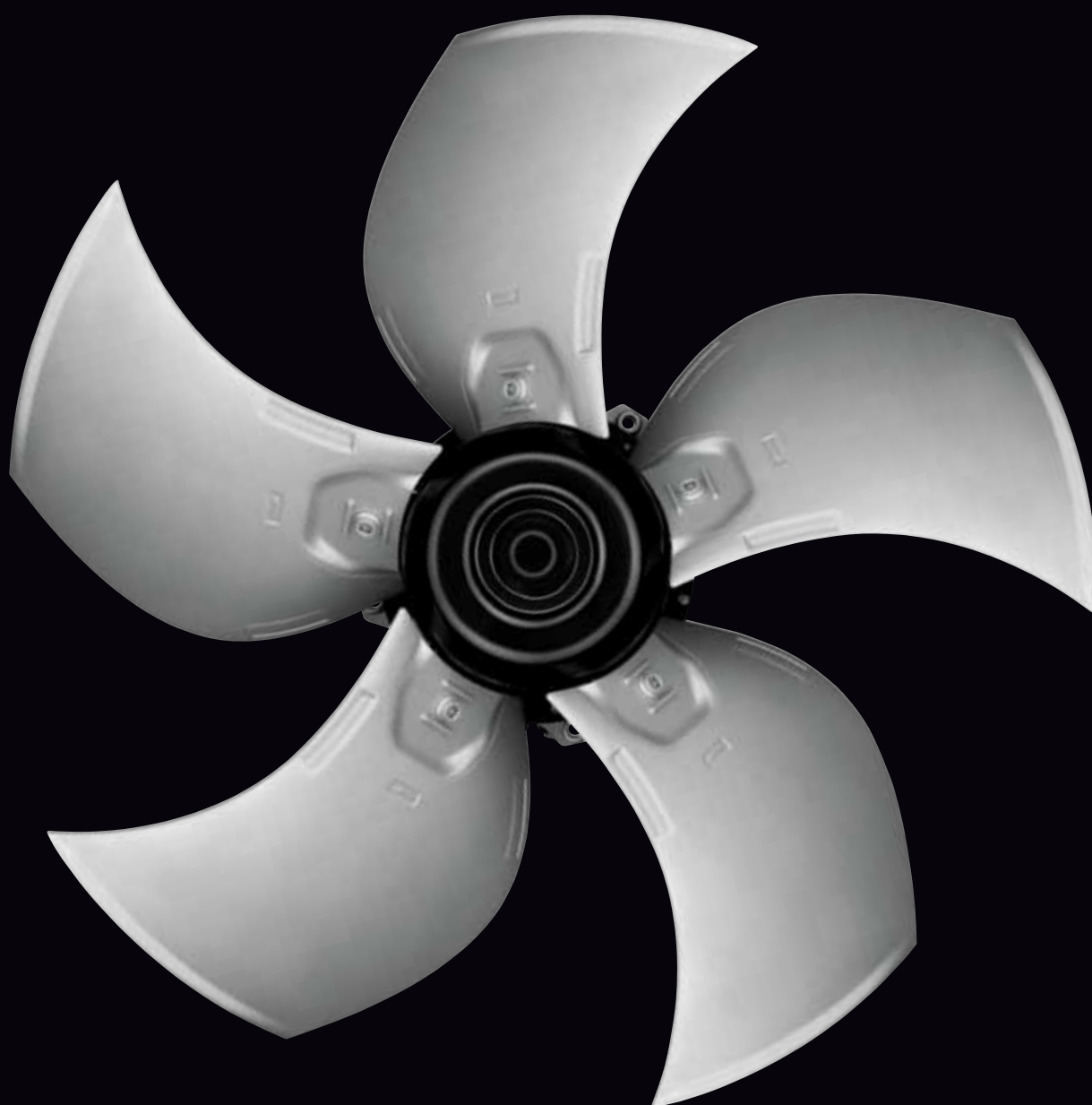


EC axial fans S series

EC axial fans, S series, 24 / 48 VDC	Ø 200 - Ø 300	186
EC axial fans, S series, mains-powered	Ø 250 - Ø 990	198



EC axial fans 24/48 VDC

S series, Ø 200

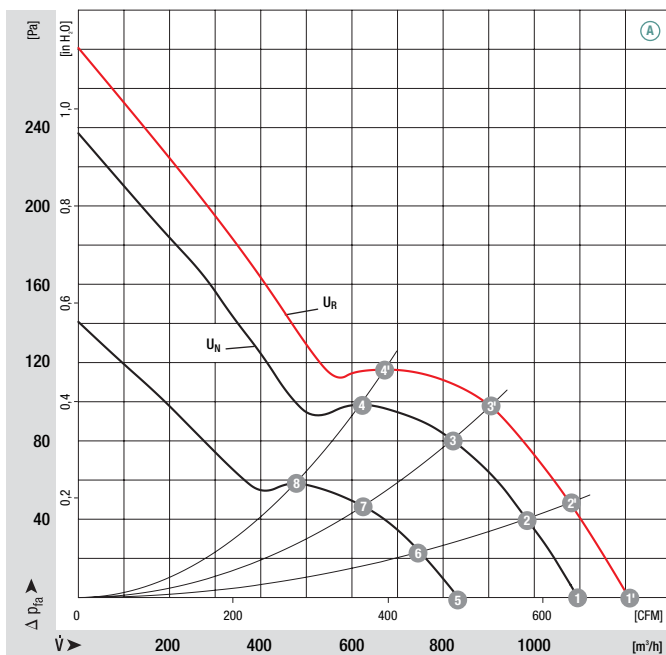


- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Sheet steel, coated in black
Rotor: Coated in black
- **Number of blades:** 9
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Max. operative range	Perm. amb. temp.	Mass without attachments	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	Pa	°C	kg	p. 420
*1G 200	M1G 074-BF	(A)	24	16-28	1090	2950	55	2.60	60	—	-25 to +60	1.5	G)
*1G 200	M1G 074-BF	(A)	48	36-57	1005	2750	45	1.10	60	—	-25 to +60	1.5	G)

subject to alterations

Curves (established at 24 VDC)



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
(A) 1'	2300	73	63	—
(A) 2'	2970	77	62	67
(A) 3'	3100	80	63	64
(A) 4'	2970	80	66	54
(A) 1	2950	55	60	—
(A) 2	2890	58	60	67
(A) 3	2800	61	61	64
(A) 4	2780	63	64	54
(A) 5	2270	27	55	—
(A) 6	2230	28	54	67
(A) 7	2170	29	54	64
(A) 8	2130	30	57	54

- **Technical features:**
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA
- Tach output
- Polarity and locked rotor protection

Direction of air flow																
	< "V" / "A" >				< "V" / "A" >				< "V" / "A" >				< "V" / "A" >			
	Without attachments				With full round nozzle ⁽¹⁾				With guard grille for full nozzle				With guard grille for short nozzle			
"V"	A1G 200-AH77 -52				W1G 200-CH77 -52				S1G 200-BH77 -52				S1G 200-AH77 -52			
"A"	A1G 200-AI77 -52				W1G 200-CI77 -52				S1G 200-BI77 -52				S1G 200-AI77 -52			
"V"	A1G 200-AH01 -52				W1G 200-CH01 -52				S1G 200-BH01 -52				S1G 200-AH01 -52			
"A"	A1G 200-AI01 -52				W1G 200-CI01 -52				S1G 200-BI01 -52				S1G 200-AI01 -52			

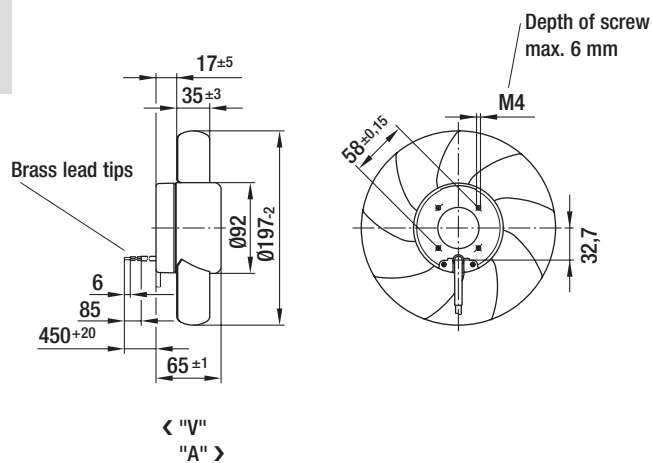
(1) Increased noise levels in "V" direction of air flow

EC axial fans 24/48 VDC

S series, Ø 200, drawings of directions of air flow "V" and "A"



Without attachments

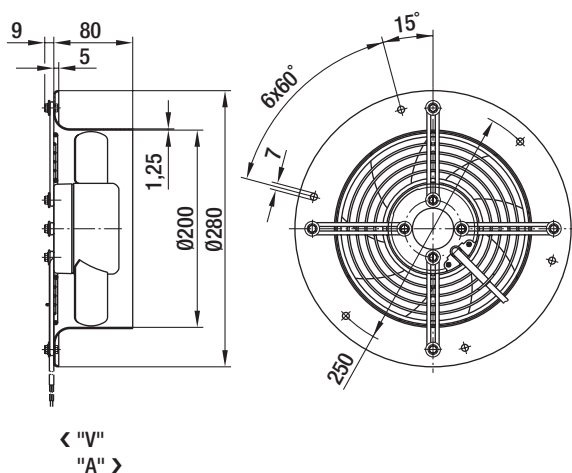


Type

A1G 200-AH77 -52	"V"
A1G 200-AI77 -52	"A"
A1G 200-AH01 -52	"V"
A1G 200-AI01 -52	"A"



With full round nozzle

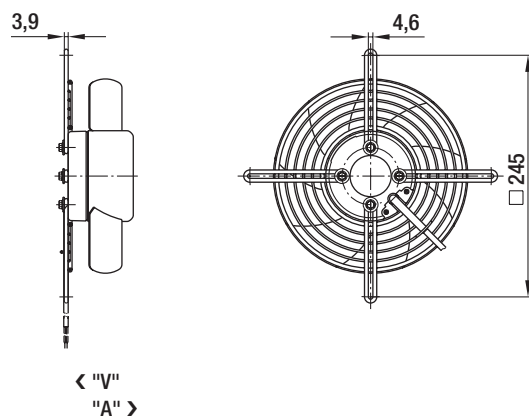


Type

W1G 200-CH77 -52	"V"
W1G 200-CI77 -52	"A"
W1G 200-CH01 -52	"V"
W1G 200-CI01 -52	"A"



With guard grille for full nozzle

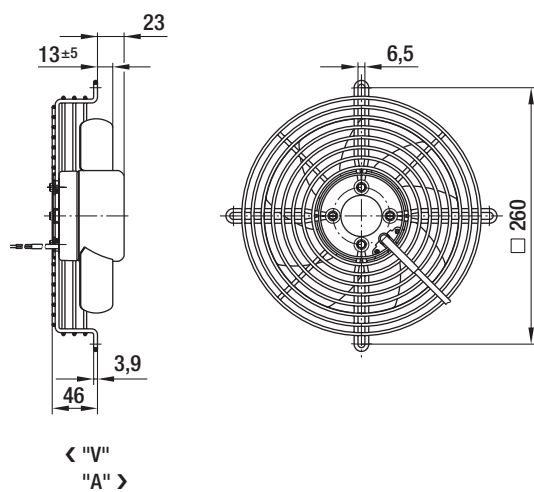


Type

S1G 200-BH77 -52	"V"
S1G 200-BI77 -52	"A"
S1G 200-BH01 -52	"V"
S1G 200-BI01 -52	"A"



With guard grille for short nozzle

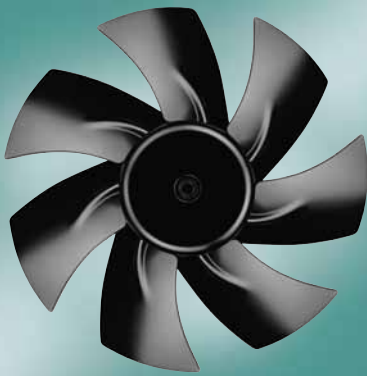


Type

S1G 200-AH77 -52	"V"
S1G 200-AI77 -52	"A"
S1G 200-AH01 -52	"V"
S1G 200-AI01 -52	"A"

EC axial fans 24/48 VDC

S series, Ø 250

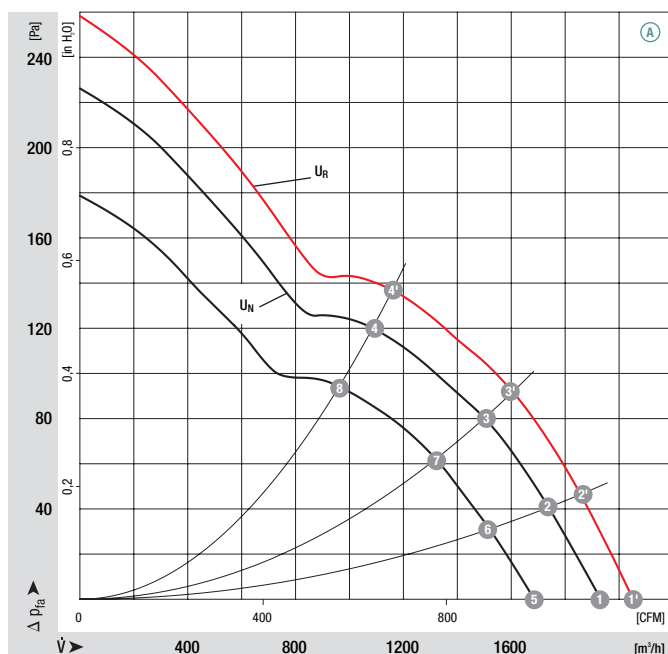


- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Sheet steel, coated in black
Rotor: Coated in black
- **Number of blades:** 7 for direction of air flow "V", 9 for direction of air flow "A"
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Max. operative range	Perm. amb. temp.	Mass without attachments	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	Pa	°C	kg	p. 420
*1G 250	M1G 074-BF	(A)	24	16-28	1920	2750	105	5.00	70	—	-25 to +60	1.6	G)
*1G 250	M1G 074-BF	(A)	48	36-57	1920	2750	105	2.60	70	—	-25 to +60	1.6	G)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
(A) 1'	2920	129	71	—
(A) 2'	2800	132	72	63
(A) 3'	2680	135	71	60
(A) 4'	2600	139	73	45
(A) 1	2750	105	70	—
(A) 2	2630	110	69	63
(A) 3	2520	111	69	60
(A) 4	2440	114	71	45
(A) 5	2610	73	66	—
(A) 6	2320	75	67	63
(A) 7	2230	78	67	60
(A) 8	2170	80	68	45

