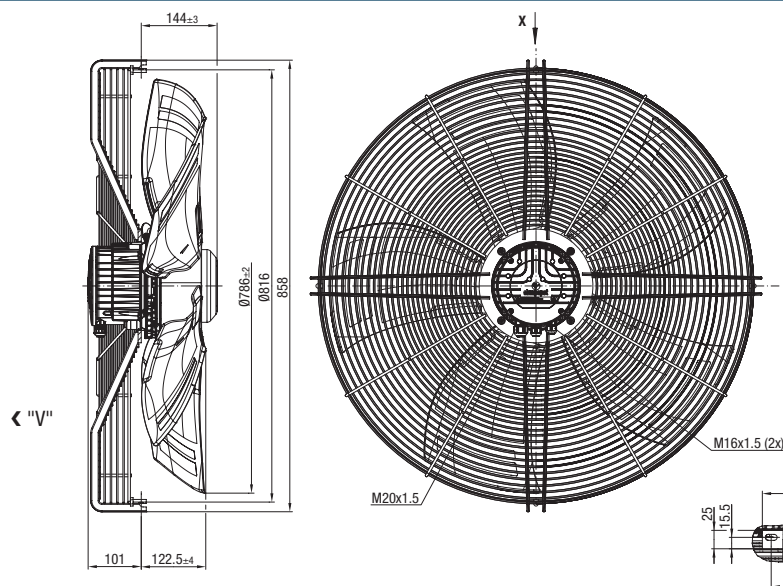


Inside diameter of fan housing min. 795 mm

W3G 800-GG95-01 (with square full nozzle, airflow direction "V")



S3G 800-BG95-01 (with guard grille for full nozzle, airflow direction "V")



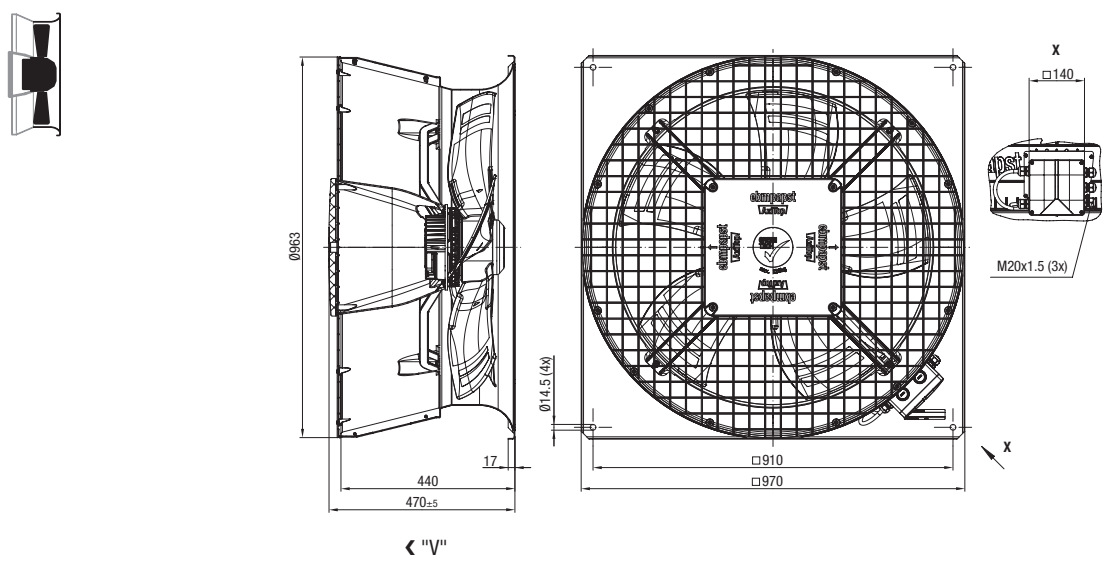
Inside diameter of fan housing min. 795 mm

EC axial fans – HyBlade®

Ø 800 with motor M3G 112, AxiTop



W3G 800-HG95-01 (with square full nozzle and diffuser, airflow direction "V") - AxiTop -

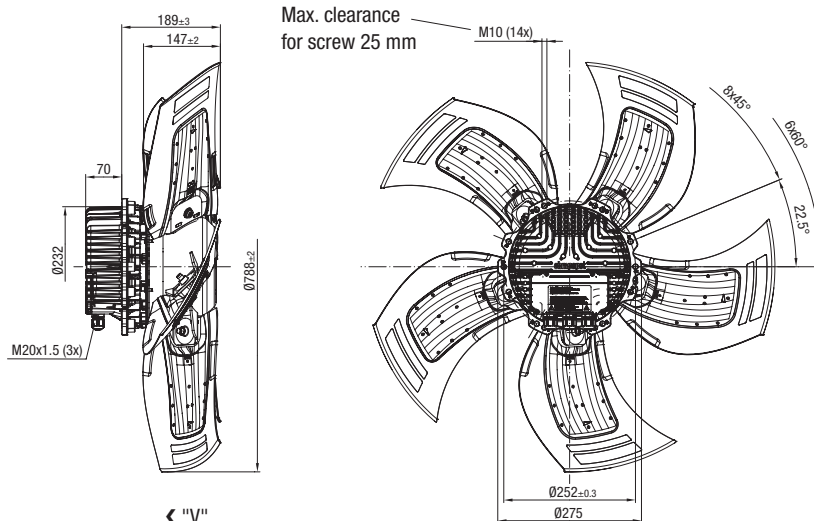


EC axial fans – HyBlade®

Ø 800 with motor M3G 150

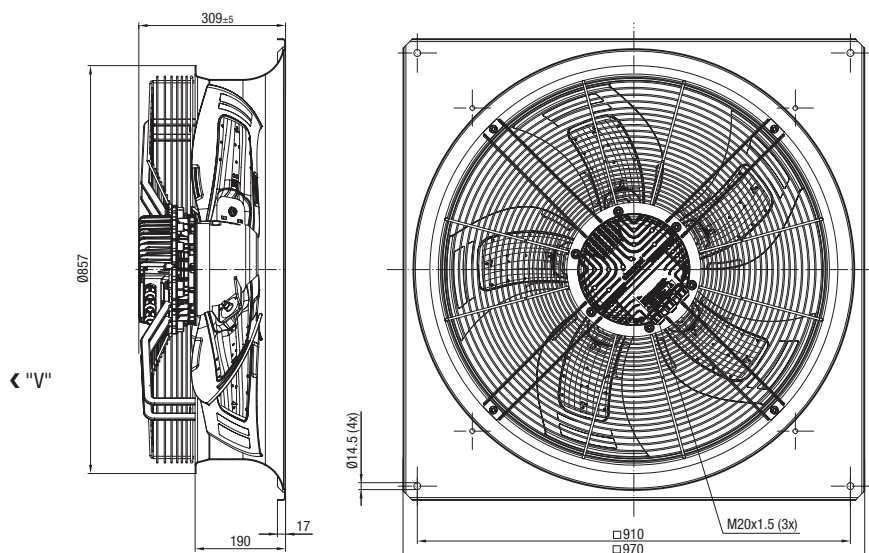


A3G 800-AS26-71 (without attachments, airflow direction "V")

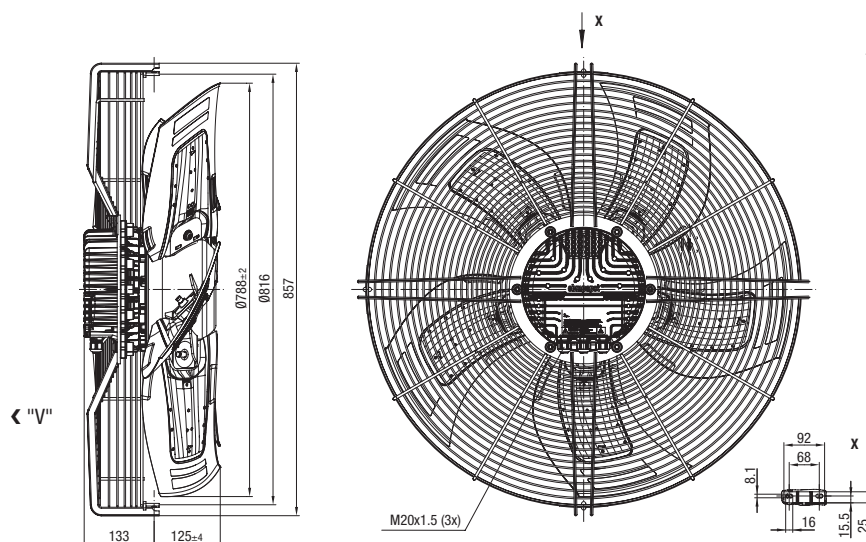


Inside diameter of fan housing min. 795 mm

W3G 800-GS26-71 (with square full nozzle, airflow direction "V")



S3G 800-BS26-71 (with guard grille for full nozzle, airflow direction "V")



Inside diameter of fan housing min. 795 mm

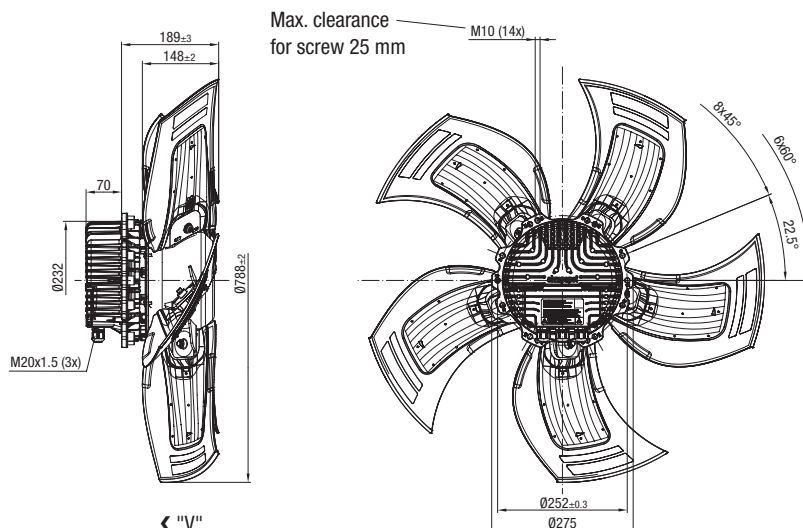
Agents	Technology	Ø 1250	Ø 990	Ø 910	Ø 800	Ø 710	Ø 630	Ø 560	Ø 500	Ø 450	Ø 400	Ø 350	Ø 300	Ø 250	Ø 200	Information
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EC axial fans – HyBlade®

Ø 800 with motor M3G 150

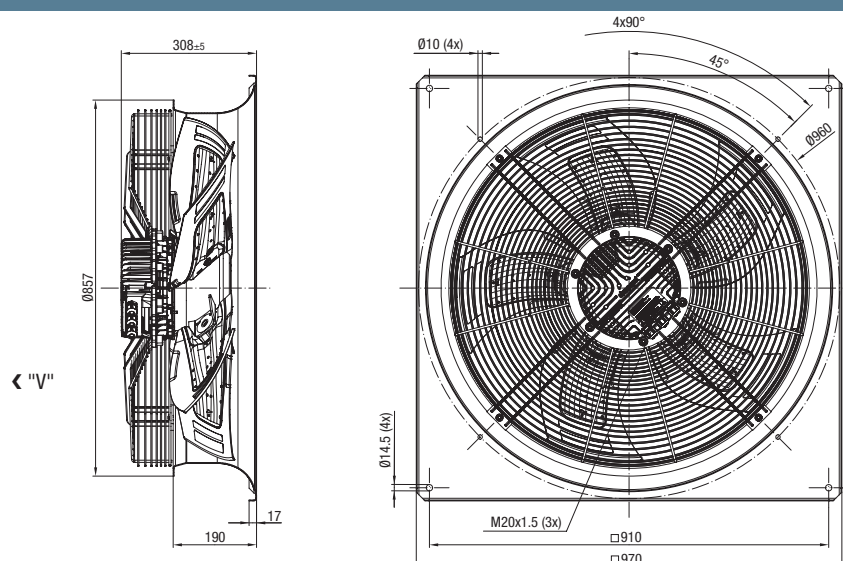


A3G 800-AU23-71 (without attachments, airflow direction "V")

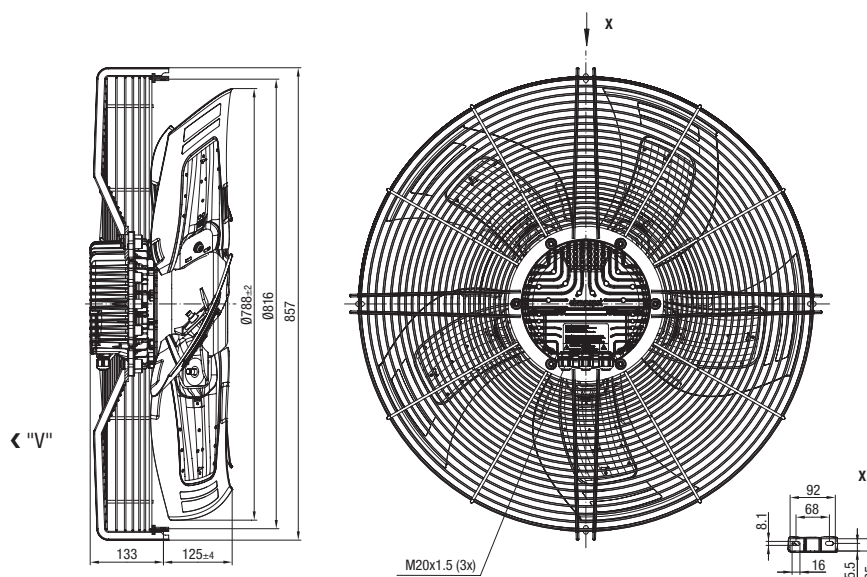


Inside diameter of fan housing min. 795 mm

W3G 800-GU23-71 (with square full nozzle, airflow direction "V")



S3G 800-BU23-71 (with guard grille for full nozzle, airflow direction "V")



Inside diameter of fan housing min. 795 mm

EC axial fans – HyBlade®

Ø 800 with motor M3G 150, AxiTop



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

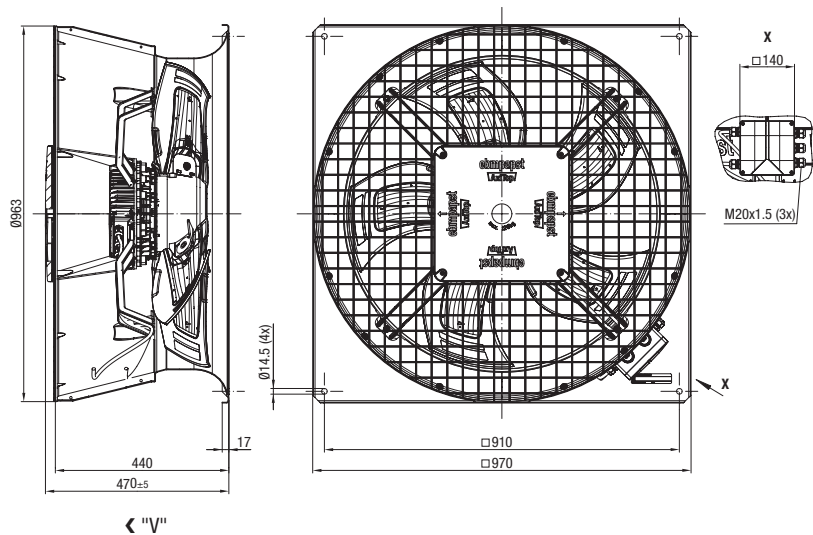
Ø 990

Ø 1250

Technology

Agents

W3G 800-HU23-71 (with square full nozzle and diffuser, airflow direction "V") - AxiTop -

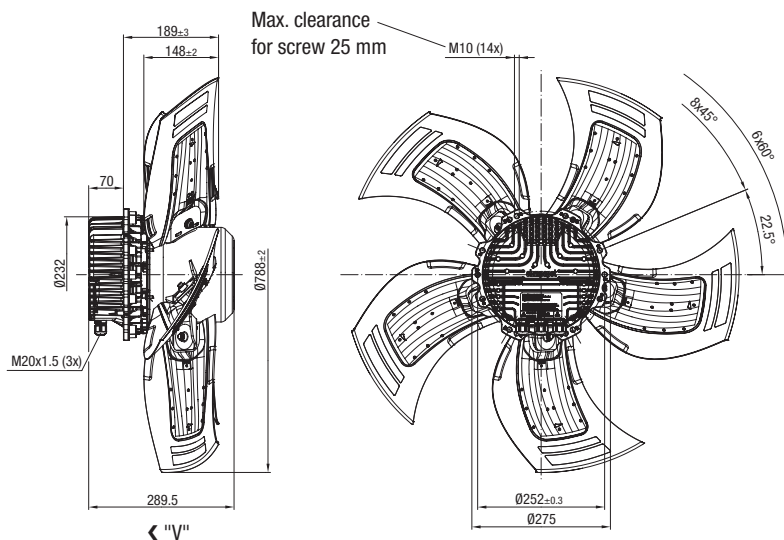


EC axial fans – HyBlade®

Ø 800 with motor M3G 150

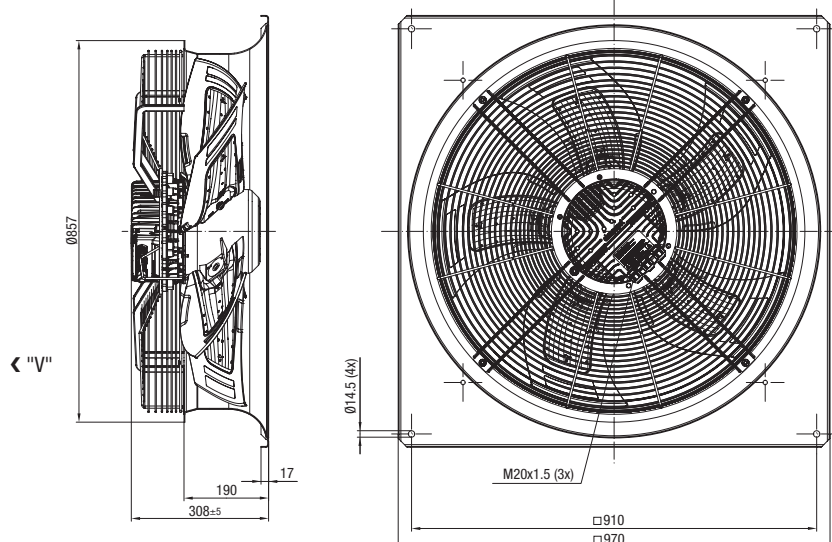


A3G 800-AV05-71 (without attachments, airflow direction "V")

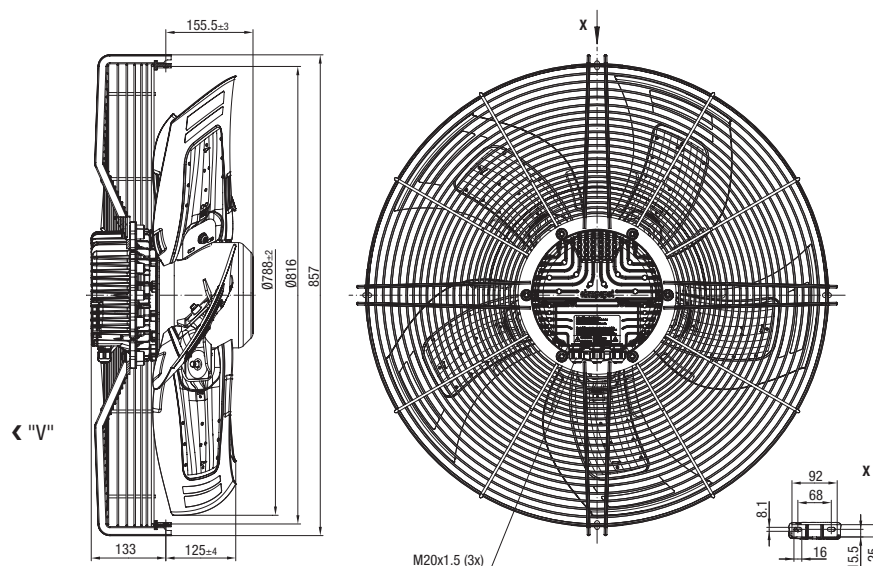


Inside diameter of fan housing min. 795 mm

W3G 800-GV05-71 (with square full nozzle, airflow direction "V")



S3G 800-BV05-71 (with guard grille for full nozzle, airflow direction "V")



Inside diameter of fan housing min. 795 mm

EC axial fans – HyBlade®

Ø 800 with motor M3G 150, AxiTop



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

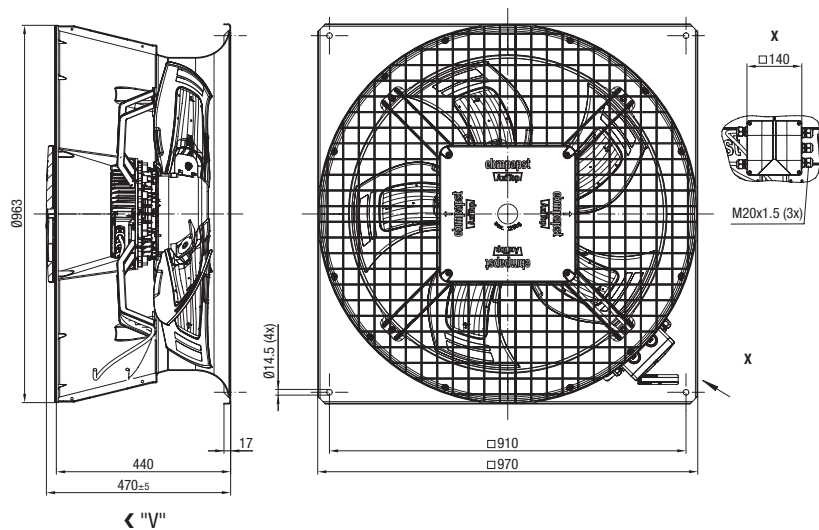
Ø 990

Ø 1250

Technology

Agents

W3G 800-HV05-71 (with square full nozzle and diffuser, airflow direction "V") - AxiTop -





