



# The new EC axial fans - HyBlade®

*A new and unique hybrid blade design makes ebm-papst axial fans even quieter, more powerful and lasting longer. The novel HyBlade® fan blades use a support structure made of highly robust, corrosion-proof aluminium alloy and a coating made of special reinforced fibre plastics. Their aerodynamically optimal form results in enormous acoustic benefits at even higher efficiencies compared to conventional blades. And this, in turn, offers further benefits when used in refrigeration, heating and ventilation.*

## **A revolutionary development**

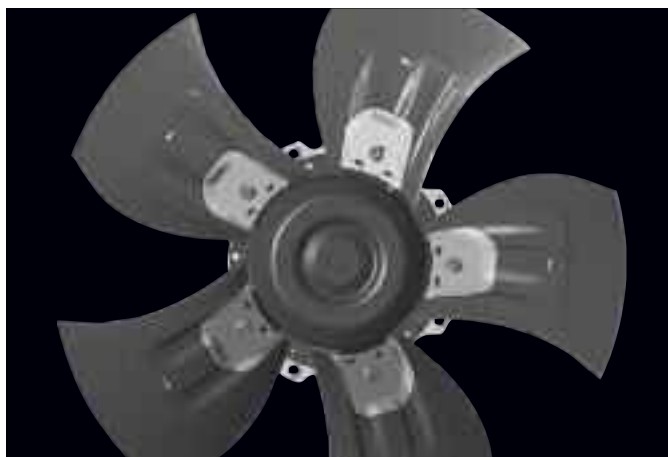
In refrigeration and ventilation, axial fans are frequently used, for instance to cool heat exchangers with air passing through them. For compact systems, the best tried and tested choice is the ebm-papst external-rotor motor with the axial fan blades mounted onto its rotor. Apart from compact dimensions, the fans in such applications are expected to yield high air performance at minimal noise.

So far, fan blades are conventionally made of sheet steel or aluminium. In order to meet exacting requirement for optimum efficiency and acoustic behaviour, ebm-papst focused intensely on developing new blade geometries. However, the limited design possibilities of a monolithic sheet metal blade with uniform sheet thickness are obstacles engineers have to simply accept.

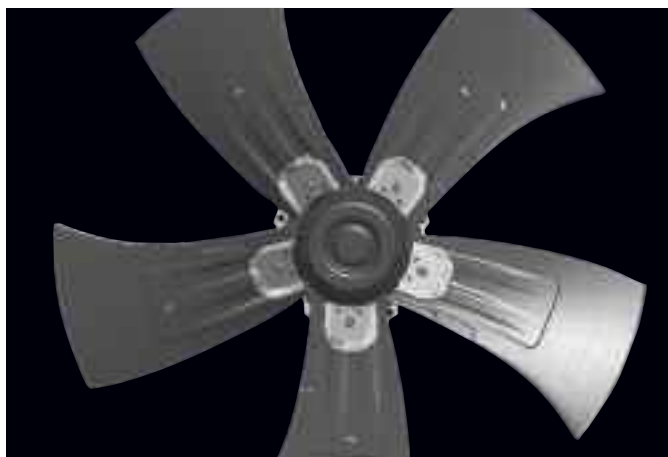
To manage the required quantum leap and arrive at lower noise and better efficiency, new construction principles and materials, or component structures, to be more precise, are needed. This is the approach ebm-papst took with its revolutionary hybrid blade concept, using hybrid components and structures to join seemingly irreconcilable characteristic in one harmonious functional unit.

The modular system consisting of motor, electronics and impeller allows for optimum configuration, making the new line of EC HyBlade® axial fans unbeatable as to combinatorics and power range. The integrated motor electronics are based on state-of-the-art EC technology and correspond to the "2nd generation". This makes them highly efficient and they already comply with the latest standards of the defined European Efficiency Classes.

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# EC axial fans - HyBlade®

Ø 500



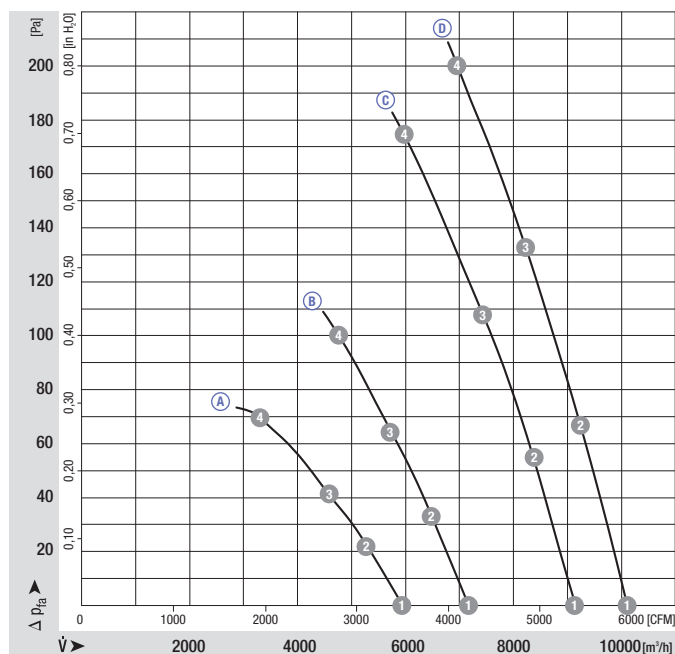
- **Material:** Guard grille: Steel, phosphated and coated in black plastic  
Wall ring: Sheet steel, pre-galvanised and coated in black plastic  
Blades: Pressed-on round sheet steel plate, extrusion-coated in PP plastics  
Rotor: Coated in black  
Electronics enclosure: Die-cast aluminium, <sup>Ⓒ</sup>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

Nominal data		Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm <sup>(1)</sup>	Max. power input <sup>(1)</sup>	Max. current draw <sup>(1)</sup>	Max. operative range	Perm. amb. temp.	Mass without attachments	Technical features and electr. connections
Type	Motor			VAC	Hz	rpm	kW	A	Pa	°C	kg	
*3G 500	M3G 084-DF	0°	A	1~ 200-277	50/60	870	0,18	1,20	70	-25..+65	4,6	p. 36 / K1)
*3G 500	M3G 084-GF	0°	B	1~ 200-277	50/60	1100	0,36	2,20	100	-25..+55	6,2	p. 36 / K1)
*3G 500	M3G 112-EA	0°	C	1~ 200-277	50/60	1420	0,75	3,40	175	-25..+60	7,2	p. 37 / L3)
*3G 500	M3G 112-GA	0°	D	3~ 380-480	50/60	1600	0,94	1,60	200	-25..+60	9,2	p. 39 / K3)

subject to alterations

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

## Curves



	n [rpm]	P <sub>1</sub> [kW]	I [A]	L <sub>wA</sub> [dB(A)]
A 1	920	0,15	0,97	68
A 2	905	0,16	1,04	64
A 3	890	0,17	1,09	61
A 4	870	0,18	1,20	62
B 1	1100	0,25	1,53	70
B 2	1100	0,29	1,76	68
B 3	1100	0,32	1,92	66
B 4	1100	0,36	2,20	67
C 1	1420	0,55	2,51	78
C 2	1420	0,62	2,80	75
C 3	1420	0,68	3,03	73
C 4	1420	0,75	3,40	74
D 1	1600	0,68	1,14	78
D 2	1600	0,77	1,29	75
D 3	1600	0,85	1,39	74
D 4	1600	0,94	1,60	76

- **Technical features:** See electrical connections p. 36 ff.
- **EMC:** **A** **B** **D** Interference emission acc. to EN 61000-6-3  
**C** Interference emission acc. to EN 61000-6-4  
 Interference immunity acc. to EN 61000-6-2  
 Harmonics acc. to EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Optional terminal box design:** Electrical connection via terminal strip, see p. 34
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standards:** CE
- **Approvals:** VDE, CCC, GOST are applied for; UL, CSA on request

Direction of air flow			
	Without attachments	With full square nozzle	With guard grille for short nozzle
"V"	A3G 500-AF48 -51*	W3G 500-GF48 -51	S3G 500-AF48 -51
"V"	A3G 500-AD01 -51*	W3G 500-GD01 -51	S3G 500-AD01 -51
"V"	A3G 500-AM56 -21*	W3G 500-GM56 -21	S3G 500-AM56 -21
"V"	A3G 500-AN33 -01*	W3G 500-GN33 -01	S3G 500-AN33 -01

\*Optional terminal box design: Electrical connection via terminal strip, see p. 34

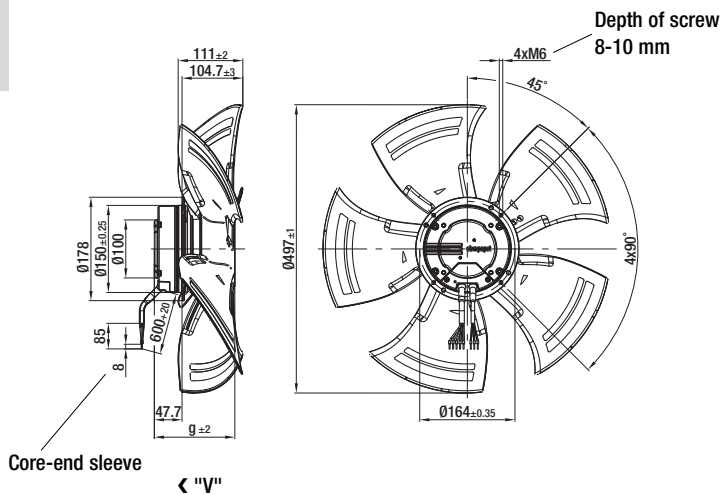
# EC axial fans - HyBlade®

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



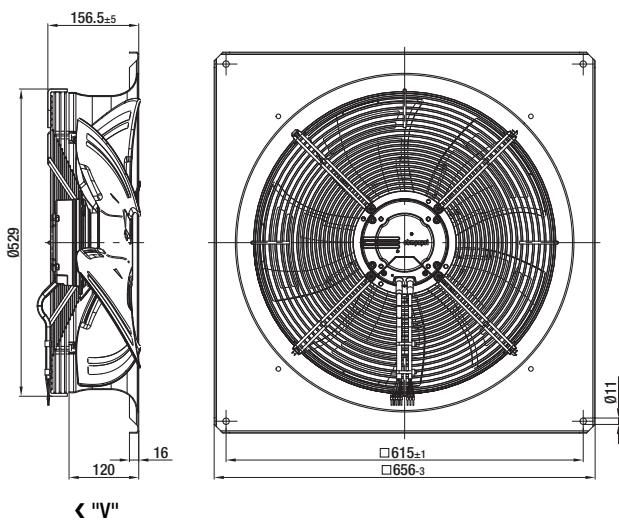
## Without attachments

Type	Mass [kg]	g
A3G 500-AF48 -51	4,6	139,0
A3G 500-AD01 -51	6,2	160,0



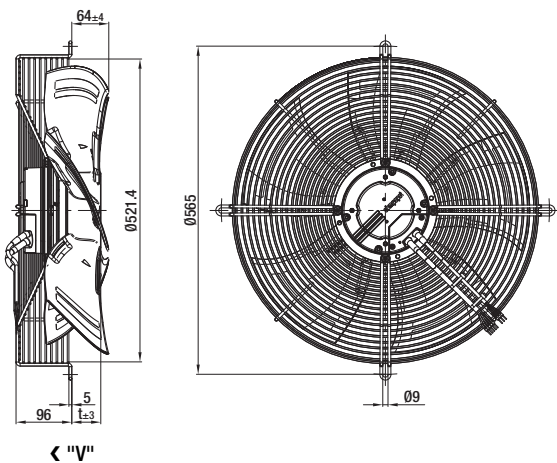
## With full square nozzle

Type	Mass [kg]
W3G 500-GF48 -51	10,6
W3G 500-GD01 -51	12,2



## With guard grille for short nozzle

Type	Mass [kg]	t
S3G 500-AF48 -51	7,1	50,0
S3G 500-AD01 -51	8,7	71,4



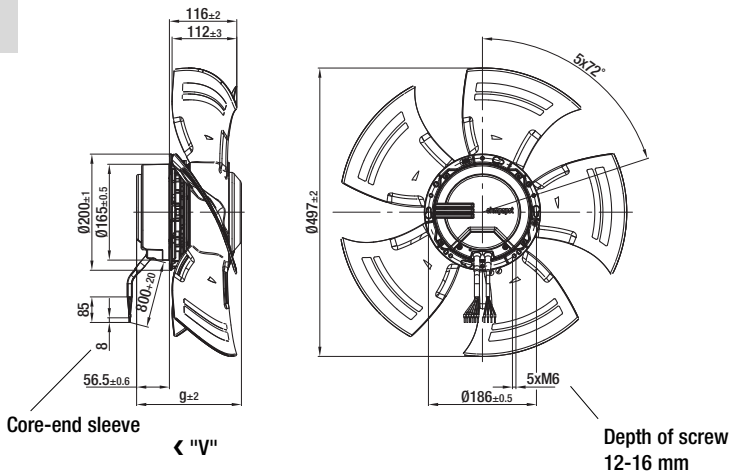
# EC axial fans - HyBlade®

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



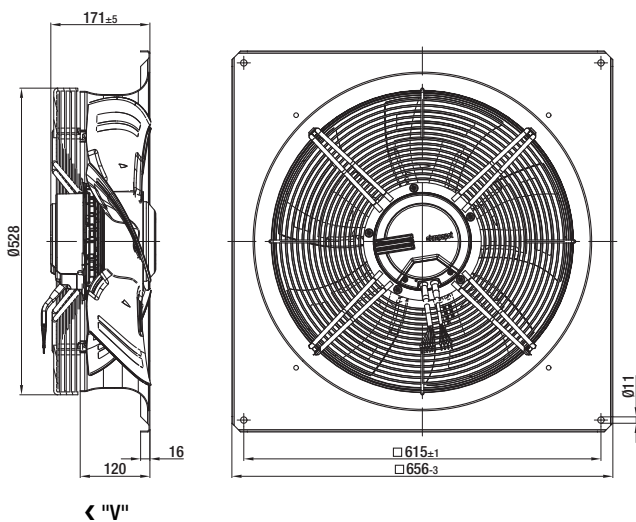
## Without attachments

Type	Mass [kg]	g
A3G 500-AM56 -21	7,2	160,5
A3G 500-AN33 -01	9,2	180,5



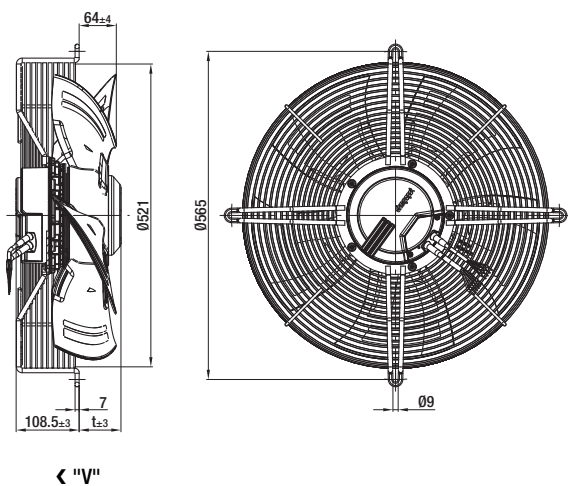
## With full square nozzle

Type	Mass [kg]
W3G 500-GM56 -21	17,2
W3G 500-GN33 -01	19,2



## With guard grille for short nozzle

Type	Mass [kg]	t
S3G 500-AM56 -21	10,5	52,0
S3G 500-AN33 -01	12,5	72,0



# EC axial fans - HyBlade®

Ø 560



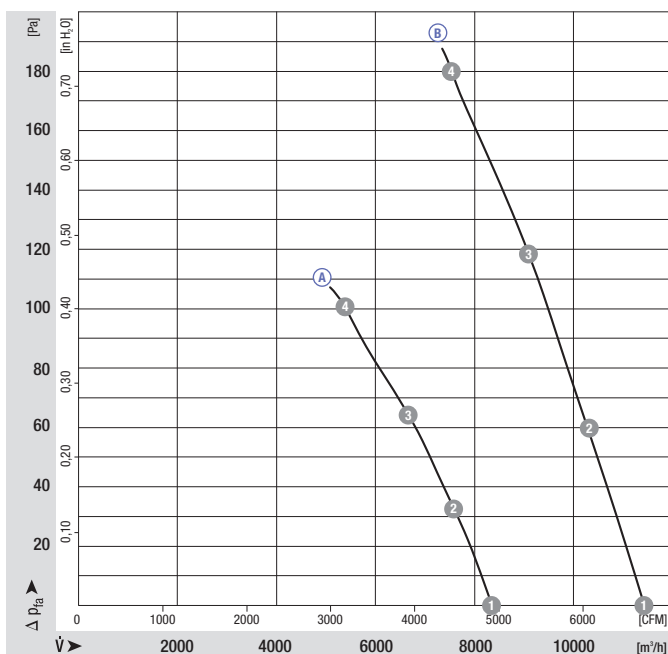
- **Material:** Guard grille: Steel, phosphated and coated in black plastic  
Wall ring: Sheet steel, pre-galvanised and coated in black plastic  
Blades: Insertion part made of sheet aluminium, extrusion-coated in PP plastics  
Rotor: Coated in black  
Electronics enclosure: Die-cast aluminium, coated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