- **Technical features:**
 - Control input 0-10 VDC / PWM
 - Tach output
- **EMC:** Interference emission acc. to EN 61000-6-3
 - Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA
- Polarity and locked rotor protection

Direction of air flow																
	< "V" / "A" >				< "V" / "A" >				< "V" / "A" >				< "V" / "A" >			
	Without attachments				With full round nozzle ⁽¹⁾				With guard grille for full nozzle				With guard grille for short nozzle			
"V"	A1G 250-AH37 -52	W1G 250-CH37 -52	S1G 250-BH37 -52	S1G 250-AH37 -52	A1G 250-AI37 -52	W1G 250-CI37 -52	S1G 250-BI37 -52	S1G 250-AI37 -52	A1G 250-AH67 -52	W1G 250-CH67 -52	S1G 250-BH67 -52	S1G 250-AH67 -52	A1G 250-AI67 -52	W1G 250-CI67 -52	S1G 250-BI67 -52	S1G 250-AI67 -52
"A"	A1G 250-AI37 -52	W1G 250-CI37 -52	S1G 250-BI37 -52	S1G 250-AI37 -52	A1G 250-AH67 -52	W1G 250-CH67 -52	S1G 250-BH67 -52	S1G 250-AH67 -52	A1G 250-AI67 -52	W1G 250-CI67 -52	S1G 250-BI67 -52	S1G 250-AI67 -52	A1G 250-AH37 -52	W1G 250-CH37 -52	S1G 250-BH37 -52	S1G 250-AH37 -52

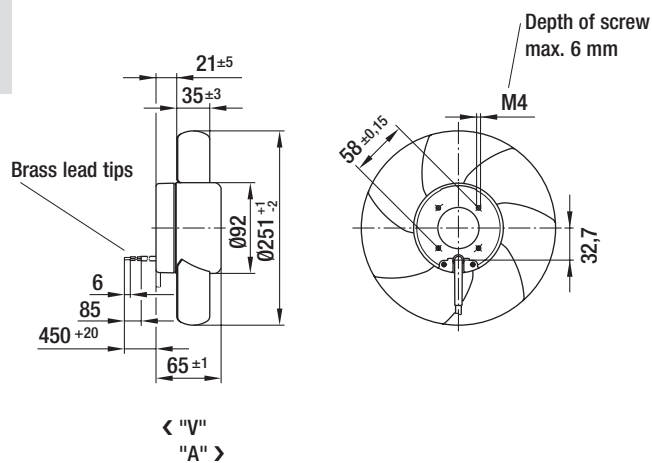
(1) Increased noise levels in "V" direction of air flow

EC axial fans 24/48 VDC

S series, Ø 250, drawings of directions of air flow "V" and "A"



Without attachments

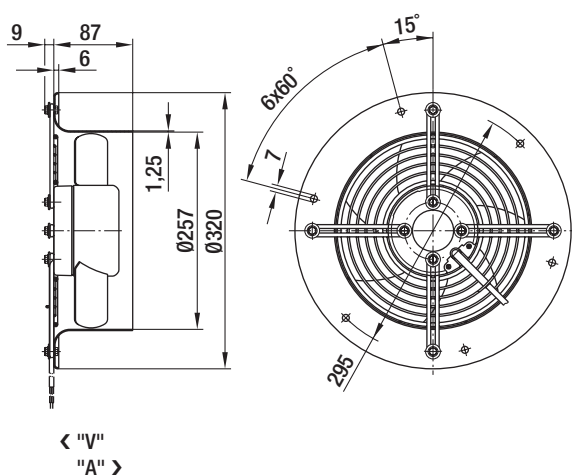


Type

A1G 250-AH37 -52	"V"
A1G 250-AI37 -52	"A"
A1G 250-AH67 -52	"V"
A1G 250-AI67 -52	"A"



With full round nozzle

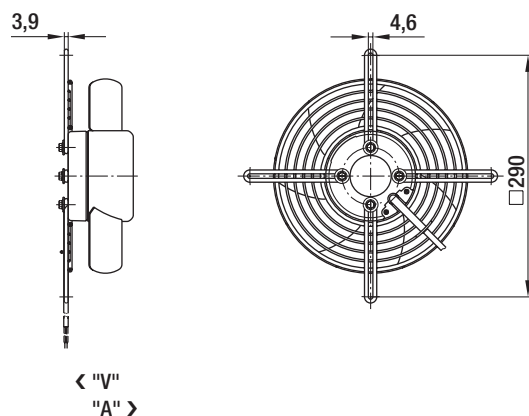


Type

W1G 250-CH37 -52	"V"
W1G 250-CI37 -52	"A"
W1G 250-CH67 -52	"V"
W1G 250-CI67 -52	"A"



With guard grille for full nozzle

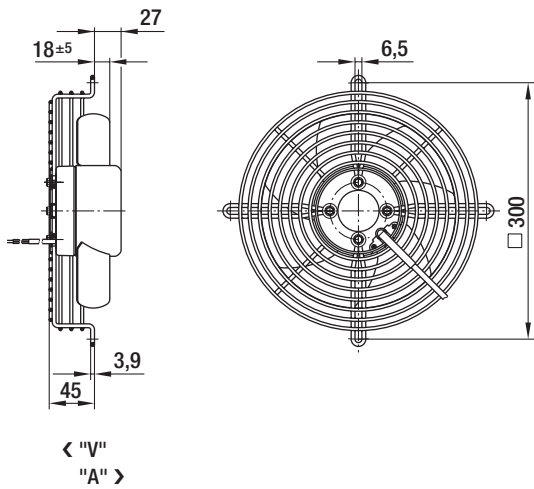


Type

S1G 250-BH37 -52	"V"
S1G 250-BI37 -52	"A"
S1G 250-BH67 -52	"V"
S1G 250-BI67 -52	"A"



With guard grille for short nozzle



Type

S1G 250-AH37 -52	"V"
S1G 250-AI37 -52	"A"
S1G 250-AH67 -52	"V"
S1G 250-AI67 -52	"A"

EC axial fans 24/48 VDC

S series, Ø 300

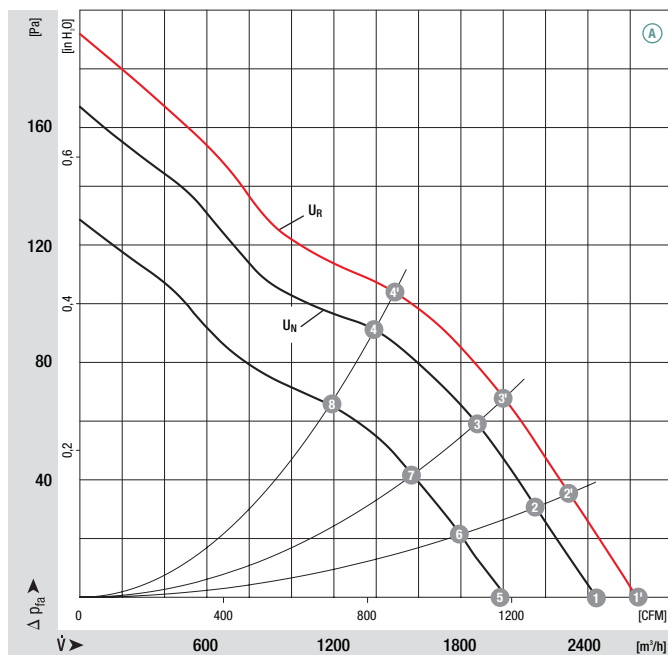


- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Sheet steel, coated in black
Rotor: Coated in black
- **Number of blades:** 7
- **Direction of rotation:** Direction of air flow "V" counter-clockwise, direction of air flow "A" clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Max. operative range	Perm. amb. temp.	Mass without attachments	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	Pa	°C	kg	p. 420
*1G 300	M1G 074-CF	(A)	24	16-28	2450	1800	90	4.00	65	—	-25 to +60	2.2	G)
*1G 300	M1G 074-CF	(A)	48	36-57	2450	1800	90	2.00	65	—	-25 to +60	2.2	G)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	Lp _A [dB(A)]	η_{HL} [%]
(A) 1'	1940	108	67	—
(A) 2'	1850	111	66	71
(A) 3'	1790	113	66	71
(A) 4'	1720	116	66	60
(A) 1	1800	90	65	—
(A) 2	1720	89	65	71
(A) 3	1670	91	65	71
(A) 4	1600	93	64	60
(A) 5	1480	49	61	—
(A) 6	1440	52	62	71
(A) 7	1400	55	61	71
(A) 8	1350	58	59	60

- **Technical features:**
 - Control input 0-10 VDC / PWM
 - Tach output
- **EMC:** Interference emission acc. to EN 61000-6-3
 - Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA
- Polarity and locked rotor protection

Direction of air flow	   			
	< "V"/"A" > Without attachments	< "V"/"A" > With full round nozzle	< "V"/"A" > With guard grille for full nozzle	< "V"/"A" > With guard grille for short nozzle
"V"	A1G 300-AE19 -54	W1G 300-CE19 -54	S1G 300-BE19 -54	S1G 300-AE19 -54
"A"	A1G 300-AE19 -52	W1G 300-CE19 -52	S1G 300-BE19 -52	S1G 300-AE19 -52
"V"	A1G 300-AE33 -54	W1G 300-CE33 -54	S1G 300-BE33 -54	S1G 300-AE33 -54
"A"	A1G 300-AE33 -52	W1G 300-CE33 -52	S1G 300-BE33 -52	S1G 300-AE33 -52

EC axial fans 24/48 VDC

S series, Ø 300, drawings of directions of air flow "V" and "A"

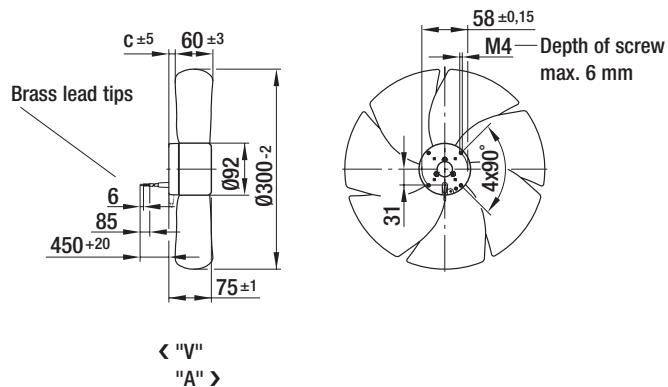


Without attachments

Type

c

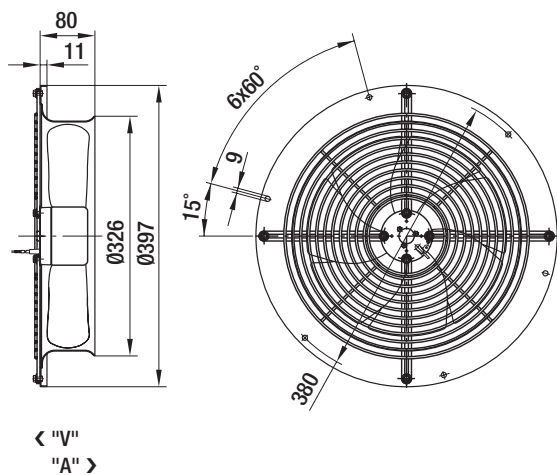
A1G 300-AE19 -54	"V"	19.7
A1G 300-AE19 -52	"A"	19.2
A1G 300-AE33 -54	"V"	19.7
A1G 300-AE33 -52	"A"	19.2



With full round nozzle

Type

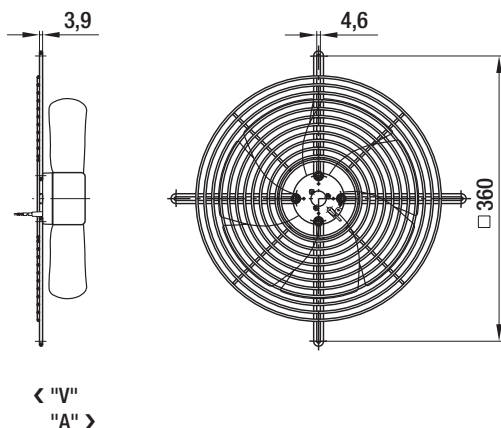
W1G 300-CE19 -54	"V"
W1G 300-CE19 -52	"A"
W1G 300-CE33 -54	"V"
W1G 300-CE33 -52	"A"



With guard grille for full nozzle

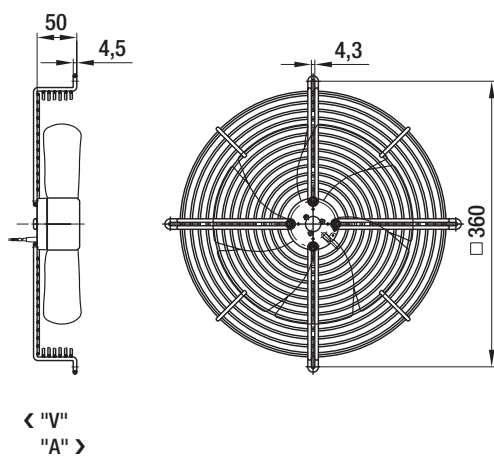
Type

S1G 300-BE19 -54	"V"
S1G 300-BE19 -52	"A"
S1G 300-BE33 -54	"V"
S1G 300-BE33 -52	"A"





With guard grille for short nozzle



Type

S1G 300-AE19 -54	"V"
S1G 300-AE19 -52	"A"
S1G 300-AE33 -54	"V"
S1G 300-AE33 -52	"A"

EC axial fans mains-powered

S series, Ø 250

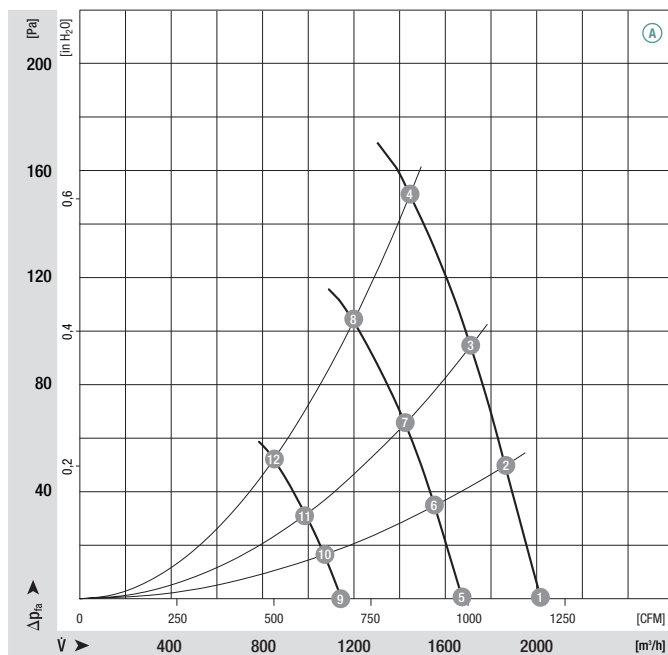


- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black
Blades: Sheet steel, coated in black
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 7 for direction of air flow "V", 9 for direction of air flow "A"
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Mass without attachments	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	Pa	°C	kg	p. 423
*3G 250	M3G 074-CF	Ⓐ	1~ 100-130	50/60	2850	170	2.20	170	-25 to +60	2.4	J1)
*3G 250	M3G 074-CF	Ⓑ	1~ 200-277	50/60	3050	175	1.40	210	-25 to +60	2.4	J1)