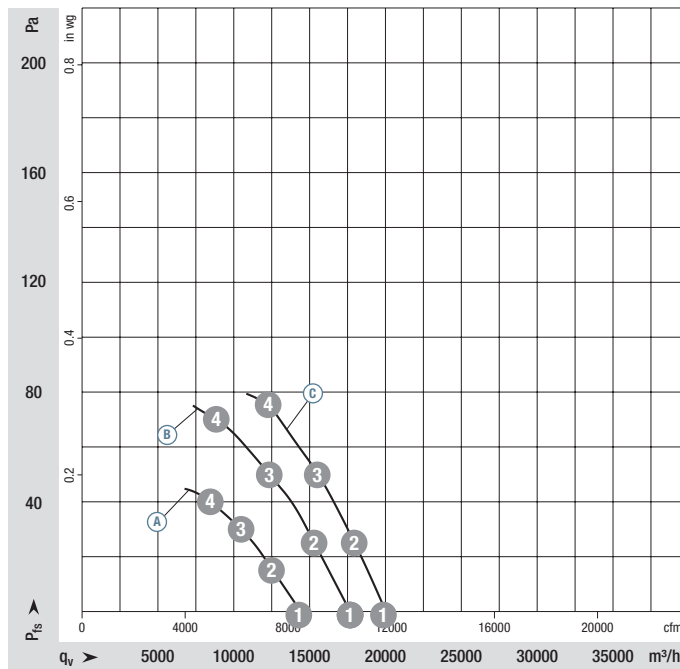
- Material:** Guard grille: Steel, coated with black plastic (RAL 9005)
Fan housing: Sheet steel, galvanized and coated with black plastic (RAL 9005)
Blades (5): (A) to (D) Press-fitted sheet steel blank, over-molded with PP plastic
(E) to (G) Aluminum insert, over-molded with PP plastic
Rotor: Painted black / Diffuser: PP plastic
Electronics housing: Die-cast aluminum, painted black
- Direction of rotation:** Clockwise viewed toward rotor
- Degree of protection:** IP55
- Insulation class:** "F"
- Installation position:** Shaft horizontal or rotor on bottom, rotor on top on request
- Condensation drainage holes:** Rotor side
- Mode:** Continuous operation (S1)
- Mounting:** Maintenance-free ball bearings

Nominal data		Blade pitch	Curve	Nominal voltage range	Frequency	Speed ⁽¹⁾	Max. input power ⁽¹⁾	Max. input current ⁽¹⁾	Max. back pressure	Perm. ambient temp.	Techn. features and connection diagram
Type	Motor			VAC	Hz	rpm	W	A	Pa	°C	
*3G 910	M3G 112-EA	---	(A)	1~200-277	50/60	450	250	1,10	40	-25...+60	P. 132 / P7)
*3G 910	M3G 112-GA	---	(B)	1~200-277	50/60	560	470	2,10	70	-25...+60	P. 132 / P7)
*3G 910	M3G 112-IA	---	(C)	1~200-277	50/60	620	630	2,80	75	-25 ⁽²⁾ ...+60	P. 132 / P7)
3G 910	M3G 112-IA	---	(D)	3~380-480	50/60	640	700	1,10	85	-25 ⁽²⁾ ...+60	P. 133 / P8) / P. 136 / M7*)
*3G 910	M3G 150-FF	0°	(E)	3~380-480	50/60	800	1550	2,50	130	-25 ⁽²⁾ ...+60	P. 134 / M5)
3G 910	M3G 150-IF	0°	(F)	3~380-480	50/60	885	2100	3,20	160	-25 ⁽²⁾ ...+60	P. 134 / M5) / P. 137 / M9*)
3G 910	M3G 150-NA	0°	(G)	3~380-480	50/60	1000	2880	4,40	190	-25 ⁽²⁾ ...+65	P. 134 / M5) / P. 137 / M9*)

Subject to change

(1) Nominal data at operating point with maximum load and 230 or 400 VAC. (*) AxiTop
(2) Occasional start-up between -40°C and -25°C is permissible. Continuous operation below -25°C only possible with special low-temperature bearings (on request).

Curves:



	n rpm	P _{ed} W	I A	L _{WA} dB(A)
(A) 1	450	154	0,73	61
(A) 2	450	191	0,88	59
(A) 3	450	224	1,01	58
(A) 4	450	250	1,10	60
(B) 1	560	284	1,29	66
(B) 2	560	352	1,57	64
(B) 3	560	413	1,83	64
(B) 4	560	470	2,10	67
(C) 1	620	406	1,84	68
(C) 2	620	493	2,20	66
(C) 3	620	564	2,49	65
(C) 4	620	630	2,80	68

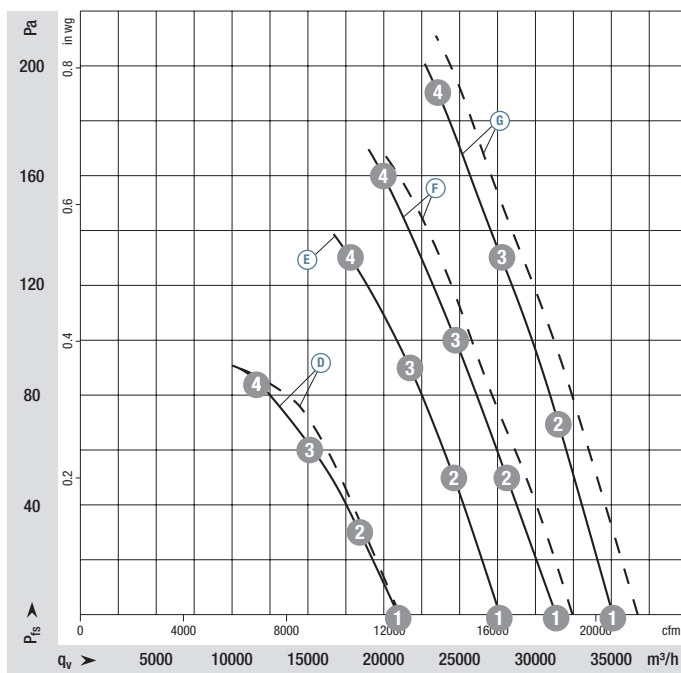
Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection.
Intake-side sound level: L_{WA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

- **Technical features:** See connection diagram P. 132 ff.
- **EMC:** Immunity to interference according to EN 61000-6-2 (industrial environment)
Circuit feedback according to EN 61000-3-2
Interference emission according to EN 61000-6-4 (industrial environment), according to household appliance standard on request
- **Touch current:** ≤ 3.5 mA according to IEC 60990 (measuring circuit Fig. 4)
- **Electrical connection:** Via terminal box
- **Protection class:** I (with customer connection of protective earth)
- **Conformity with standards:** (A) to (D) EN 61800-5-1, CE; EN 60335-1 in preparation
(E) (F) (G) EN 61800-5-1, CE
- **Approvals:** (B) (C) UL, CSA
(A) (D) UL, CSA planned
(E) (F) (G) EAC

Airflow direction		Weight without attachments		Weight with square full nozzle		Weight with guard grille for full nozzle		Weight with square full nozzle and diffuser
	without attachments- "V"	kg	with square full nozzle "V"	kg	with guard grille for full nozzle "V"	kg	with square full nozzle and diffuser (AxiTop) "V"	kg
"V"	A3G 910-BA79 -41	8,80	W3G 910-GA79 -41	32,50	S3G 910-BA79 -41	16,10	---	---
"V"	A3G 910-BD61 -31	10,30	W3G 910-GD61 -31	34,00	S3G 910-BD61 -31	17,60	---	---
"V"	A3G 910-BG02 -21	12,10	W3G 910-GG02 -21	35,80	S3G 910-BG02 -21	19,40	---	---
"V"	A3G 910-BG02 -51	12,00	W3G 910-GG02 -51	35,70	S3G 910-BG02 -51	19,30	W3G 910-HG02 -51	42,50
"V"	A3G 910-AS39 -71	23,00	W3G 910-GS39 -71	47,00	S3G 910-BS39 -71	31,00	---	---
"V"	A3G 910-AU27 -71	25,50	W3G 910-GU27 -71	49,50	S3G 910-BU27 -71	33,50	W3G 910-HU27 -71	57,00
"V"	A3G 910-AV12 -71	31,50	W3G 910-GV12 -71	55,50	S3G 910-BV12 -71	39,50	W3G 910-HV12 -71	63,00

Airflow direction "A" on request

Curves:



Air performance measured according to ISO 5801, installation category A, in ebm-papst full nozzle without contact protection.
Intake-side sound level: L_{wA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

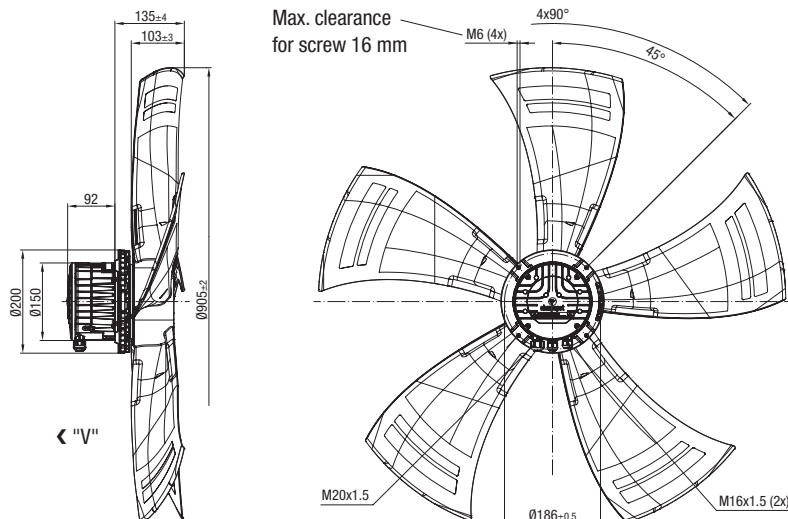
	n rpm	P_{ed} W	I A	L_{wA} dB(A)
(D) 1	640	444	0,76	70
(D) 2	640	542	0,90	67
(D) 3	640	622	1,02	67
(D) 4	640	700	1,10	70
(E) 1	800	1040	1,74	73
(E) 2	800	1267	2,06	72
(E) 3	800	1440	2,30	72
(E) 4	800	1550	2,50	75
(F) 1	885	1406	2,25	77
(F) 2	885	1631	2,58	76
(F) 3	885	1835	2,88	75
(F) 4	885	2100	3,20	78
(G) 1	1000	1973	3,09	79
(G) 2	1000	2282	3,54	78
(G) 3	1000	2582	3,99	78
(G) 4	1000	2880	4,40	80

EC axial fans – HyBlade®

Ø 910 with motor M3G 112

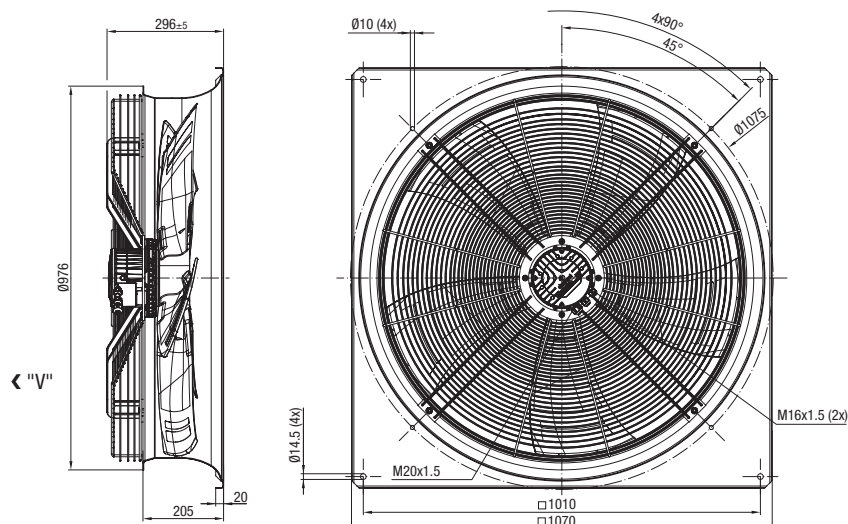


A3G 910-BA79-41 (without attachments, airflow direction "V")

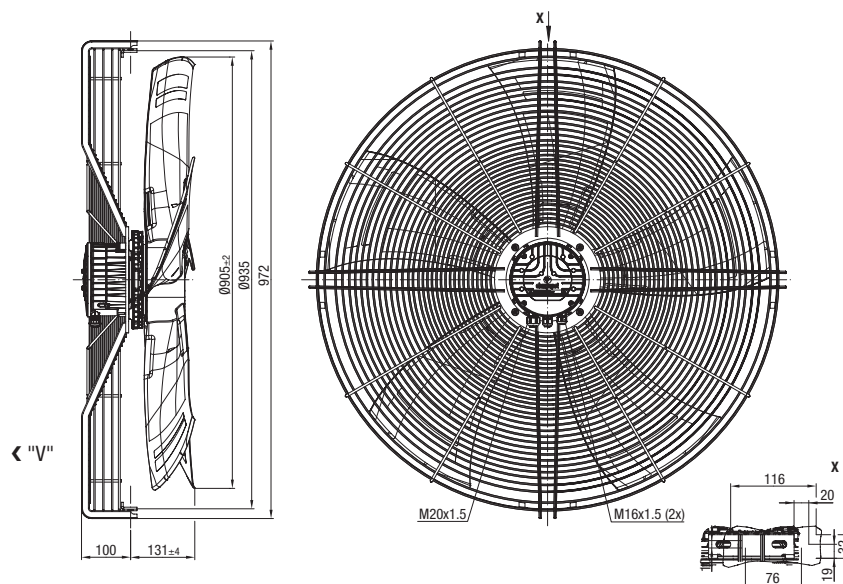


Inside diameter of fan housing min. 913 mm

W3G 910-GA79-41 (with square full nozzle, airflow direction "V")



S3G 910-BA79-41 (with guard grille for full nozzle, airflow direction "V")



Inside diameter of fan housing min. 913 mm

EC axial fans – HyBlade®

Ø 910 with motor M3G 112



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

Ø 990

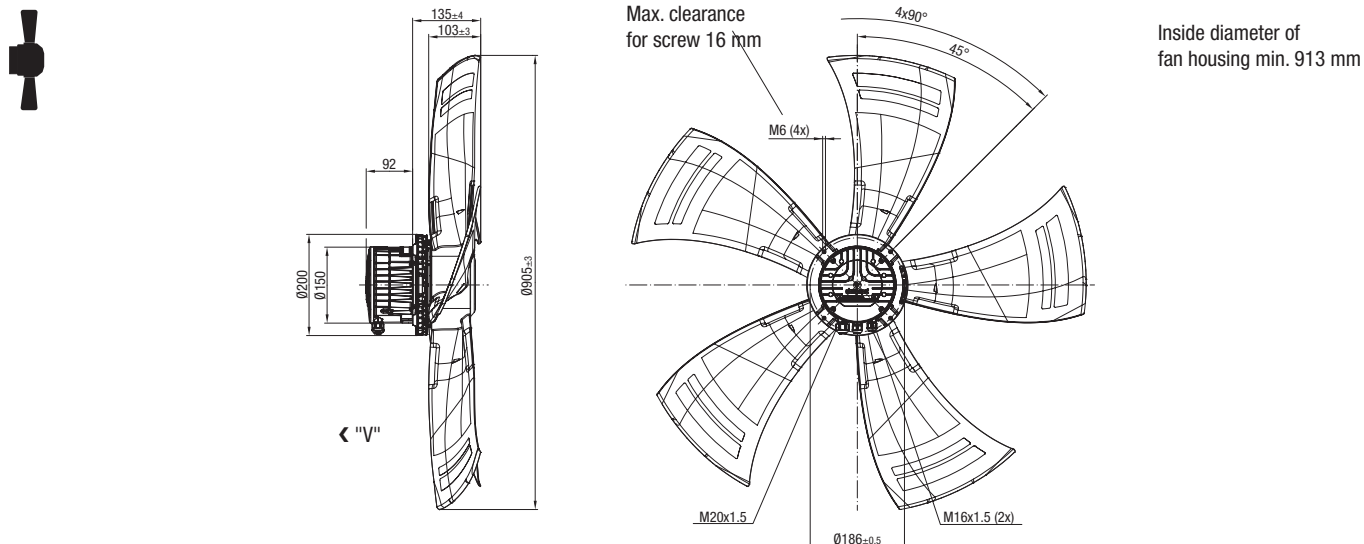
Ø 1250

Technology

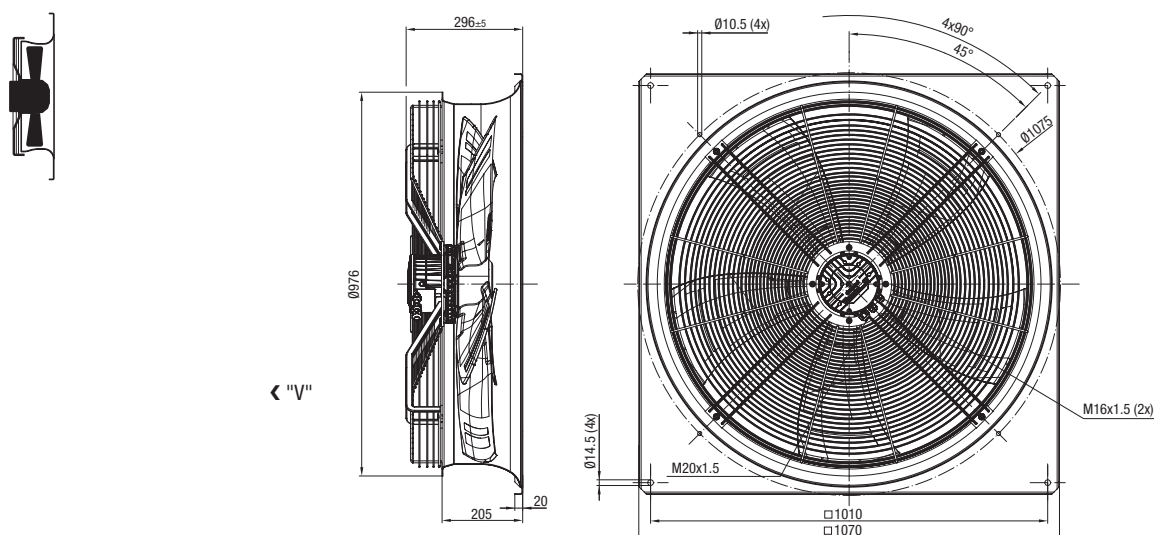
Agents

2015-09

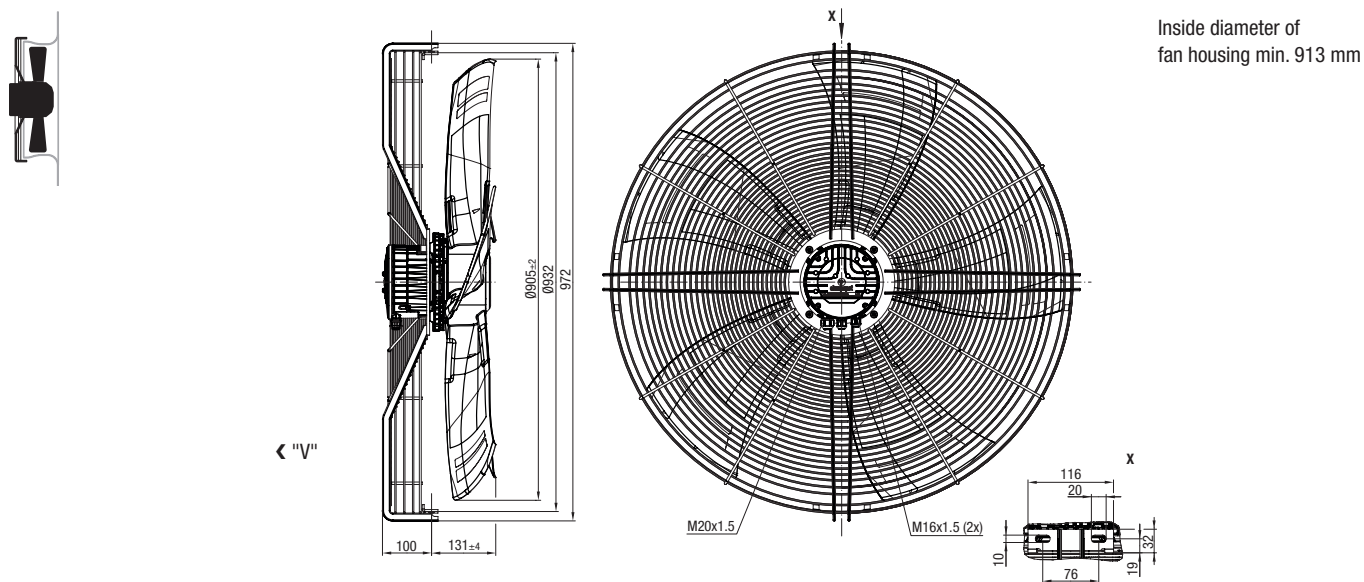
A3G 910-BD61-31 (without attachments, airflow direction "V")