Nominal data		Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm <sup>(1)</sup>	Max. power input <sup>(1)</sup>	Max. current draw <sup>(1)</sup>	Max. operative range	Perm. amb. temp.	Mass without attachments	Technical features and electr. connections
Type	Motor			VAC	Hz	rpm	kW	A	Pa	°C	kg	
*3G 560	M3G 112-EA	-5°	A	1~ 200-277	50/60	1000	0,40	1,80	100	-25..+60	7,2	p. 36 / K1)
*3G 560	M3G 112-GA	-5°	B	3~ 380-480	50/60	1350	0,95	1,50	180	-25..+60	9,3	p. 39 / K3)

subject to alterations

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




## Curves



	n [rpm]	P <sub>1</sub> [kW]	I [A]	Lw <sub>A</sub> [dB(A)]
A 1	1000	0,29	1,29	67
A 2	1000	0,33	1,47	66
A 3	1000	0,36	1,58	65
A 4	1000	0,40	1,80	69
B 1	1350	0,67	1,11	75
B 2	1350	0,78	1,25	74
B 3	1350	0,86	1,37	73
B 4	1350	0,95	1,50	77



- **Technical features:** See electrical connections p. 36 ff.
- **EMC:**
  - ⓑ Interference emission acc. to EN 61000-6-3
  - Ⓐ Interference emission acc. to EN 61000-6-4
  - Interference immunity acc. to EN 61000-6-2
  - Harmonics acc. to EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Optional terminal box design:** Electrical connection via terminal strip, see p. 34
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standards:** CE
- **Approvals:** VDE, CCC, GOST are applied for; UL, CSA on request

Direction of air flow	 ◀ "V"	 ◀ "V"	 ◀ "V"
	Without attachments	With full square nozzle	With guard grille for short nozzle
"V"	A3G 560-AP68 -21*	W3G 560-GP68 -21	S3G 560-AP68 -21
"V"	A3G 560-AQ41 -01*	W3G 560-GQ41 -01	S3G 560-AQ41 -01

\*Optional terminal box design: Electrical connection via terminal strip, see p. 34

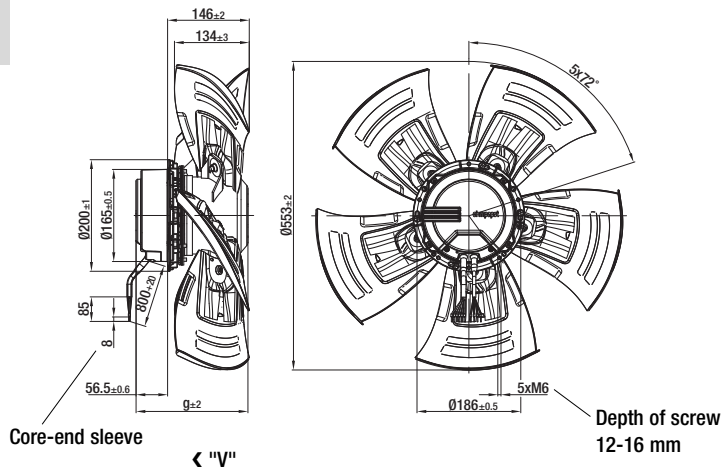
# EC axial fans - HyBlade®

Ø 560 with motor M3G112, drawings for direction of air flow "V"



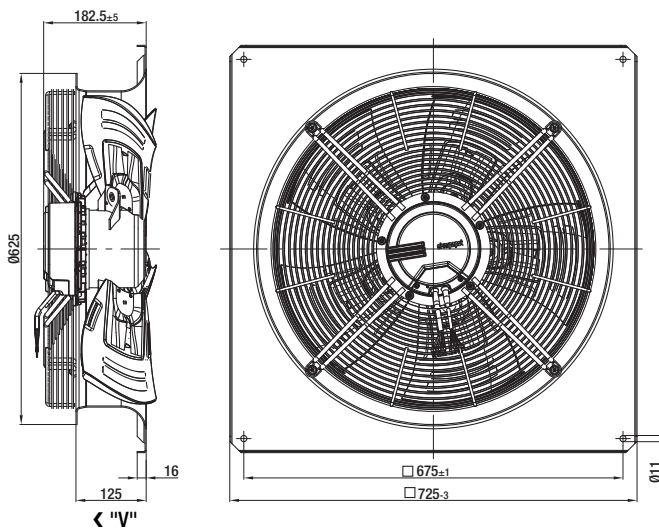
## Without attachments

Type	Mass [kg]	g
A3G 560-AP68 -21	7,2	180,5
A3G 560-AQ41 -01	9,3	200,5



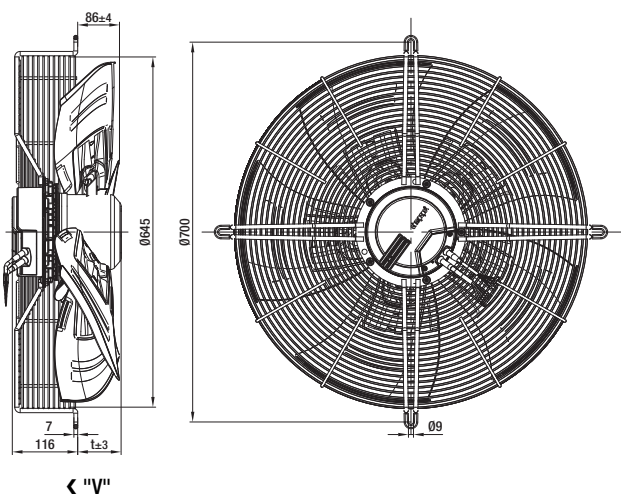
## With full square nozzle

Type	Mass [kg]
W3G 560-GP68 -21	18,9
W3G 560-GQ41 -01	21,0



## With guard grille for short nozzle

Type	Mass [kg]	t
S3G 560-AP68 -21	11,8	64
S3G 560-AQ41 -01	13,9	84





# EC axial fans - HyBlade®

Ø 630



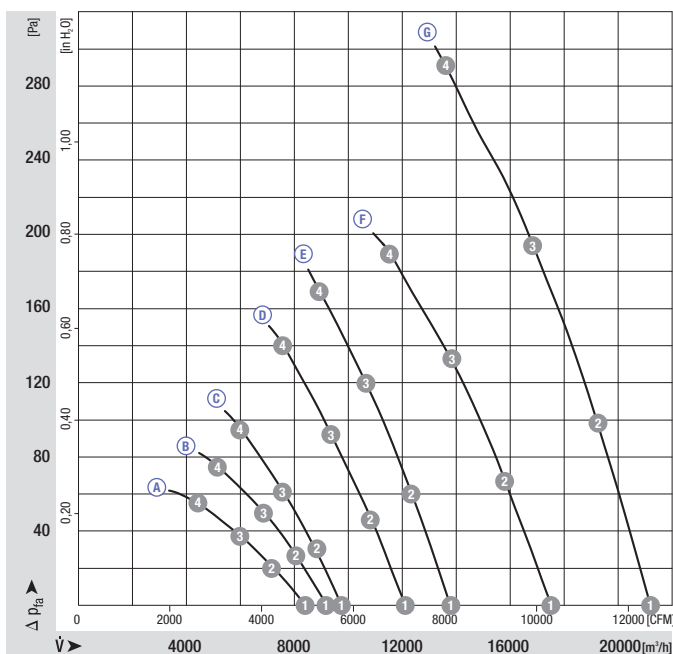
- **Material:** Guard grille: Steel, phosphated and coated in black plastic  
Wall ring: Sheet steel, pre-galvanised and coated in black plastic  
Blades (5): (A) (B) (C) (D) (E) Pressed-on round sheet steel plate; (F) (G) Insertion part made of sheet aluminium; Both versions extrusion-coated in PP plastics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

Nominal data		Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm <sup>(1)</sup>	Max. power input <sup>(1)</sup>	Max. current draw <sup>(1)</sup>	Max. operative range	Perm. amb. temp.	Mass without attachments	Technical features and electr. connections
Type	Motor			VAC	Hz	rpm	kW	A	Pa	°C	kg	
*3G 630	M3G 084-FA	0°	(A)	1~ 200-277	50/60	690	0,18	1,20	55	-25..+60	5,5	p. 36 / K1)
*3G 630	M3G 084-GF	0°	(B)	1~ 200-277	50/60	800	0,28	1,70	75	-25..+60	6,3	p. 36 / K1)
*3G 630	M3G 112-EA	-5°	(C)	1~ 200-277	50/60	820	0,40	1,80	95	-25..+60	7,3	p. 36 / K1)
*3G 630	M3G 112-GA	-5°	(D)	1~ 200-277	50/60	1000	0,72	3,20	140	-25..+60	9,3	p. 37 / L3)
*3G 630	M3G 112-IA	-5°	(E)	3~ 380-480	50/60	1140	0,99	1,60	170	-25..+60	11,3	p. 39 / K3)
*3G 630	M3G 150-FF	0°	(F)	3~ 380-480	50/60	1230	1,85	2,85	190	-25..+70	20,4	p. 38 / L5)
*3G 630	M3G 150-IF	0°	(G)	3~ 380-480	50/60	1510	3,20	4,90	290	-25..+65	24,4	p. 38 / L5)

subject to alterations

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

## Curves



	n	P <sub>1</sub>	I	L <sub>wA</sub>
	[rpm]	[kW]	[A]	[dB(A)]
(A) 1	750	0,14	0,90	61
(A) 2	725	0,16	1,01	60
(A) 3	710	0,17	1,09	60
(A) 4	690	0,18	1,20	64
(B) 1	800	0,18	0,82	65
(B) 2	800	0,23	1,02	63
(B) 3	800	0,27	1,17	63
(B) 4	800	0,28	1,70	68
(C) 1	820	0,25	1,09	66
(C) 2	820	0,30	1,31	63
(C) 3	820	0,35	1,52	64
(C) 4	820	0,40	1,80	67
(D) 1	1000	0,46	2,11	71
(D) 2	1000	0,55	2,51	68
(D) 3	1000	0,64	2,88	68
(D) 4	1000	0,72	3,20	71

- **Technical features:** See electrical connections p. 36 ff.
- **EMC:** **A B E F G** Interference emission acc. to EN 61000-6-3  
**C D** Interference emission acc. to EN 61000-6-4  
 Interference immunity acc. to EN 61000-6-2  
 Harmonics acc. to EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** **A B C D E** Variable
- **Optional terminal box design:** **A B C D E** Electrical connection via terminal strip, see p. 34
- **Terminal box:** **F G** Electrical connection via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standards:** CE
- **Approvals:** VDE, CCC, GOST are applied for; UL, CSA on request

Direction of air flow			
	Without attachments	With full square nozzle	With guard grille for short nozzle
"V"	A3G 630-AC52 -51*	W3G 630-GC52 -51	S3G 630-AC52 -51
"V"	A3G 630-AD03 -A1*	W3G 630-GD03 -A1	S3G 630-AD03 -A1
"V"	A3G 630-AP70 -21*	W3G 630-GP70 -21	S3G 630-AP70 -21
"V"	A3G 630-AQ37 -21*	W3G 630-GQ37 -21	S3G 630-AQ37 -21
"V"	A3G 630-AR85 -01*	W3G 630-GR85 -01	S3G 630-AR85 -01
"V"	A3G 630-AS21 -01	W3G 630-GS21 -01	S3G 630-AS21 -01
"V"	A3G 630-AU23 -01	W3G 630-GU23 -01	S3G 630-AU23 -01

\*Optional terminal box design: Electrical connection via terminal strip, see p. 34

	n [rpm]	P <sub>1</sub> [kW]	I [A]	L <sub>wA</sub> [dB(A)]
<b>E</b> ①	1140	0,64	1,02	74
<b>E</b> ②	1140	0,78	1,25	71
<b>E</b> ③	1140	0,89	1,42	72
<b>E</b> ④	1140	0,99	1,60	74
<b>F</b> ①	1230	1,47	2,26	77
<b>F</b> ②	1230	1,60	2,46	76
<b>F</b> ③	1230	1,75	2,70	77
<b>F</b> ④	1230	1,85	2,85	81
<b>G</b> ①	1510	2,49	3,77	81
<b>G</b> ②	1510	2,74	4,18	81
<b>G</b> ③	1510	2,94	4,47	81
<b>G</b> ④	1510	3,20	4,90	86

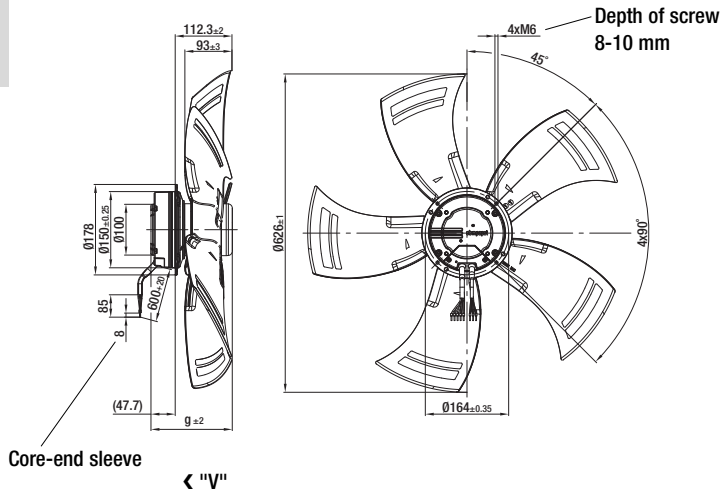
# EC axial fans - HyBlade®

Ø 630 with motor M3G084, drawings for direction of air flow "V"