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

Curves



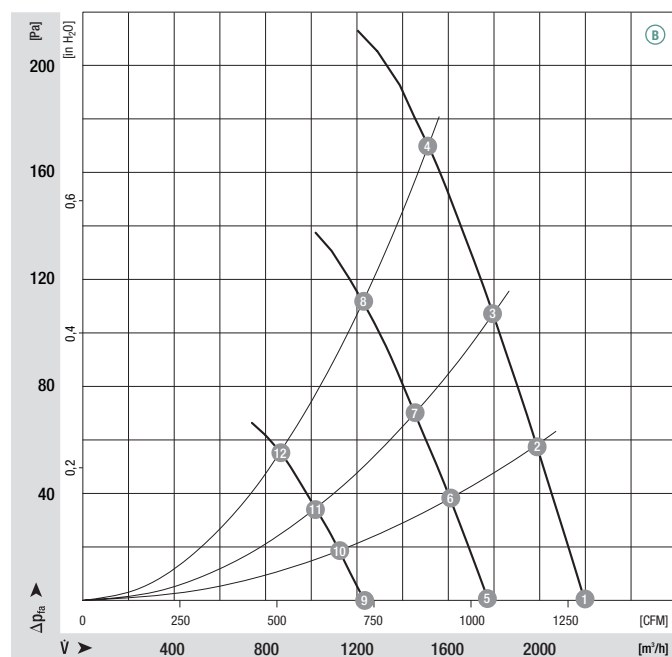
	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	2850	162	1.80	71	—
Ⓐ 2	2820	158	1.90	71	84
Ⓐ 3	2800	153	2.00	72	84
Ⓐ 4	2770	144	2.00	74	79
Ⓐ 5	2360	85	1.10	66	—
Ⓐ 6	2360	91	1.20	66	77
Ⓐ 7	2340	94	1.20	67	77
Ⓐ 8	2310	95	1.20	68	70
Ⓐ 9	1650	33	0.50	62	—
Ⓐ 10	1650	35	0.50	56	68
Ⓐ 11	1650	36	0.50	58	70
Ⓐ 12	1650	37	0.50	59	68

- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
 - Output 10 VDC max. 1.1 mA
 - Tach output
 - Over-temperature protected electronics / motor
- **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 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** VDE, UL, CSA, CCC, GOST are applied for

Direction of air flow	   			
	< "V"/"A" > Without attachments	< "V"/"A" > With full round nozzle ⁽²⁾	< "V"/"A" > With guard grille for full nozzle	< "V"/"A" > With guard grille for short nozzle
"V"	A3G 250-AC71 -01	W3G 250-CC71 -01	S3G 250-BC71 -01	S3G 250-AC71 -01
"A"	A3G 250-AD71 -01	W3G 250-CD71 -01	S3G 250-BD71 -01	S3G 250-AD71 -01
"V"	A3G 250-AC54 -01	W3G 250-CC54 -01	S3G 250-BC54 -01	S3G 250-AC54 -01
"A"	A3G 250-AD54 -01	W3G 250-CD54 -01	S3G 250-BD54 -01	S3G 250-AD54 -01

(2) Increased noise levels in "V" direction of air flow

Curves



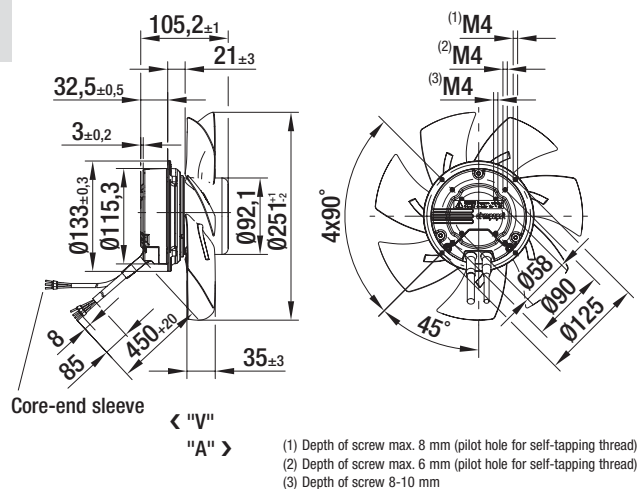
	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓑ 1	3050	170	1.30	72	—
Ⓑ 2	2970	169	1.30	73	89
Ⓑ 3	2900	169	1.30	74	88
Ⓑ 4	2820	168	1.30	75	86
Ⓑ 5	2500	96	0.70	68	—
Ⓑ 6	2410	94	0.70	68	86
Ⓑ 7	2360	94	0.70	69	86
Ⓑ 8	2300	94	0.70	69	81
Ⓑ 9	1740	37	0.30	57	—
Ⓑ 10	1700	37	0.30	56	75
Ⓑ 11	1660	37	0.30	58	75
Ⓑ 12	1610	37	0.30	59	72

EC axial fans mains-powered

S series, Ø 250, drawings of directions of air flow "V" and "A"



Without attachments

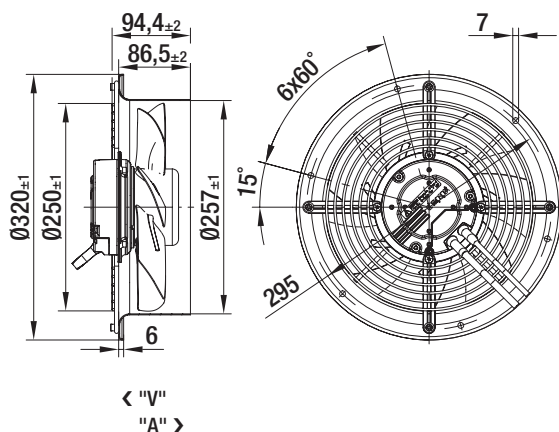


Type

A3G 250-AC71 -01	"V"
A3G 250-AD71 -01	"A"
A3G 250-AC54 -01	"V"
A3G 250-AD54 -01	"A"



With full round nozzle

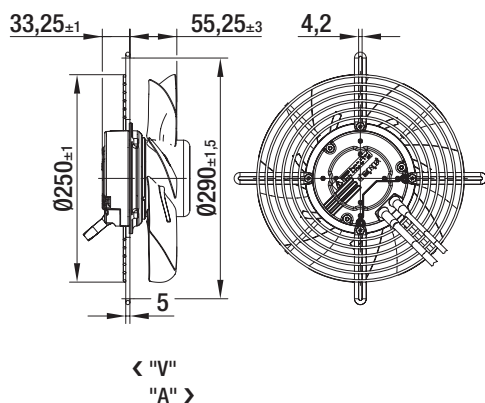


Type

W3G 250-CC71 -01	"V"
W3G 250-CD71 -01	"A"
W3G 250-CC54 -01	"V"
W3G 250-CD54 -01	"A"



With guard grille for full nozzle

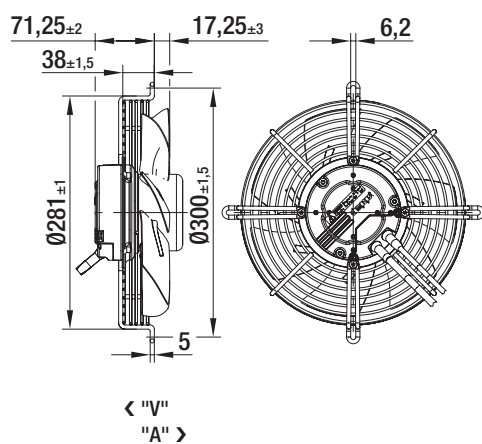


Type

S3G 250-BC71 -01	"V"
S3G 250-BD71 -01	"A"
S3G 250-BC54 -01	"V"
S3G 250-BD54 -01	"A"



With guard grille for short nozzle



Type

S3G 250-AC71 -01	"V"
S3G 250-AD71 -01	"A"
S3G 250-AC54 -01	"V"
S3G 250-AD54 -01	"A"

EC axial fans mains-powered

S series, Ø 300

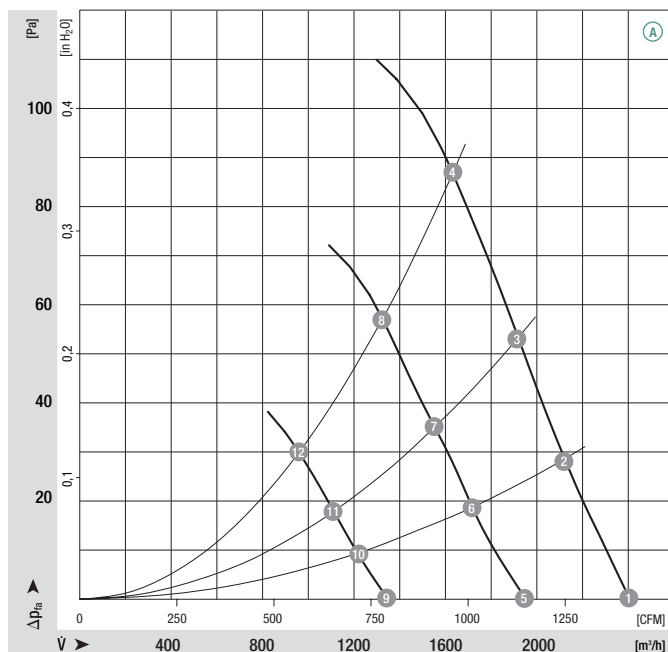


- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black
Blades: Sheet steel, coated in black
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Dir. of air flow "V" counter-clockwise, "A" clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Mass without attachments	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	Pa	°C	kg	p. 423
*3G 300	M3G 074-CF	A	1~ 100-130	50/60	1790	125	1.70	110	-25 to +60	2.7	J1)
*3G 300	M3G 074-CF	B	1~ 200-277	50/60	1710	110	0.70	110	-25 to +60	2.7	J1)

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

Curves

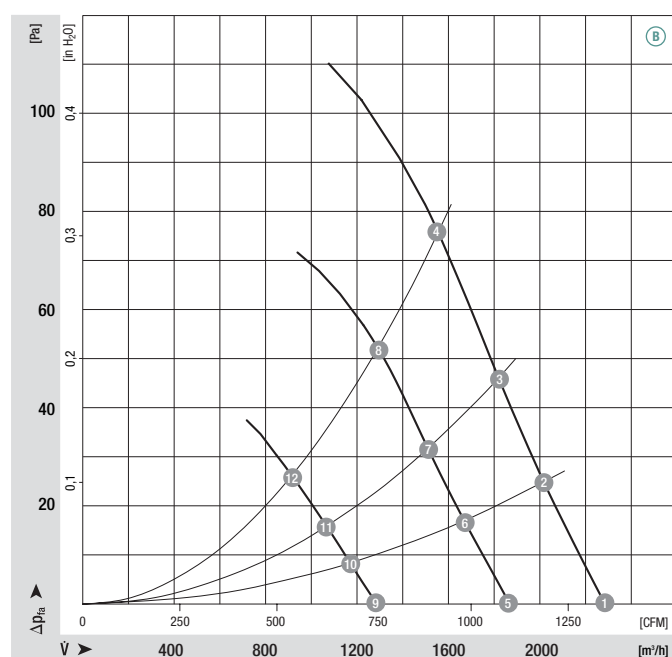


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
A 1	1790	92	1.20	64	—
A 2	1770	98	1.30	64	62
A 3	1750	101	1.30	63	66
A 4	1720	106	1.40	62	67
A 5	1460	50	0.70	58	—
A 6	1430	53	0.70	58	61
A 7	1420	55	0.80	57	67
A 8	1400	58	0.80	56	65
A 9	1030	21	0.30	48	—
A 10	1030	22	0.30	49	52
A 11	1020	23	0.40	48	55
A 12	1010	24	0.40	46	59

- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
 - Output 10 VDC max. 1.1 mA
 - Tach output
 - Over-temperature protected electronics / motor
- **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 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** VDE, UL, CSA, CCC, GOST are applied for

	Direction of air flow			
	< "V"/"A" >	< "V"/"A" >	< "V"/"A" >	< "V"/"A" >
	Without attachments	With full round nozzle	With guard grille for full nozzle	With guard grille for short nozzle
"V"	A3G 300-AB77 -01	W3G 300-CB77 -01	S3G 300-BB77 -01	S3G 300-AB77 -01
"A"	A3G 300-AB77 -02	W3G 300-CB77 -02	S3G 300-BB77 -02	S3G 300-AB77 -02
"V"	A3G 300-AB56 -01	W3G 300-CB56 -01	S3G 300-BB56 -01	S3G 300-AB56 -01
"A"	A3G 300-AB56 -02	W3G 300-CB56 -02	S3G 300-BB56 -02	S3G 300-AB56 -02

Curves



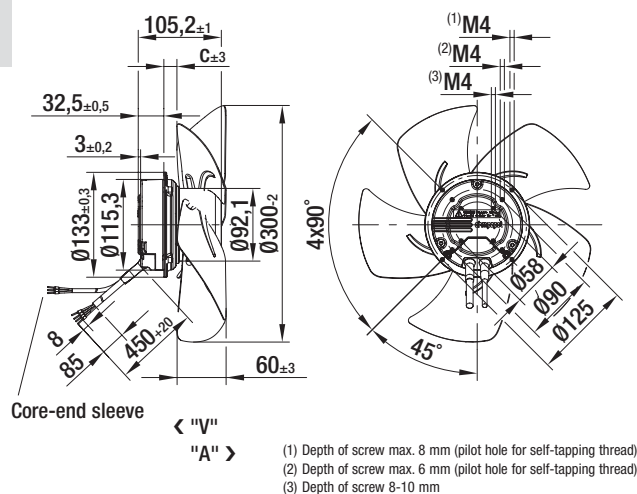
	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓑ 1	1710	76	0.60	62	—
Ⓑ 2	1680	81	0.60	62	64
Ⓑ 3	1670	85	0.60	62	66
Ⓑ 4	1650	89	0.70	60	69
Ⓑ 5	1410	49	0.40	56	—
Ⓑ 6	1390	52	0.40	57	57
Ⓑ 7	1345	54	0.50	56	61
Ⓑ 8	1375	57	0.50	55	61
Ⓑ 9	1000	21	0.20	47	—
Ⓑ 10	990	22	0.20	48	54
Ⓑ 11	990	23	0.20	46	58
Ⓑ 12	980	24	0.20	45	60