W3G 910-GD61-31 (with square full nozzle, airflow direction "V")



S3G 910-BD61-31 (with guard grille for full nozzle, airflow direction "V")

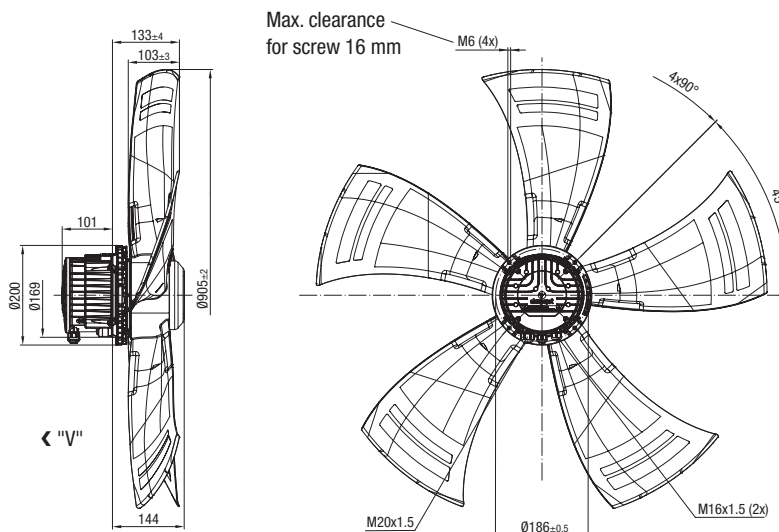


EC axial fans – HyBlade®

Ø 910 with motor M3G 112

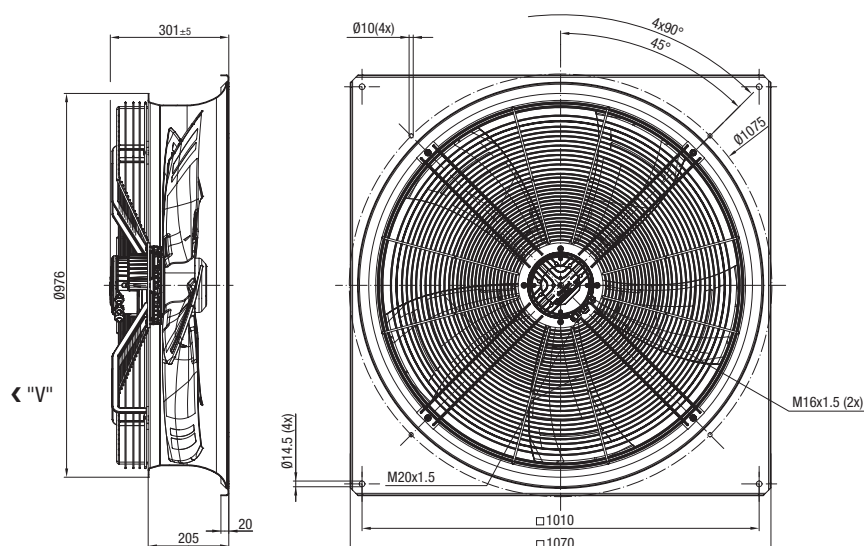


A3G 910-BG02-21 (without attachments, airflow direction "V")

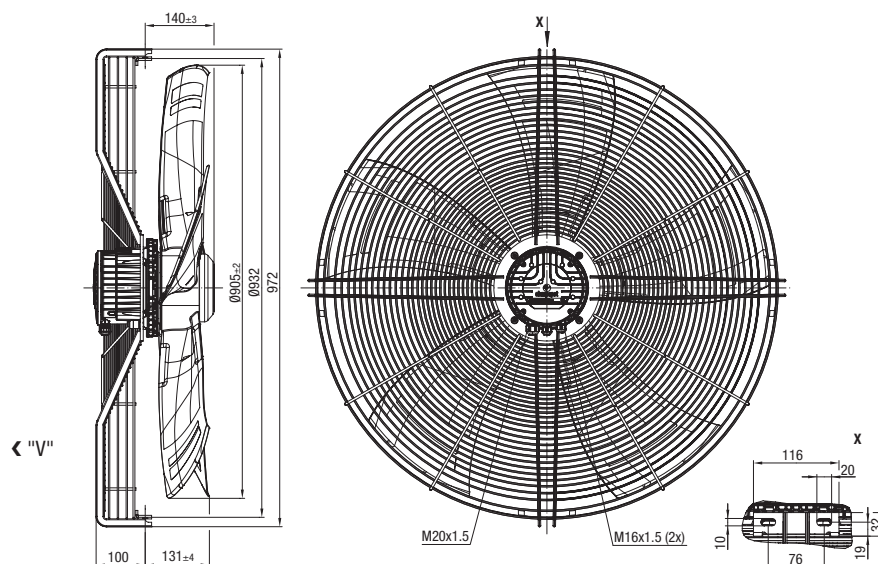


Inside diameter of fan housing min. 913 mm

W3G 910-GG02-21 (with square full nozzle, airflow direction "V")



S3G 910-BG02-21 (with guard grille for full nozzle, airflow direction "V")



Inside diameter of fan housing min. 913 mm

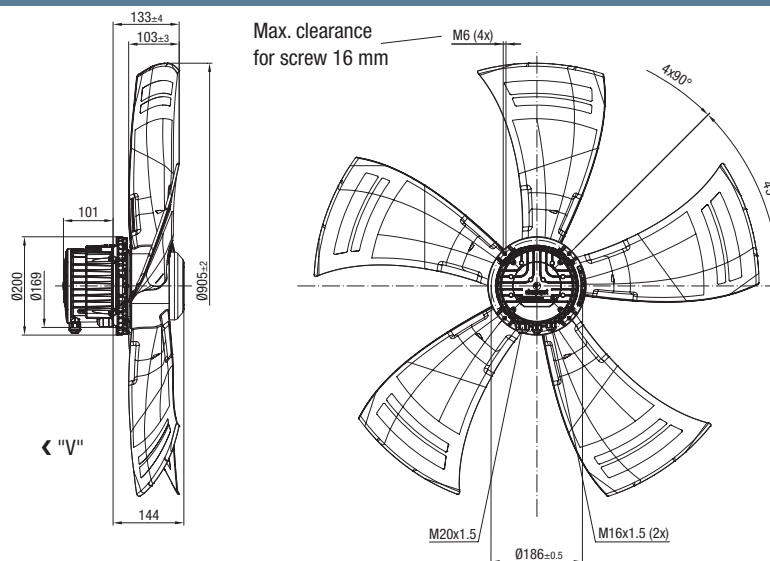
Agents	Technology	Ø 1250	Ø 990	Ø 910	Ø 800	Ø 710	Ø 630	Ø 560	Ø 500	Ø 450	Ø 400	Ø 350	Ø 300	Ø 250	Ø 200	Information
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EC axial fans – HyBlade®

Ø 910 with motor M3G 112

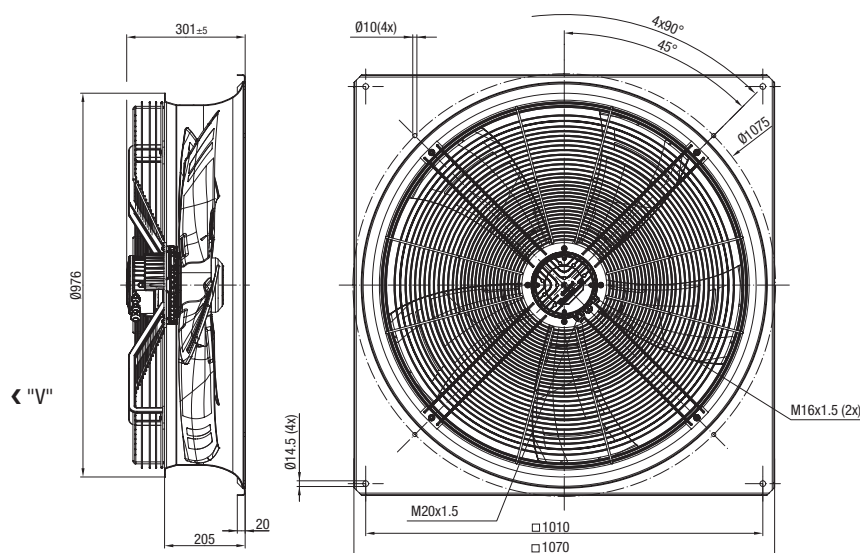


A3G 910-BG02-51 (without attachments, airflow direction "V")

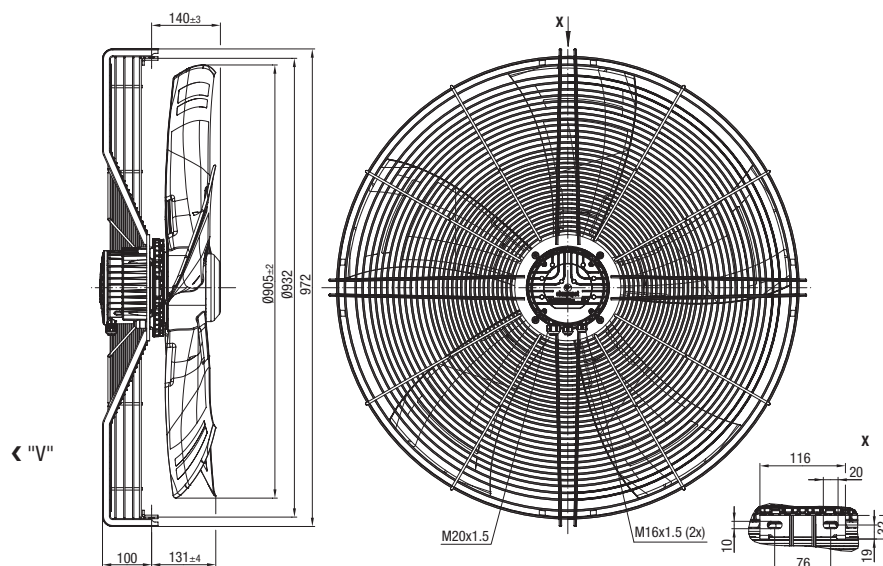


Inside diameter of fan housing min. 913 mm

W3G 910-GG02-51 (with square full nozzle, airflow direction "V")



S3G 910-BG02-51 (with guard grille for full nozzle, airflow direction "V")



Inside diameter of fan housing min. 913 mm

EC axial fans – HyBlade®

Ø 910 with motor M3G 112, AxiTop



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

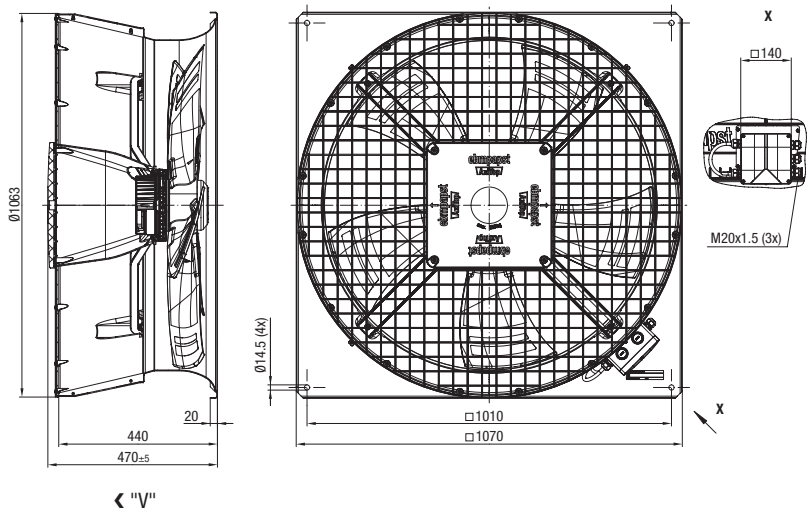
Ø 990

Ø 1250

Technology

Agents

W3G 910-HG02-51 (with square full nozzle and diffuser, airflow direction "V") - AxiTop -

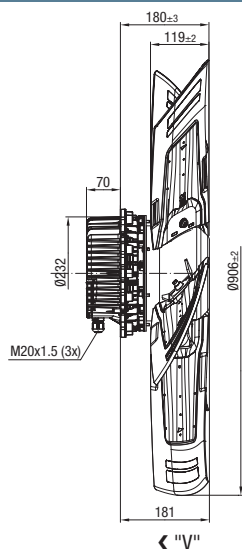


EC axial fans – HyBlade®

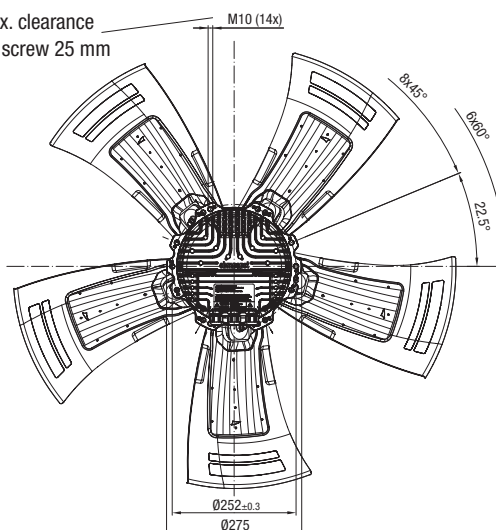
Ø 910 with motor M3G 150



A3G 910-AS39-71 (without attachments, airflow direction "V")

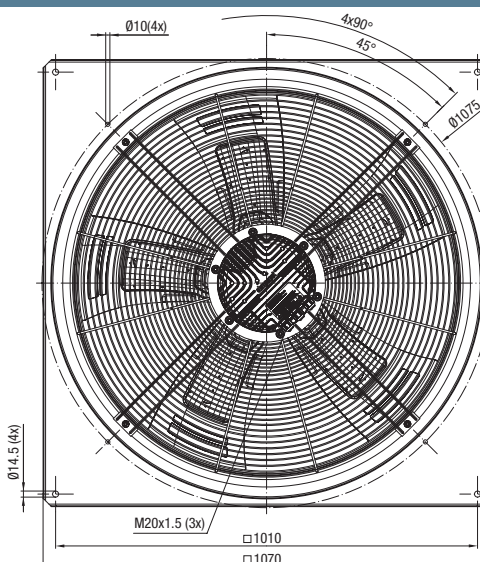
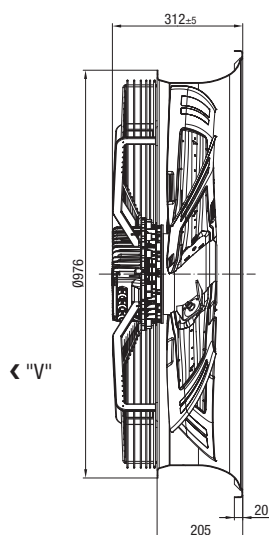


Max. clearance
for screw 25 mm

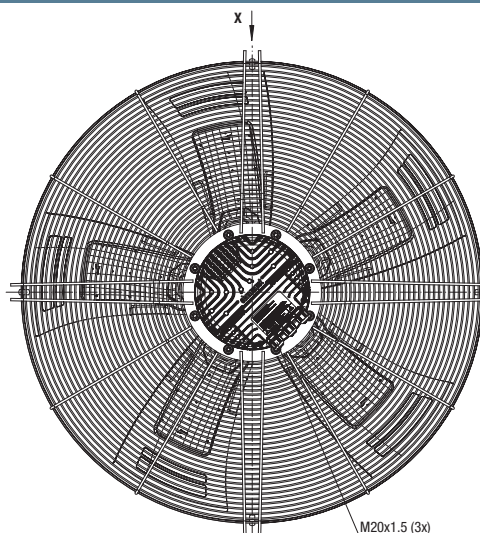
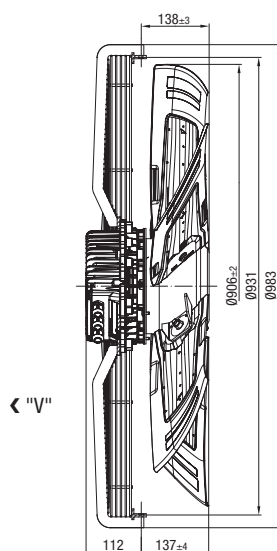


Inside diameter of
fan housing min. 913 mm

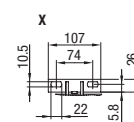
W3G 910-GS39-71 (with square full nozzle, airflow direction "V")



S3G 910-BS39-71 (with guard grille for full nozzle, airflow direction "V")



Inside diameter of
fan housing min. 913 mm



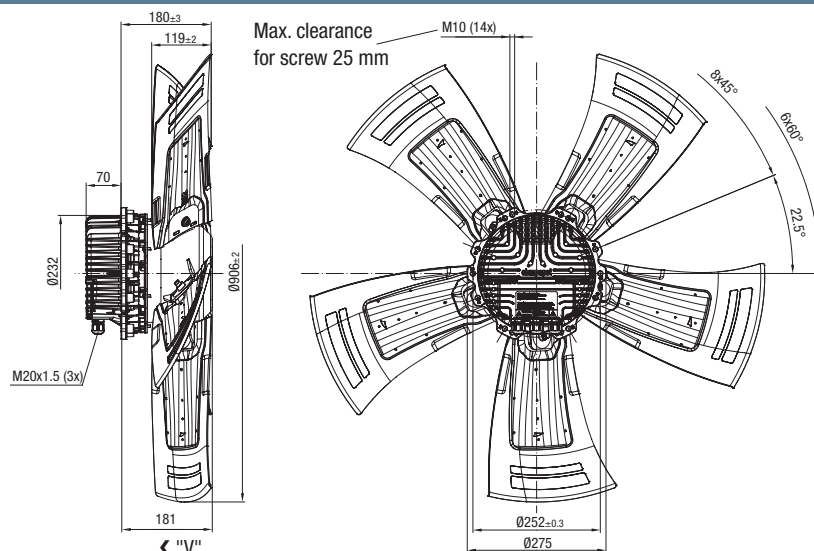
Agents	Technology	Ø 1250	Ø 990	Ø 910	Ø 800	Ø 710	Ø 630	Ø 560	Ø 500	Ø 450	Ø 400	Ø 350	Ø 300	Ø 250	Ø 200	Information
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EC axial fans – HyBlade®

Ø 910 with motor M3G 150

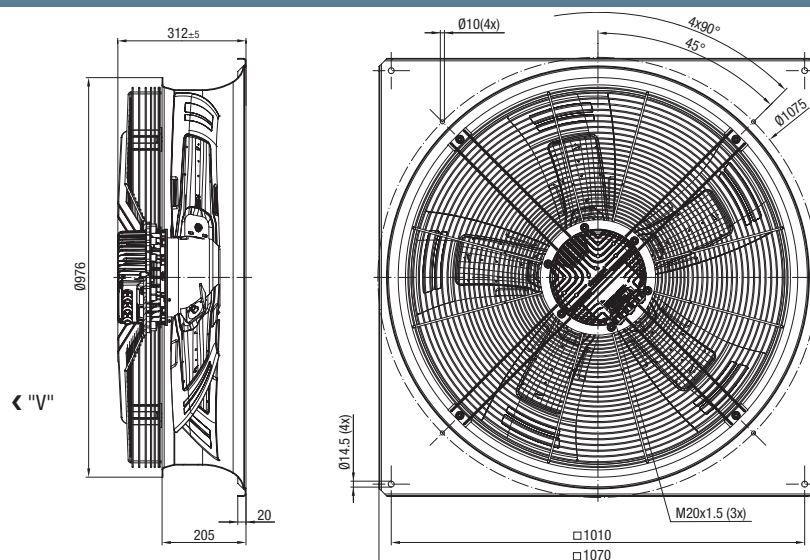


A3G 910-AU27-71 (without attachments, airflow direction "V")

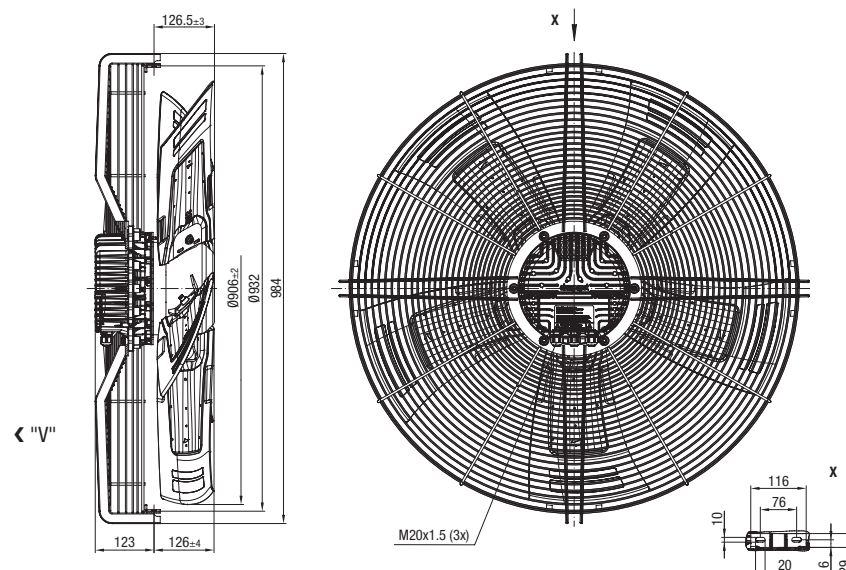


Inside diameter of fan housing min. 913 mm

W3G 910-GU27-71 (with square full nozzle, airflow direction "V")