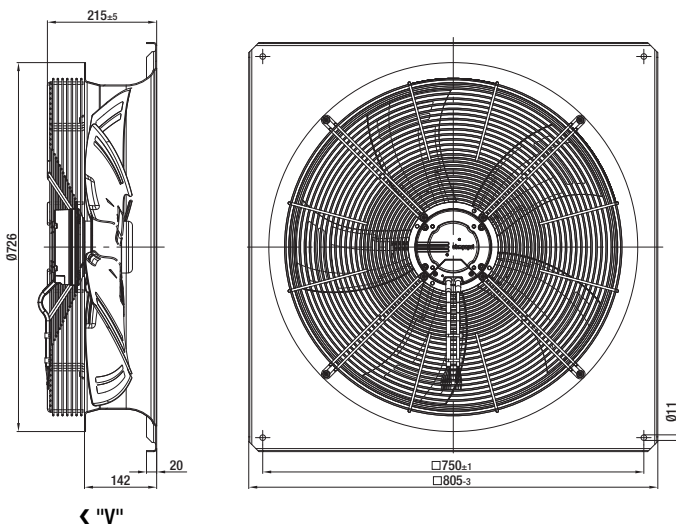
## Without attachments

Type	Mass [kg]	g
A3G 630-AC52 -51	5,5	145,0
A3G 630-AD03 -A1	6,3	160,0



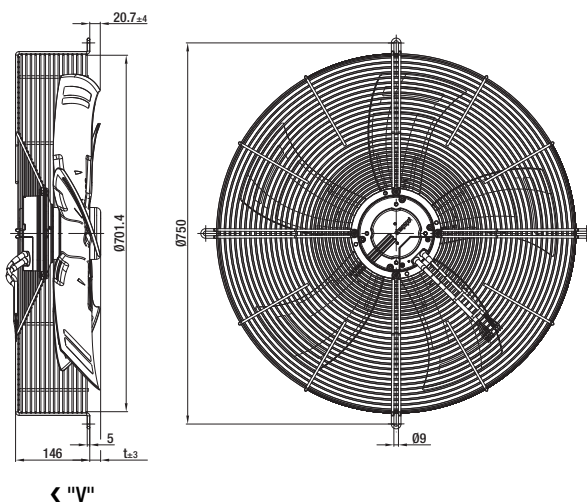
## With full square nozzle

Type	Mass [kg]
W3G 630-GC52 -51	19,6
W3G 630-GD03 -A1	20,4



## With guard grille for short nozzle

Type	Mass [kg]	t
S3G 630-AC52 -51	9,8	6,4
S3G 630-AD03 -A1	10,6	21,4



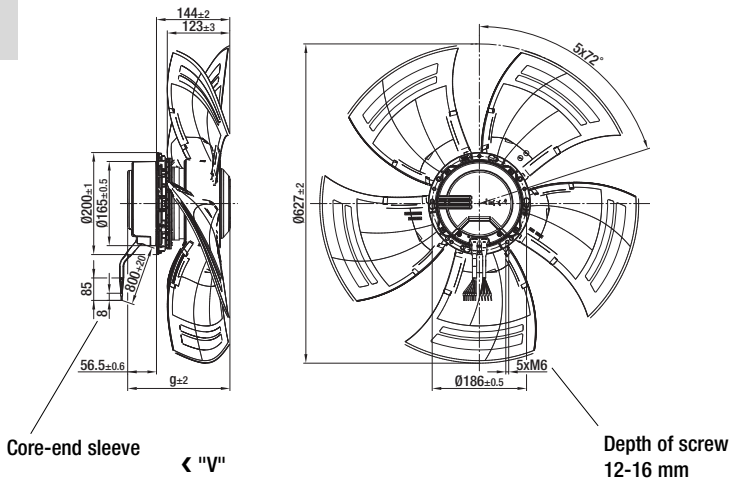
# EC axial fans - HyBlade®

Ø 630 with motor M3G112, drawings for direction of air flow "V"



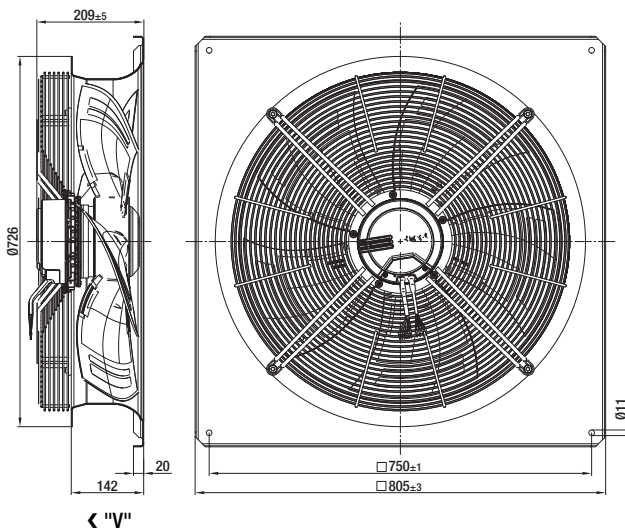
## Without attachments

Type	Mass [kg]	g
A3G 630-AP70 -21	7,3	180,5
A3G 630-AQ37 -21	9,3	180,5
A3G 630-AR85 -01	11,3	200,5



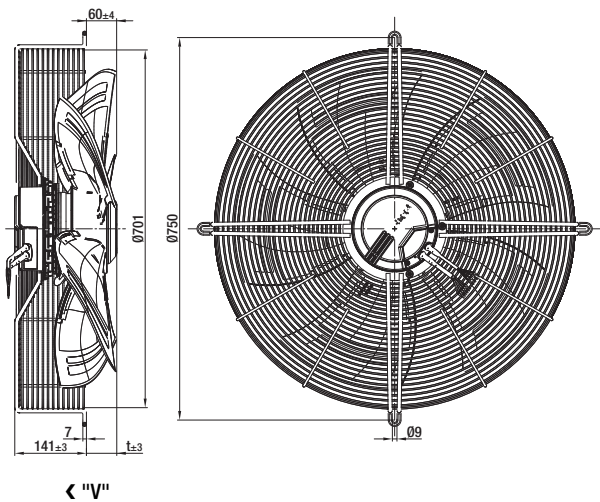
## With full square nozzle

Type	Mass [kg]
W3G 630-GP70 -21	22,3
W3G 630-GQ37 -21	24,3
W3G 630-GR85 -01	26,3



## With guard grille for short nozzle

Type	Mass [kg]	t
S3G 630-AP70 -21	12,6	39,5
S3G 630-AQ37 -21	14,6	39,5
S3G 630-AR85 -01	16,6	59,5



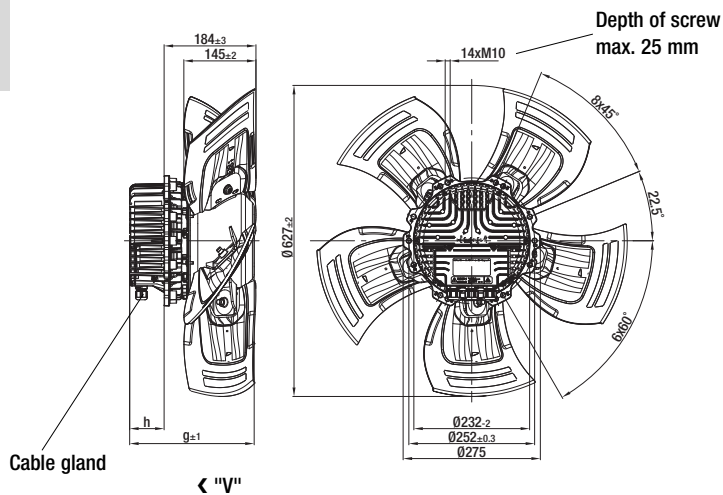
# EC axial fans - HyBlade®

Ø 630 with motor M3G150, drawings for direction of air flow "V"



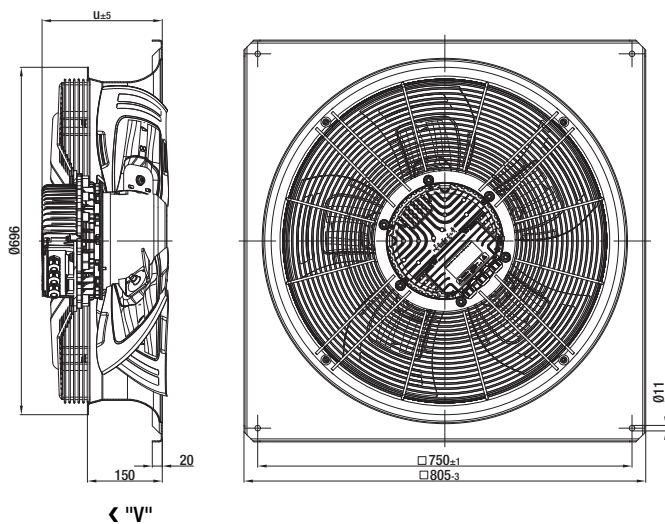
## Without attachments

Type	Mass		
	[kg]	g	h
A3G 630-AS21 -01	20,4	238,0	57,5
A3G 630-AU23 -01	24,4	250,5	70,0



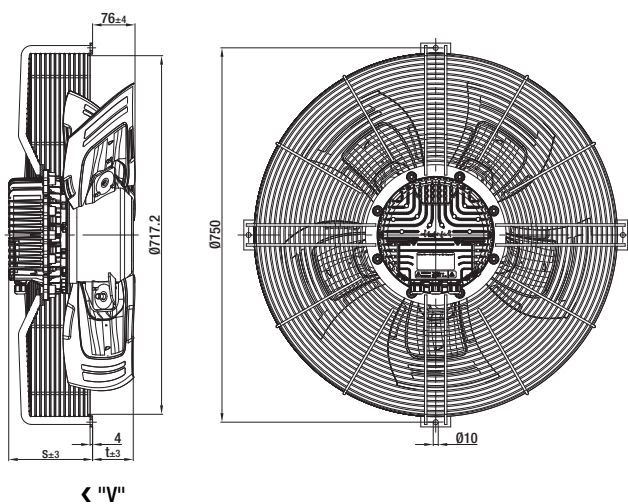
## With full square nozzle

Type	Mass	
	[kg]	u
W3G 630-GS21 -01	35,5	237,5
W3G 630-GU23 -01	39,5	250,0



## With guard grille for short nozzle

Type	Mass [kg]		
		s	t
S3G 630-AS21 -01	27,5	165,5	72,5
S3G 630-AU23 -01	31,5	178,0	72,5







# EC axial fans - HyBlade®

Ø 710



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

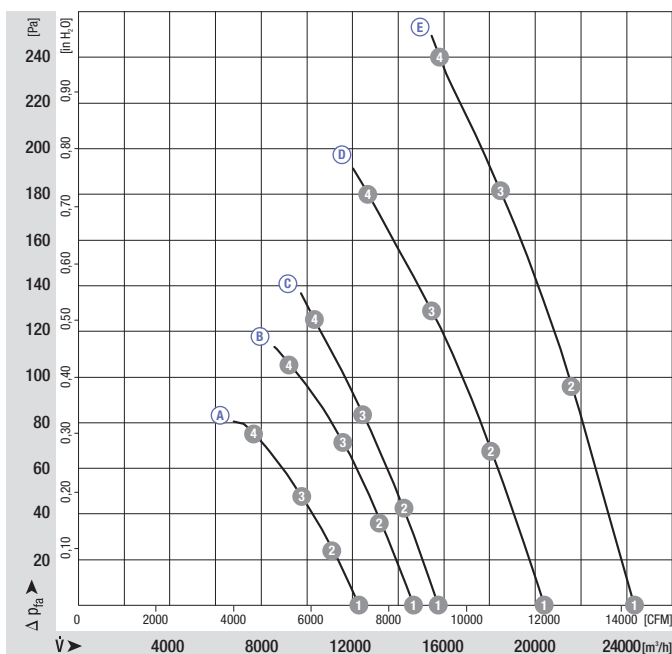
## Nominal data

Type	Motor	Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm <sup>(1)</sup>	Max. power input <sup>(1)</sup>	Max. current draw <sup>(1)</sup>	Max. operative range	Perm. amb. temp.	Mass without attachments	Technical features and electr. connections
				VAC	Hz	rpm	kW	A	Pa	°C	kg	
*3G 710	M3G 112-GA	0°	Ⓐ	1~ 200-277	50/60	710	0,46	2,00	75	-25..+60	10,0	p. 36 / K1)
*3G 710	M3G 112-IA	0°	Ⓑ	1~ 200-277	50/60	830	0,70	3,10	105	-25..+60	12,0	p. 37 / L3)
*3G 710	M3G 112-IA	0°	Ⓒ	3~ 380-480	50/60	900	0,93	1,50	125	-25..+60	12,0	p. 39 / K3)
*3G 710	M3G 150-FF	0°	Ⓓ	3~ 380-480	50/60	1030	1,72	2,70	180	-25..+65	21,3	p. 38 / L5)
*3G 710	M3G 150-IF	0°	Ⓔ	3~ 380-480	50/60	1250	2,80	4,40	240	-25..+60	25,3	p. 38 / L5)

subject to alterations

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

## Curves



	n [rpm]	P <sub>1</sub> [kW]	I [A]	Lw <sub>A</sub> [dB(A)]
Ⓐ ①	710	0,28	1,24	65
Ⓐ ②	710	0,34	1,51	64
Ⓐ ③	710	0,40	1,74	64
Ⓐ ④	710	0,46	2,00	72
Ⓑ ①	830	0,45	2,08	69
Ⓑ ②	830	0,55	2,49	67
Ⓑ ③	830	0,64	2,86	68
Ⓑ ④	830	0,70	3,10	76
Ⓒ ①	900	0,59	0,96	70
Ⓒ ②	900	0,70	1,12	69
Ⓒ ③	900	0,81	1,30	70
Ⓒ ④	900	0,93	1,50	77
Ⓓ ①	1030	1,31	2,00	74
Ⓓ ②	1030	1,46	2,22	73
Ⓓ ③	1030	1,61	2,45	74
Ⓓ ④	1030	1,72	2,70	79
Ⓔ ①	1250	2,15	3,30	79
Ⓔ ②	1250	2,44	3,71	79
Ⓔ ③	1250	2,67	4,06	79
Ⓔ ④	1250	2,80	4,40	83

- **Technical features:** See electrical connections p. 36 ff.
- **EMC:** (C) (D) (E) Interference emission acc. to EN 61000-6-3  
(A) (B) Interference emission acc. to EN 61000-6-4  
Interference immunity acc. to EN 61000-6-2  
Harmonics acc. to EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** (A) (B) (C) Variable
- **Optional terminal box design:** (A) (B) (C) Electrical connection via terminal strip, see p. 34
- **Terminal box:** (D) (E) Electrical connection via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standards:** CE
- **Approvals:** VDE, CCC, GOST are applied for; UL, CSA on request

Direction of air flow			
	Without attachments	With full square nozzle	With guard grille for short nozzle
"V"	A3G 710-AN48 -21*	W3G 710-GN48 -21	S3G 710-AN48 -21
"V"	A3G 710-A085 -21*	W3G 710-G085 -21	S3G 710-A085 -21
"V"	A3G 710-A081 -01*	W3G 710-G081 -01	S3G 710-A081 -01
"V"	A3G 710-AS30 -01	W3G 710-GS30 -01	S3G 710-AS30 -01
"V"	A3G 710-AU21 -01	W3G 710-GU21 -01	S3G 710-AU21 -01

\*Optional terminal box design: Electrical connection via terminal strip, see p. 34