EC axial fans mains-powered

S series, Ø 300, drawings of directions of air flow "V" and "A"



Without attachments



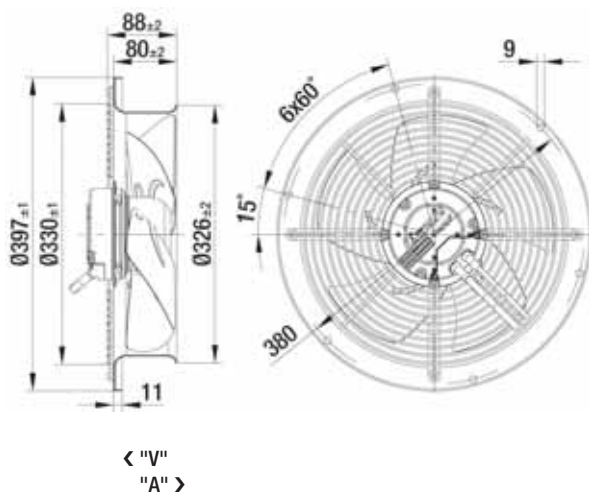
Type

c

A3G 300-AB77 -01	"V"	16.5
A3G 300-AB77 -02	"A"	16.0
A3G 300-AB56 -01	"V"	16.5
A3G 300-AB56 -02	"A"	16.0



With full round nozzle

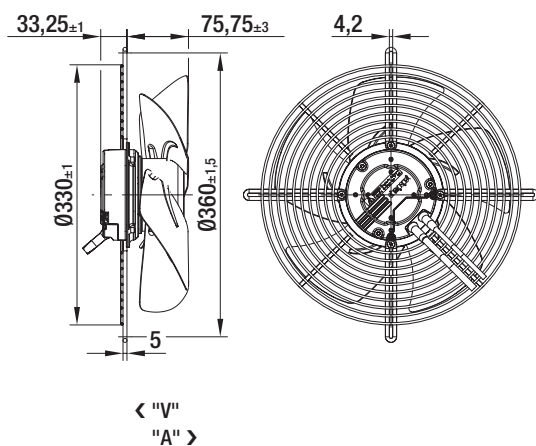


Type

W3G 300-CB77 -01	"V"
W3G 300-CB77 -02	"A"
W3G 300-CB56 -01	"V"
W3G 300-CB56 -02	"A"



With guard grille for full nozzle

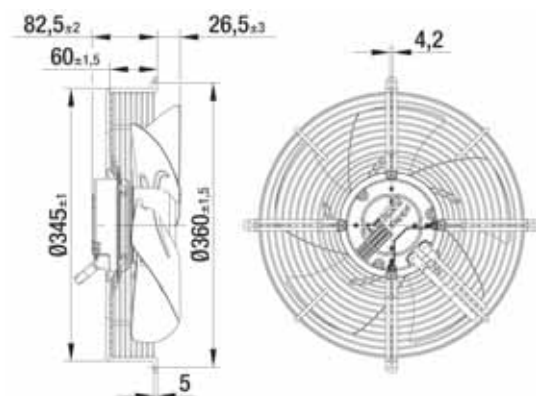


Type

S3G 300-BB77 -01	"V"
S3G 300-BB77 -02	"A"
S3G 300-BB56 -01	"V"
S3G 300-BB56 -02	"A"



With guard grille for short nozzle



< "V"
"A" >

Type

S3G 300-AB77 -01	"V"
S3G 300-AB77 -02	"A"
S3G 300-AB56 -01	"V"
S3G 300-AB56 -02	"A"

EC axial fans mains-powered

S series, Ø 315

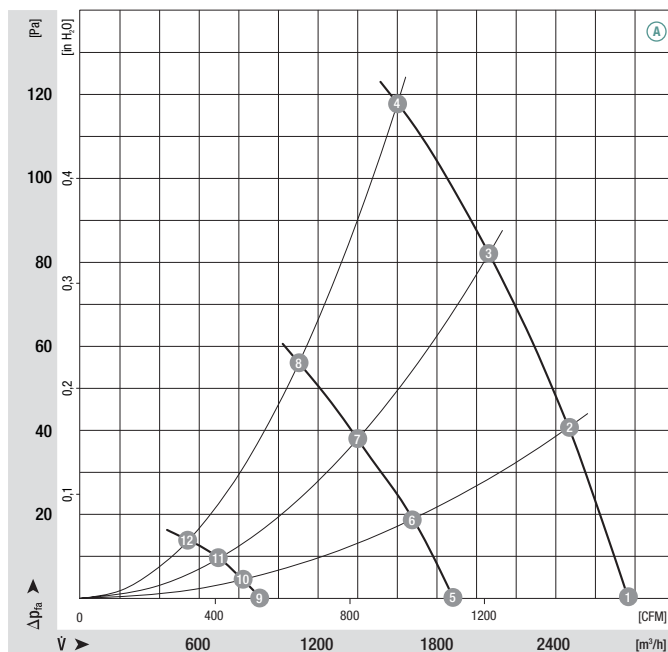


- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black
Blades: Sheet steel, coated in black
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Dir. of air flow "V" counter-clockwise, "A" clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Mass without attachments	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	Pa	°C	kg	p. 423
*3G 315	M3G 074-CF	A	1~ 100-130	50/60	1670	160	2.10	110	-25 to +60	2.9	J1)
*3G 315	M3G 074-CF	B	1~ 200-277	50/60	1660	170	1.30	130	-25 to +60	2.9	J1)

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

Curves

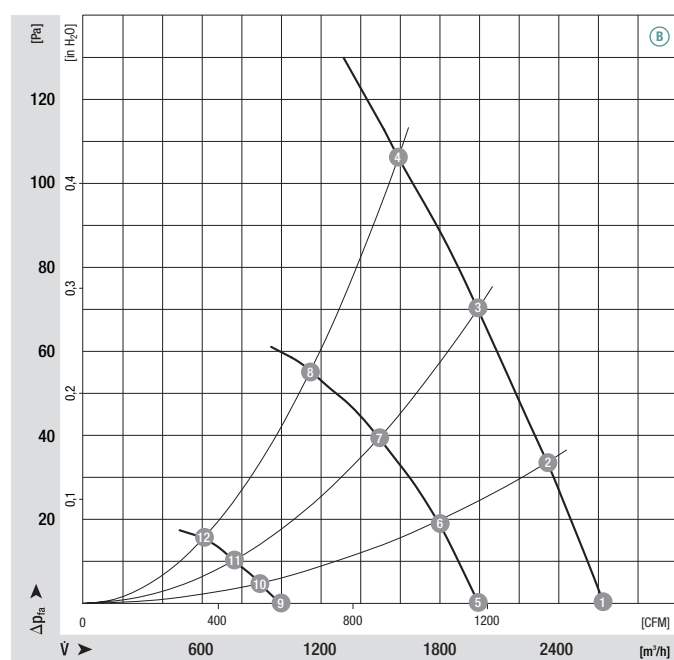


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
A 1	1670	109	1.40	63	—
A 2	1660	118	1.50	62	53
A 3	1630	126	1.60	62	60
A 4	1610	138	1.80	60	55
A 5	1130	38	0.60	53	—
A 6	1120	42	0.60	52	48
A 7	1120	45	0.60	52	54
A 8	1110	49	0.70	50	50
A 9	560	8	0.10	32	—
A 10	560	9	0.20	31	25
A 11	560	9	0.20	31	33
A 12	560	10	0.20	29	30

- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
 - Output 10 VDC max. 1.1 mA
 - Tach output
 - Over-temperature protected electronics / motor
- **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 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** VDE, UL, CSA, CCC, GOST are applied for

	Direction of air flow			
	Without attachments	With full round nozzle	With guard grille for full nozzle	With guard grille for short nozzle
"V"	A3G 315-AA76 -01	W3G 315-CA76 -01	S3G 315-BA76 -01	S3G 315-AA76 -01
"A"	A3G 315-AA76 -02	W3G 315-CA76 -02	S3G 315-BA76 -02	S3G 315-AA76 -02
"V"	A3G 315-AA58 -01	W3G 315-CA58 -01	S3G 315-BA58 -01	S3G 315-AA58 -01
"A"	A3G 315-AA58 -02	W3G 315-CA58 -02	S3G 315-BA58 -02	S3G 315-AA58 -02

Curves



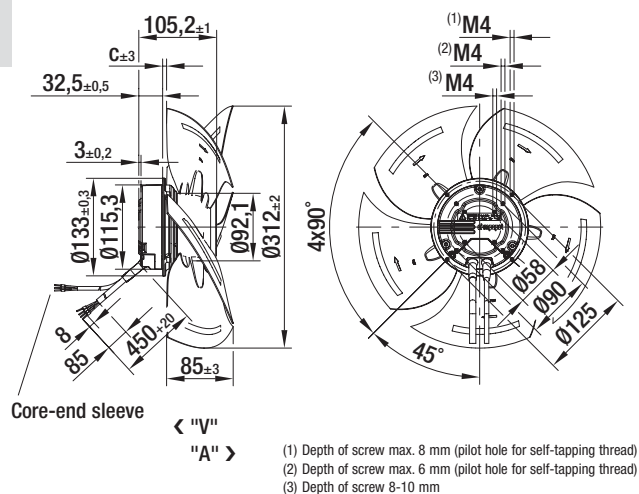
	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓑ 1	1660	110	0.80	62	—
Ⓑ 2	1640	119	0.90	61	43
Ⓑ 3	1625	125	0.90	62	52
Ⓑ 4	1610	135	1.00	60	50
Ⓑ 5	1250	50	1.00	55	—
Ⓑ 6	1250	55	1.00	54	24
Ⓑ 7	1220	55	1.00	54	40
Ⓑ 8	1170	57	1.00	52	43
Ⓑ 9	640	11	0.40	35	—
Ⓑ 10	630	12	0.40	34	17
Ⓑ 11	630	12	0.50	34	31
Ⓑ 12	620	13	0.50	33	37

EC axial fans mains-powered

S series, Ø 315, drawings of directions of air flow "V" and "A"



Without attachments



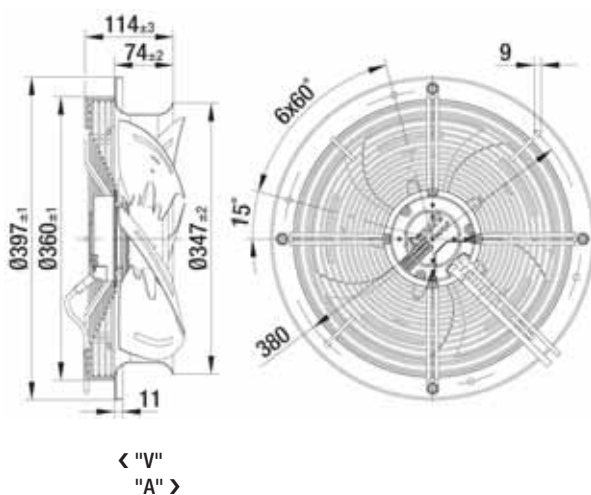
Type

c

A3G 315-AA76 -01	"V"	6.0
A3G 315-AA76 -02	"A"	-6.0
A3G 315-AA58 -01	"V"	6.0
A3G 315-AA58 -02	"A"	-6.0



With full round nozzle

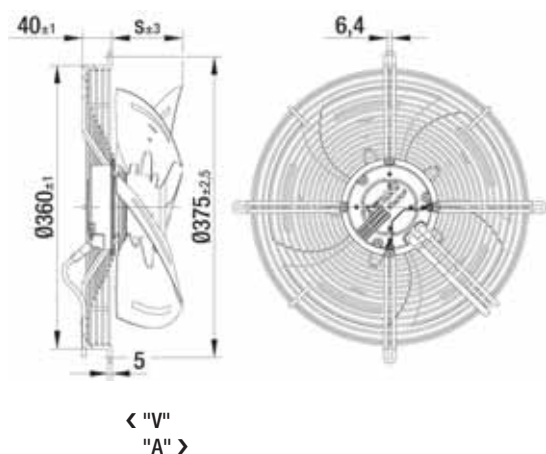


Type

W3G 315-CA76 -01	"V"
W3G 315-CA76 -02	"A"
W3G 315-CA58 -01	"V"
W3G 315-CA58 -02	"A"



With guard grille for full nozzle



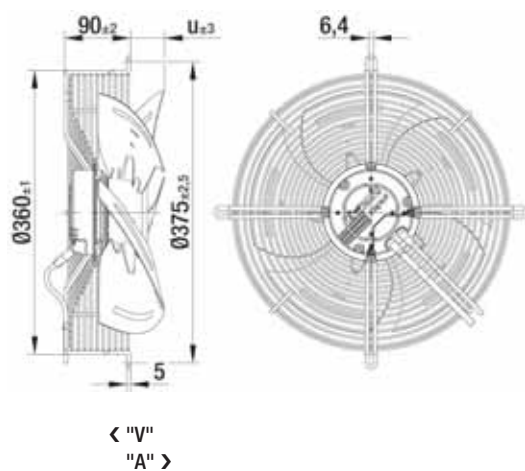
Type

s

S3G 315-BA76 -01	"V"	91.0
S3G 315-BA76 -02	"A"	79.0
S3G 315-BA58 -01	"V"	91.0
S3G 315-BA58 -02	"A"	79.0



With guard grille for short nozzle



Type

Type	u	
	"V"	"A"
S3G 315-AA76 -01	"V"	41.0
S3G 315-AA76 -02	"A"	29.0
S3G 315-AA58 -01	"V"	41.0
S3G 315-AA58 -02	"A"	29.0

EC axial fans mains-powered

S series, Ø 330



- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black
Blades: Sheet steel, coated in black
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Dir. of air flow "V" counter-clockwise, "A" clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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