S3G 910-BU27-71 (with guard grille for full nozzle, airflow direction "V")



Inside diameter of fan housing min. 913 mm

EC axial fans – HyBlade®

Ø 910 with motor M3G 150, AxiTop



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

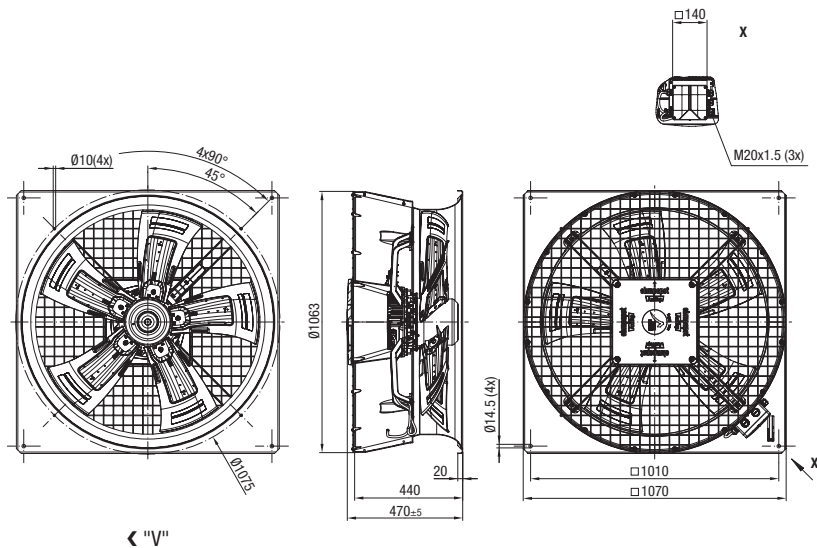
Ø 990

Ø 1250

Technology

Agents

W3G 910-HU27-71 (with square full nozzle and diffuser, airflow direction "V") - AxiTop -

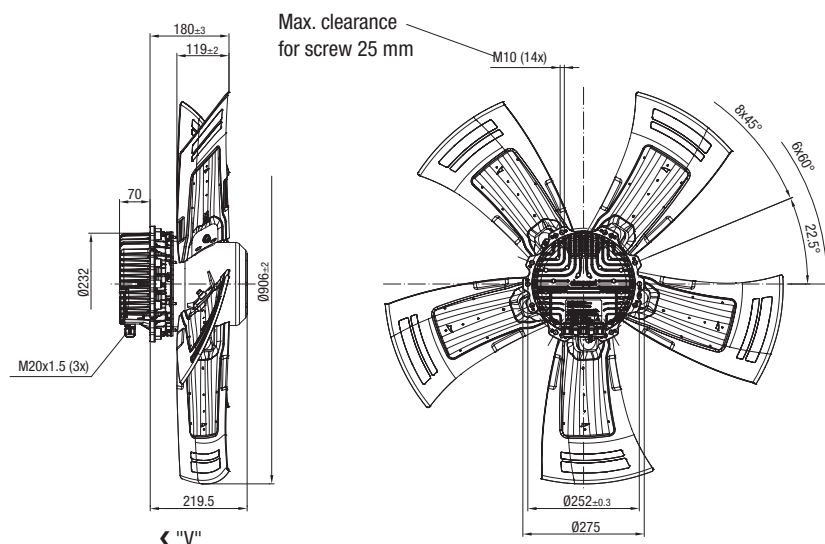


EC axial fans – HyBlade®

Ø 910 with motor M3G 150

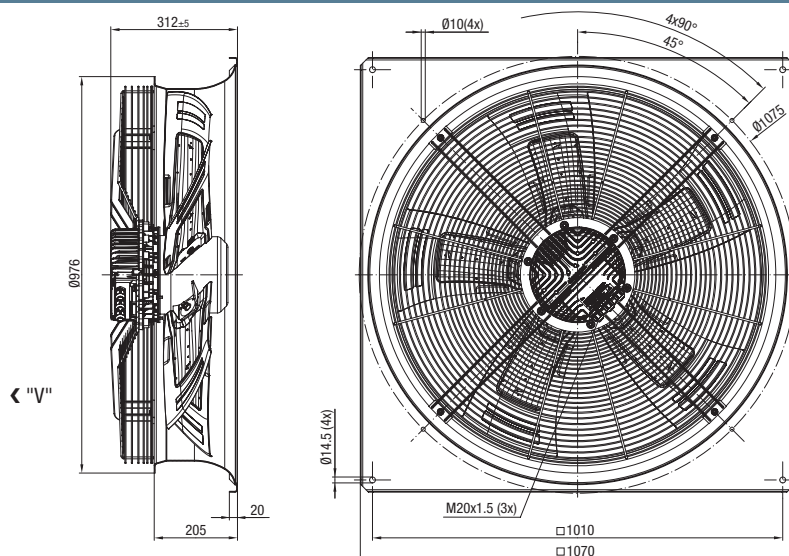


A3G 910-AV12-71 (without attachments, airflow direction "V")

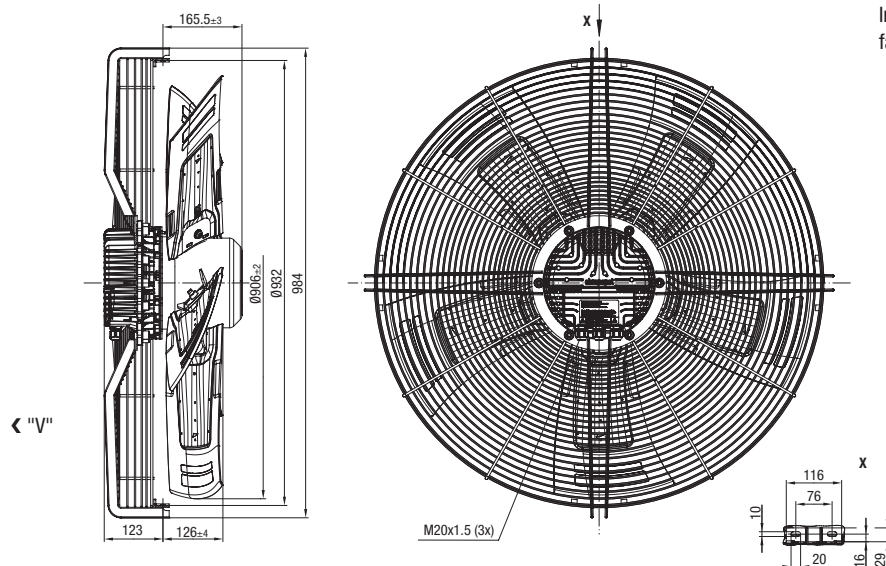


Inside diameter of fan housing min. 913 mm

W3G 910-GV12-71 (with square full nozzle, airflow direction "V")



S3G 910-BV12-71 (with guard grille for full nozzle, airflow direction "V")



Inside diameter of fan housing min. 913 mm

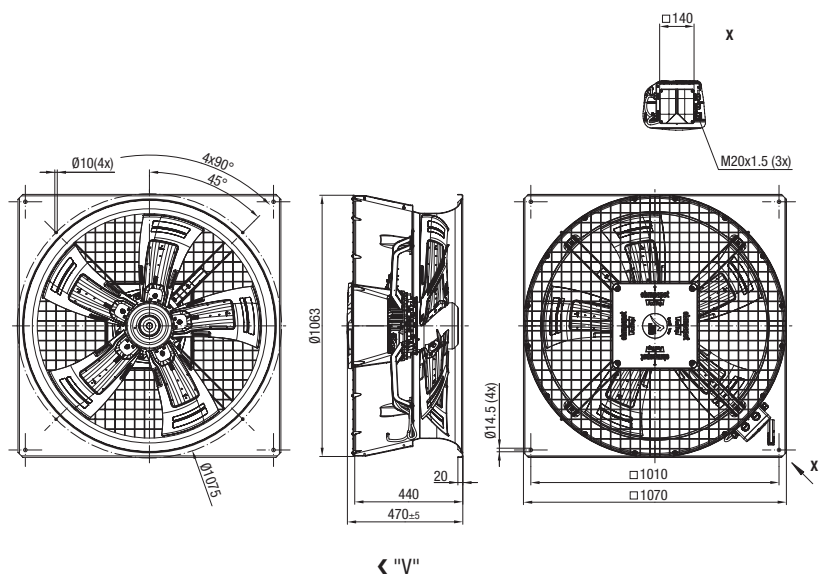
EC axial fans – HyBlade®

Ø 910 with motor M3G 150, AxiTop



Information

W3G 910-HV12-71 (with square full nozzle and diffuser, airflow direction "V") - AxiTop -



Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

Ø 990

Ø 1250

Technology

Agents



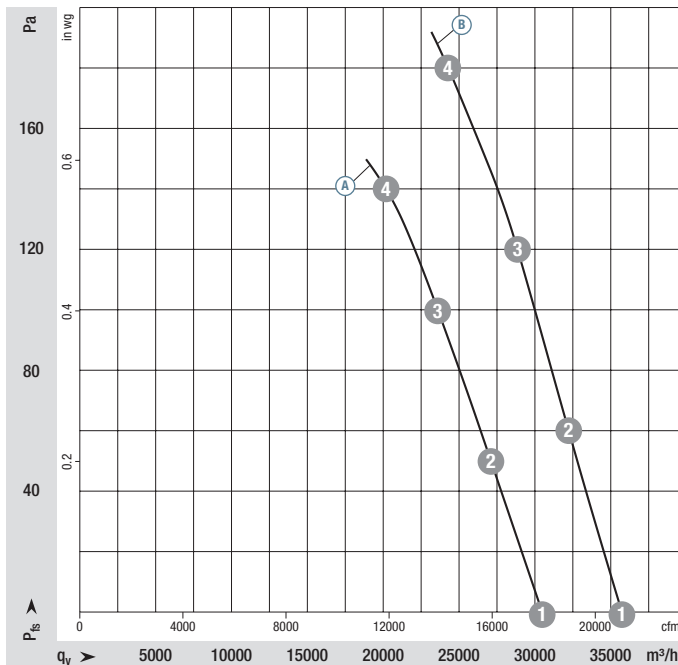
- **Material:** Guard grille: Steel, coated with black plastic (RAL 9005)
Fan housing: Sheet steel, galvanized and coated with black plastic (RAL 9005)
Blades: Aluminum insert, over-molded with PP plastic
Rotor: Painted black
Electronics housing: Die-cast aluminum, painted black
- **Number of blades:** 5
- **Direction of rotation:** Clockwise viewed toward rotor
- **Degree of protection:** IP55
- **Insulation class:** "F"
- **Installation position:** Shaft horizontal or rotor on bottom, rotor on top on request
- **Condensation drainage holes:** Rotor side
- **Mode:** Continuous operation (S1)
- **Mounting:** Maintenance-free ball bearings

Nominal data		Blade pitch	Curve	Nominal voltage range	Frequency	Speed ⁽¹⁾	Max. input power ⁽¹⁾	Max. input current ⁽¹⁾	Max. back pressure	Perm. ambient temp.	Techn. features and connection diagram
Type	Motor			VAC	Hz	rpm	W	A	Pa	°C	
*3G 990	M3G 150-IF	-5°	A	3~380-480	50/60	820	1650	2,60	140	-25 ⁽²⁾ ...+70	P. 134 / M5)
*3G 990	M3G 150-NA	-5°	B	3~380-480	50/60	960	2500	3,90	180	-25 ⁽²⁾ ...+65	P. 134 / M5)

Subject to change

(1) Nominal data at operating point with maximum load and 400 VAC.
(2) Occasional start-up between -40°C and -25°C is permissible. Continuous operation below -25°C only possible with special low-temperature bearings (on request).

Curves:



	n rpm	P _{ed} W	I A	L _{WA} dB(A)
A 1	820	947	1,61	80
A 2	820	1224	1,99	77
A 3	820	1465	2,34	78
A 4	820	1650	2,60	80
B 1	960	1478	2,36	84
B 2	960	1827	2,87	82
B 3	960	2176	3,38	82
B 4	960	2500	3,90	83

Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection.
Intake-side sound level: L_{WA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

- **Technical features:** See connection diagram P. 134
- **EMC:** Immunity to interference according to EN 61000-6-2 (industrial environment)
Circuit feedback according to EN 61000-3-2
Interference emission according to EN 61000-6-4 (industrial environment), according to household appliance standard on request
- **Touch current:** ≤ 3.5 mA according to IEC 60990 (measuring circuit Fig. 4)
- **Electrical connection:** Via terminal box
- **Protection class:** I (with customer connection of protective earth)
- **Conformity with standards:** EN 61800-5-1, CE
- **Approvals:** EAC

Airflow direction		Weight without attachments		Weight with square full nozzle		Weight with guard grille for full nozzle
	without attachments-	kg	with square full nozzle	kg	with guard grille for full nozzle	kg
"V"	A3G 990-AY22 -71	26,00	W3G 990-GY22 -71	55,00	S3G 990-BY22 -71	35,00
"V"	A3G 990-AZ01 -71	32,00	W3G 990-GZ01 -71	61,00	S3G 990-BZ01 -71	41,00

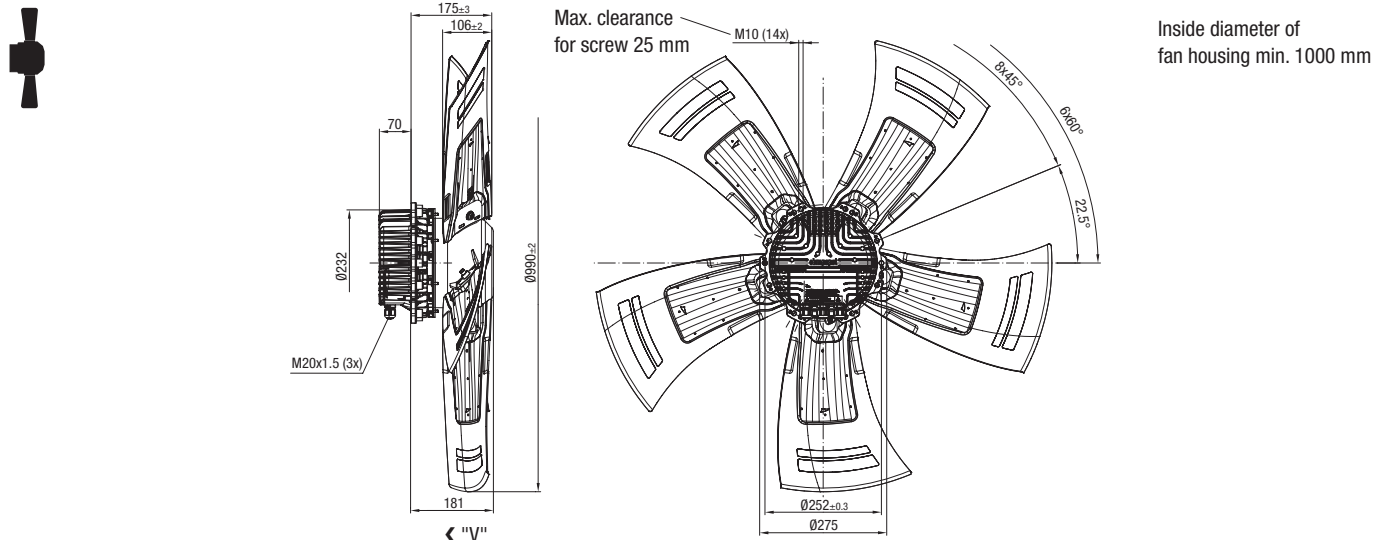
Airflow direction "A" on request

EC axial fans – HyBlade®

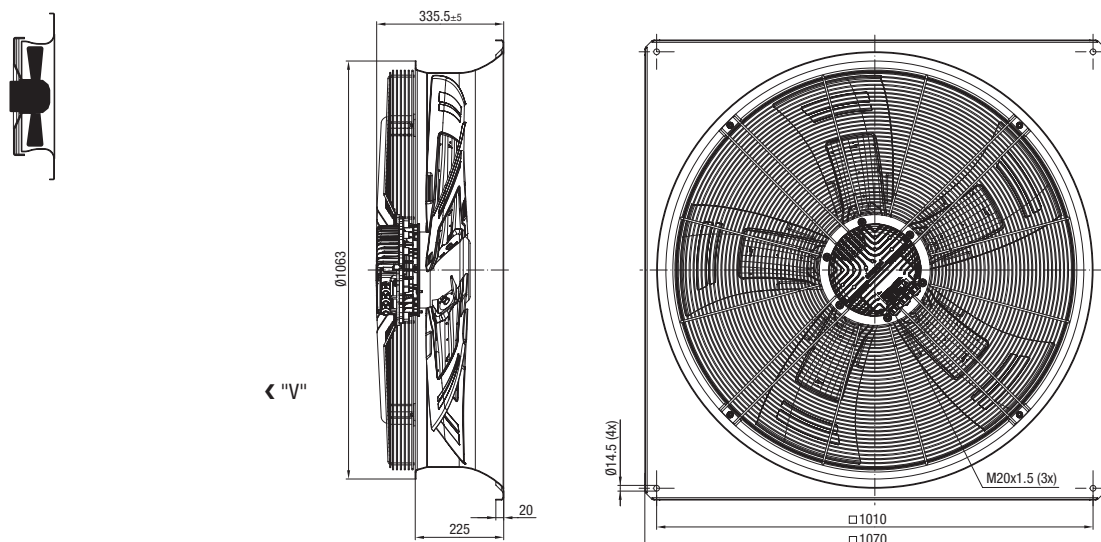
Ø 990 with motor M3G 150



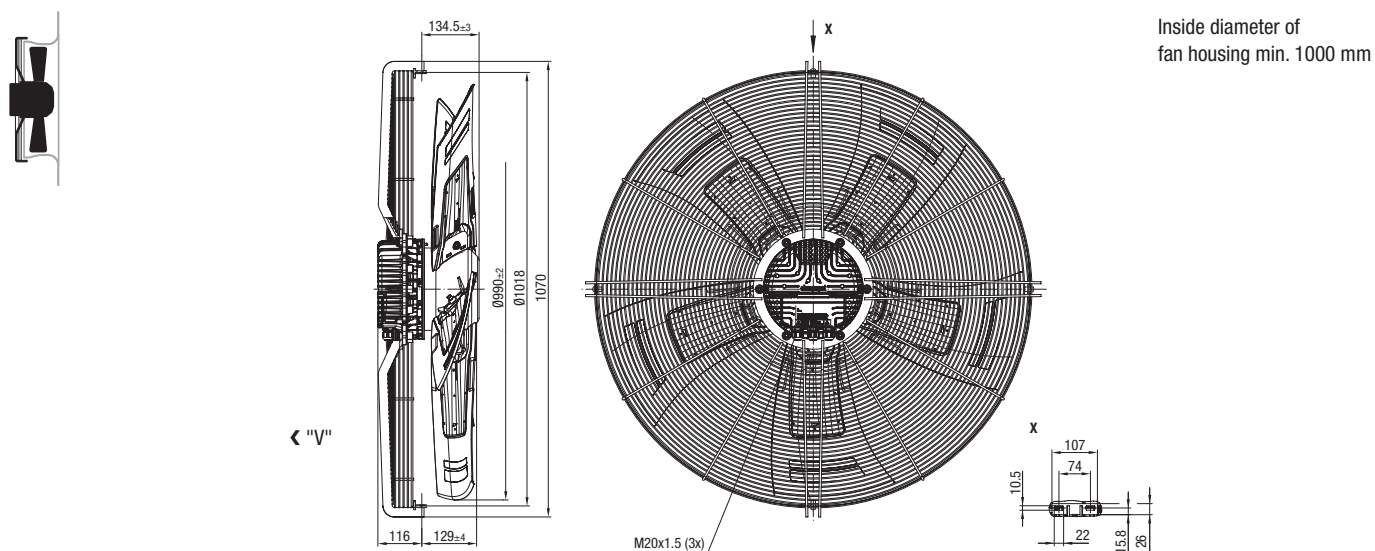
A3G 990-AY22-71 (without attachments, airflow direction "V")



W3G 990-GY22-71 (with square full nozzle, airflow direction "V")



S3G 990-BY22-71 (with guard grille for full nozzle, airflow direction "V")