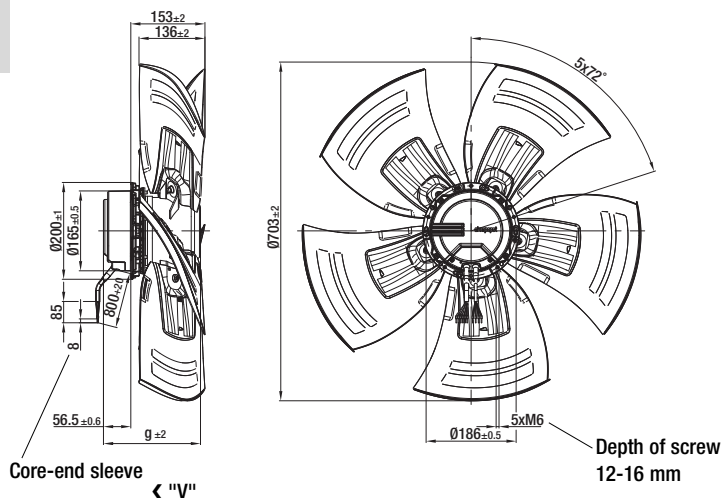
# EC axial fans - HyBlade®

Ø 710 with motor M3G112, drawings for direction of air flow "V"



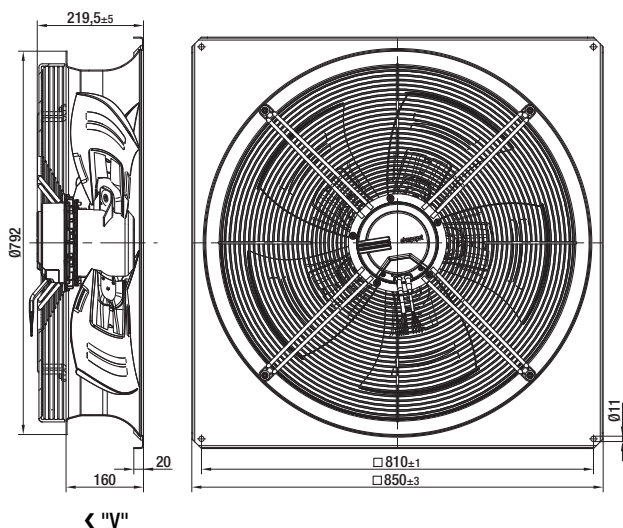
## Without attachments

Type	Mass [kg]	g
A3G 710-AN48 -21	10,0	180,5
A3G 710-A085 -21	12,0	200,5
A3G 710-A081 -01	12,0	200,5



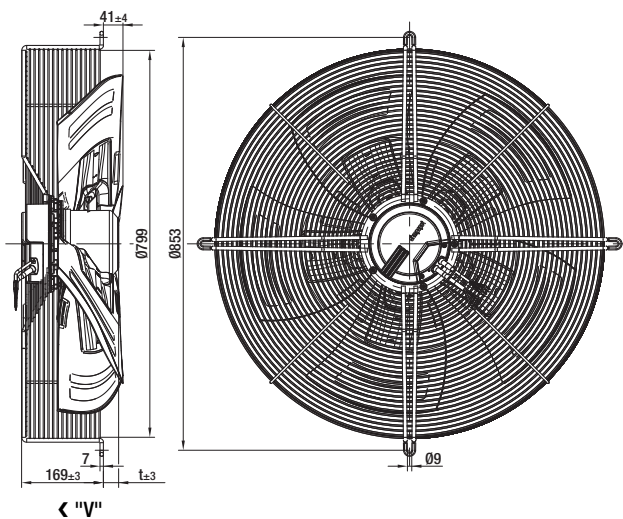
## With full square nozzle

Type	Mass [kg]
W3G 710-GN48 -21	24,9
W3G 710-G085 -21	26,9
W3G 710-G081 -01	26,9



## With guard grille for short nozzle

Type	Mass [kg]	t
S3G 710-AN48 -21	16,8	11,5
S3G 710-A085 -21	18,8	31,5
S3G 710-A081 -01	18,8	31,5



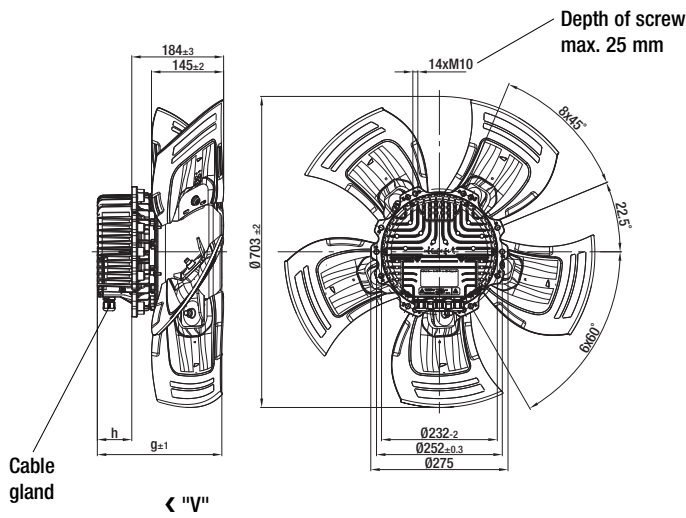
# EC axial fans - HyBlade®

Ø 710 with motor M3G150, drawings for direction of air flow "V"



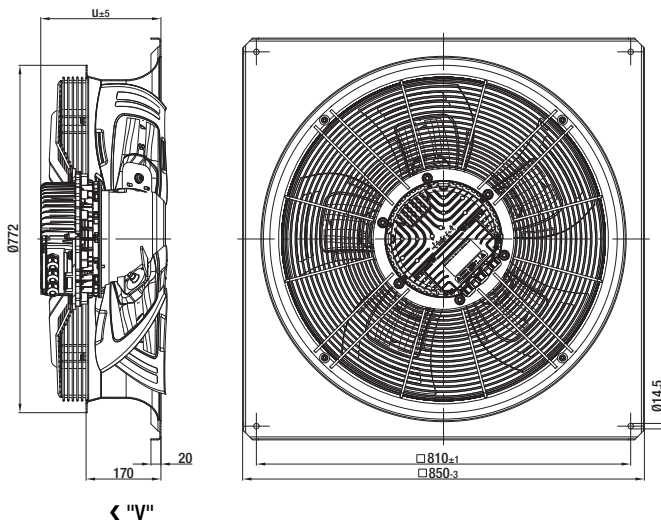
## Without attachments

Type	Mass		
	[kg]	g	h
A3G 710-AS30 -01	21,3	238,0	57,5
A3G 710-AU21 -01	25,3	250,5	70,0



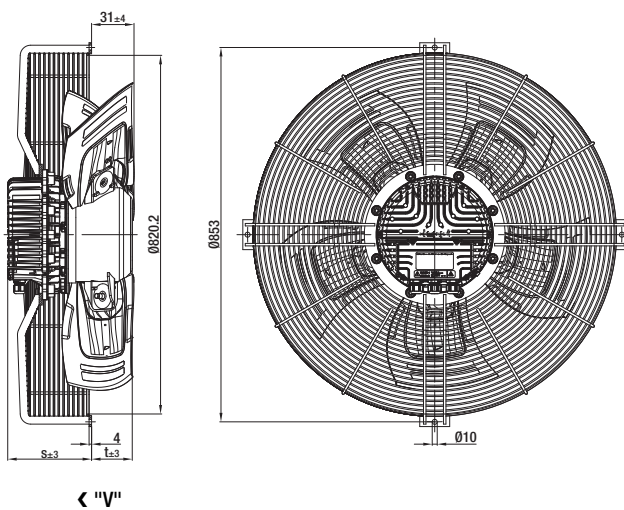
## With full square nozzle

Type	Mass	
	[kg]	u
W3G 710-GS30 -01	38,4	272,0
W3G 710-GU21 -01	42,4	284,5



## With guard grille for short nozzle

Type	Mass		
	[kg]	s	t
S3G 710-AS30 -01	30,5	211,0	27,0
S3G 710-AU21 -01	34,5	223,5	27,0



# EC axial fans - HyBlade®

Ø 800



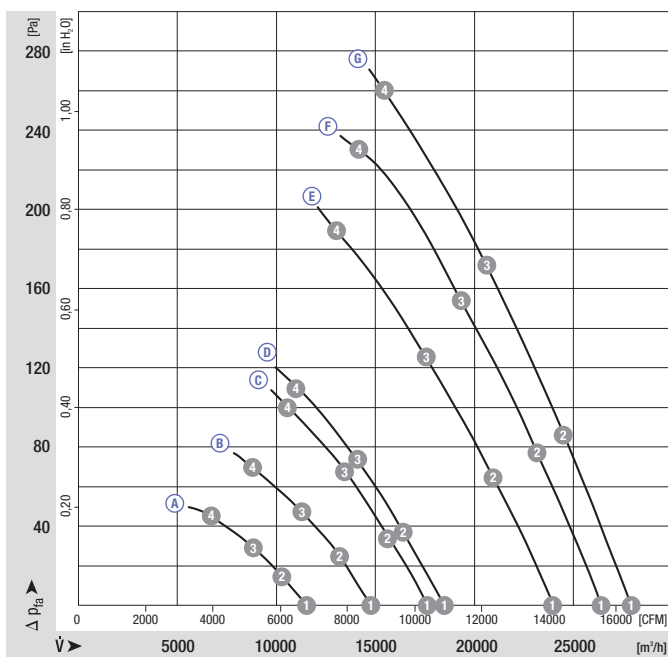
- **Material:** Guard grille: Steel, phosphated and coated in black plastic  
Wall ring: Sheet steel, pre-galvanised and coated in black plastic  
Blades (5): (A) (B) (C) (D) Pressed-on round sheet steel plate; (E) (F) (G) Insertion part made of sheet aluminium; Both versions extrusion-coated in PP plastics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

Nominal data		Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm <sup>(1)</sup>	Max. power input <sup>(1)</sup>	Max. current draw <sup>(1)</sup>	Max. operative range	Perm. amb. temp.	Mass without attachments	Technical features and electr. connections
Type	Motor			VAC	Hz	rpm	kW	A	Pa	°C	kg	
*3G 800	M3G 112-EA	0°	(A)	1~ 200-277	50/60	470	0,22	1,00	45	-25..+60	8,0	p. 36 / K1)
*3G 800	M3G 112-GA	0°	(B)	1~ 200-277	50/60	600	0,44	1,90	70	-25..+60	10,0	p. 36 / K1)
*3G 800	M3G 112-IA	0°	(C)	1~ 200-277	50/60	710	0,73	3,20	100	-25..+60	12,1	p. 37 / L3)
*3G 800	M3G 112-IA	0°	(D)	3~ 380-480	50/60	735	0,84	1,40	110	-25..+60	12,1	p. 39 / K3)
*3G 800	M3G 150-GF	0°	(E)	3~ 380-480	50/60	925	1,85	2,85	190	-25..+60	23,0	p. 38 / L5)
*3G 800	M3G 150-IF	0°	(F)	3~ 380-480	50/60	1020	2,56	3,90	230	-25..+60	25,9	p. 38 / L5)
*3G 800	M3G 150-NA	0°	(G)	3~ 380-480	50/60	1090	2,86	4,50	260	-25..+65	30,4	p. 38 / L5)

subject to alterations

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

## Curves



	n [rpm]	P <sub>1</sub> [kW]	I [A]	L <sub>WA</sub> [dB(A)]
(A) 1	470	0,14	0,85	59
(A) 2	470	0,17	0,99	57
(A) 3	470	0,19	0,95	54
(A) 4	470	0,22	1,00	59
(B) 1	600	0,29	1,27	64
(B) 2	600	0,34	1,51	61
(B) 3	600	0,38	1,69	59
(B) 4	600	0,44	1,90	65
(C) 1	710	0,45	2,08	69
(C) 2	710	0,55	2,49	66
(C) 3	710	0,63	2,84	64
(C) 4	710	0,73	3,20	70
(D) 1	735	0,52	0,88	70
(D) 2	735	0,62	1,02	66
(D) 3	735	0,72	1,18	64
(D) 4	735	0,84	1,40	70

- **Technical features:** See electrical connections p. 36 ff.
- **EMC:** **D E F G** Interference emission acc. to EN 61000-6-3  
**A B C** Interference emission acc. to EN 61000-6-4  
 Interference immunity acc. to EN 61000-6-2  
 Harmonics acc. to EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** **A B C D** Variable
- **Optional terminal box design:** **A B C D** Electrical connection via terminal strip, see p. 34
- **Terminal box:** **E F G** Electrical connection via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standards:** CE
- **Approvals:** VDE, CCC, GOST are applied for; UL, CSA on request

Direction of air flow			
	Without attachments	With full square nozzle	With guard grille for full nozzle
"V"	A3G 800-AM67 -21*	W3G 800-GM67 -21	S3G 800-BM67 -21
"V"	A3G 800-AN36 -21*	W3G 800-GN36 -21	S3G 800-BN36 -21
"V"	A3G 800-AO81 -21*	W3G 800-GO81 -21	S3G 800-BO81 -21
"V"	A3G 800-AO84 -01*	W3G 800-GO84 -01	S3G 800-BO84 -01
"V"	A3G 800-AT21 -01	W3G 800-GT21 -01	S3G 800-BT21 -01
"V"	A3G 800-AU25 -01	W3G 800-GU25 -01	S3G 800-BU25 -01
"V"	A3G 800-AV01 -01	W3G 800-GV01 -01	S3G 800-BV01 -01

\*Optional terminal box design: Electrical connection via terminal strip, see p. 34

	n [rpm]	P <sub>1</sub> [kW]	I [A]	L <sub>wA</sub> [dB(A)]
<b>E</b> ①	925	1,18	1,81	72
<b>E</b> ②	925	1,39	2,12	72
<b>E</b> ③	925	1,59	2,42	74
<b>E</b> ④	925	1,85	2,85	80
<b>F</b> ①	1020	1,62	2,47	75
<b>F</b> ②	1020	1,88	2,88	75
<b>F</b> ③	1020	2,15	3,29	77
<b>F</b> ④	1020	2,56	3,90	85
<b>G</b> ①	1090	1,87	2,84	76
<b>G</b> ②	1090	2,18	3,32	76
<b>G</b> ③	1090	2,50	3,81	78
<b>G</b> ④	1090	2,86	4,50	85

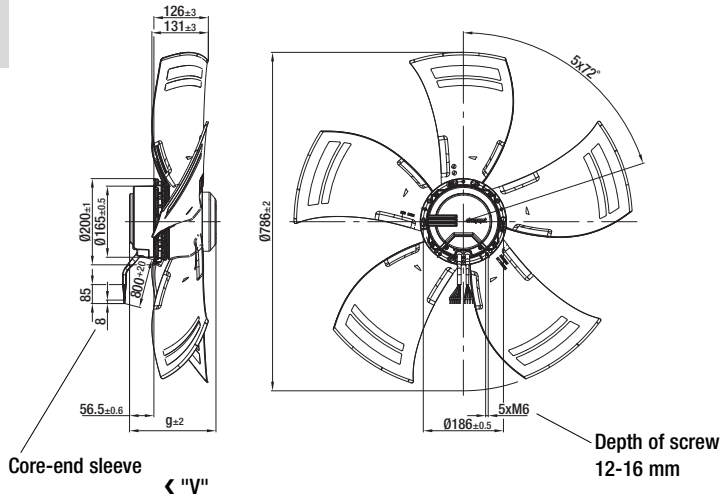
# EC axial fans - HyBlade®

Ø 800 with motor M3G112, drawings for direction of air flow "V"