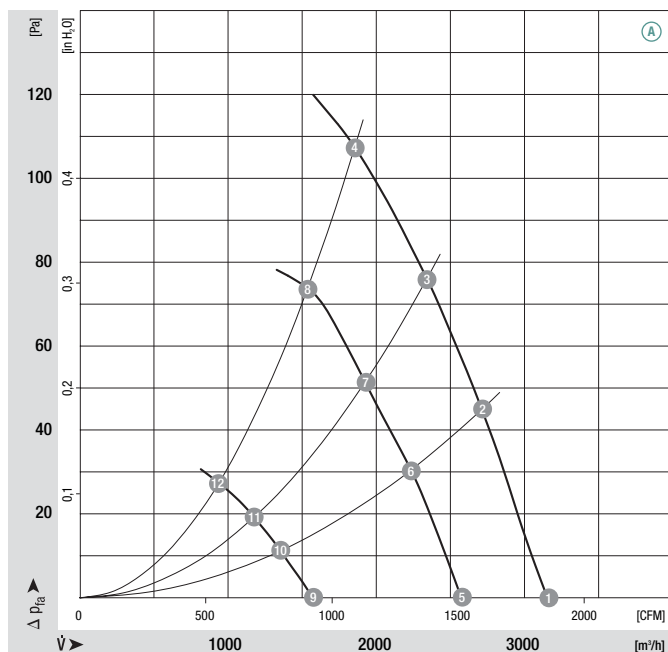
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Mass without attachments	Electr. connection
			VAC	Hz	rpm	W	A	Pa	°C	kg	p. 423
*3G 330	M3G 074-CF	A	1~ 100-130	50/60	1660	170	2.20	120	-25 to +60	2.9	J1)
*3G 330	M3G 074-CF	B	1~ 200-277	50/60	1630	170	1.30	120	-25 to +60	2.9	J1)

subject to alterations

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

Curves

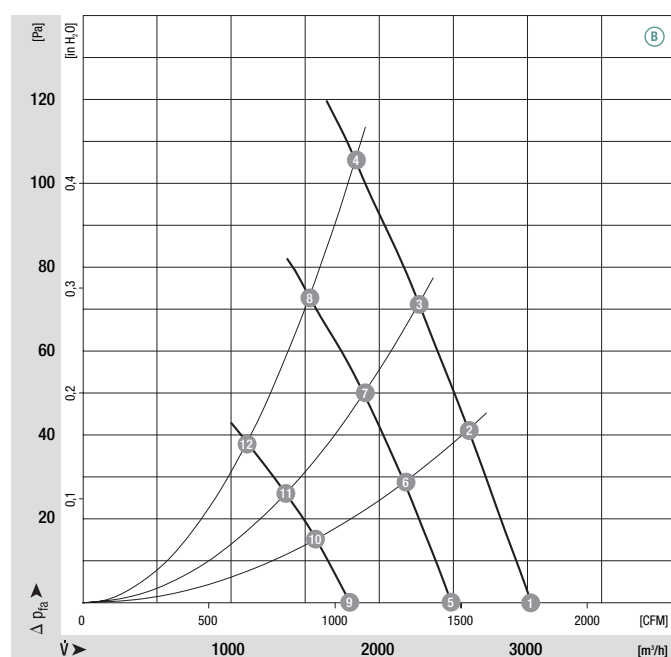


	n	P ₁	I	Lp _A	η _{HL}
	[rpm]	[W]	[A]	[dB(A)]	[%]
A 1	1660	131	1.70	68	—
A 2	1630	144	1.80	66	81
A 3	1610	147	1.90	64	78
A 4	1570	163	2.10	63	61
A 5	1350	72	1.00	64	—
A 6	1340	83	1.10	62	80
A 7	1330	87	1.20	60	74
A 8	1290	92	1.20	58	62
A 9	830	20	0.30	51	—
A 10	820	23	0.30	48	63
A 11	810	25	0.40	45	59
A 12	800	27	0.40	44	48

- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
 - Output 10 VDC max. 1.1 mA
 - Tach output
 - Over-temperature protected electronics / motor
- **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 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** VDE, UL, CSA, CCC, GOST are applied for

	Direction of air flow			
	Without attachments	With full round nozzle	With guard grille for full nozzle	With guard grille for short nozzle
"V"	A3G 330-AA76 -01	W3G 330-CA76 -01	S3G 330-BA76 -01	S3G 330-AA76 -01
"A"	A3G 330-AA76 -02	W3G 330-CA76 -02	S3G 330-BA76 -02	S3G 330-AA76 -02
"V"	A3G 330-AA58 -01	W3G 330-CA58 -01	S3G 330-BA58 -01	S3G 330-AA58 -01
"A"	A3G 330-AA58 -02	W3G 330-CA58 -02	S3G 330-BA58 -02	S3G 330-AA58 -02

Curves



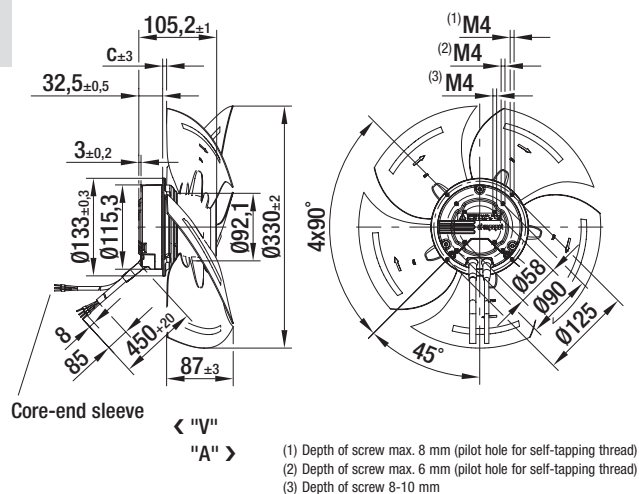
	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓑ 1	1630	130	0.95	68	—
Ⓑ 2	1600	139	1.00	65	70
Ⓑ 3	1590	146	1.10	64	67
Ⓑ 4	1580	151	1.10	63	60
Ⓑ 5	1350	76	0.60	63	—
Ⓑ 6	1330	82	0.60	61	72
Ⓑ 7	1330	86	0.65	60	69
Ⓑ 8	1310	93	0.70	58	59
Ⓑ 9	970	33	0.30	54	—
Ⓑ 10	960	36	0.30	52	74
Ⓑ 11	960	37	0.30	50	70
Ⓑ 12	950	40	0.30	49	60

EC axial fans mains-powered

S series, Ø 330, drawings of directions of air flow "V" and "A"



Without attachments



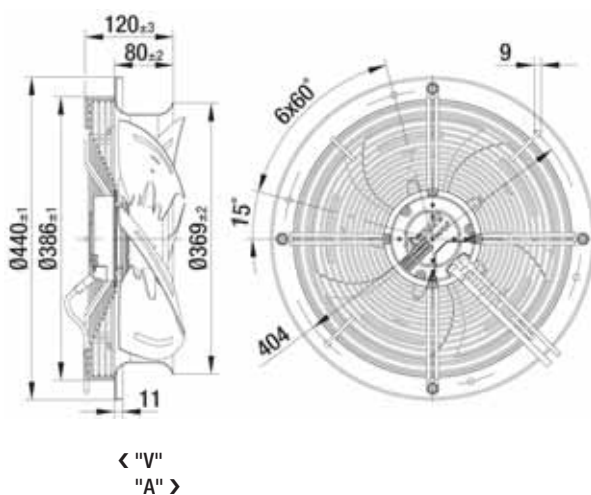
Type

c

A3G 330-AA76 -01	"V"	6.0
A3G 330-AA76 -02	"A"	-7.0
A3G 330-AA58 -01	"V"	6.0
A3G 330-AA58 -02	"A"	-7.0



With full round nozzle

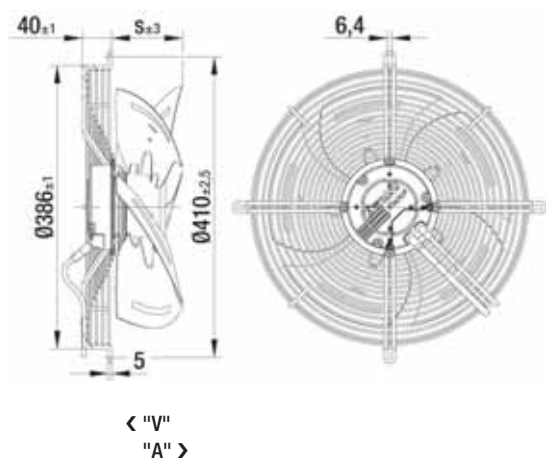


Type

W3G 330-CA76 -01	"V"
W3G 330-CA76 -02	"A"
W3G 330-CA58 -01	"V"
W3G 330-CA58 -02	"A"



With guard grille for full nozzle



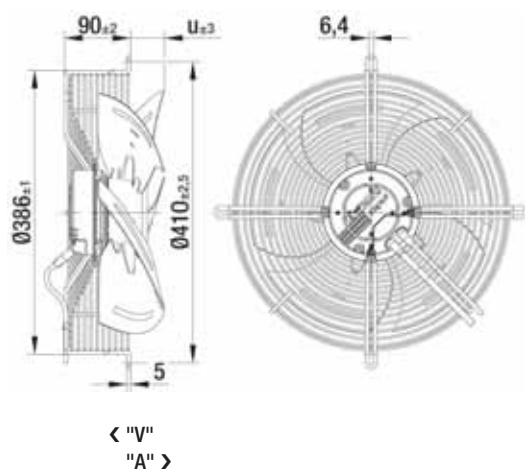
Type

s

S3G 330-BA76 -01	"V"	93.0
S3G 330-BA76 -02	"A"	80.0
S3G 330-BA58 -01	"V"	93.0
S3G 330-BA58 -02	"A"	80.0



With guard grille for short nozzle



Type

Type	u	
	"V"	"A"
S3G 330-AA76 -01	"V"	43.0
S3G 330-AA76 -02	"A"	30.0
S3G 330-AA58 -01	"V"	43.0
S3G 330-AA58 -02	"A"	30.0

EC axial fans mains-powered

S series, Ø 350



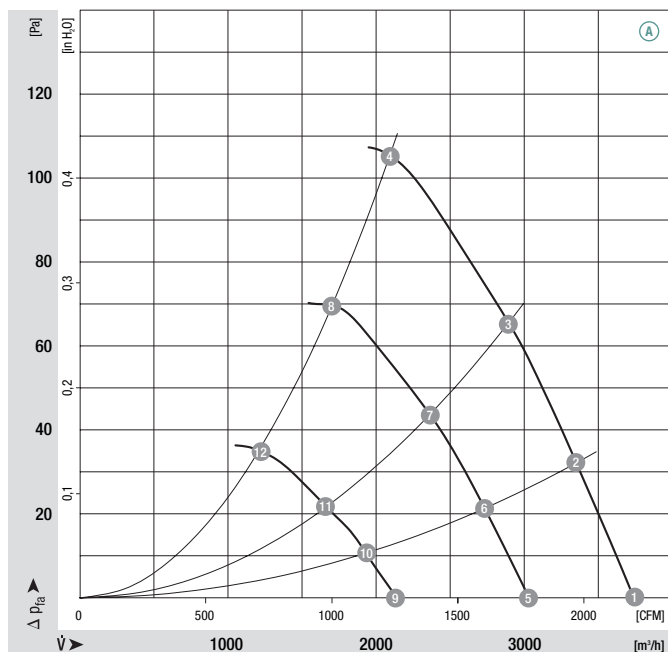
- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black
Blades: Sheet steel, coated in black
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Dir. of air flow "V" counter-clockwise, "A" clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Mass without attachments	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	Pa	°C	kg	p. 423
*3G 350	M3G 074-CF	Ⓐ	1~ 100-130	50/60	1600	170	2.20	100	-25 to +60	2.9	J1)
*3G 350	M3G 074-CF	Ⓑ	1~ 200-277	50/60	1540	170	1.30	100	-25 to +60	2.9	J1)

subject to alterations

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

Curves

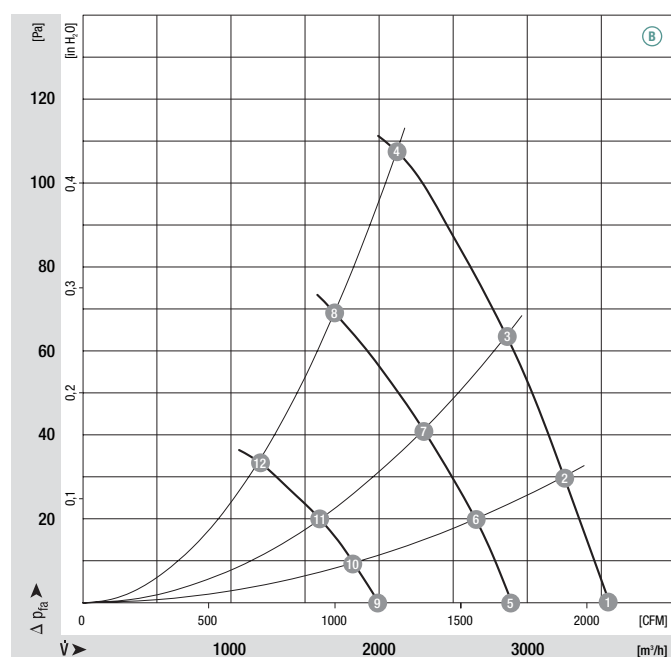


	n	P ₁	I	Lp _A	η _{HL}
	[rpm]	[W]	[A]	[dB(A)]	[%]
Ⓐ 1	1600	165	2.10	66	—
Ⓐ 2	1540	167	2.10	66	68
Ⓐ 3	1490	167	2.10	64	72
Ⓐ 4	1410	167	2.10	61	60
Ⓐ 5	1300	91	1.20	62	—
Ⓐ 6	1250	91	1.20	61	68
Ⓐ 7	1210	92	1.20	59	70
Ⓐ 8	1150	91	1.20	55	59
Ⓐ 9	910	36	0.50	54	—
Ⓐ 10	880	35	0.50	52	62
Ⓐ 11	850	35	0.50	50	64
Ⓐ 12	820	35	0.50	46	55

- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
 - Output 10 VDC max. 1.1 mA
 - Tach output
 - Over-temperature protected electronics / motor
- **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 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** VDE, UL, CSA, CCC, GOST are applied for

	Direction of air flow			
	Without attachments	With full round nozzle	With guard grille for full nozzle	With guard grille for short nozzle
"V"	A3G 350-AA76 -01	W3G 350-CA76 -01	S3G 350-BA76 -01	S3G 350-AA76 -01
"A"	A3G 350-AA76 -02	W3G 350-CA76 -02	S3G 350-BA76 -02	S3G 350-AA76 -02
"V"	A3G 350-AA58 -01	W3G 350-CA58 -01	S3G 350-BA58 -01	S3G 350-AA58 -01
"A"	A3G 350-AA58 -02	W3G 350-CA58 -02	S3G 350-BA58 -02	S3G 350-AA58 -02