EC axial fans – HyBlade®

Ø 990 with motor M3G 150



Information

Ø 200

Ø 250

Ø 300

Ø 350

Ø 400

Ø 450

Ø 500

Ø 560

Ø 630

Ø 710

Ø 800

Ø 910

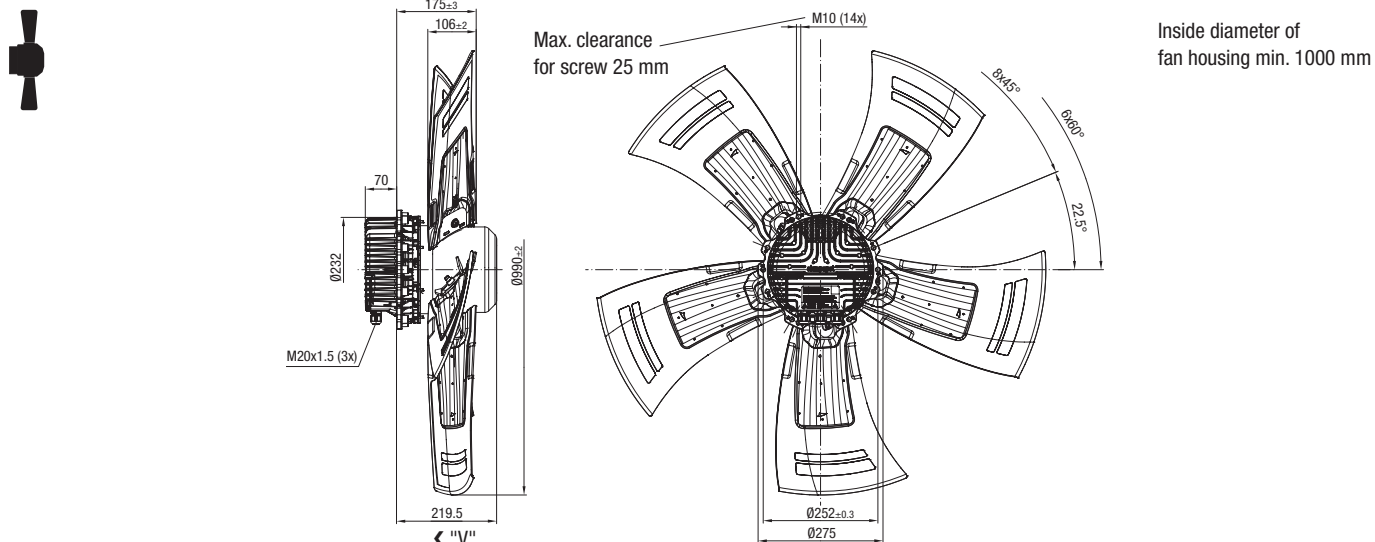
Ø 990

Ø 1250

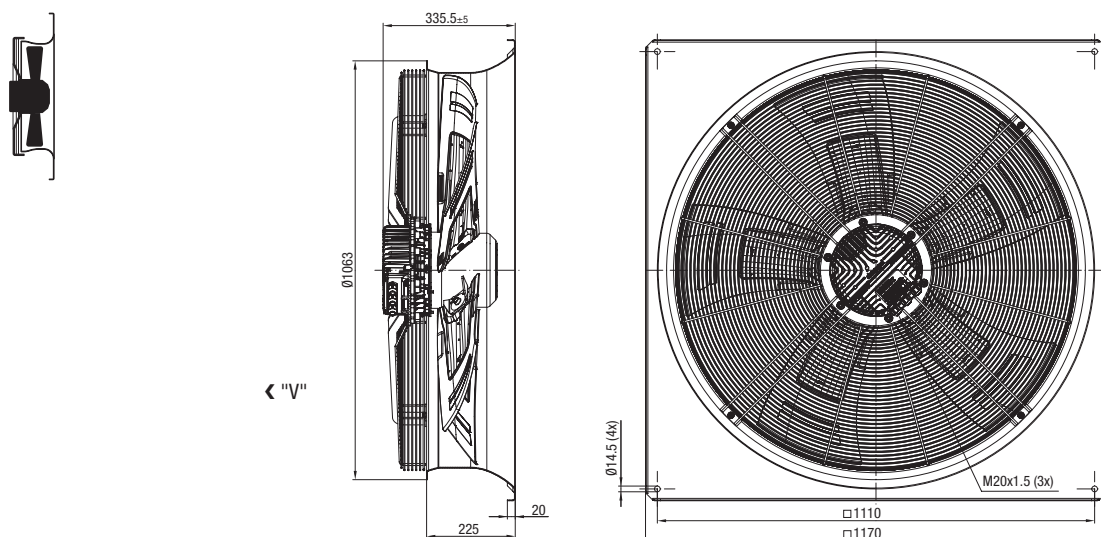
Technology

Agents

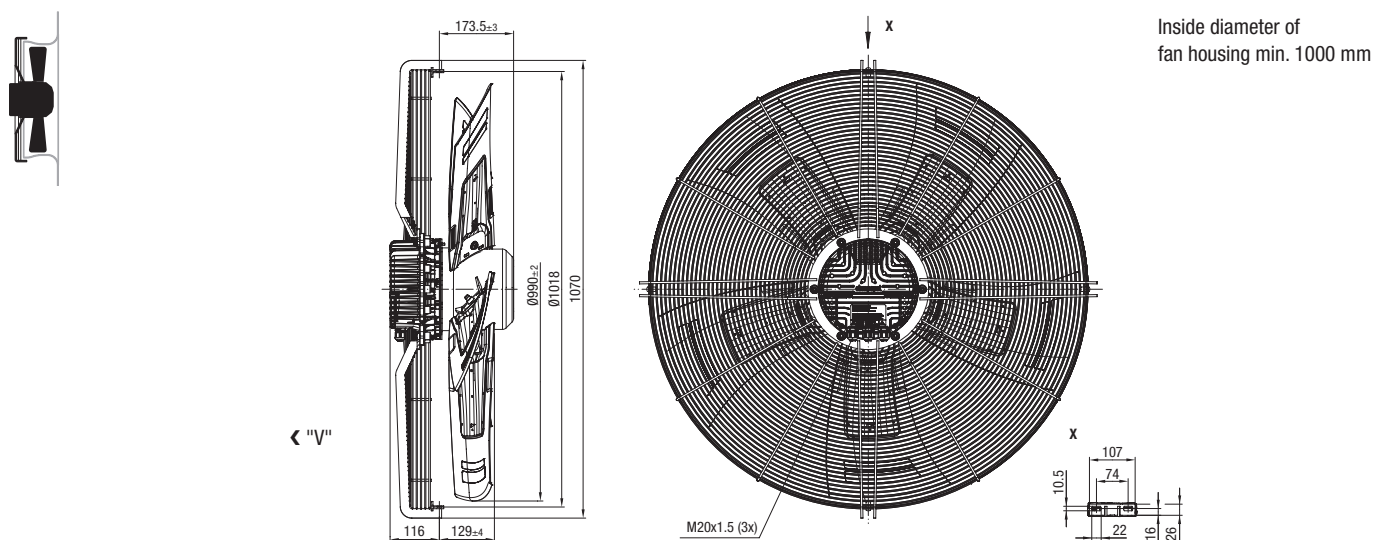
A3G 990-AZ01-71 (without attachments, airflow direction "V")



W3G 990-GZ01-71 (with square full nozzle, airflow direction "V")

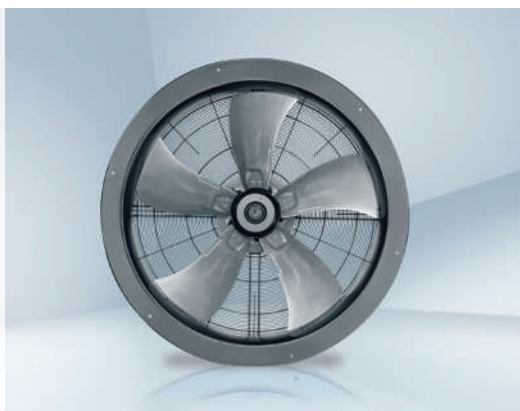


S3G 990-BZ01-71 (with guard grille for full nozzle, airflow direction "V")



EC axial fans – HyBlade®

Ø 1250

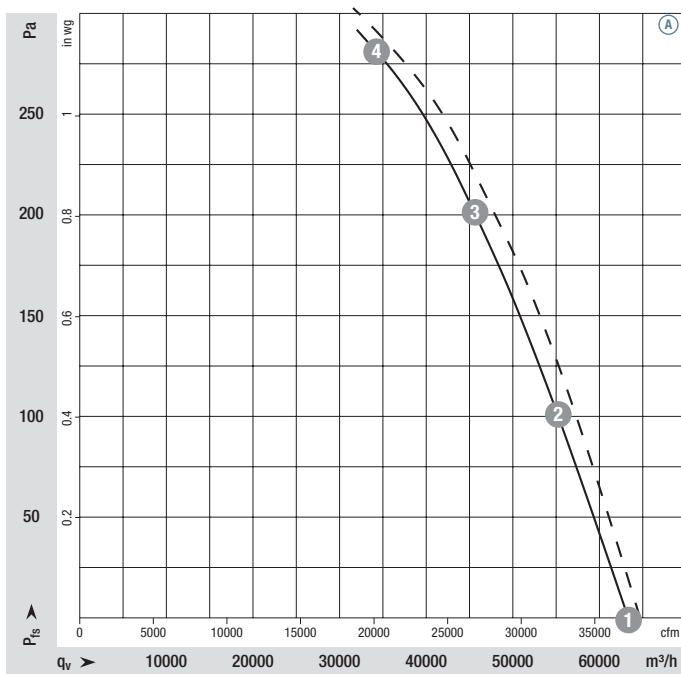


- **Material:** Guard grille: Steel, coated with black plastic (RAL 9005)
Fan housing and diffuser: Sheet steel, galvanized and coated with black plastic (RAL 9005)
Blades: Die-cast aluminum
Rotor: Painted black
Electronics housing: Die-cast aluminum, painted black
- **Number of blades:** 5
- **Direction of rotation:** Clockwise viewed toward rotor
- **Degree of protection:** IP54
- **Insulation class:** "F"
- **Installation position:** Shaft horizontal or rotor on bottom, rotor on top on request
- **Condensation drainage holes:** Rotor side
- **Mode:** Continuous operation (S1)
- **Mounting:** Maintenance-free ball bearings

Nominal data

Type	Motor	Blade pitch	Curve	Nominal voltage range	Frequency	Speed ⁽¹⁾	Max. input power ⁽¹⁾	Max. input current ⁽¹⁾	Max. back pressure	Perm. ambient temp.	Techn. features and connection diagram
				VAC	Hz	rpm	W	A	Pa	°C	
3G Z50	M3G 200-QA	-5°	(A)	3~380-480	50/60	820	6000	9,20	280	-25...+60	P. 135 / M3) / P. 137 / M9*)
Subject to change		(1) Nominal data at operating point with maximum load and 400 VAC.				(*) AxiTop					

Curves:



	n rpm	P _{ed} W	I A	L _{WA} dB(A)
(A) 1	820	3560	5,35	84
(A) 2	820	4500	6,75	84
(A) 3	820	5300	8,11	86
(A) 4	820	6000	9,20	93

Air performance measured according to: ISO 5801, installation category A, in ebm-papst full nozzle without contact protection.
Intake-side sound level: L_{WA} according to ISO 13347, L_{pA} measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions. In the event of deviation from the standard configuration, the parameters must be checked in installed condition. See Page 136 ff for detailed information.

- **Technical features:** See connection diagram P. 135/137
- **EMC:** Immunity to interference according to EN 61000-6-2 (industrial environment)
Circuit feedback according to EN 61000-3-2
Interference emission according to EN 61000-6-4 (industrial environment), according to household appliance standard on request
- **Touch current:** ≤ 3.5 mA according to IEC 60990 (measuring circuit Fig. 4)
- **Electrical connection:** Via terminal box
- **Protection class:** I (with customer connection of protective earth)
- **Conformity with standards:** EN 61800-5-1, CE
- **Approvals:** EAC, C22.2 Nr. 77 + CAN/CSA-E60730-1, UL 1004-7 + 60730

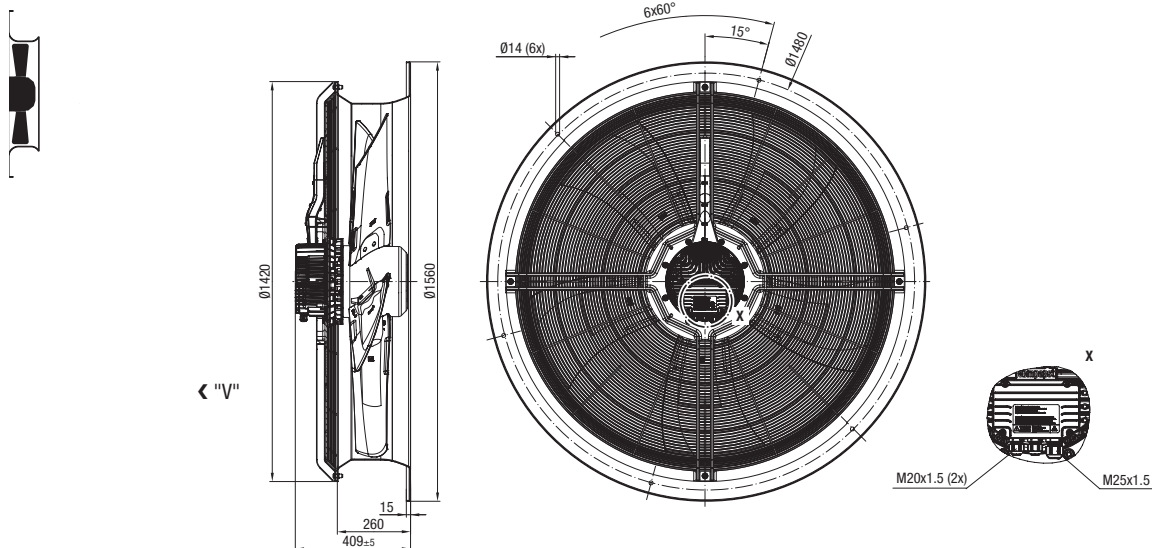
Airflow direction		Weight without attachments		Weight with round full nozzle		Weight with guard grille for full nozzle		Weight with round full nozzle and diffuser
	← "V"	kg	← "V"	kg	← "V"	kg	← "V"	kg
	without attachments-		with round full nozzle		with guard grille for full nozzle		with round full nozzle and diffuser (AxiTop)	
"V"	---	---	W3G Z50-FF02 -01	144,0	---	---	W3G Z50-EF02 -01	193,0
Airflow direction "A" on request								

EC axial fans – HyBlade®

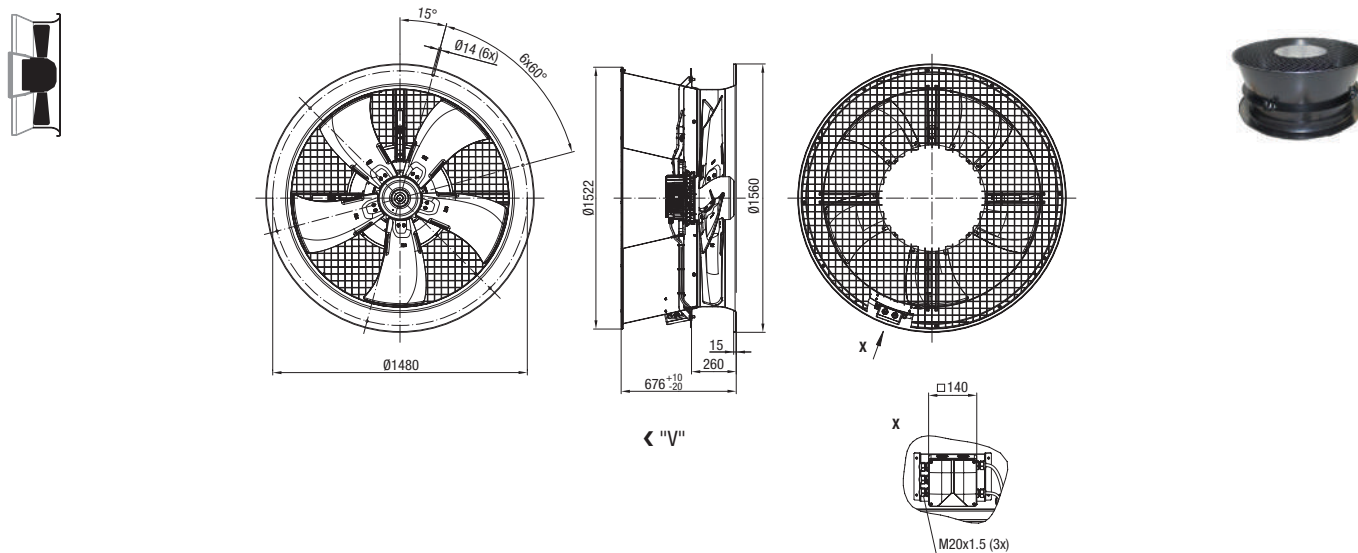
Ø 1250 with motor M3G 200



W3G Z50-FF02-01 (with round full nozzle, airflow direction "V")



W3G Z50-EF02-01 (with round full nozzle and diffuser, airflow direction "V") - AxiTop -



Agents	Technology	Ø 1250	Ø 990	Ø 910	Ø 800	Ø 710	Ø 630	Ø 560	Ø 500	Ø 450	Ø 400	Ø 350	Ø 300	Ø 250	Ø 200	Information
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Tender specifications

Fan size 200 to 450

Direct-drive EC axial fans - HyBlade® with high-performance axial impeller, mounted on a GreenTech EC external rotor motor with integrated control electronics.

Round full nozzle, pre-galvanized, coated with black plastic RAL 9005, flow-optimized nozzle shape integrated on intake side, guard grille made of phosphated steel and coated with black plastic.

Sickle-shaped blades; one-piece impellers made of glass-fiber reinforced PP plastic; winglets at blade tips.

Motor impeller statically and dynamically balanced on two planes to balancing grade G 6.3 in accordance with DIN ISO 1940.

GreenTech EC external rotor motor surpasses efficiency class IE4, magnets with no rare earths, maintenance-free ball bearings with long-term lubrication, theoretical nominal service life of at least 40,000 hours of operation, installation with horizontal and vertical motor shaft; soft start, integrated current limitation.

Extended voltage input 1~200-240 V, 50/60 Hz, fan can be used with all standard power supply networks with unaltered air performance. Designed for mode S1 Continuous operation.

See data sheet for installation position and temperature range.

Compact electronics; no time-consuming installation work involving shielded wiring; extremely low-noise commutation logic; pre-set operating parameters, no complicated parameterization. Standard cable design.

Any work required for isolation from structure-borne noise to be performed by the customer.

Fan satisfies the applicable EMC guidelines and requirements with regard to circuit feedback; documentation and marking conform to the applicable EU Directives.

Reliable performance data, air performance measurements on intake-side chamber test rig according to ISO 5801 and DIN 24163, noise measurements in anechoic rooms according to DIN EN ISO 3745.

Integrated protective devices:

- Locked-rotor protection
- Soft start of motors
- Thermal overload protection for electronics and motor
- Short circuit protection
- Motor current limitation
- Degree of protection
M3G 055/074: IP 54 (according to EN 60529)
- Degree of protection
M3G 084: IP 55

Optional:

- Other and specific requirements on request

Technical data:

Fan type		=	_____ - _____ - _____	
Air flow	q_v	=	_____	m ³ /h
Stat. pressure increase	p_{fs}	=	_____	Pa
Stat. overall efficiency	η_{es}	=	_____	%
Operating speed	n	=	_____	rpm
Motor type		=	EC motor	
Type of control			☐ 0-10VDC/PWM	
			☐ 2 speed levels	
Motor efficiency class		=	IE4	
Total power input	P_{ed}	=	_____	kW
Specific fan power	SFP	=	_____	kW/(m ³ /s)
Nominal voltage range	U_N	=	_____	V
Line frequency	f	=	50 / 60	Hz
Nominal current	I_N	=	_____	A
Protection class M3G 055/074		=	IP54	
Protection class M3G 084		=	IP55	
Sound power level	L_{WA} (A, in)	=	_____ / L_{WA} (A, out) = _____	dB(A)
Sound pressure level (at 1 m)	L_{pA} (A, in)	=	_____ / L_{pA} (A, out) = _____	dB(A)
Perm. ambient temperature	T	=	_____ to _____	°C
Weight of fan	m	=	_____	kg

See data sheet for dimensions and connections.

Tender specifications

Fan size 500 to 1250

Direct-drive EC axial fans - HyBlade® with high-performance axial impeller, mounted on a GreenTech EC external rotor motor with integrated control electronics.

Square full nozzle, pre-galvanized, coated with black plastic RAL 9005, flow-optimized nozzle shape integrated on intake side, guard grille made of phosphated steel and coated with black plastic.

Sickle-shaped blades; high-strength aluminum alloy or steel blank; sprayed with glass-fiber reinforced PP plastic; winglets at blade tips.

Motor impeller statically and dynamically balanced on two planes to balancing grade G 6.3 in accordance with DIN ISO 1940.

GreenTech EC external rotor motor surpasses efficiency class IE4, magnets with no rare earths, maintenance-free ball bearings with long-term lubrication, theoretical nominal service life of at least 40,000 hours of operation, installation with horizontal and vertical motor shaft; soft start, integrated current limitation.

Extended voltage input 1~200-277 V / 3~380-480 V, 50/60 Hz, fan can be used with all standard power supply networks with unaltered air performance. Designed for mode S1 Continuous operation.

See data sheet for installation position and temperature range.

Compact electronics; no time-consuming installation work involving shielded wiring; extremely low-noise commutation logic; 100% open-loop speed control, RS485/MODBUS RTU interface; pre-set operating parameters, no complicated parameterization.

Top-mounted terminal box made of plastic with easily accessible connection area with terminal strip or integrated terminal box in motor electronics with easily accessible connection area with spring terminals, environment-resistant cable glands.

Any work required for isolation from structure-borne noise to be performed by the customer.

Fan satisfies the applicable EMC guidelines and requirements with regard to circuit feedback; documentation and marking conform to the applicable EU Directives.

Reliable performance data, air performance measurements on intake-side chamber test rig according to ISO 5801 and DIN 24163, noise measurements in anechoic rooms according to DIN EN ISO 3745.