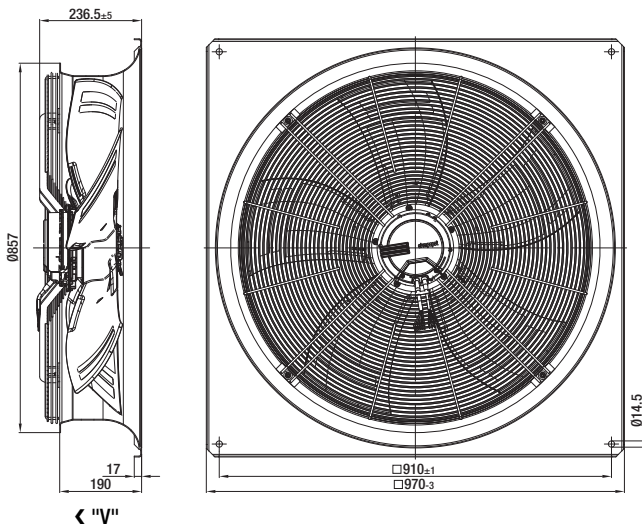
## Without attachments

Type	Mass [kg]	g
A3G 800-AM67 -21	8,0	160,5
A3G 800-AN36 -21	10,0	180,5
A3G 800-A081 -21	12,1	200,5
A3G 800-A084 -01	12,1	200,5



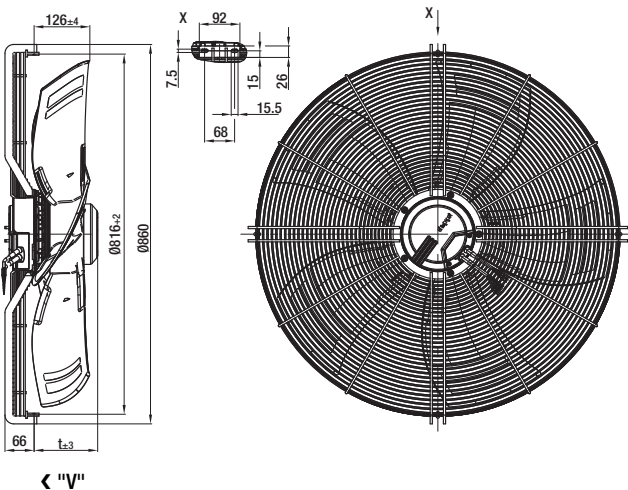
## With full square nozzle

Type	Mass [kg]
W3G 800-GM67 -21	29,2
W3G 800-GN36 -21	31,2
W3G 800-G081 -21	33,3
W3G 800-G084 -01	33,3



## With guard grille for full nozzle

Type	Mass [kg]	t
S3G 800-BM67 -21	14,2	104,0
S3G 800-BN36 -21	16,2	124,0
S3G 800-B081 -21	18,3	144,0
S3G 800-B084 -01	18,3	144,0



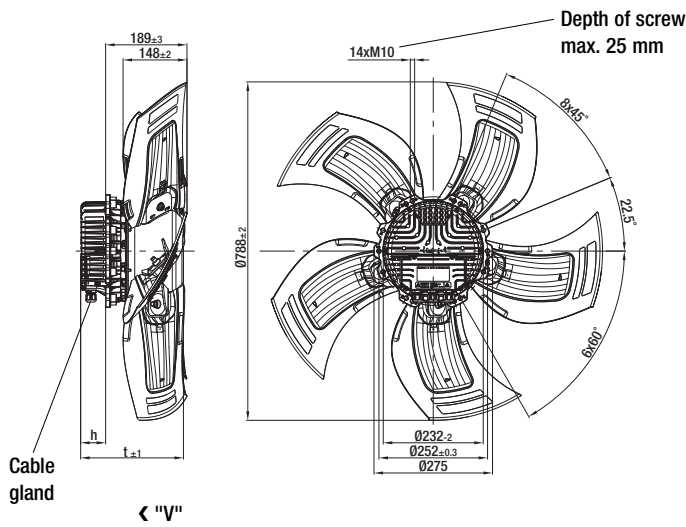


# EC axial fans - HyBlade®

Ø 800 with motor M3G150, drawings for direction of air flow "V"



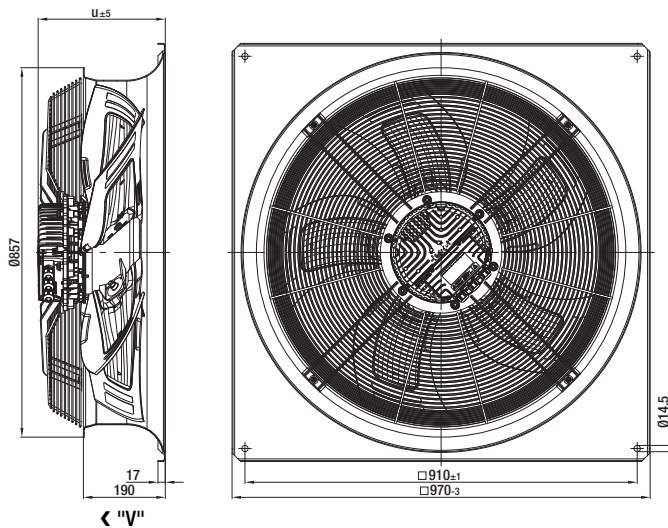
## Without attachments



Type	Mass		
	[kg]	g	h
A3G 800-AT21 -01	23,0	238,0	57,5
A3G 800-AU25 -01	25,9	250,5	70,0
A3G 800-AV01 -01	30,4	289,5	70,0



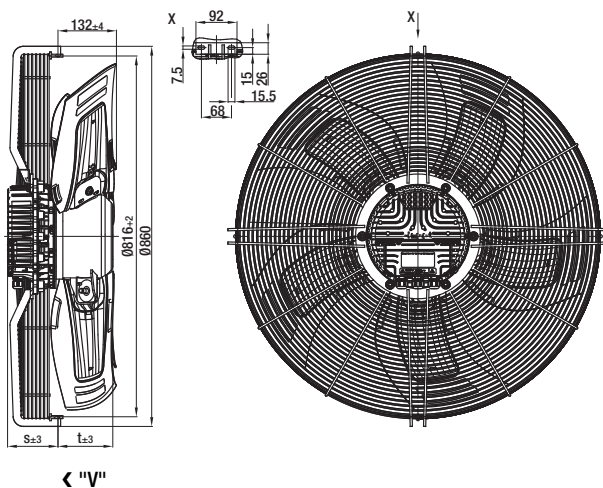
## With full square nozzle



Type	Mass	
	[kg]	u
W3G 800-GT21 -01	42,8	294,5
W3G 800-GU25 -01	45,7	307,0
W3G 800-GV01 -01	50,2	307,0



## With guard grille for full nozzle



Type	Mass [kg]		
		s	t
S3G 800-BT21 -01	30,8	114,0	124,0
S3G 800-BU25 -01	33,7	126,5	124,0
S3G 800-BV01 -01	38,2	126,5	163,0

# EC axial fans - HyBlade®

Ø 910



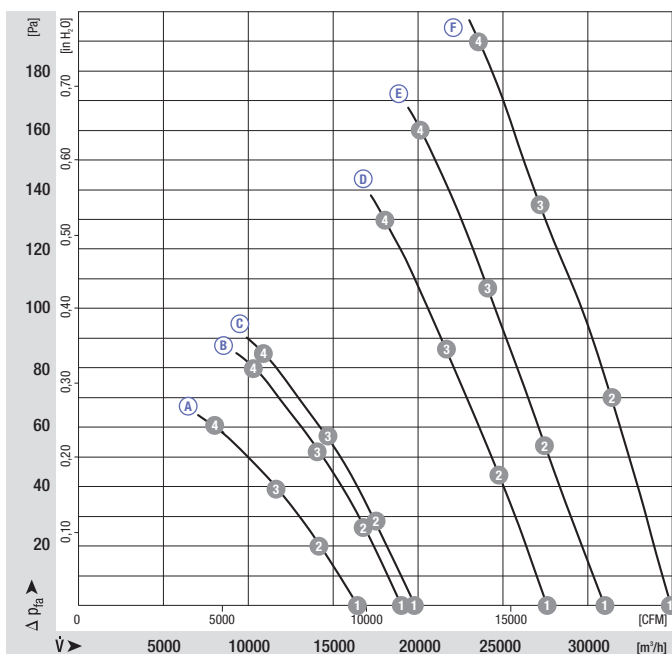
- **Material:** Guard grille: Steel, phosphated and coated in black plastic  
Wall ring: Sheet steel, pre-galvanised and coated in black plastic  
Blades (5): (A) (B) (C) Pressed-on round sheet steel plate; (D) (E) (F) Insertion part made of sheet aluminium; Both versions extrusion-coated in PP plastics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

Nominal data		Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm <sup>(1)</sup>	Max. power input <sup>(1)</sup>	Max. current draw <sup>(1)</sup>	Max. operative range	Perm. amb. temp.	Mass without attachments	Technical features and electr. connections
Type	Motor			VAC	Hz	rpm	kW	A	Pa	°C	kg	
*3G 910	M3G 112-GA	0°	(A)	1~ 200-277	50/60	510	0,38	1,70	60	-25..+60	10,1	p. 36 / K1)
*3G 910	M3G 112-IA	0°	(B)	1~ 200-277	50/60	590	0,58	2,60	80	-25..+60	12,2	p. 37 / L3)
*3G 910	M3G 112-IA	0°	(C)	3~ 380-480	50/60	610	0,63	1,10	85	-25..+60	12,2	p. 39 / K3)
*3G 910	M3G 150-FF	0°	(D)	3~ 380-480	50/60	800	1,58	2,50	130	-25..+60	22,4	p. 38 / L5)
*3G 910	M3G 150-IF	0°	(E)	3~ 380-480	50/60	885	2,10	3,20	160	-25..+60	26,4	p. 38 / L5)
*3G 910	M3G 150-NA	0°	(F)	3~ 380-480	50/60	1000	2,88	4,40	190	-25..+65	30,9	p. 38 / L5)

subject to alterations

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

## Curves



	n [rpm]	P <sub>1</sub> [kW]	I [A]	L <sub>wA</sub> [dB(A)]
(A) 1	510	0,22	0,98	64
(A) 2	510	0,27	1,19	62
(A) 3	510	0,32	1,41	61
(A) 4	510	0,38	1,70	68
(B) 1	590	0,35	1,59	68
(B) 2	590	0,43	1,97	66
(B) 3	590	0,50	2,26	65
(B) 4	590	0,58	2,60	73
(C) 1	610	0,39	0,69	69
(C) 2	610	0,48	0,80	67
(C) 3	610	0,56	0,92	66
(C) 4	610	0,63	1,10	71
(D) 1	800	1,01	1,58	73
(D) 2	800	1,22	1,89	72
(D) 3	800	1,40	2,14	72
(D) 4	800	1,58	2,50	75

- **Technical features:** See electrical connections p. 36 ff.
- **EMC:** **C** **E** **F** **G** Interference emission acc. to EN 61000-6-3  
**A** **B** Interference emission acc. to EN 61000-6-4  
Interference immunity acc. to EN 61000-6-2  
Harmonics acc. to EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** **A** **B** **C** Variable
- **Optional terminal box design:** **A** **B** **C** Electrical connection via terminal strip, see p. 34
- **Terminal box:** **D** **E** **F** Electrical connection via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standards:** CE
- **Approvals:** VDE, CCC, GOST are applied for; UL, CSA on request

Direction of air flow			
	Without attachments	With full square nozzle	With guard grille for full nozzle
"V"	A3G 910-AN46 -21*	W3G 910-GN46 -21	S3G 910-BN46 -21
"V"	A3G 910-A084 -21*	W3G 910-G084 -21	S3G 910-B084 -21
"V"	A3G 910-A083 -01*	W3G 910-G083 -01	S3G 910-B083 -01
"V"	A3G 910-AS22 -01	W3G 910-GS22 -01	S3G 910-BS22 -01
"V"	A3G 910-AU22 -01	W3G 910-GU22 -01	S3G 910-BU22 -01
"V"	A3G 910-AV02 -01	W3G 910-GV02 -01	S3G 910-BV02 -01

\*Optional terminal box design: Electrical connection via terminal strip, see p. 34

	n [rpm]	P <sub>1</sub> [kW]	I [A]	L <sub>wA</sub> [dB(A)]
<b>E</b> ①	885	1,36	2,07	76
<b>E</b> ②	885	1,60	2,43	75
<b>E</b> ③	885	1,83	2,79	75
<b>E</b> ④	885	2,10	3,20	79
<b>F</b> ①	1000	1,92	2,91	76
<b>F</b> ②	1000	2,29	3,49	78
<b>F</b> ③	1000	2,60	3,97	79
<b>F</b> ④	1000	2,88	4,40	83

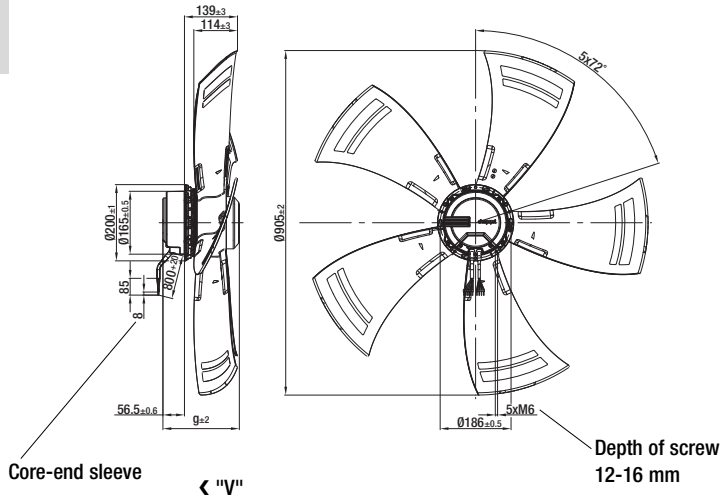
# EC axial fans - HyBlade®

Ø 910 with motor M3G112, drawings for direction of air flow "V"



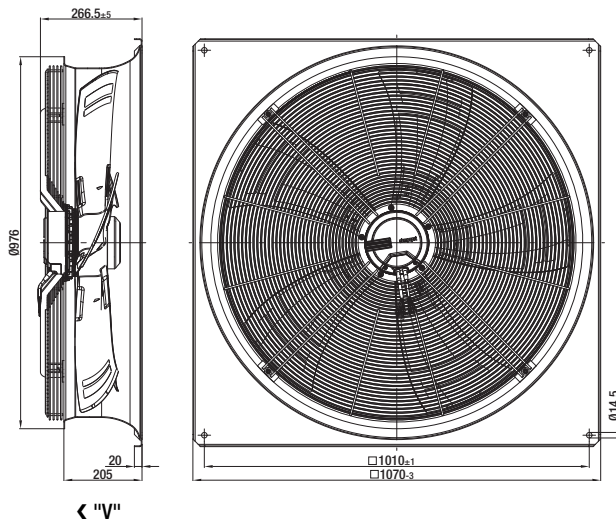
## Without attachments

Type	Mass [kg]	g
A3G 910-AN46 -21	10,1	180,5
A3G 910-A084 -21	12,2	200,5
A3G 910-A083 -01	12,2	200,5