Curves



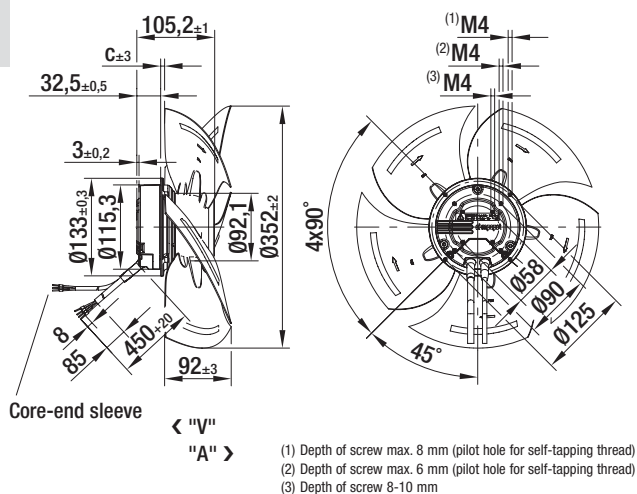
	n	P ₁	I	Lp _A	η _{HL}
	[rpm]	[W]	[A]	[dB(A)]	[%]
①	1540	150	1.20	67	—
②	1520	162	1.20	66	62
③	1490	168	1.30	64	66
④	1430	167	1.20	61	61
⑤	1260	87	0.70	61	—
⑥	1240	91	0.70	60	60
⑦	1200	90	0.70	58	64
⑧	1150	91	0.70	55	57
⑨	870	33	0.30	51	—
⑩	850	35	0.30	50	58
⑪	840	34	0.30	48	63
⑫	810	34	0.30	45	57

EC axial fans mains-powered

S series, Ø 350, drawings of directions of air flow "V" and "A"



Without attachments



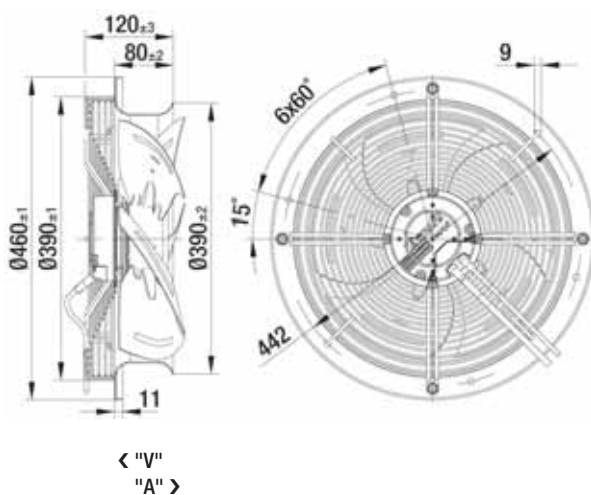
Type

c

A3G 350-AA76 -01	"V"	7.0
A3G 350-AA76 -02	"A"	-12.0
A3G 350-AA58 -01	"V"	7.0
A3G 350-AA58 -02	"A"	-12.0



With full round nozzle

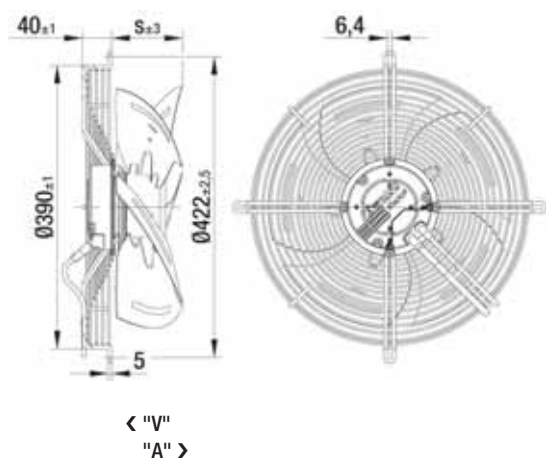


Type

W3G 350-CA76 -01	"V"
W3G 350-CA76 -02	"A"
W3G 350-CA58 -01	"V"
W3G 350-CA58 -02	"A"



With guard grille for full nozzle



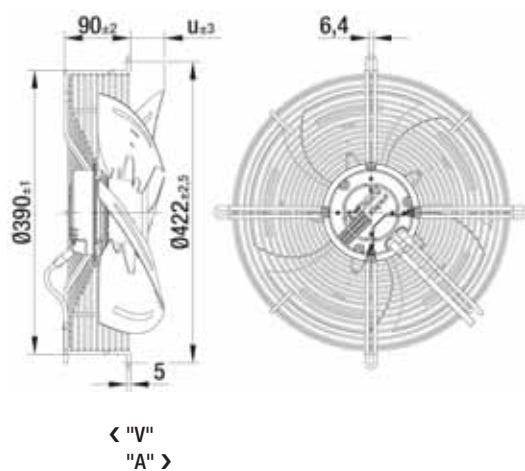
Type

s

S3G 350-BA76 -01	"V"	99.0
S3G 350-BA76 -02	"A"	80.0
S3G 350-BA58 -01	"V"	99.0
S3G 350-BA58 -02	"A"	80.0



With guard grille for short nozzle



Type

Type	u	
	"V"	"A"
S3G 350-AA76 -01	"V"	49.0
S3G 350-AA76 -02	"A"	30.0
S3G 350-AA58 -01	"V"	49.0
S3G 350-AA58 -02	"A"	30.0

EC axial fans mains-powered

S series, Ø 400

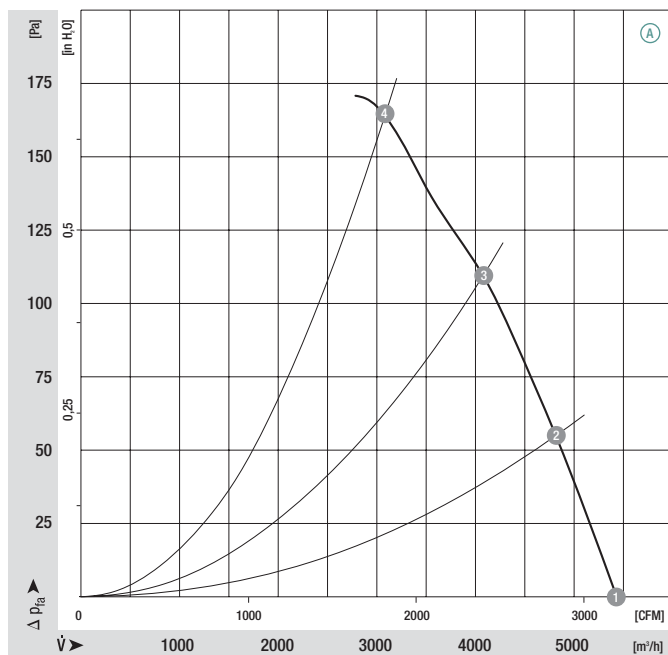


- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black
Blades: Sheet steel, coated in black
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Dir. of air flow "V" counter-clockwise, "A" clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **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		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Mass without attachments	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	Pa	°C	kg	p. 425
*3G 400	M3G 084-FA	(A)	1~ 100-130	50/60	1620	350	4.20	165	-25 to +60	5.2	K1)
*3G 400	M3G 084-FA	(B)	1~ 200-277	50/60	1690	390	2.50	180	-25 to +60	5.2	K1)

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

Curves

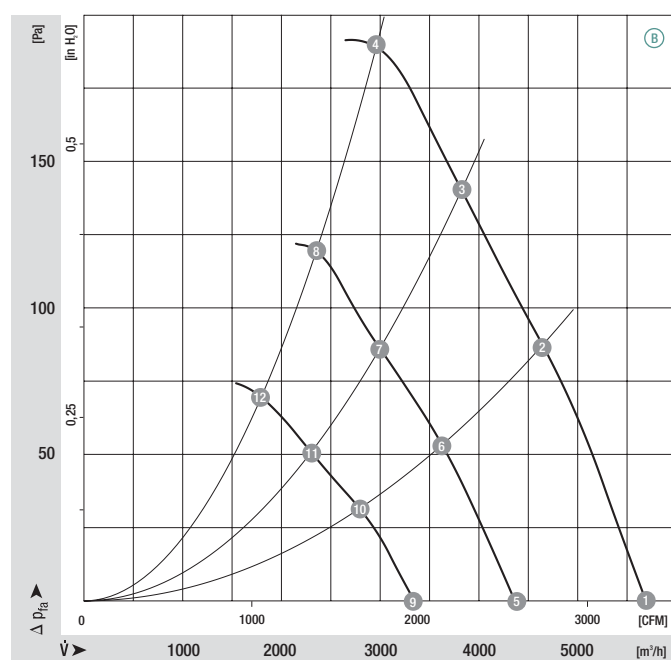


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
(A) 1	1620	310	3.80	69	—
(A) 2	1590	332	4.00	68	66
(A) 3	1565	349	4.20	68	62
(A) 4	1550	350	4.20	68	54

- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
 - Output 10 VDC max. 1.1 mA
 - Alarm relay
 - Over-temperature protected electronics / motor
- **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
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:**  UL, CSA;   VDE, CCC, GOST are applied for

Direction of air flow	   			
	< "V"/"A" > Without attachments	< "V"/"A" > With full round nozzle	< "V"/"A" > With guard grille for full nozzle	< "V"/"A" > With guard grille for short nozzle
"V"	A3G 400-AA37 -81	W3G 400-CA37 -81	S3G 400-KA37 -81	S3G 400-LA37 -81
"A"	A3G 400-AA37 -82	W3G 400-CA37 -82	S3G 400-KA37 -82	S3G 400-LA37 -82
"V"	A3G 400-AA22 -71	W3G 400-CA22 -71	S3G 400-KA22 -71	S3G 400-LA22 -71
"A"	A3G 400-AA22 -72	W3G 400-CA22 -72	S3G 400-KA22 -72	S3G 400-LA22 -72

Curves



	n	P ₁	I	Lp _A	η _{HL}
	[rpm]	[W]	[A]	[dB(A)]	[%]
 1	1690	340	2.10	75	—
 2	1660	375	2.30	72	64
 3	1640	380	2.40	70	61
 4	1630	390	2.50	68	54
 5	1300	162	1.00	68	—
 6	1300	179	1.10	66	64
 7	1300	192	1.20	64	61
 8	1300	203	1.20	63	54
 9	1000	76	0.50	61	—
 10	1000	91	0.60	60	64
 11	1000	93	0.60	57	61
 12	1000	100	0.70	56	54

EC axial fans mains-powered

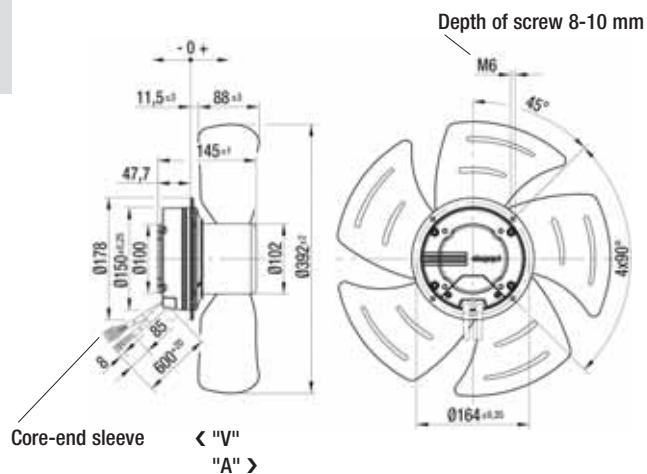
S series, Ø 400, drawings of directions of air flow "V" and "A"



Without attachments

Type

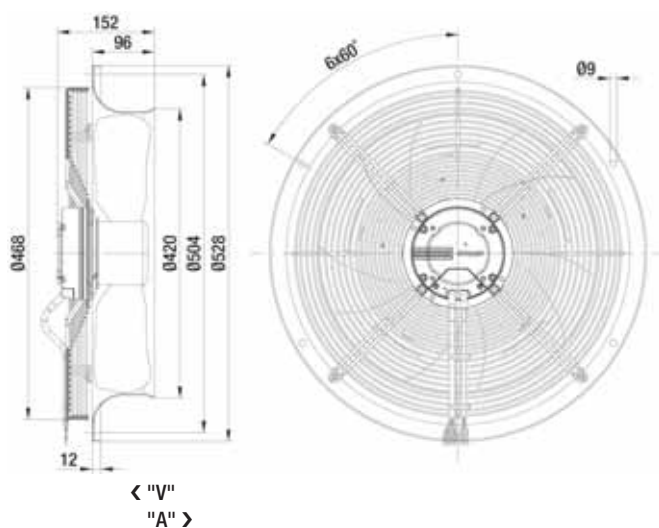
A3G 400-AA37 -81	"V"
A3G 400-AA37 -82	"A"
A3G 400-AA22 -71	"V"
A3G 400-AA22 -72	"A"



With full round nozzle

Type

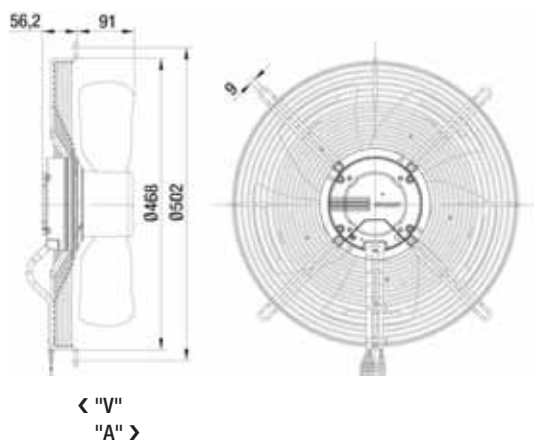
W3G 400-CA37 -81	"V"
W3G 400-CA37 -82	"A"
W3G 400-CA22 -71	"V"
W3G 400-CA22 -72	"A"



With guard grille for full nozzle

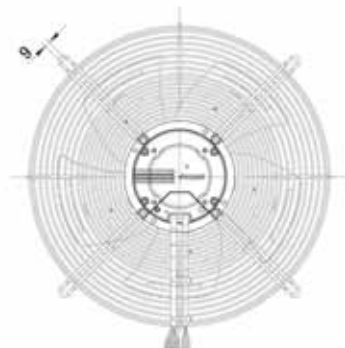
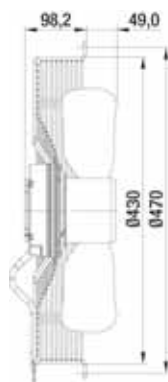
Type

S3G 400-KA37 -81	"V"
S3G 400-KA37 -82	"A"
S3G 400-KA22 -71	"V"
S3G 400-KA22 -72	"A"





With guard grille for short nozzle



< "V"
"A" >

Type

S3G 400-LA37 -81	"V"
S3G 400-LA37 -82	"A"
S3G 400-LA22 -71	"V"
S3G 400-LA22 -72	"A"