Integrated protective devices:

- Alarm relay with floating contacts
(250 V AC/2 A, $\cos \varphi = 1$)
- Locked-rotor protection
- Phase failure detection
- Soft start of motors
- Line undervoltage detection
- Thermal overload protection for electronics and motor
- Short circuit protection
- Motor current limitation
- Degree of protection: IP 55

Optional:

- Other and specific requirements on request

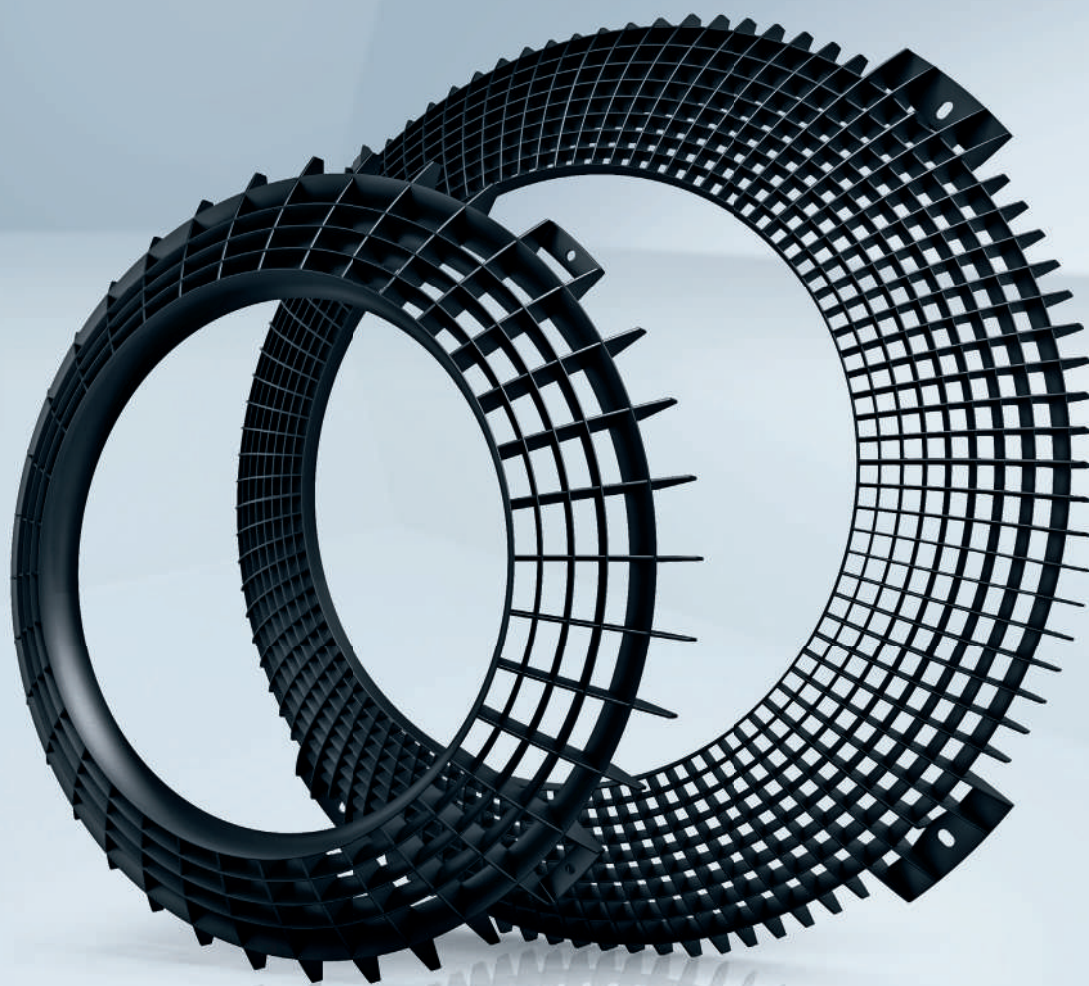
Technical data:

Fan type		=	_____ - _____ - _____	
Air flow	q_v	=	_____	m ³ /h
Stat. pressure increase	p_{fs}	=	_____	Pa
Stat. overall efficiency	η_{es}	=	_____	%
Operating speed	n	=	_____	rpm
Motor type		=	EC motor	
Type of control		=	Closed-loop speed control, 0-100 %	
Motor efficiency class		=	IE4	
Total power input	P_{ed}	=	_____	kW
Specific fan power	SFP	=	_____	kW/(m ³ /s)
Nominal voltage range	U_N	=	_____	V
Line frequency	f	=	50 / 60	Hz
Nominal current	I_N	=	_____	A
Protection class		=	IP55	
Sound power level	$L_W A$ (A, in)	=	_____ / $L_W A$ (A, out) = _____	dB(A)
Sound pressure level (at 1 m)	$L_p A$ (A, in)	=	_____ / $L_p A$ (A, out) = _____	dB(A)
Perm. ambient temperature	T	=	_____ to _____	°C
Weight of fan	m	=	_____	kg

See data sheet for dimensions and connections.



Accessories



Temperature control modules

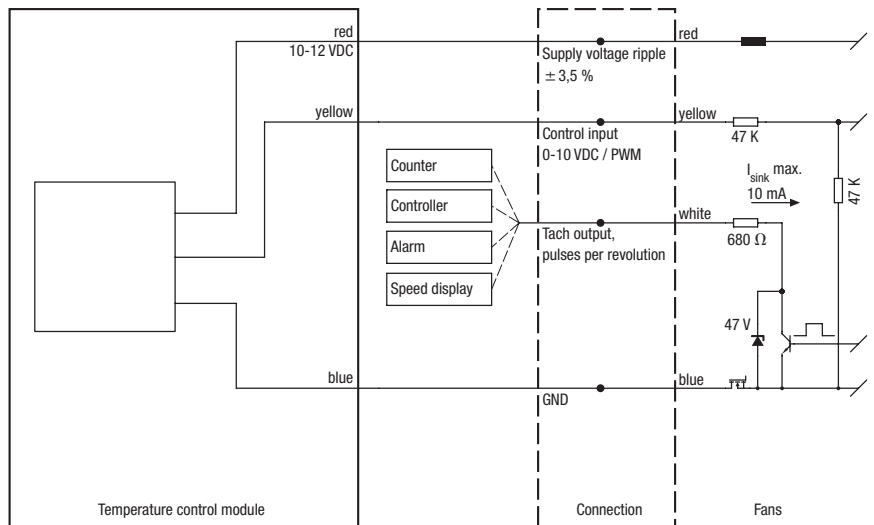
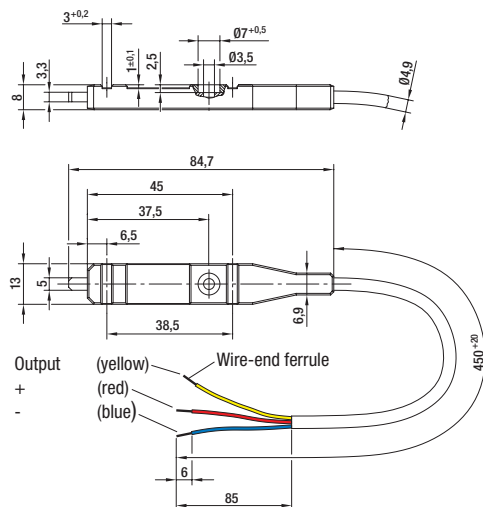
– Degree of protection: IP40



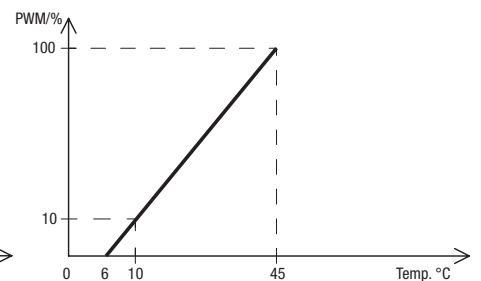
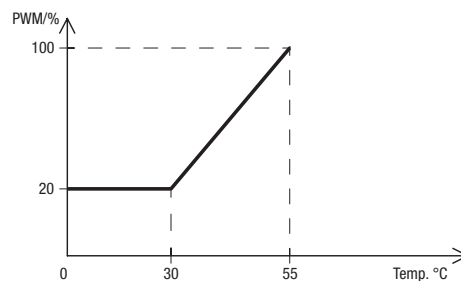
Nominal data	Nominal voltage	Input current	PWM	Output current	Output impedance	Temperature control range	Weight
Part number	VDC	mA	%	mA	k Ω	°C	g
50010-1-0174	10-12	1	10 - 100	0,1	1,1	+10..+45	20
50011-1-0174	10-12	1	20 - 100	0,1	1,1	+30..+55	20

Subject to change

– Connection diagram:



– Control function: Control function of both versions is cooling



Tolerance ± 3 K

Pressure sensors

for pressure-controlled speed control

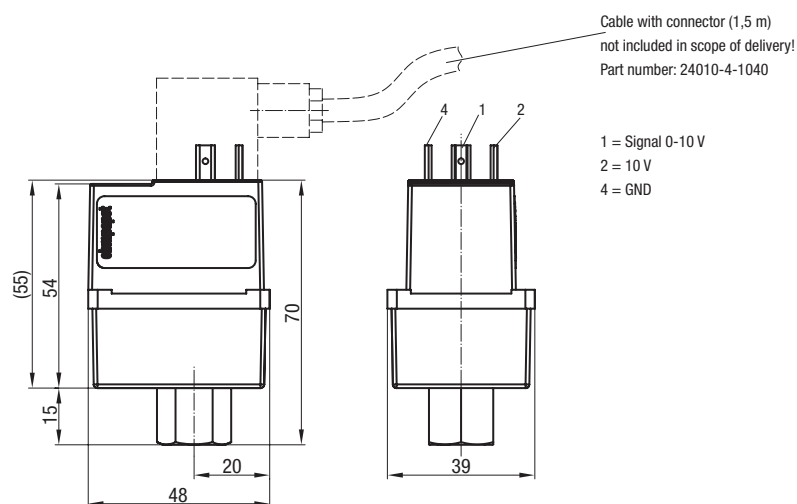
- **Material:** Housing made of PA
Pressure connection made of brass
- **Degree of protection:** IP 65 according to EN 60529 / IEC 529
- **Refrigerants:** suitable for (A) R134A; (B) R407C, R404A, R507
- **Installation:** via pressure connection with 7/16"-20 UNF internal thread
with Schrader valve opener
- **Power supply:** via 10 VDC
- **Actuating output signal:** 0-10 VDC for pressure-dependent fan speed setting
- **Supplied:** as single pack



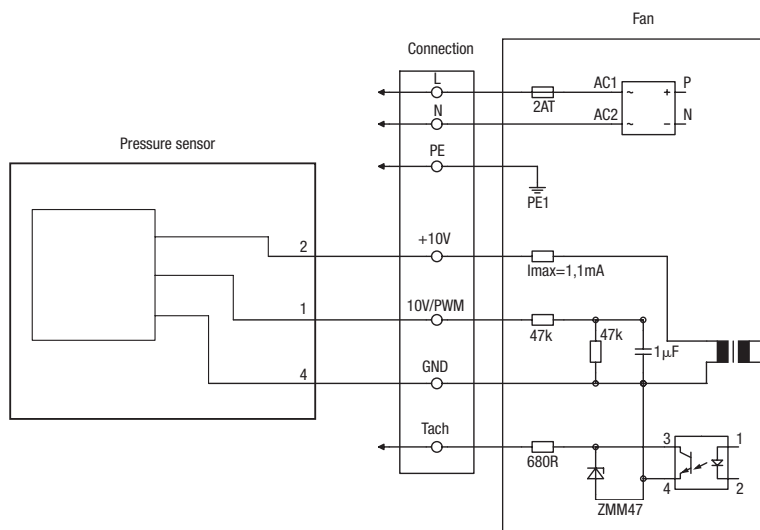
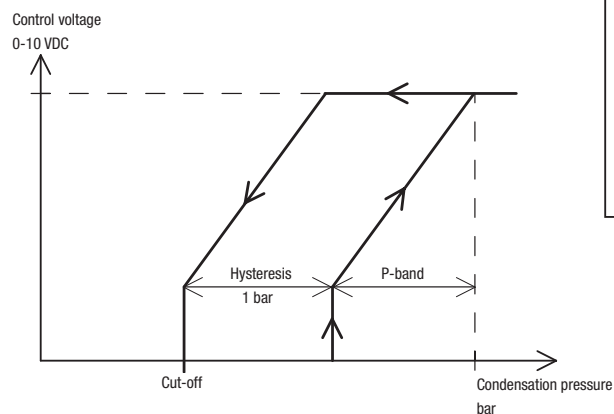
Nominal data

Part number		Nominal voltage VDC	Max. input current mA	Adjustment range Cut-off bar	Factory setting Cut-off bar	Test pressure bar	Max. point of operation bar	Max. media temperature °C	Perm. ambient temperature °C	Weight g
40100-4-7380	(A)	10	1	4.. 12,5	7,8	30	27	70	-20..+65	125
40101-4-7380	(B)	10	1	10.. 21	15,5	36	32	70	-20..+65	125

Subject to change



– Connection diagram:



FlowGrid air inlet grille

Efficient noise insulation

FlowGrid:

the air inlet grille, drastically reduces noise-generating disturbances.

The vortex strings are split up on coming into contact with the grille and greatly dampened in the through-flow.

This reduces the sound pressure in the entire frequency band and in particular the disturbing tonal noise in the low frequency band.

As a result the sound pressure level is far lower and a pleasant running noise is obtained.

It is thus easier to comply with noise regulations and people in the direct vicinity are not disturbed.



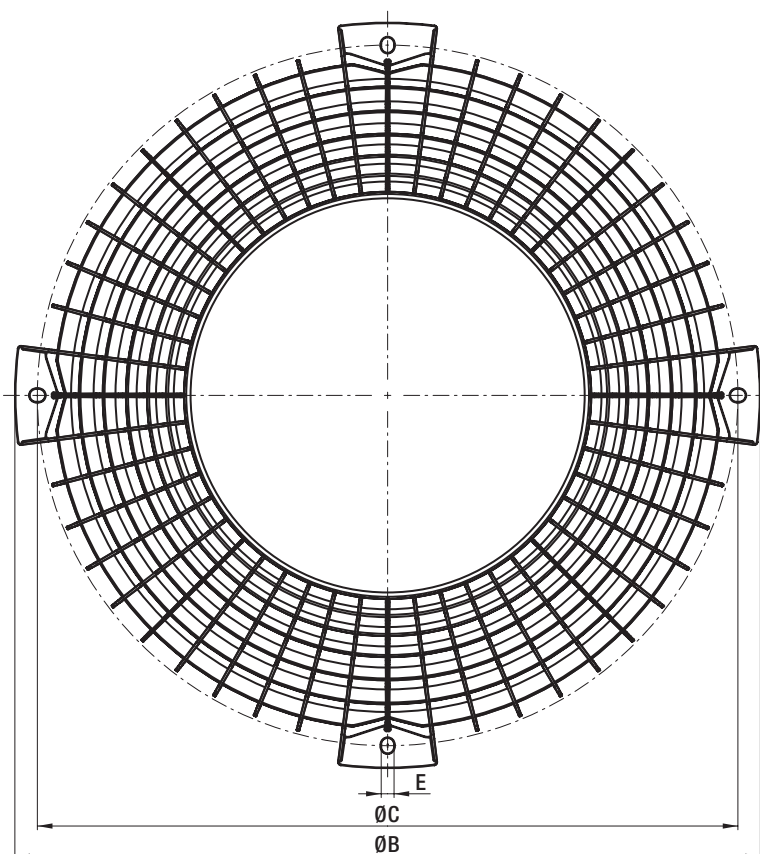
FlowGrid air inlet grille

Dimensions (mm)

Part number	Fan size	ØB	ØC	ØE	S	H	N*
20280-2-2957	200	280	245-260	4,5	3,0	40	2 ± 0,5 Nm
25310-2-2957	250	310	290	4,5	3,0	49	2 ± 0,5 Nm
35505-2-2957	300, 350	470	440	9,0	3,5	71	10 ± 2 Nm
00630-2-2957	400	580	545	10	3,0	90	10 ± 2 Nm
50710-2-2957	450, 500	666	630	10	3,0	106	10 ± 2 Nm
63000-2-2957	560, 630	785	750	10	3,0	125	10 ± 2 Nm
80000-2-2957	710, 800	995	960	10	3,5	131	10 ± 2 Nm
91000-2-2957	910	1105	1075	10	3,5	164	10 ± 2 Nm

Subject to change

* Recommended tightening torque for fastening screws



Would you like
to find out more?

If you need an
installation guide
or more information
about the dimensions,
go to:

www.ebmpapst.com/flowgrid-manual

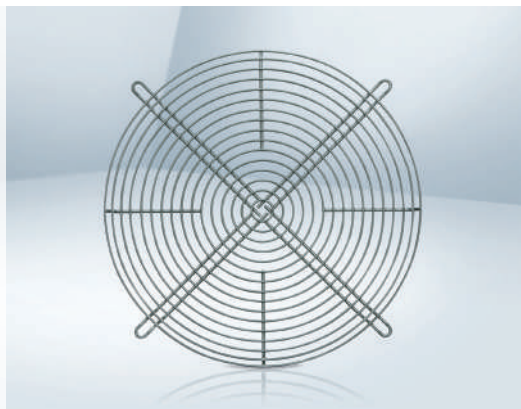
or scan the
QR code below:



Guard grille

for Compact fans

- **Material:** Steel, coated with plastic (silver-metallic gloss)

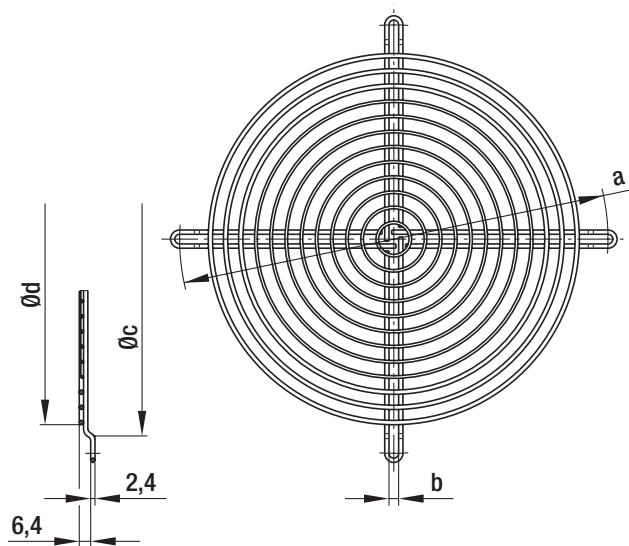


Guard grille for Compact fans

Dimensions (mm)

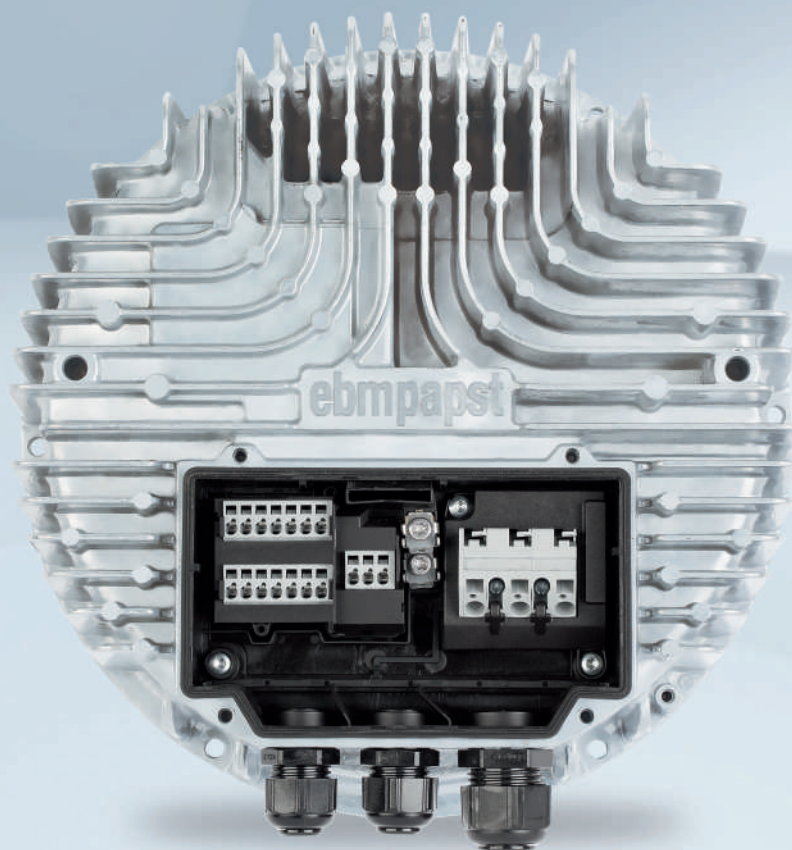
Part number	Fan size	a	b	c	d
78128-2-4039	200	240	5,4	221,5	208
09418-2-4039	250	295	6,4	278,5	270