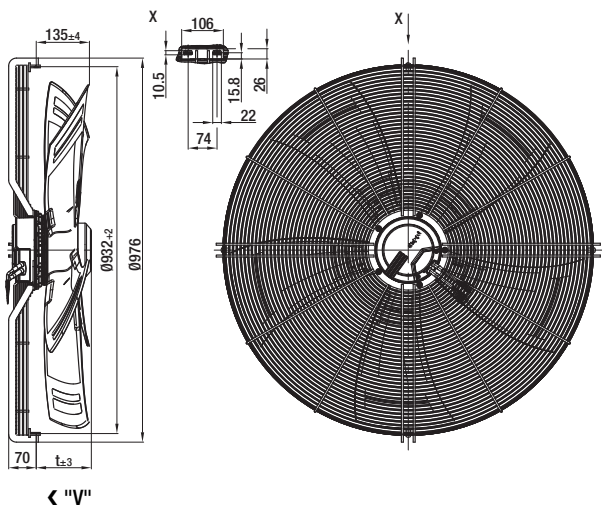
## With full square nozzle

Type	Mass [kg]
W3G 910-GN46 -21	35,0
W3G 910-G084 -21	37,0
W3G 910-G083 -01	37,0



## With guard grille for full nozzle

Type	Mass [kg]	t
S3G 910-BN46 -21	17,9	120,0
S3G 910-B084 -21	19,8	140,0
S3G 910-B083 -01	19,8	140,0

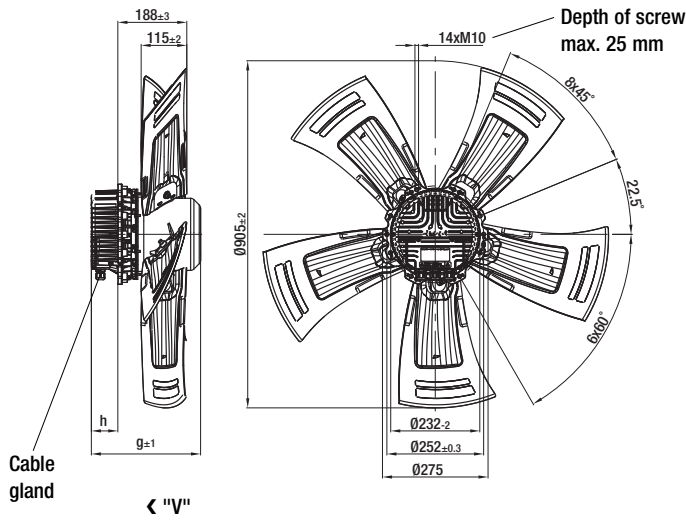


# EC axial fans - HyBlade®

Ø 910 with motor M3G150, drawings for direction of air flow "V"

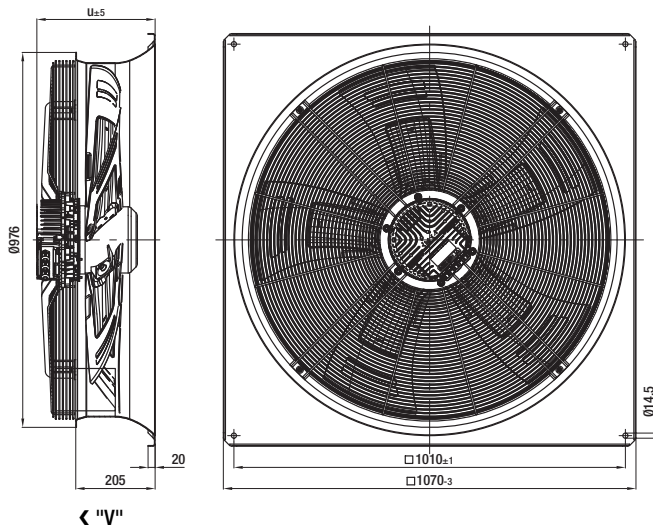


## Without attachments



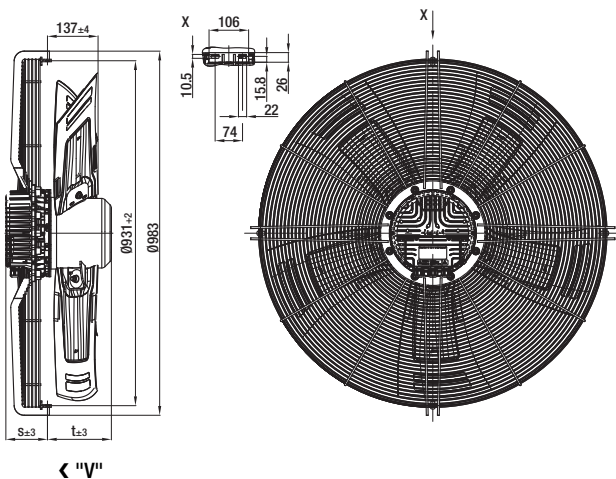
Type	Mass		
	[kg]	g	h
A3G 910-AS22 -01	22,4	238,0	57,5
A3G 910-AU22 -01	26,4	250,5	70,0
A3G 910-AV02 -01	30,9	289,5	70,0

## With full square nozzle



Type	Mass	
	[kg]	u
W3G 910-GS22 -01	47,6	294,5
W3G 910-GU22 -01	51,6	307,0
W3G 910-GV02 -01	56,1	307,0

## With guard grille for full nozzle



Type	Mass [kg]		
		s	t
S3G 910-BS22 -01	31,2	100,5	137,5
S3G 910-BU22 -01	35,2	113,0	137,5
S3G 910-BV02 -01	39,7	113,0	176,5

# EC axial fans - HyBlade®

Ø 990



- **Material:** Guard grille: Steel, phosphated and coated in black plastic  
Wall ring: Sheet steel, pre-galvanised and coated in black plastic  
Blades: Insertion part made of sheet aluminium, extrusion-coated in PP plastics  
Rotor: Coated in black  
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

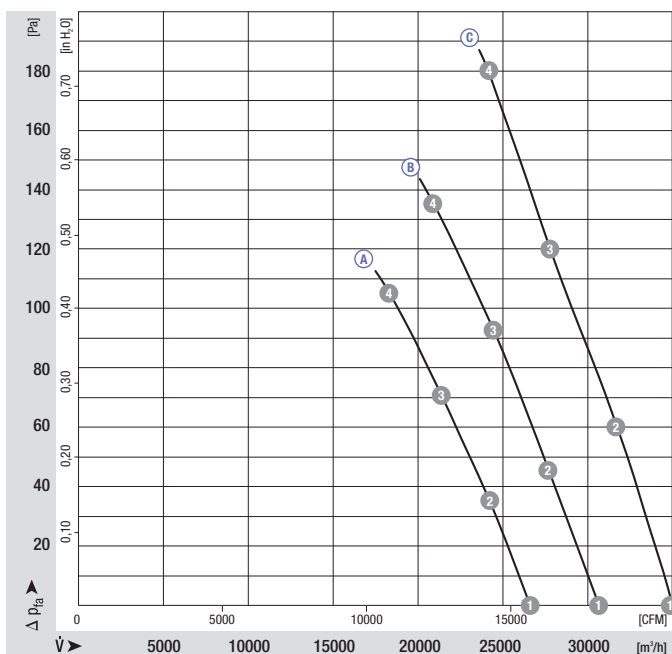
## Nominal data

Type	Motor	Blade angle	Curve	Nominal voltage range VAC	Frequency Hz	Speed/rpm <sup>(1)</sup> rpm	Max. power input <sup>(1)</sup> kW	Max. current draw <sup>(1)</sup> A	Max. operative range Pa	Perm. amb. temp. °C	Mass without attachments kg	Technical features and electr. connections
*3G 990	M3G 150-FF	-5°	A	3~ 380-480	50/60	740	1,16	1,80	105	-25..+70	22,7	p. 38 / L5)
*3G 990	M3G 150-IF	-5°	B	3~ 380-480	50/60	820	1,64	2,50	135	-25..+60	25,7	p. 38 / L5)
*3G 990	M3G 150-NA	-5°	C	3~ 380-480	50/60	960	2,58	4,00	180	-25..+70	31,2	p. 38 / L5)

subject to alterations




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

## Curves



	n [rpm]	P <sub>1</sub> [kW]	I [A]	L <sub>wA</sub> [dB(A)]
A 1	740	0,68	1,07	77
A 2	740	0,85	1,32	75
A 3	740	1,02	1,56	76
A 4	740	1,16	1,80	77
B 1	820	0,98	1,49	80
B 2	820	1,22	1,85	78
B 3	820	1,46	2,23	78
B 4	820	1,64	2,50	80
C 1	960	1,49	2,27	85
C 2	960	1,90	2,88	83
C 3	960	2,26	3,43	84
C 4	960	2,58	4,00	85

- **Technical features:** See electrical connections p. 38 ff.
- **EMC:** Interference emission acc. to EN 61000-6-3  
Interference immunity acc. to EN 61000-6-2  
Harmonics acc. to EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Terminal box:** Electrical connection via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standards:** CE
- **Approvals:** VDE, CCC, GOST are applied for; UL, CSA on request

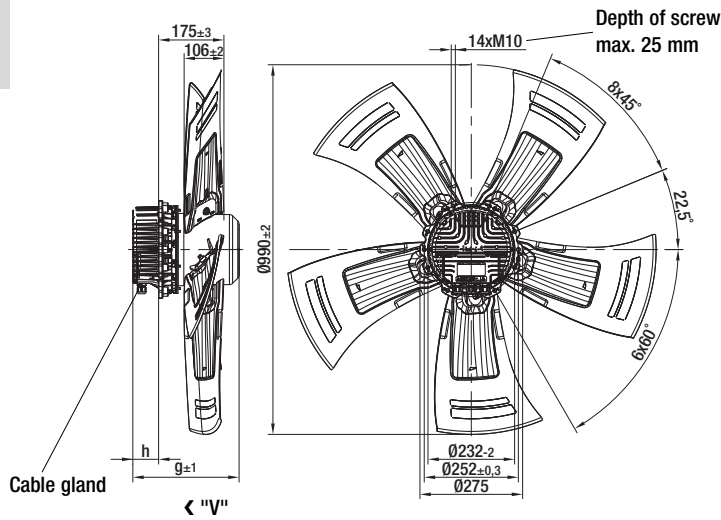
Direction of air flow			
	< "V"	< "V"	< "V"
	Without attachments	With full square nozzle	With guard grille for full nozzle
"V"	A3G 990-AW22 -01	W3G 990-GW22 -01	S3G 990-BW22 -01
"V"	A3G 990-AY28 -01	W3G 990-GY28 -01	S3G 990-BY28 -01
"V"	A3G 990-AZ02 -01	W3G 990-GZ02 -01	S3G 990-BZ02 -01

# EC axial fans - HyBlade®

Ø 990 with motor M3G150, drawings for direction of air flow "V"

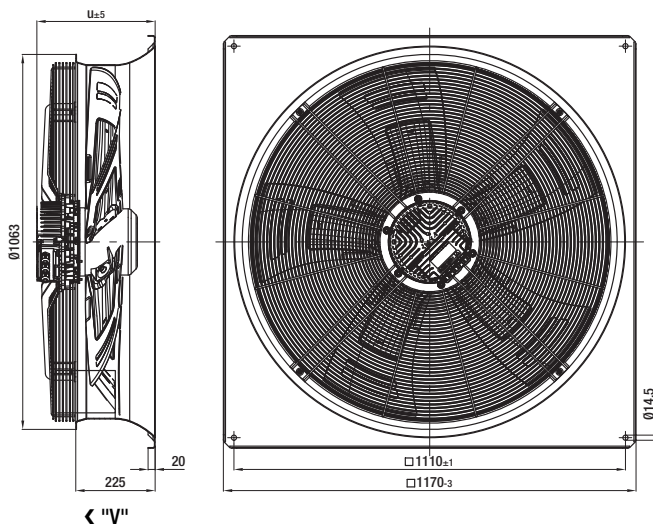


## Without attachments



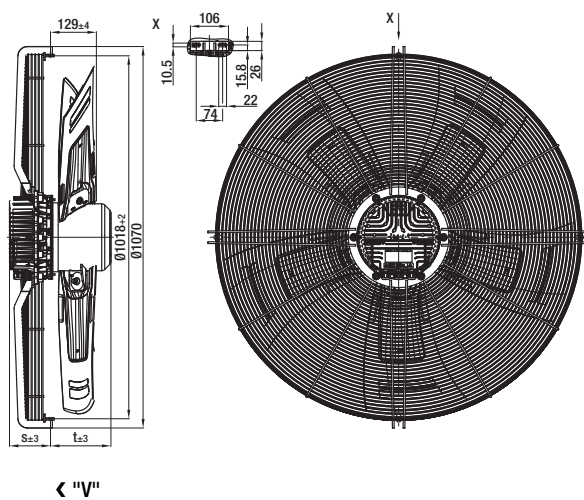
Type	Mass		h
	[kg]	g	
A3G 990-AW22 -01	22,7	238,0	57,5
A3G 990-AY28 -01	25,7	238,0	57,5
A3G 990-AZ02 -01	31,2	289,5	70,0

## With full square nozzle



Type	Mass	
	[kg]	u
W3G 990-GW22 -01	52,9	323,5
W3G 990-GY28 -01	55,9	323,5
W3G 990-GZ02 -01	61,4	336,0

## With guard grille for full nozzle



Type	Mass [kg]		
		s	t
S3G 990-BW22 -01	32,7	103,5	134,5
S3G 990-BY28 -01	35,7	103,5	134,5
S3G 990-BZ02 -01	41,2	116,0	173,5





# EC axial fans - HyBlade®

Ø 500 to 910, optional terminal box design with EC motor in size 084 and 112



< "V"



< "V"