EC axial fans mains-powered

S series, Ø 450

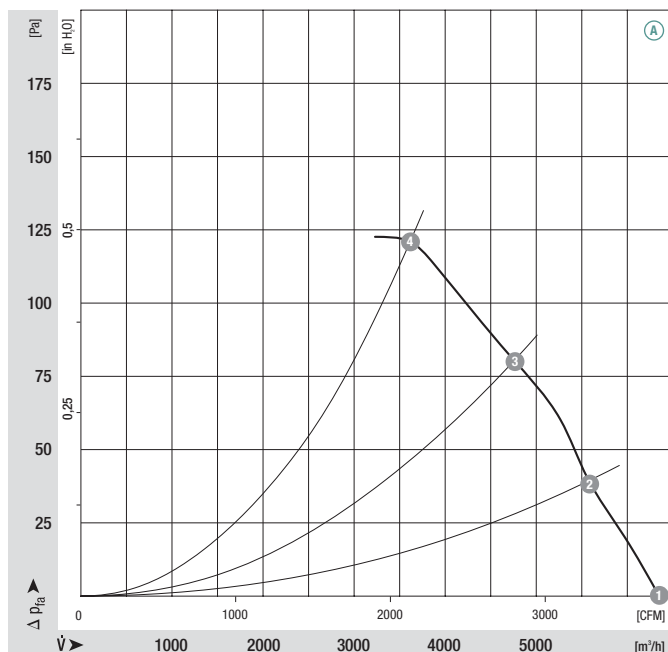


- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black
Blades: Sheet steel, coated in black
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Dir. of air flow "V" counter-clockwise, "A" clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **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		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Mass without attachments	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	Pa	°C	kg	p. 425
*3G 450	M3G 084-FA	(A)	1~ 100-130	50/60	1270	310	3.70	120	-25 to +60	5.5	K1)
*3G 450	M3G 084-FA	(B)	1~ 200-277	50/60	1310	325	2.10	120	-25 to +60	5.5	K1)

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

Curves

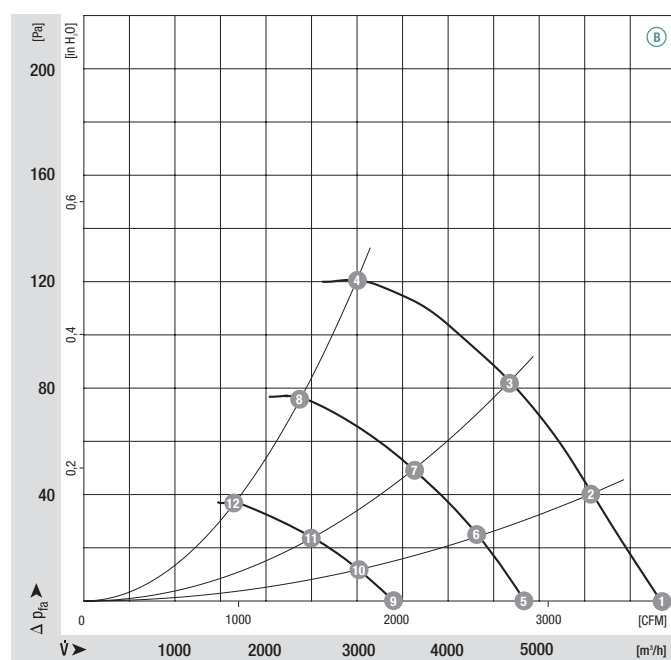


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
(A) 1	1270	267	3.30	69	—
(A) 2	1245	282	3.50	69	70
(A) 3	1230	300	3.70	67	66
(A) 4	1220	308	3.70	63	42

- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
- **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
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA; VDE, CCC, GOST are applied for
- Output 10 VDC max. 1.1 mA
- Alarm relay
- Over-temperature protected electronics / motor

Direction of air flow	   			
	< "V"/"A" > Without attachments	< "V"/"A" > With full round nozzle	< "V"/"A" > With guard grille for full nozzle	< "V"/"A" > With guard grille for short nozzle
"V"	A3G 450-AA40 -81	W3G 450-CA40 -81	S3G 450-KA40 -81	S3G 450-LA40 -81
"A"	A3G 450-AA40 -82	W3G 450-CA40 -82	S3G 450-KA40 -82	S3G 450-LA40 -82
"V"	A3G 450-AA14 -71	W3G 450-CA14 -71	S3G 450-KA14 -71	S3G 450-LA14 -71
"A"	A3G 450-AA14 -72	W3G 450-CA14 -72	S3G 450-KA14 -72	S3G 450-LA14 -72

Curves



	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
1	1310	245	1.50	73	—
2	1290	262	1.70	72	70
3	1270	290	1.90	70	66
4	1240	325	2.10	66	42
5	1000	108	0.70	68	—
6	1000	122	0.80	67	70
7	1000	140	0.90	65	66
8	1000	174	1.10	61	42
9	700	38	0.30	61	—
10	700	42	0.30	60	70
11	700	48	0.30	58	66
12	700	60	0.40	56	42

EC axial fans mains-powered

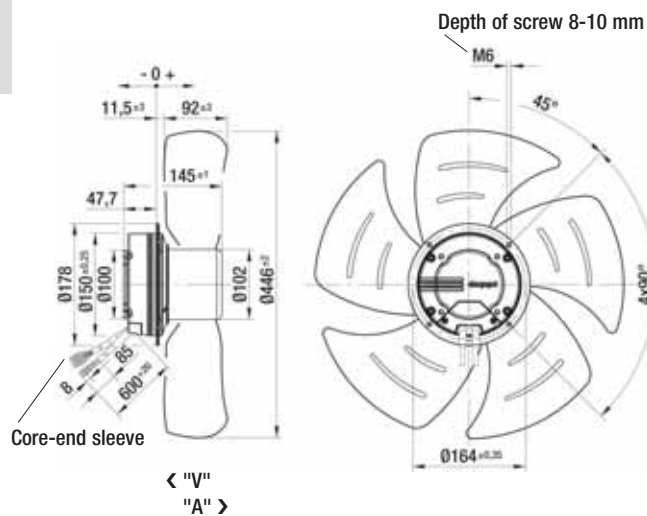
S series, Ø 450, drawings of directions of air flow "V" and "A"



Without attachments

Type

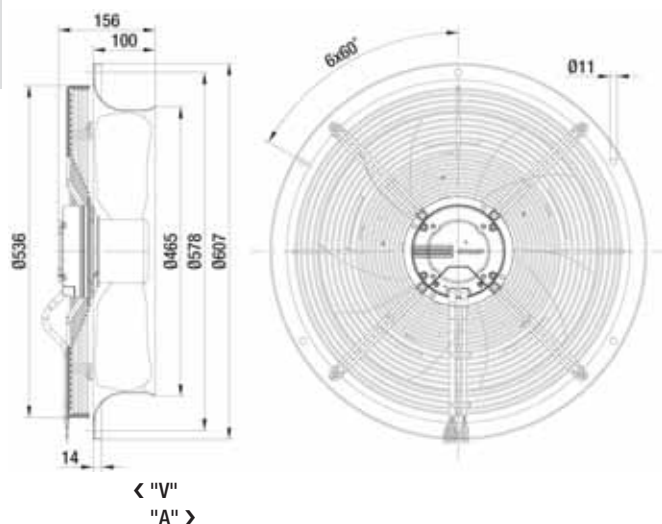
A3G 450-AA40 -81	"V"
A3G 450-AA40 -82	"A"
A3G 450-AA14 -71	"V"
A3G 450-AA14 -72	"A"



With full round nozzle

Type

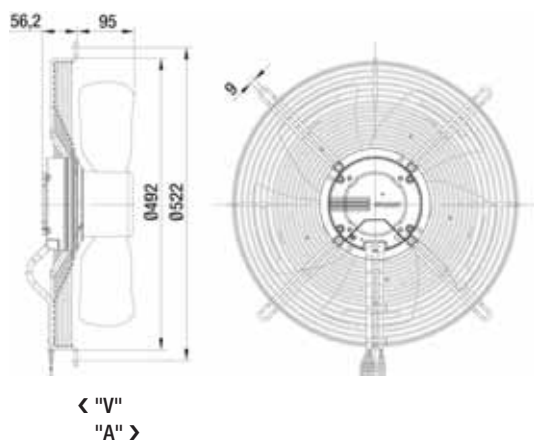
W3G 450-CA40 -81	"V"
W3G 450-CA40 -82	"A"
W3G 450-CA14 -71	"V"
W3G 450-CA14 -72	"A"



With guard grille for full nozzle

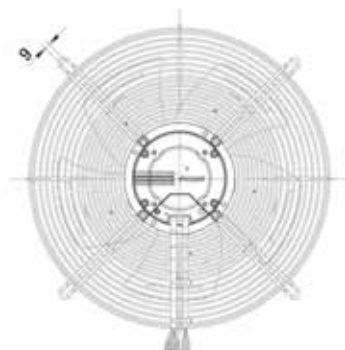
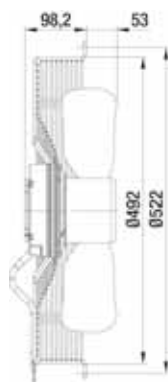
Type

S3G 450-KA40 -81	"V"
S3G 450-KA40 -82	"A"
S3G 450-KA14 -71	"V"
S3G 450-KA14 -72	"A"





With guard grille for short nozzle



< "V"
"A" >

Type

S3G 450-LA40 -81	"V"
S3G 450-LA40 -82	"A"
S3G 450-LA14 -71	"V"
S3G 450-LA14 -72	"A"

EC axial fans mains-powered

S series, Ø 500



- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: PA plastic
Rotor: Cast-in with PA plastic
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:** "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

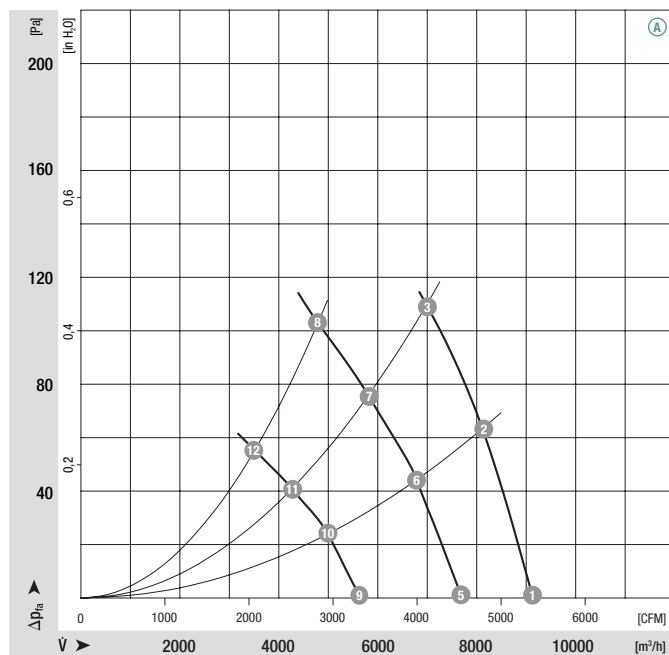
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	kW	A	Pa	°C	p. 427
*3G 500	M3G 112-GA	Ⓐ	1~ 200-277	50/60	1250	0.69	3.10	110	-25 to +60	L1)

subject to alterations

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

Curves



	n [rpm]	P ₁ [kW]	I [A]	Lw _A [dB(A)]	η _{HL} [%]
Ⓐ 1	1260	0.61	2.80	74	—
Ⓐ 2	1260	0.67	3.00	76	62
Ⓐ 3	1250	0.69	3.10	77	60
Ⓐ 4	—	—	—	—	—
Ⓐ 5	1020	0.41	1.90	80	—
Ⓐ 6	1030	0.36	1.70	70	67
Ⓐ 7	1020	0.37	1.70	71	67
Ⓐ 8	1020	0.36	1.70	73	63
Ⓐ 9	750	0.16	0.80	70	—
Ⓐ 10	740	0.15	0.70	62	73
Ⓐ 11	740	0.15	0.70	62	72
Ⓐ 12	740	0.15	0.70	63	68

EC axial fans mains-powered

S series, Ø 500

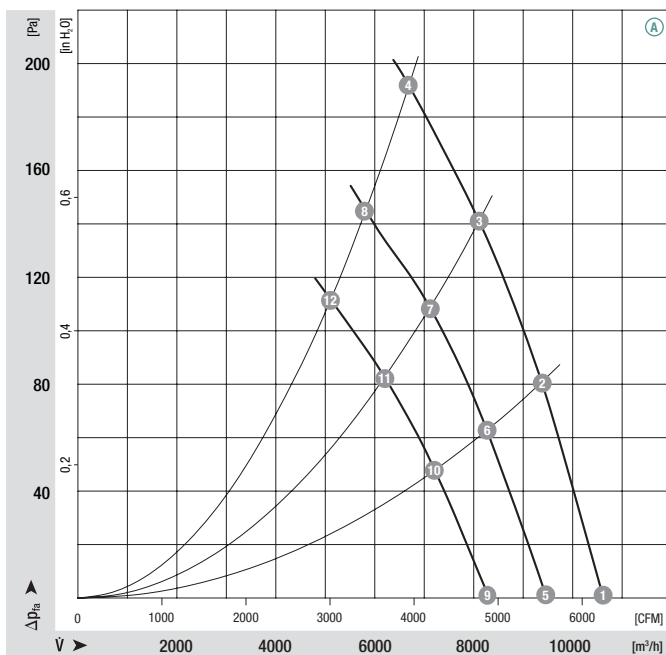


- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: PA plastic
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "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		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
Type	Motor	VAC	Hz	rpm	kW	A	Pa	°C	p. 427	
*3G 500	M3G 112-GA	A	3~ 200-240	50/60	1450	1.04	3.40	195	-25 to +60	L2)
*3G 500	M3G 112-GA	B	3~ 380-480	50/60	1450	1.04	1.70	195	-25 to +60	L2)

subject to alterations (1) Nominal data in operating point with maximum load and 200 or 400 VAC

Curves



	n [rpm]	P ₁ [kW]	I [A]	Lw _A [dB(A)]	η _{HL} [%]
A 1	1450	1.21	3.80	97	—
A 2	1450	1.00	3.20	79	77
A 3	1450	1.05	3.40	81	68
A 4	1450	1.04	3.40	82	60
A 5	1220	0.70	2.40	87	—
A 6	1270	0.66	2.20	76	81
A 7	1260	0.67	2.40	77	73
A 8	1260	0.66	2.20	79	62
A 9	1080	0.47	1.80	83	—
A 10	1110	0.44	1.80	73	81
A 11	1110	0.46	1.80	74	72
A 12	1100	0.45	1.80	75	63

Technical features:

- 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 / phase failure detection
- Motor current limitation
- Over-temperature protected electronics / motor
- Locked rotor protection
- Soft start