Subject to change





EC connection diagrams

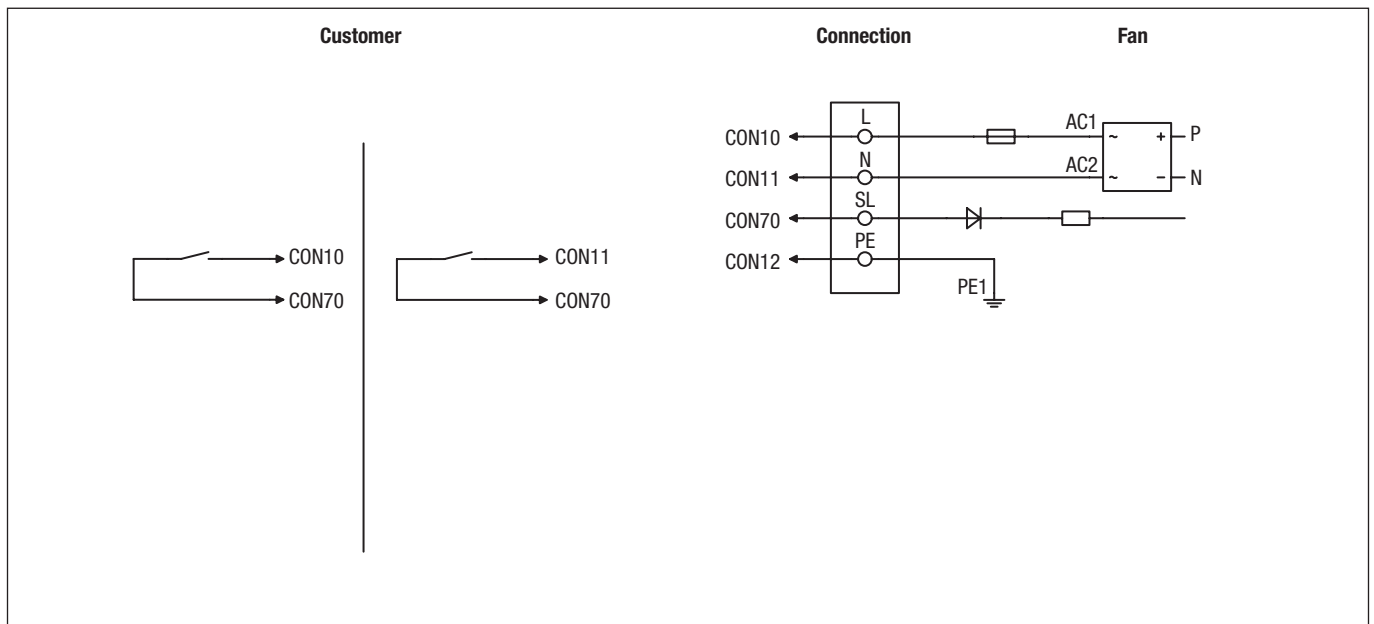


Connection diagram: H3)

M3G055 & M3G074, with 2 speed levels

Technical features:

- Speed selection max./min.
- Locked-rotor protection
- Soft start
- Motor current limitation
- Thermal overload protection for electronics/motor



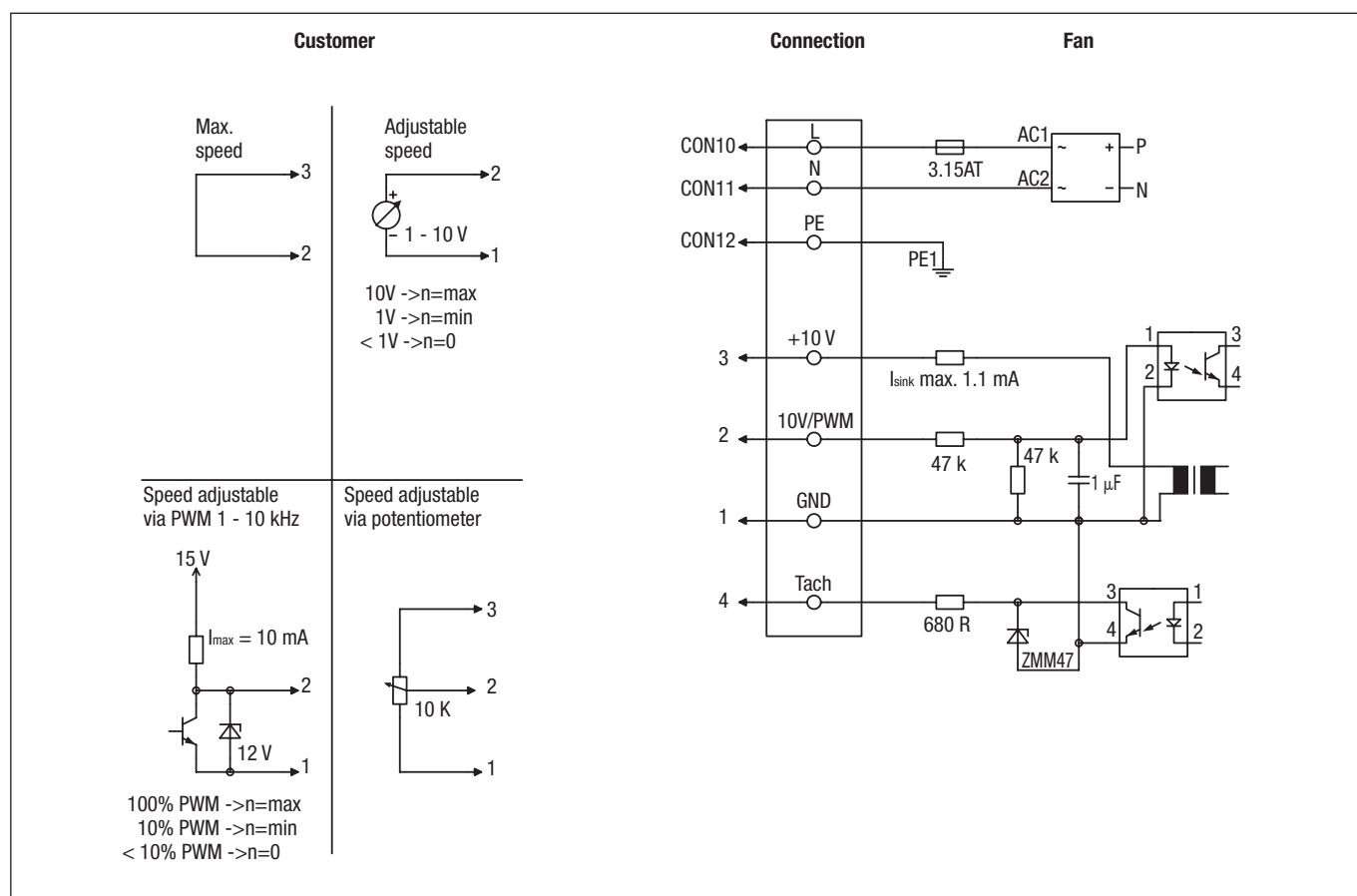
Wire	Connection	Color	Assignment/function
CON10	L	black	Power supply 230 VAC, 50-60 Hz, see nameplate for voltage range
CON11	N	blue	Neutral conductor
CON12	PE	green/yellow	Protective earth
CON70	SL	brown	Speed selection: switch open speed 1; switch closed speed 2

Connection diagram: H4)

M3G055 & M3G074, Open-loop speed control

Technical features:

- Control input 0-10 VDC / PWM
- Output 10 VDC max. 1,1 mA
- Undervoltage detection
- Tach output
- Locked-rotor protection
- Soft start
- Power limiter
- Motor current limitation
- Overvoltage detection
- Thermal overload protection for electronics/motor
- Control interface with SELV potential safely disconnected from supply



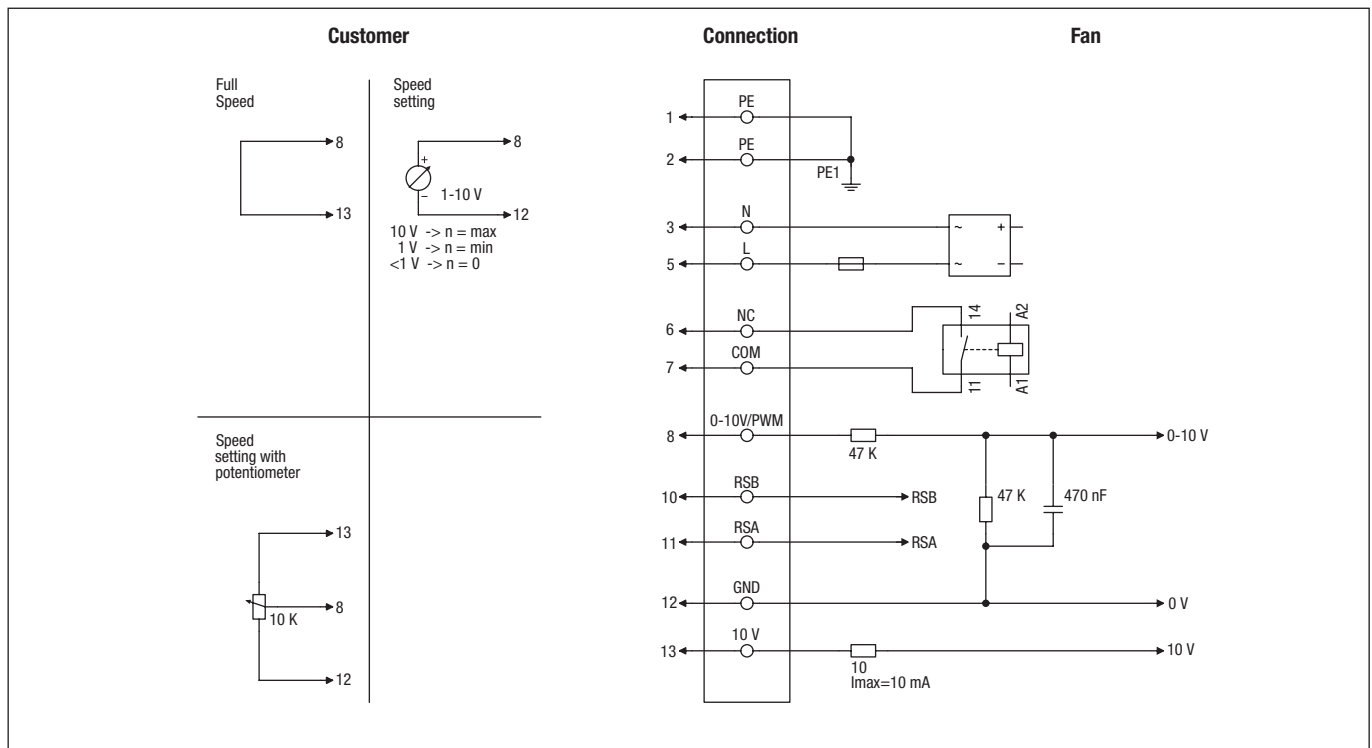
Wire	Connection	Color	Assignment/function
CON10	L	black	Power supply 230 VAC, 50-60 Hz, see nameplate for voltage range
CON11	N	blue	Neutral conductor
CON12	PE	green/yellow	Protective earth
1	GND	blue	GND connection of control interface
2	0-10V / PWM	yellow	Control input 0-10V or PWM, electrically isolated
3	10V max. 1.1 mA	red	Voltage output 10 V / 1.1 mA, electrically isolated, not short-circuit-proof
4	Tach	white	Tach output: Open collector, 1 pulse per revolution, electrically isolated

Connection diagram: P5)

M3G084, 1~, Open-loop speed control

Technical features:

- Control input 0-10 VDC / PWM
- Output 10 VDC max. 10 mA
- Operation and fault indicator
- Integrated PI controller
- Alarm relay
- Locked-rotor protection, soft start
- PFC, active
- Power limiter
- Motor current limitation
- RS 485 MODBUS-RTU
- Thermal overload protection for electronics/motor
- Undervoltage detection
- Control interface with SELV potential safely disconnected from supply



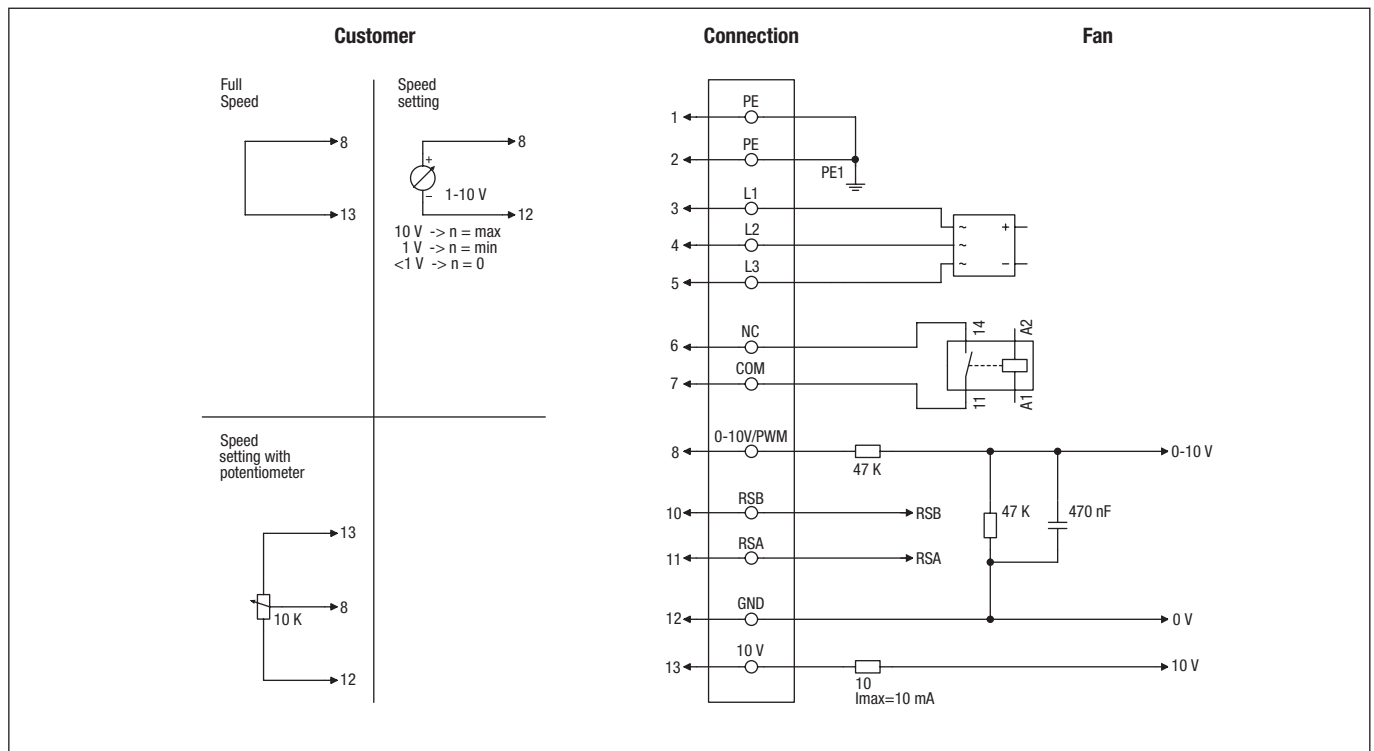
Wire	No.	Connection	Color	Assignment/function
1	1, 2	PE	green/yel.	Protective earth
1	3	N	blue	Power supply, neutral conductor, voltage range see nameplate, 50/60 Hz
1	5	L	black	Power supply, phase, voltage range see nameplate, 50/60 Hz
1	6	NC	white 1	Status relay, floating status contact, break for failure, contact rating 250 VAC / 2 A (AC1) min. 10 mA, basic insulation on supply side and reinforced insulation on control interface side
1	7	COM	white 2	Status relay, floating status contact, common connection, contact rating 250 VAC / 2 A (AC1) min. 10 mA, basic insulation on supply side and reinforced insulation on control interface side
2	8	0-10 V / PWM	yellow	Analog input (set value), SELV 0-10 V, impedance 100 k Ω , adjustable curve
2	10	RSB	brown	RS485 interface for MODBUS, RSB, SELV
2	11	RSA	white	RS485 interface for MODBUS, RSA, SELV
2	12	GND	blue	Reference ground for control interface, SELV
2	13	+ 10 V	red	Fixed voltage output 10 VDC, SELV +10 V +/- 3%, max. 10 mA, short-circuit-proof, power supply for ext. devices (e.g. potentiometer)

Connection diagram: P6)

M3G084, 3~, Open-loop speed control

Technical features:

- Control input 0-10 VDC / PWM
- Output 10 VDC max. 10 mA
- Operation and fault indicator
- Integrated PI controller
- Alarm relay
- Locked-rotor protection, soft start
- PFC, passive
- Motor current limitation
- RS 485 MODBUS-RTU
- Thermal overload protection for electronics/motor
- Undervoltage/phase failure detection
- Control interface with SELV potential safely disconnected from supply



Wire	No.	Connection	Color	Assignment/function
1	1, 2	PE	green/yel.	Protective earth
1	3, 4, 5	L1, L2, L3	black	Power supply, phase, voltage range see nameplate, 50/60 Hz
1	6	NC	white 1	Status relay, floating status contact, break for failure, contact rating 250 VAC / 2 A (AC1) min. 10 mA, basic insulation on supply side and reinforced insulation on control interface side
1	7	COM	white 2	Status relay, floating status contact, common connection, contact rating 250 VAC / 2 A (AC1) min. 10 mA, basic insulation on supply side and reinforced insulation on control interface side
2	8	0-10 V / PWM	yellow	Analog input (set value), SELV 0-10 V, impedance 100 k Ω , adjustable curve
2	10	RSB	brown	RS485 interface for MODBUS, RSB, SELV
2	11	RSA	white	RS485 interface for MODBUS, RSA, SELV
2	12	GND	blue	Reference ground for control interface, SELV
2	13	+10 V	red	Fixed voltage output 10 VDC, SELV +10 V $\pm$ 3%, max. 10 mA, short-circuit-proof, power supply for ext. devices (e.g. potentiometer)

Connection diagram: P7)

M3G084 & M3G112, 1~

Technical features:

- Control input 0-10 VDC / PWM
- Output 10 VDC max. 10 mA
- Operation and fault indicator
- Integrated PI controller
- Alarm relay
- Locked-rotor protection, soft start
- PFC, active
- Power limiter
- Motor current limitation
- RS 485 MODBUS-RTU
- Thermal overload protection for electronics/motor
- Undervoltage detection
- Control interface with SELV potential safely disconnected from supply



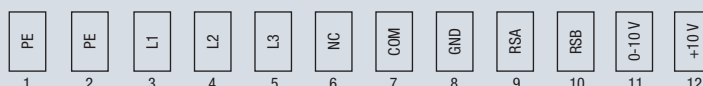
No.	Connection	Assignment/function
1, 2	PE	Protective earth
3	N	Power supply, neutral conductor, voltage range see nameplate, 50/60 Hz
4	-	not used
5	L	Power supply, phase, voltage range see nameplate, 50/60 Hz
6	NC	Status relay, floating status contact, break for failure, contact rating 250 VAC / 2 A (AC1) min. 10 mA, basic insulation on supply side and reinforced insulation on control interface side
7	COM	Status relay, floating status contact, common connection, contact rating 250 VAC / 2 A (AC1) min. 10 mA, basic insulation on supply side and reinforced insulation on control interface side
8	GND	Reference ground for control interface, SELV
9	RSA	RS485 interface for MODBUS, RSA, SELV
10	RSB	RS485 interface for MODBUS, RSB, SELV
11	0-10 V / PWM	Analog input (set value), SELV 0-10 V, impedance 100 kΩ, adjustable curve
12	+10 V	Fixed voltage output 10 VDC, SELV +10 V +/- 3%, max. 10 mA, short-circuit-proof, power supply for ext. devices (e.g. potentiometer)

Connection diagram: P8)

M3G084 & M3G112, 3~

Technical features:

- Control input 0-10 VDC / PWM
- Output 10 VDC max. 10 mA
- Operation and fault indicator
- Integrated PI controller
- Alarm relay
- Locked-rotor protection, soft start
- PFC, passive
- Motor current limitation
- RS 485 MODBUS-RTU
- Thermal overload protection for electronics/motor
- Undervoltage/phase failure detection
- Control interface with SELV potential safely disconnected from supply



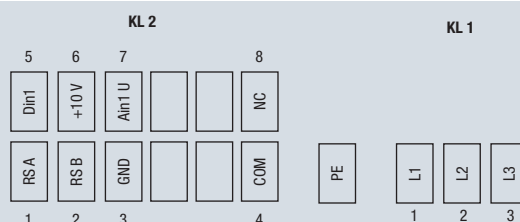
No.	Connection	Assignment/function
1, 2	PE	Protective earth
3	L1	Power supply, voltage range see nameplate, 50/60 Hz
4	L2	Power supply, voltage range see nameplate, 50/60 Hz
5	L3	Power supply, voltage range see nameplate, 50/60 Hz
6	NC	Status relay, floating status contact, break for failure, contact rating 250 VAC / 2 A (AC1) min. 10 mA, basic insulation on supply side and reinforced insulation on control interface side
7	COM	Status relay, floating status contact, common connection, contact rating 250 VAC / 2 A (AC1) min. 10 mA, basic insulation on supply side and reinforced insulation on control interface side
8	GND	Reference ground for control interface, SELV
9	RSA	RS485 interface for MODBUS, RSA, SELV
10	RSB	RS485 interface for MODBUS, RSB, SELV
11	0-10 V / PWM	Analog input (set value), SELV 0-10 V, impedance 100 kΩ, adjustable curve
12	+10 V	Fixed voltage output 10 VDC, SELV +10 V +/- 3%, max. 10 mA, short-circuit-proof, power supply for ext. devices (e.g. potentiometer)