Standard type	Page	Motor	Blade angle	Curve	Type with terminal box	Drawing no.	Electrical connections
A3G 500-AF48 -51	4	M3G 084-DF	0°	(A)	A3G 500-AF48 -58	1.)	p. 40 / K4)
A3G 500-AD01 -51	4	M3G 084-GF	0°	(B)	A3G 500-AD01 -58	1.)	p. 40 / K4)
A3G 500-AM56-21	4	M3G 112-EA	0°	(C)	A3G 500-AM56-23	3.)	p. 41 / L1)
A3G 500-AN33 -01	4	M3G 112-GA	0°	(D)	A3G 500-AN33 -03	3.)	p. 41 / L2)
A3G 560-AP68 -21	8	M3G 112-EA	-5°	(A)	A3G 560-AP68 -23	2.)	p. 40 / K4)
A3G 560-AQ41 -01	8	M3G 112-GA	-5°	(B)	A3G 560-AQ41 -03	3.)	p. 41 / L2)
A3G 630-AC52 -51	12	M3G 084-FA	0°	(A)	A3G 630-AC52 -58	1.)	p. 40 / K4)
A3G 630-AD03 -A1	12	M3G 084-GF	0°	(B)	A3G 630-AD03 -A8	1.)	p. 40 / K4)
A3G 630-AP70 -21	12	M3G 112-EA	-5°	(C)	A3G 630-AP70 -23	2.)	p. 40 / K4)
A3G 630-AQ37 -21	12	M3G 112-GA	-5°	(D)	A3G 630-AQ37 -23	3.)	p. 41 / L1)
A3G 630-AR85 -01	12	M3G 112-IA	-5°	(E)	A3G 630-AR85 -03	3.)	p. 41 / L2)
A3G 710-AN48 -21	18	M3G 112-GA	0°	(A)	A3G 710-AN48 -23	2.)	p. 40 / K4)
A3G 710-A085 -21	18	M3G 112-IA	0°	(B)	A3G 710-A085 -23	3.)	p. 41 / L1)
A3G 710-A081 -01	18	M3G 112-IA	0°	(C)	A3G 710-A081 -03	3.)	p. 41 / L2)
A3G 800-AM67-21	22	M3G 112-EA	0°	(A)	A3G 800-AM67-23	2.)	p. 40 / K4)
A3G 800-AN36 -21	22	M3G 112-GA	0°	(B)	A3G 800-AN36 -23	2.)	p. 40 / K4)
A3G 800-A081 -21	22	M3G 112-IA	0°	(C)	A3G 800-A081 -23	3.)	p. 41 / L1)
A3G 800-A084 -01	22	M3G 112-IA	0°	(D)	A3G 800-A084 -03	3.)	p. 41 / L2)
A3G 910-AN46 -21	26	M3G 112-GA	0°	(A)	A3G 910-AN46 -23	2.)	p. 40 / K4)
A3G 910-A084 -21	26	M3G 112-IA	0°	(B)	A3G 910-A084 -23	3.)	p. 41 / L1)
A3G 910-A083 -01	26	M3G 112-IA	0°	(C)	A3G 910-A083 -03	3.)	p. 41 / L2)

subject to alterations

# Drawings for direction of air flow "V"

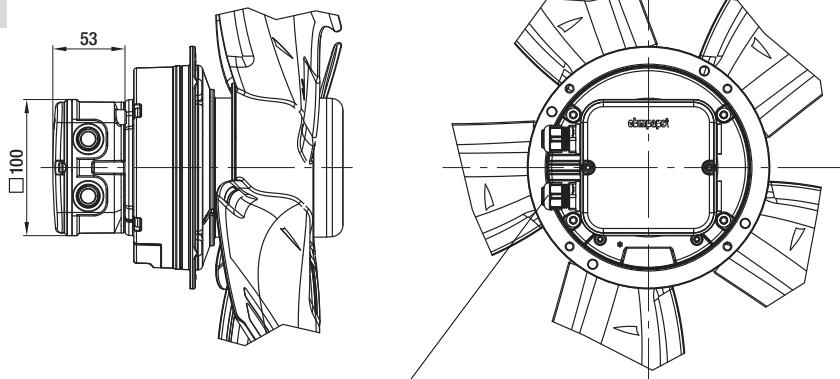
Ø 500 to 910, optional terminal box design with EC motor in size 084 and 112



## 1.) Motor size 084, mounted terminal box

### Type

- A3G 500-AF48 -58
- A3G 500-AD01 -58
- A3G 630-AC52 -58
- A3G 630-AD03 -A8



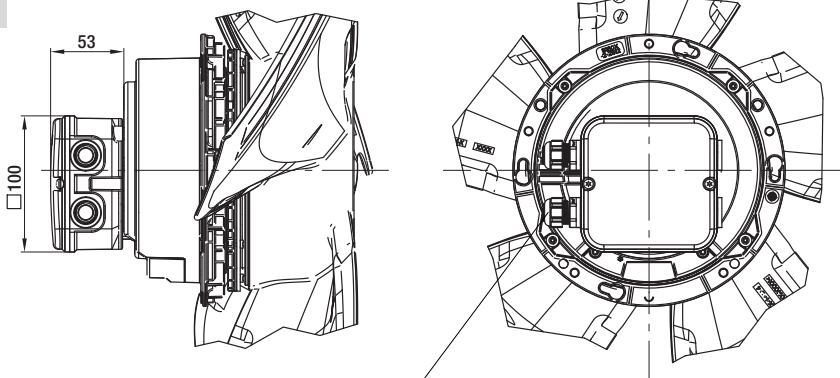
4 x screwed M16 cable gland possible  
for cables from Ø 4 to Ø 10



## 2.) Motor size 112, mounted terminal box

### Type

- A3G 560-AP68 -23
- A3G 630-AP70 -23
- A3G 710-AN48 -23
- A3G 800-AM67 -23
- A3G 800-AN36 -23
- A3G 910-AN46 -23



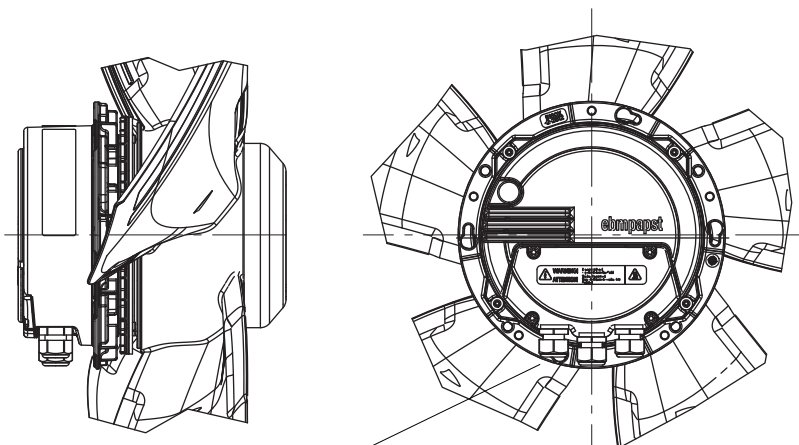
4 x screwed M16 cable gland possible  
for cables from Ø 4 to Ø 10



## 3.) Motor size 112, integrated terminal box

### Type

- A3G 500-AM56 -23
- A3G 500-AN33 -03
- A3G 560-AQ41 -03
- A3G 630-AQ37 -23
- A3G 630-AR85 -03
- A3G 710-AO85 -23
- A3G 710-AO81 -03
- A3G 800-AO81 -23
- A3G 800-AO84 -03
- A3G 910-AO84 -23
- A3G 910-AO83 -03



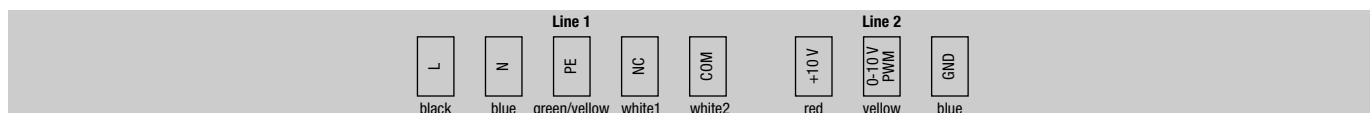
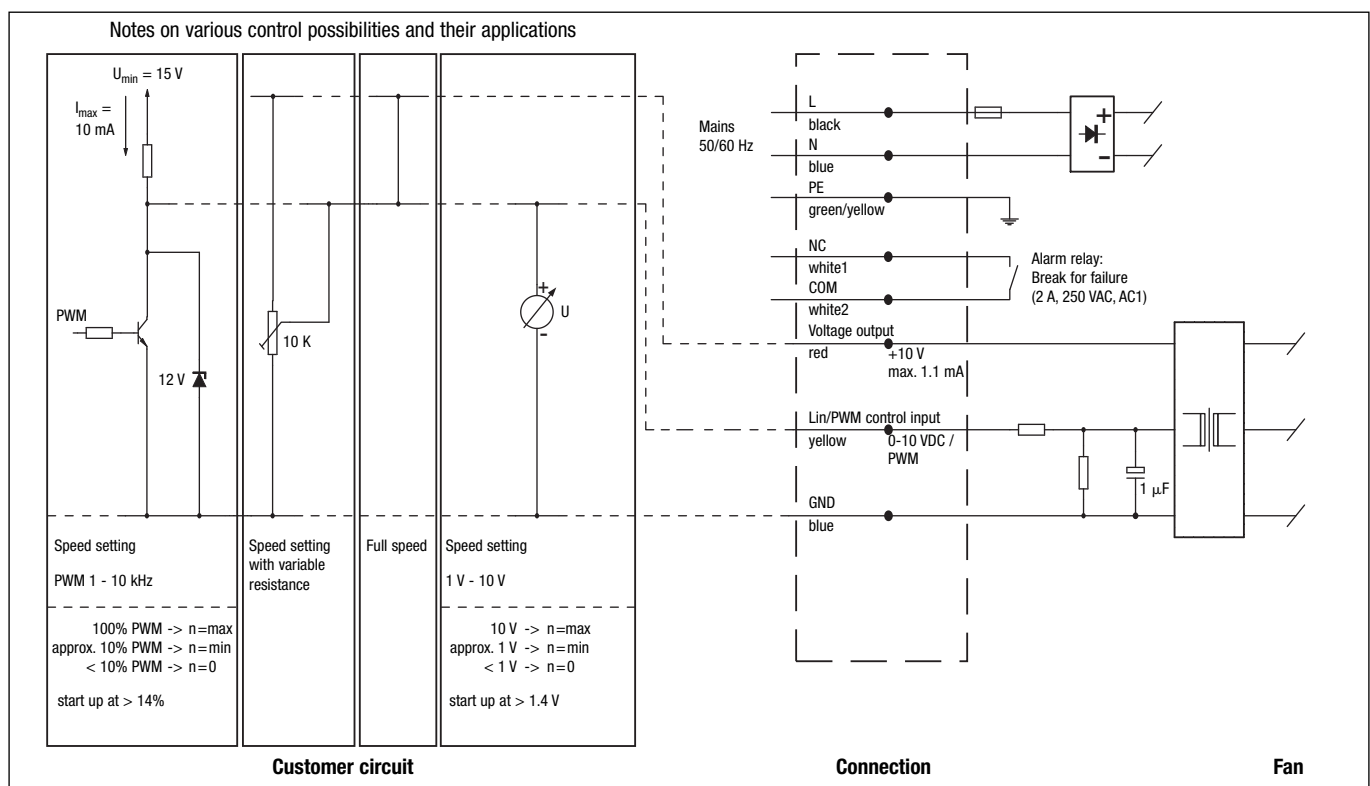
Cable gland

# Electrical connections EC

K1)

## Technical features:

- Control input 0-10 VDC / PWM
- Output 10 VDC max. 1.1 mA
- Alarm relay
- Electronics / motor overtemperature protection
- Line undervoltage detection
- Motor current limitation
- Locked-rotor protection
- Soft start



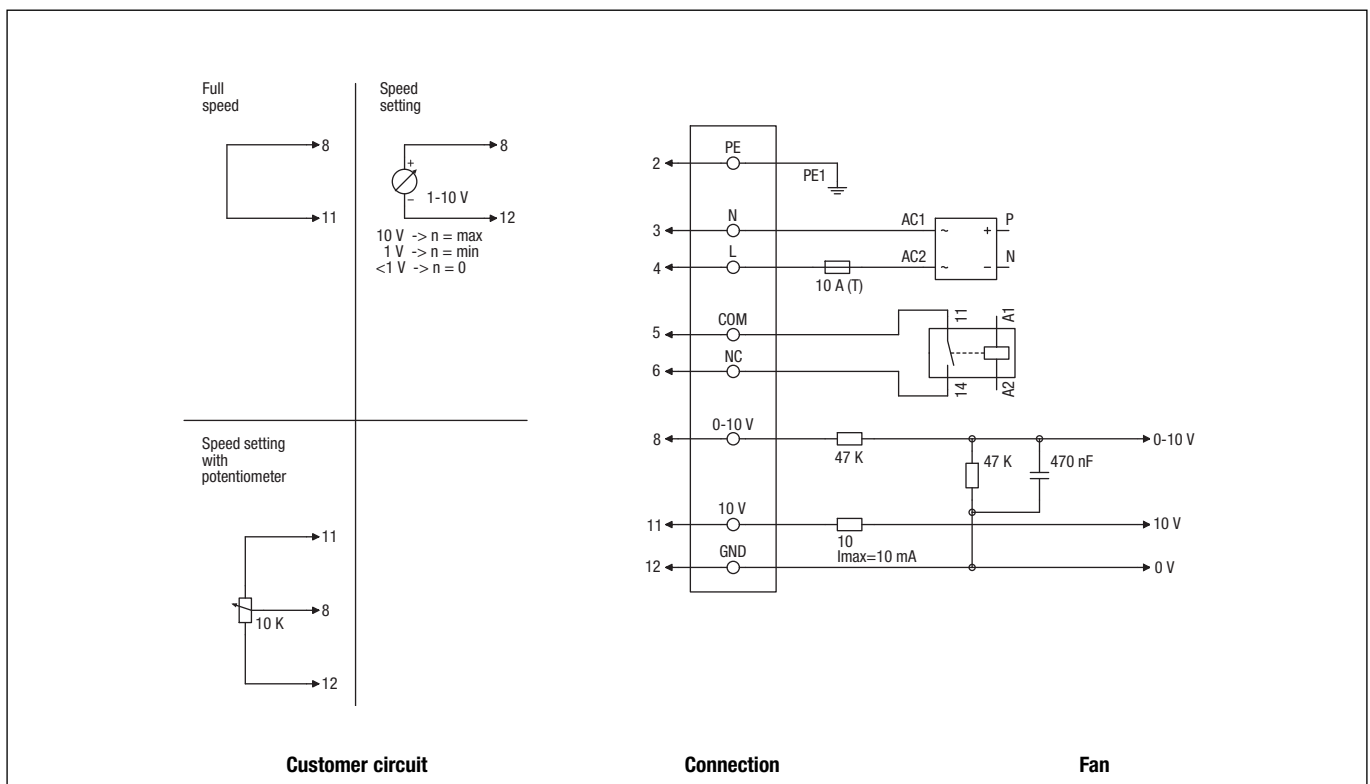
Line	Connection	Colour	Assignment / function	Line	Connection	Colour	Assignment / function
1	L	black	Mains 50/60 Hz, phase	2	+10 V	red	Voltage output +10 V max. 1.1 mA
	N	blue	Mains 50/60 Hz, neutral		0-10 V / PWM	yellow	Control input (Impedance 100 kΩ)
	PE	green/yel	Protective earth		GND	blue	GND
	NC	white1	Alarm relay, break for failure				
	COM	white2	Alarm relay, COMMON				

# Electrical connections EC

L3)

## Technical features:

- PFC (active)
- Control input 0-10 VDC / PWM
- Output 10 VDC max. 10 mA
- Alarm relay
- Electronics / motor overtemperature protection
- Line undervoltage detection
- Motor current limitation
- Locked-rotor protection, soft start



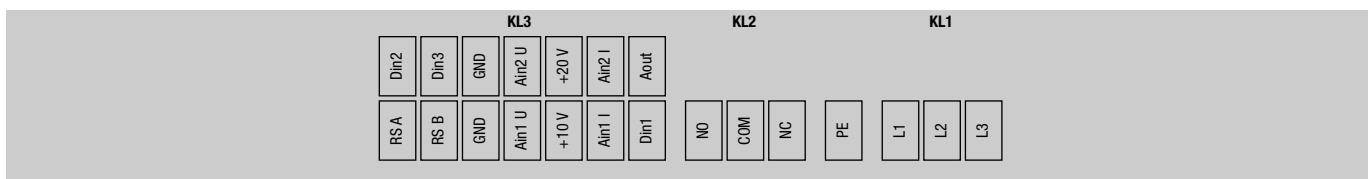
Line	Pin	Connection	Colour	Assignment / function
1	2	PE	green/yellow	Protective earth
1	3	N	blue	Mains 50/60 Hz, neutral
1	4	L	black	Mains 50/60 Hz, phase
1	5	COM	white1	Alarm relay, COMMON (2A, max. 250 VAC, min. 10 mA, AC1)
1	6	NC	white2	Alarm relay, break for failure
2	8	0-10 V	yellow	Control input (Impedance 100 kΩ), SELV
2	11	+10 V	red	Voltage output 10 VDC (+/- 3%), max. 10 mA, supply voltage for external units (e.g. potentiometer), SELV
2	12	GND	blue	GND, SELV

# Electrical connections EC

L5)

## Technical features:

- PFC (passive)
- Integrated PID controller
- Control input 0-10 VDC or 4-20 mA
- Input for sensor 0-10 V or 4-20 mA
- Slave output 0-10 V max. 5 mA
- Output 20 VDC ( $\pm 25\%$  /  $-10\%$ ) max. 50 mA
- Output 10 VDC ( $+3\%$ ) max. 10 mA
- RS485 MODBUS
- Motor current limitation, alarm relay
- Line undervoltage / phase failure detection
- Electronics / motor overtemperature protection
- Locked-rotor protection, soft start
- Digital inputs for day/night switch, enabling, cooling / heating



Connector	Connection	Assignment / function
KL1	L3	Mains; L3
	L2	Mains; L2
	L1	Mains; L1
PE	PE	Protective earth
KL2	NC	Alarm relay, break for failure
	COM	Alarm relay, COMMON (2A, 250 VAC, AC1)
	NO	Alarm relay, make for failure

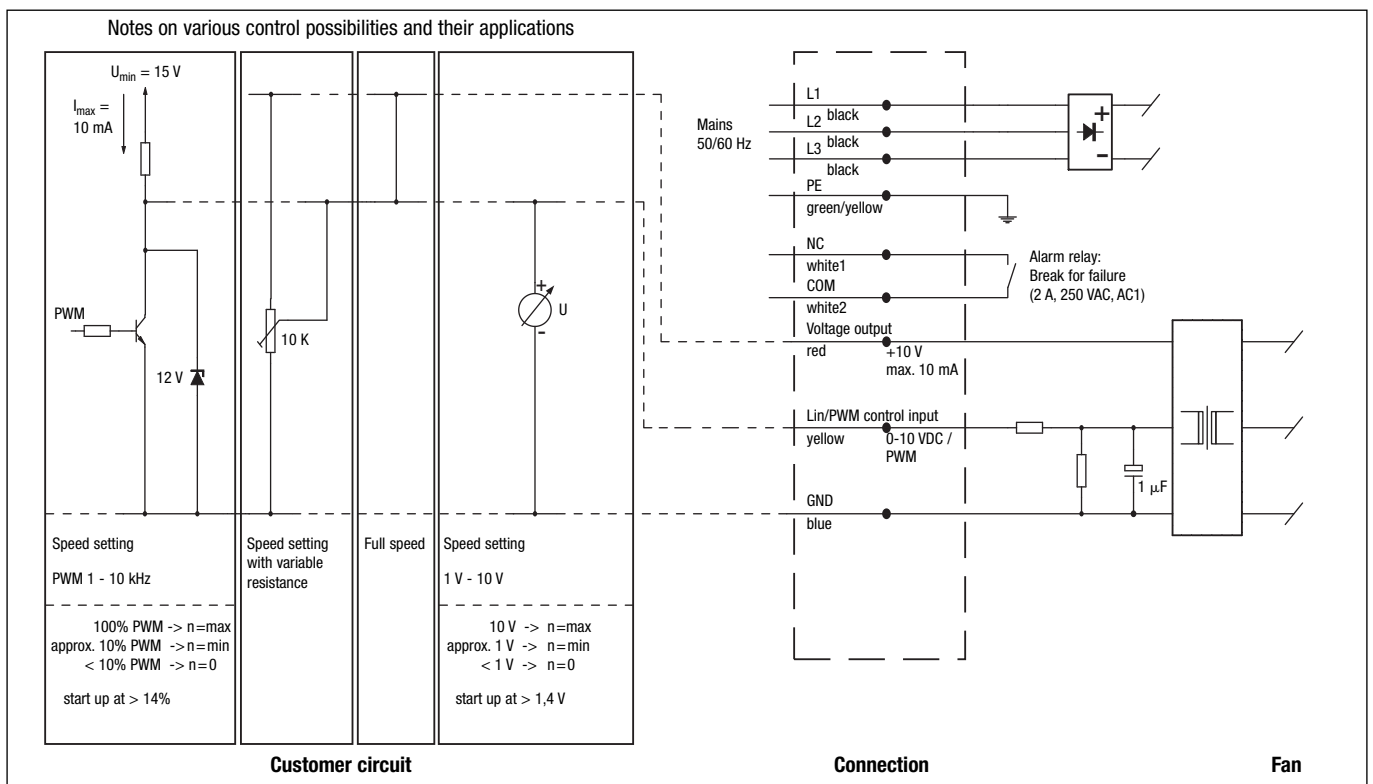
Connector	Connection	Assignment / function
KL3	Din1	Digital input 1 (enabling / disabling of electronics),, Enabling: Pin open or applied voltage 5...50 VDC Disabling: Bridge to GND or applied voltage $< 1$ VDC
	Ain1 I	Analogue set value input, 4-20 mA (impedance 100 $\Omega$ ), only to be used as alternative to terminal Ain1 U
	+10 V	Supply for external potentiometer, 10 VDC ( $\pm 3\%$ ) max. 10 mA
	Ain1U	Analogue set value input, 0-10 V (impedance 100 k $\Omega$ ), only to be used as alternative to terminal Ain1 I
	GND	GND
	RSB	RS485 interface for MODBUS RTU; RS B
	RSA	RS485 interface for MODBUS RTU; RS A
	Aout	Analogue output 0-10 V max. 5 mA, reading of current motor speed / current motor control factor
	Ain2 I	Analog. actual value input, 4-20mA (impedance 100 $\Omega$ ), only to be used as alternative to terminal Ain2 U
	+20 V	Supply for external sensor, 20 VDC ( $+25\%$ / $-10\%$ ) max. 40 mA
	Ain2 U	Analog. actual value input, 0-10 V (impedance 100 k $\Omega$ ), only to be used as alternative to terminal Ain2 I
	GND	GND
	Din3	Digital input 3 (switch Normal / Inverse), The preset effective direction of the integrated controller can be selected via BUS or via digital input Normal/Inverse. Normal: Pin open or applied voltage 5...50 VDC Inverse: Bridge to GND or applied voltage $< 1$ VDC
	Din2	Digital input 2 (switch Day / Night), The preset set of parameters can be selected via BUS or via digital input Day/Night. Day: Pin open or applied voltage 5...50 VDC Night: Bridge to GND or applied voltage $< 1$ VDC

# Electrical connections EC

K3)

## Technical features:

- PFC (passive)
- Control input 0-10 VDC / PWM
- Output 10 VDC ( $\pm 20\%$ ) max. 10 mA
- Alarm relay
- Electronics / motor overtemperature protection
- Line undervoltage / phase failure detection
- Motor current limitation
- Locked-rotor protection, soft start



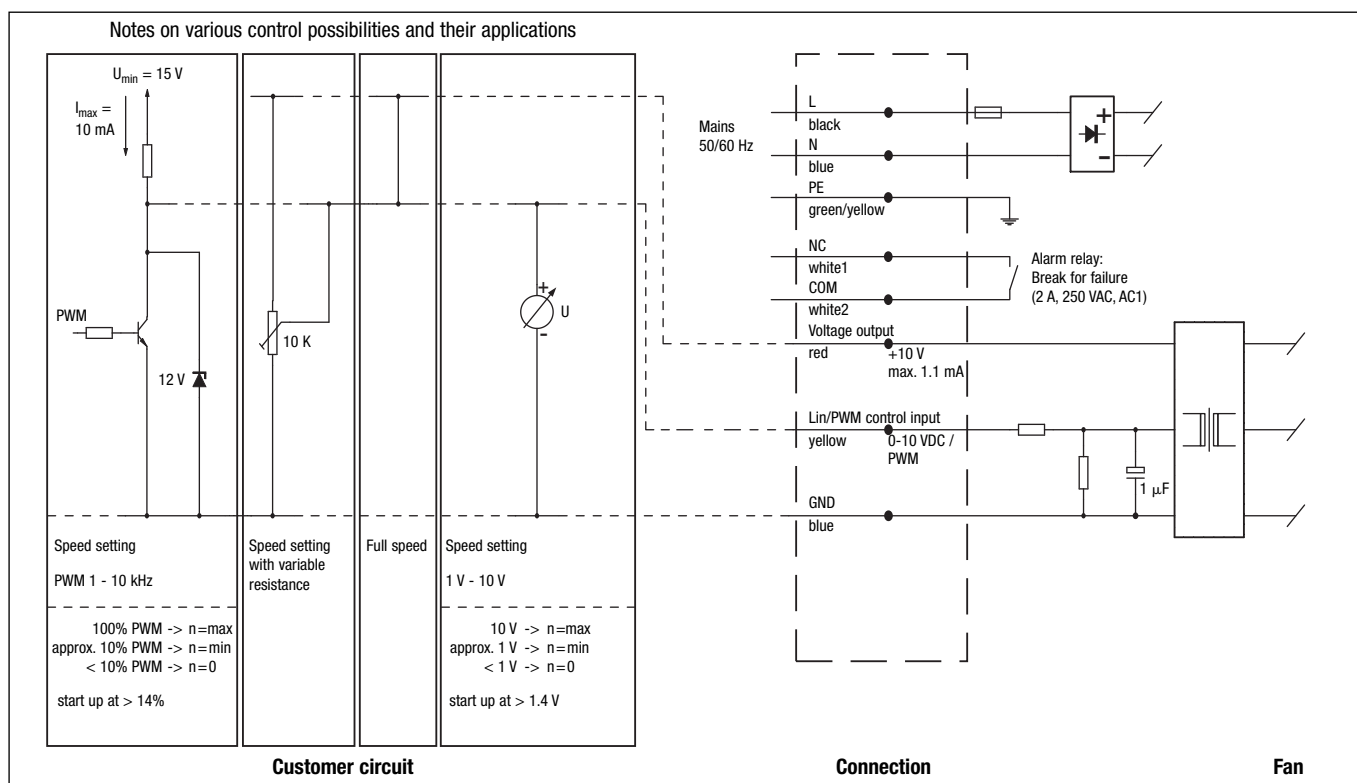
Line	Connection	Colour	Assignment / function	Line	Connection	Colour	Assignment / function
1	L1	black	Mains; L1	2	+10 V	red	Voltage output +10 V max. 1.1 mA
	L2	black	Mains; L2		0-10 V / PWM	yellow	Control input (Impedance 100 k $\Omega$ )
	L3	black	Mains; L3		GND	blue	GND
	PE	green/yel	Protective earth				
	NC	white1	Alarm relay, break for failure				
	COM	white2	Alarm relay, COMMON				

# Electrical connections EC

K4)

## Technical features:

- Control input 0-10 VDC / PWM
- Output 10 VDC max. 1.1 mA
- Alarm relay
- Electronics / motor overtemperature protection
- Line undervoltage detection
- Motor current limitation
- Locked-rotor protection
- Soft start



KL 1



Connector	Connection	Assignment / function	Connector	Connection	Assignment / function
KL1	PE	Protective earth	KL1	COM	Alarm relay, COMMON
	N	Mains 50/60 Hz, neutral		GND	GND
	L	Mains 50/60 Hz, phase		0-10 V / PWM	Control input (Impedance 100 kΩ)
	NC	Alarm relay, break for failure		+10 V	Voltage output +10 V max. 1.1 mA



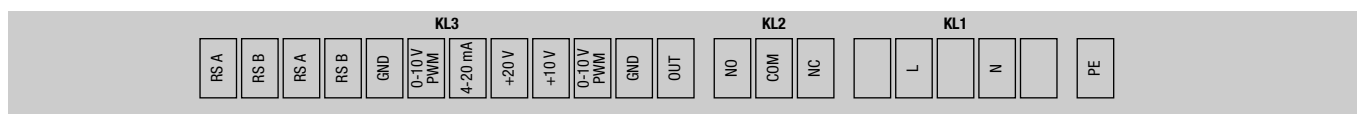
# Electrical connections EC

L1) and L2)

## Technical features:

- L1 = PFC (active) / L2 = PFC (passive)
- Integrated PID controller
- Control input 0-10 VDC / PWM
- Input for sensor 0-10 V or 4-20 mA
- Slave output 0-10 V max. 3 mA
- Output 20 VDC ( $\pm 20\%$ ) max. 50 mA
- Output 10 VDC ( $+10\%$ ) max. 10 mA
- RS485 ebmBUS
- Alarm relay
- Line undervoltage detection
- only L2 = Phase failure detection
- Motor current limitation
- Electronics / motor overtemperature protection
- Locked-rotor protection
- Soft start

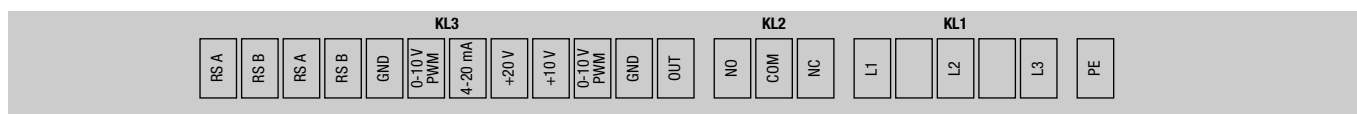
L1)



Connector	Connection	Assignment / function
PE	PE	Protective earth
KL1	N	Mains 50/60 Hz, neutral
	L	Mains 50/60 Hz, phase
KL2	NC	Alarm relay, break for failure
	COM	Alarm relay, COMMON (2A, 250 VAC, AC1)
	NO	Alarm relay, make for failure





Connector	Connection	Assignment / function
KL3	OUT	Master output 0-10 V max. 3 mA
	GND	GND
	0-10 V / PWM	Control / Actual value input (Impedance 100 k $\Omega$ )
	+10 V	Supply for external potentiometer, 10 VDC ( $+10\%$ ) max. 10 mA
	+20 V	Supply for external sensor, 20 VDC ( $\pm 20\%$ ) max. 50 mA
	4-20 mA	Control / Actual value input
	0-10 V / PWM	Control / Actual value input
	GND	GND
	RSB	RS485 interface for ebmBUS; RS B
	RSA	RS485 interface for ebmBUS; RS A
	RSB	RS485 interface for ebmBUS; RS B
RSA	RS485 interface for ebmBUS; RS A	

L2)



Connector	Connection	Assignment / function
PE	PE	Protective earth
KL1	L3	Mains; L3
	L2	Mains; L2
	L1	Mains; L1
KL2	NC	Alarm relay, break for failure
	COM	Alarm relay, COMMON (2A, 250 VAC, AC1)
	NO	Alarm relay, make for failure

Connector	Connection	Assignment / function
KL3	OUT	Master output 0-10 V max. 3 mA
	GND	GND
	0-10 V / PWM	Control / Actual value input (Impedance 100 k $\Omega$ )
	+10 V	Supply for external potentiometer, 10 VDC ( $+10\%$ ) max. 10 mA
	+20 V	Supply for external sensor, 20 VDC ( $\pm 20\%$ ) max. 50 mA
	4-20 mA	Control / Actual value input
	0-10 V / PWM	Control / Actual value input
	GND	GND
	RSB	RS485 interface for ebmBUS; RS B
	RSA	RS485 interface for ebmBUS; RS A
	RSB	RS485 interface for ebmBUS; RS B
RSA	RS485 interface for ebmBUS; RS A	

-  fan agent
-  compact fan agent
-  motor specialist
-  motor agent

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

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

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