Connection diagram: M5)

M3G150

Technical features:

- Control input 0-10 VDC / PWM
- Output 10 VDC max. 10 mA
- Operation and fault indicator
- Integrated PI controller
- Alarm relay
- Soft start
- PFC, passive
- Reverse polarity and locked-rotor protection
- Motor current limitation
- RS 485 MODBUS-RTU
- Thermal overload protection for electronics/motor
- Undervoltage/phase failure detection
- Control interface with SELV potential safely disconnected from supply
- External enable input/External 24 V input (parameterization)



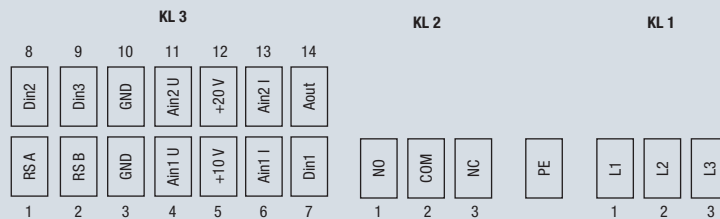
Terminal	Pin	Connection	Assignment/function
KL1	1	L1	Supply connection, power supply 3-phase 380-480 VAC, 50/60 Hz
	2	L2	Supply connection, power supply 3-phase 380-480 VAC, 50/60 Hz
	3	L3	Supply connection, power supply 3-phase 380-480 VAC, 50/60 Hz
PE		PE	Ground connection, PE connection
KL2	1	RSA	Bus connection RS485; RSA; MODBUS RTU
	2	RSB	Bus connection RS485; RSB; MODBUS RTU
	3	GND	Reference ground for control interface
	4	COM	Status relay, floating status contact, changeover contact, common connection, contact rating 250 VAC / 2 A (AC1)
	5	Din1	Digital input 1: Enable electronics; Enable: Pin open or applied voltage 5...50 VDC; Disable: Bridge to GND or applied voltage < 1 VDC; Reset function: Triggering of software reset after level change to < 1V
	6	+10 V	Fixed voltage output 10 VDC; +10 V $\pm$ 3 %; max. 10 mA; short-circuit-proof; power supply for external devices (e.g. potentiometer)
	7	Ain1 U /PWM	Analog input 1 (set value); 0-10 V; Ri= 100 k Ω ; adjustable curve
	8	NC	Status relay, floating status contact; break for failure

Connection diagram: M3)

M3G200

Technical features:

- Control input 0-10 VDC / PWM
- Output 10 VDC (+10 %) max. 10 mA
- Output 20 VDC (+/-20 %) max. 50 mA
- Output for slave 0-10 V max. 5 mA
- Input for sensor 0-10 V or 4-20 mA
- Operation and fault indicator
- Integrated PI controller
- Reverse polarity and locked-rotor protection/Soft start
- Motor current limitation/Alarm relay
- RS 485 MODBUS-RTU / PFC, passive
- Thermal overload protection for electronics/motor
- Undervoltage/phase failure detection
- Control interface with SELV potential safely disconnected from supply
- External enable input/External 24 V input (parameterization)



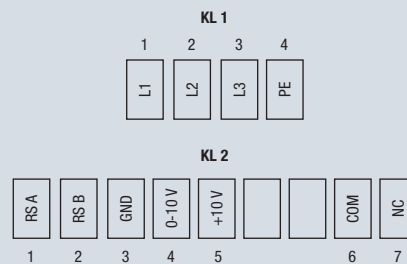
Terminal	Pin	Connection	Assignment/function
KL1	1	L1	Supply connection, power supply 3-phase 380-480 VAC, 50/60 Hz
	2	L2	Supply connection, power supply 3-phase 380-480 VAC, 50/60 Hz
	3	L3	Supply connection, power supply 3-phase 380-480 VAC, 50/60 Hz
PE		PE	Ground connection, PE connection
KL2	1	NO	Status relay, floating status contact, make for failure
	2	COM	Status relay, floating status contact, changeover contact, common connection (2 A, 250 V, min. 10 mA, AC1)
	3	NC	Status relay, floating status contact, break for failure
KL3	1	RSA	Bus connection RS485; RSA; MODBUS RTU
	2	RSB	Bus connection RS485; RSB; MODBUS RTU
	3/10	GND	Reference ground for control interface
	4	Ain1 U /PWM	Analog input 1 (set value); 0-10 V; Ri= 100 kΩ; adjustable curve; only for use as alternative to input Ain1 I
	5	+10 V	Fixed voltage output 10 VDC; +10 V ±3 %; max. 10 mA; short-circuit-proof; power supply for external devices (e.g. potentiometer)
	6	Ain1 I	Analog input 1 (set value); 4-20 mA; Ri= 100 Ω; adjustable curve; only for use as alternative to input Ain1 U
	7	Din1	Digital input 1: Enable electronics; Enable: Pin open or applied voltage 5...50 VDC; Disable: Bridge to GND or applied voltage < 1 VDC; Reset function: Triggering of software reset after level change to < 1V
	8	Din2	Digital input 2: Switching parameter sets 1/2, according to EEPROM setting, the valid/used parameter set can be selected via bus or via digital input Din2. Parameter set 1: Pin open or applied voltage 5-50 VDC; Parameter set 2: Bridge to GND or applied voltage < 1 VDC
	9	Din3	Digital input 3: Direction of action of integrated controller; According to EEPROM setting, the direction of action of the integrated controller can be selected as normal/inverse via bus or digital input; Normal: Pin open or applied voltage 5...50 VDC; Inverse: Bridge or applied voltage < 1 VDC
	11	Ain2 U	Analog input 2; Measured value 0-10 V; Ri= 100 kΩ; adjustable curve; only for use as alternative to input 11 Ain2 I
	12	+20 V	Fixed voltage output 20 VDC; +20 V +25/-10 %; max. 50 mA; short-circuit-proof; power supply for external devices (e.g. sensor)
	13	Ain2 I	Analog input 2; Measured value 4-20 mA; Ri= 100 Ω; adjustable curve; only for use as alternative to input Ain2 U
	14	Aout	Analog output 0-10 V; max. 5 mA; output of current motor modulation level/current motor speed. Adjustable curve

Connection diagram: M7)

M3G112, AxiTop

Technical features:

- Control input 0-10 VDC / PWM
- Output 10 VDC max. 10 mA
- Operation and fault indicator
- Integrated PI controller
- Alarm relay
- Soft start
- PFC, passive
- Reverse polarity and locked-rotor protection
- Motor current limitation
- RS 485 MODBUS-RTU
- Thermal overload protection for electronics/motor
- Undervoltage/phase failure detection
- Control interface with SELV potential safely disconnected from supply
- External 24 V input (parameterization)



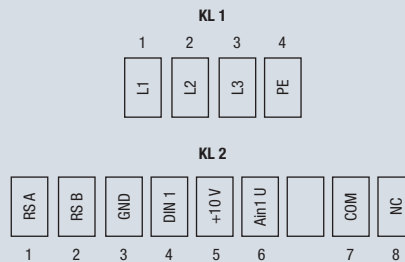
Terminal	Pin	Connection	Assignment/function
KL1	1	L1	Supply connection, power supply 3-phase 380-480 VAC, 50/60 Hz
	2	L2	Supply connection, power supply 3-phase 380-480 VAC, 50/60 Hz
	3	L3	Supply connection, power supply 3-phase 380-480 VAC, 50/60 Hz
	4	PE	Ground connection, PE connection
KL2	1	RSA	Bus connection RS485; RSA; MODBUS RTU
	2	RSB	Bus connection RS485; RSB; MODBUS RTU
	3	GND	Reference ground for control interface
	4	0-10 V / PWM	Control input/current sensor value input 0-10 VDC, impedance 100 kΩ; adjustable curve
	5	+10 V	Fixed voltage output 10 VDC; +10 V ±3 %; max. 10 mA; short-circuit-proof; power supply for external devices (e.g. potentiometer); voltage input 24 VDC for setting parameters via MODBUS without line voltage supply
	6	COM	Status relay, floating status contact, changeover contact, common connection (2 A, 250 V, min. 10 mA, AC1)
	7	NC	Status relay, floating status contact; break for failure

Connection diagram: M9)

M3G150 & M3G200, AxiTop

Technical features:

- Control input 0-10 VDC / PWM
- Output 10 VDC (+10 %) max. 10 mA
- Operation and fault indicator
- Integrated PI controller
- Alarm relay
- Soft start
- PFC, passive
- Reverse polarity and locked-rotor protection
- Motor current limitation
- RS 485 MODBUS-RTU
- Thermal overload protection for electronics/motor
- Undervoltage/phase failure detection
- Control interface with SELV potential safely disconnected from supply
- External enable input/External 24 V input (parameterization)



Terminal	Pin	Connection	Assignment/function
KL1	1	L1	Supply connection, power supply 3-phase 380-480 VAC, 50/60 Hz
	2	L2	Supply connection, power supply 3-phase 380-480 VAC, 50/60 Hz
	3	L3	Supply connection, power supply 3-phase 380-480 VAC, 50/60 Hz
	4	PE	Ground connection, PE connection
KL2	1	RSA	Bus connection RS485; RSA; MODBUS RTU
	2	RSB	Bus connection RS485; RSB; MODBUS RTU
	3	GND	Reference ground for control interface
	4	Din1	Digital input 1: Enable electronics; Enable: Pin open or applied voltage 5...50 VDC; Disable: Bridge to GND or applied voltage < 1 VDC; Reset function: Triggering of software reset after level change to < 1 V
	5	+10 V	Fixed voltage output 10 VDC; +10 V $\pm 3\%$; max. 10 mA; short-circuit-proof; power supply for external devices (e.g. potentiometer); voltage input 24 VDC for setting parameters via MODBUS without line voltage supply
	6	Ain1 U /PWM	Analog input 1 (set value); 0-10 V; $R_i = 100\text{ k}\Omega$; adjustable curve
	7	COM	Status relay, floating status contact, changeover contact, common connection (2 A, 250 V, min. 10 mA, AC1)
	8	NC	Status relay, floating status contact; break for failure

Technical parameters and scope

High standards for all ebm-papst products

At ebm-papst we are always looking to improve our products to be able to offer customers just what they need for their particular requirements. Careful monitoring of the market enables us to constantly incorporate enhancements into our products. As shown by the technical parameters listed below, you can always be sure of finding the right solution from ebm-papst for whatever application you may have in mind.

General performance parameters

Any deviations from the technical data and technical parameters described here are given in the product-specific data sheet.

Degree of protection

The degree of protection is specified in the product-specific data sheets.

Insulation class

The insulation class is specified in the product-specific data sheets.

Installation position

The installation position is specified in the product-specific data sheets.

Condensation drainage holes

Information on condensation drainage holes is provided in the product-specific data sheets.

Mode of operation

The mode of operation is specified in the product-specific data sheets.

Protection class

The protection class is specified in the product-specific data sheets.

Service life

The service life of ebm-papst products depends on two main factors:

- The service life of the insulation system
- The service life of the bearing system

The service life of the insulation system is essentially governed by the voltage level, the temperature and the ambient conditions such as humidity and condensation.

The service life of the bearing system is primarily governed by the thermal load on the bearings. For the majority of our products we use maintenance-free ball bearings which can be fitted in any installation position. Sleeve bearings can alternatively be employed, as described in the product-specific data sheets.

As a rough guide (depending on the general conditions), the ball bearings have a life expectancy L10 of approx. 40.000 hours of operation at an ambient temperature of 40 °C.

We will gladly provide you with a life expectancy calculation based on your specific usage conditions.

Motor protection/thermal protection

Information on motor protection and thermal protection is provided in the product-specific data sheets.

The following protection methods are provided depending on the type of motor and area of application:

- Thermal overload protector, in-circuit or external
- PTC with electronic diagnostics
- Impedance protection
- Thermal overload protector with electronic diagnostics
- Current limitation via electronics

If use is made of an external thermal overload protector, a commercially available tripping unit must be connected by the customer for shut-off.

Motor protection conforming to the applicable standard must be fitted for products not provided with a built-in thermal overload protector and not protected against improper use.

Mechanical strain/performance parameters

All ebm-papst products are subjected to comprehensive testing in conformity with the normative specifications and also incorporating the extensive experience of ebm-papst.



Vibration testing

Vibration testing is performed as follows:

- Vibration test in operation according to DIN IEC 68 Part 2-6
- Vibration test at standstill according to DIN IEC 68 Part 2-6

Shock load

Shock load testing is performed as follows:

- Shock load according to DIN IEC 68 Part 2-27

Balancing grade

Balancing grade testing is performed as follows:

- Residual imbalance according to DIN ISO 1940
- Standard balancing quality level G 6.3

Should your particular application require a higher level of balancing, please contact us and specify the details in your order.

Chemical and physical strain/performance parameters

Please consult your ebm-papst contact for any questions regarding chemical and physical strain.

Areas of use, industries & applications

Our products are used in a variety of industries and for numerous applications:

Ventilation, air conditioning and refrigeration technology, clean room technology, automotive and railway engineering, medical and laboratory technology, electronics, computer and office systems, telecommunications, household appliances, heating systems, machinery and installations, drive engineering.

Our products are not intended for use in the aerospace industry!

Legal and normative specifications

The products described in this catalog are developed and manufactured in accordance with the standards applying to the particular product and, if known, in accordance with the conditions of the particular area of application.

Standards

Information on standards is provided in the product-specific data sheets.

EMC

Information on EMC standards is provided in the product-specific data sheets.

Compliance with EMC standards has to be assessed on the final product, as EMC properties may change under different installation conditions.

Touch current

Information on touch current is provided in the product-specific data sheets.

Measurement is performed according to IEC 60990.

Approvals

Please contact us if you require a specific type of approval (VDE, UL, GOST, CCC, CSA, etc.) for your ebm-papst product.

Most of our products can be supplied with the applicable approval.

Information on existing approvals is provided in the product-specific data sheets.

Air performance measurements

All air performance measurements are conducted on intake-side chamber test rigs conforming to the requirements of ISO 5801 and DIN 24163. The fans under test are attached to the measuring chamber with free air intake and exhaust (installation category A) and operated at nominal voltage, with alternating current also at nominal frequency, without any additional attachments such as a guard grille.

As required by the standards, the air performance curves shown are referenced to an air density of $1,15 \text{ kg/m}^3$.

Technical parameters and scope



Air and sound measurement conditions

Measurements on ebm-papst products are taken under the following conditions:

- Axial and diagonal fans in airflow direction “V” in full nozzle without guard grille
- Backward-curved centrifugal fans, free-running with inlet ring
- Forward-curved single and dual-inlet centrifugal fans with housing
- Backward-curved dual-inlet centrifugal fans with housing

Sound measurements

All sound measurements are taken in anechoic rooms with reverberant floor. ebm-papst acoustic test chambers meet the requirements of accuracy class 1 as per DIN EN ISO 3745. For sound measurement, the fans being tested are positioned in a reverberant wall and operated at nominal voltage, with alternating current also at nominal frequency, without any additional attachments such as a guard grille.

Sound pressure and sound power level

All acoustic values are determined in accordance with ISO 13347, DIN 45635 and ISO 3744/3745 as per accuracy class 2 and given in A-rated form.

For measurement of the sound pressure level L_p the microphone is located on the intake side of the fan being tested, generally at a distance of 1 m on the fan axis.

For measurement of the sound power level L_W 10 microphones are distributed over an enveloping surface on the intake side of the fan being tested (see graphic). The measured sound power level can be roughly calculated from the sound pressure level by adding 7 dB.

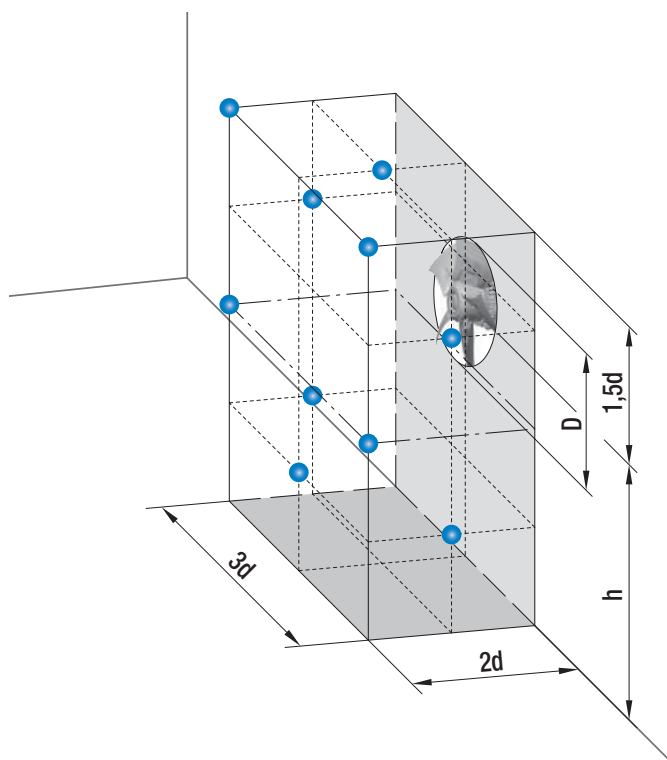
Measurement set-up according to ISO 13347-3 and DIN 45635-38:

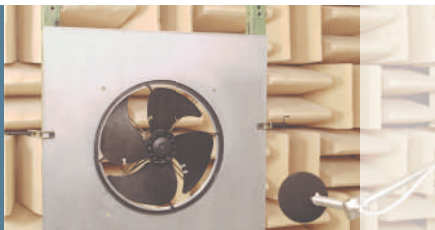
- 10 measuring points

$d \geq D$

$h = 1,5d \dots 4,5d$

Measurement area $S = 6d^2 + 7d(h + 1,5d)$

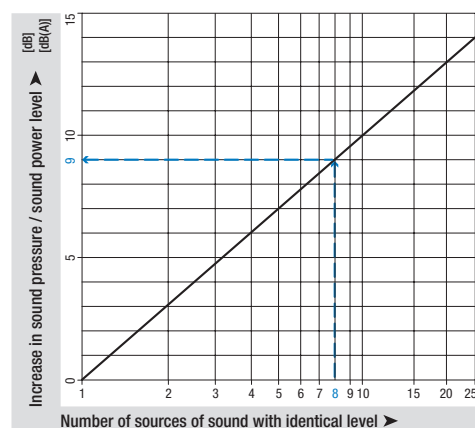




Cumulative level of several sound sources with the same level

The addition of 2 sound sources with the same level produces a level increase of approx. 3 dB. The noise characteristics of several identical fans can be predicted on the basis of the sound values specified in the data sheet. This is shown in the adjacent graph.

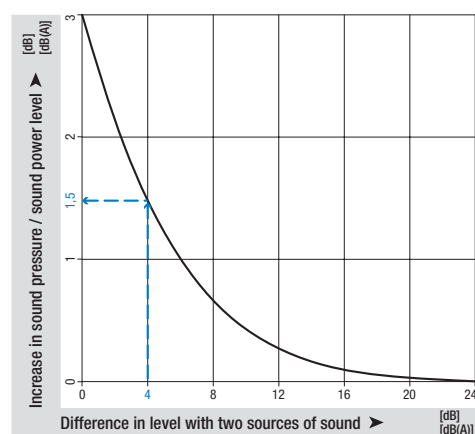
Example: There are 8 axial fans A3G800 on a condenser. According to the data sheet, the sound pressure level of one fan is 75 dB(A). The level increase determined from the graph is 9 dB. This means that a total level of 84 dB(A) is to be expected for the installation.



Cumulative level of two sound sources with different levels

The noise characteristics of two different fans can be predicted on the basis of the sound values specified in the data sheet. This is shown in the adjacent graph.

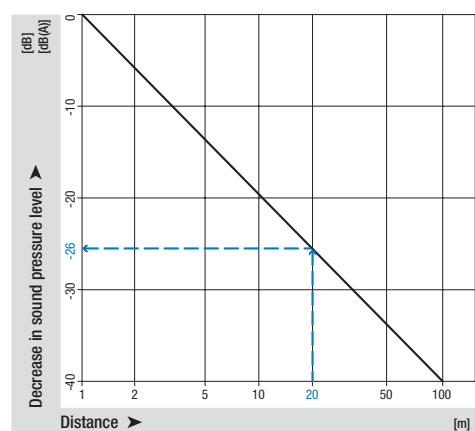
Example: In a ventilation unit, there is one axial fan A3G800 with a sound pressure level of 75 dB(A) at the point of operation and one axial fan A3G710 with 71 dB(A). The difference in level is 4 dB. The level increase of approx. 1.5 dB can now be read off the graph. This means that a total level of 76.5 dB(A) is to be expected for the unit.



Distance laws

The sound power level is not governed by the distance from the noise source. By contrast, the sound pressure level decreases with increasing distance from the sound source. The adjacent graph shows the decrease in level under far field conditions. Far field conditions apply if there is a considerable distance between the microphone and the fan in relation to the fan diameter and the wavelength under consideration. On account of the complexity of the topic, literature should be consulted for more detailed information on far fields. The level in the far field decreases by 6 dB each time the distance is doubled. Different relationships apply in the near field of the fan and the level may decrease to a far lesser extent. The following example only applies to far field conditions and may vary considerably as a result of installation effects:

For an axial fan A3G300, a sound pressure level of 65 dB(A) was measured at a distance of 1 m. From the adjacent graph, this would yield a reduction of 26 dB at a distance of 20 m, i.e. a sound pressure level of 39 dB(A).



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