– **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

– **Connection leads:** Via terminal strip

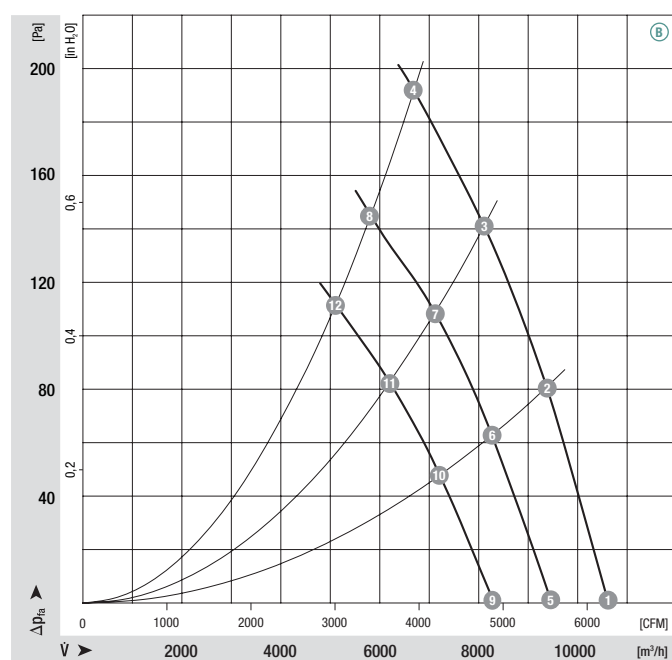
– **Protection class:** I (acc. to EN 61800-5-1)

– **Product conforming to standard:** CE

– **Approvals:** VDE, UL, CSA, GOST; CCC is applied for

Direction of air flow	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle
"V"	A3G 500-AE38 -06	W3G 500-CE38 -06	S3G 500-BE38 -06	S3G 500-AE38 -06
"V"	A3G 500-AE33 -01	W3G 500-CE33 -01	S3G 500-BE33 -01	S3G 500-AE33 -01

Curves



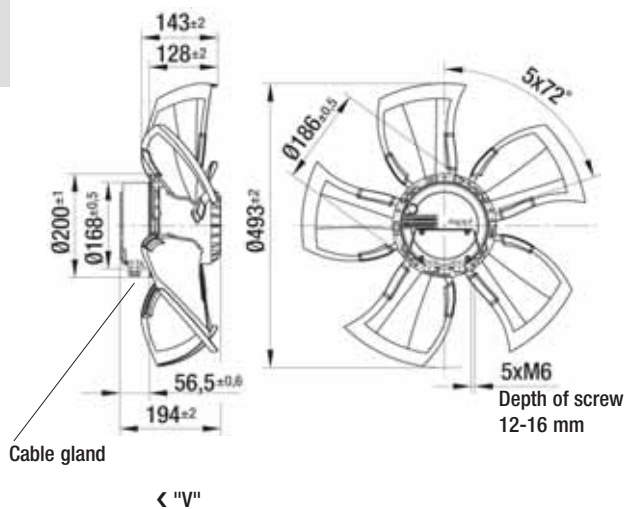
	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]	η_{HL} [%]
①	1450	1.21	1.90	97	—
②	1450	1.00	1.60	79	77
③	1450	1.05	1.70	81	68
④	1450	1.04	1.70	82	60
⑤	1220	0.70	1.20	87	—
⑥	1270	0.66	1.10	76	81
⑦	1260	0.67	1.20	77	73
⑧	1260	0.66	1.10	79	62
⑨	1080	0.47	0.90	83	—
⑩	1110	0.44	0.90	73	81
⑪	1110	0.46	0.90	74	72
⑫	1100	0.45	0.90	75	63

EC axial fans mains-powered

S series, Ø 500, drawings for direction of air flow "V"



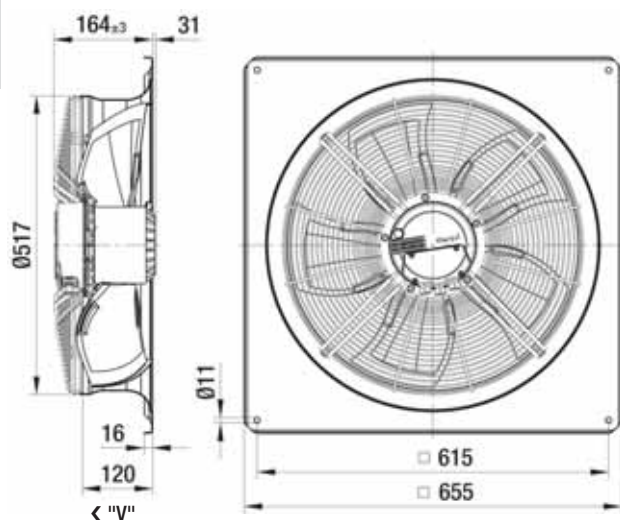
Without attachments



Type	Mass [kg]
A3G 500-AE33 -11	8.7
A3G 500-AE38 -06	8.7
A3G 500-AE33 -01	8.7



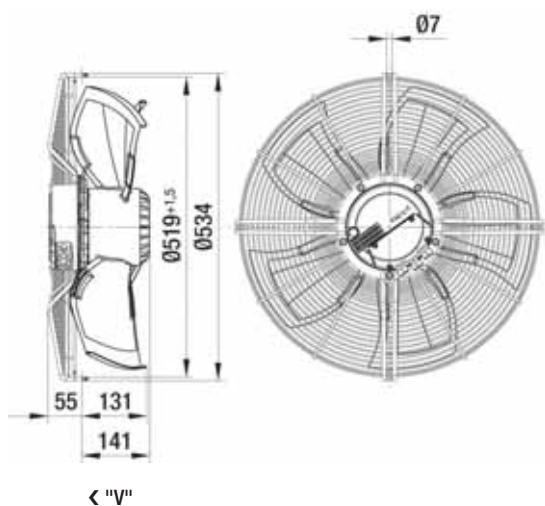
With full square nozzle



Type	Mass [kg]
W3G 500-CE33 -11	16.2
W3G 500-CE38 -06	16.2
W3G 500-CE33 -01	16.2



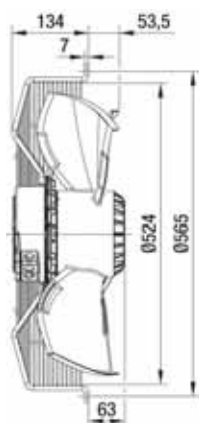
With guard grille for full nozzle



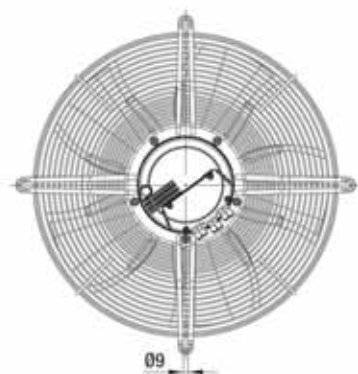
Type	Mass [kg]
S3G 500-BE33 -11	11.2
S3G 500-BE38 -06	11.2
S3G 500-BE33 -01	11.2



With guard grille for short nozzle



< "V"



Type	Mass [kg]
S3G 500-AE33 -11	12.4
S3G 500-AE38 -06	12.4
S3G 500-AE33 -01	12.4

EC axial fans mains-powered

S series, Ø 560



- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: PA plastic
Rotor: Cast-in with PA plastic
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:** "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

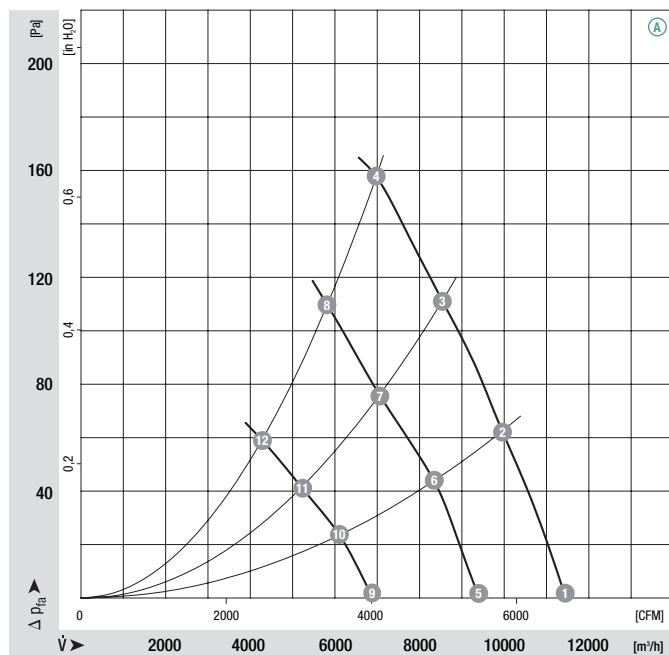
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	kW	A	Pa	°C	p. 427
*3G 560	M3G 112-GA	Ⓐ	1~ 200-277	50/60	1160	0.79	3.50	155	-25 to +60	L1)

subject to alterations

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

Curves



	n	P ₁	I	L _{wA}	η _{HL}
	[rpm]	[kW]	[A]	[dB(A)]	[%]
Ⓐ 1	1160	0.66	3.00	77	—
Ⓐ 2	1160	0.73	3.30	80	82
Ⓐ 3	1150	0.77	3.40	80	74
Ⓐ 4	1160	0.79	3.50	80	65
Ⓐ 5	970	0.35	1.60	73	—
Ⓐ 6	950	0.39	1.80	75	92
Ⓐ 7	930	0.40	1.80	74	82
Ⓐ 8	940	0.41	1.90	74	72
Ⓐ 9	680	0.14	0.70	67	—
Ⓐ 10	690	0.16	0.80	67	96
Ⓐ 11	680	0.17	0.80	65	88
Ⓐ 12	680	0.17	0.80	66	76

- **Technical features:**
 - PFC (active)
 - 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
- **EMC:** Interference emission acc. to EN 61000-6-4 (industrial environment)
Interference immunity acc. to EN 61000-6-2 (industrial environment)
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE, UL, CSA, GOST; CCC is applied for
- Line undervoltage detection
- Motor current limitation
- Over-temperature protected electronics / motor
- Locked rotor protection
- Soft start

Direction of air flow				
				
				
				
	< "V"	< "V"	< "V"	< "V"
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle
"V"	A3G 560-AE41 -11	W3G 560-CE41 -11	S3G 560-BE41 -11	S3G 560-AE41 -11

EC axial fans mains-powered

S series, Ø 560

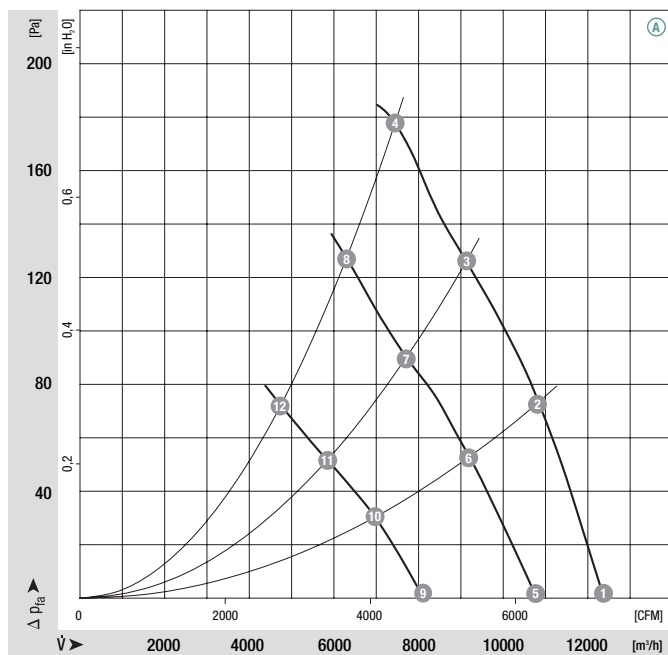


- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: PA plastic
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "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		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
Type	Motor	VAC	Hz	rpm	kW	A	Pa	°C	p. 427	
*3G 560	M3G 112-GA	A	3~ 200-240	50/60	1260	0.97	3.20	180	-25 to +60	L2)
*3G 560	M3G 112-GA	B	3~ 380-480	50/60	1260	0.97	1.60	180	-25 to +60	L2)

subject to alterations (1) Nominal data in operating point with maximum load and 200 or 400 VAC

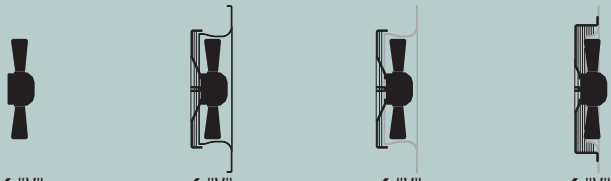
Curves



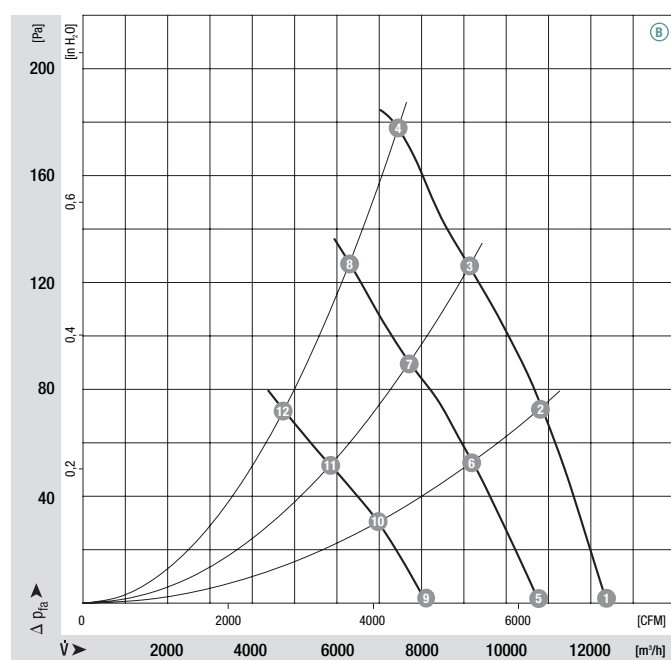
	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]	η _{HL} [%]
A 1	1260	0.81	2.80	77	—
A 2	1260	0.92	3.20	80	75
A 3	1260	0.96	3.20	81	65
A 4	1260	0.97	3.20	83	58
A 5	1080	0.50	2.00	73	—
A 6	1060	0.53	2.00	75	80
A 7	1050	0.54	2.00	76	71
A 8	1040	0.54	2.00	78	63
A 9	800	0.22	1.00	67	—
A 10	790	0.24	1.00	68	86
A 11	780	0.24	1.00	69	75
A 12	780	0.24	1.00	69	66

Technical features:

- 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 / phase failure detection
 - Motor current limitation
 - Over-temperature protected electronics / motor
 - Locked rotor protection
 - Soft start
- **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
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE, UL, CSA, GOST; CCC is applied for

Direction of air flow				
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle
"V"	A3G 560-AE43 -06	W3G 560-CE43 -06	S3G 560-BE43 -06	S3G 560-AE43 -06
"V"	A3G 560-AE32 -01	W3G 560-CE32 -01	S3G 560-BE32 -01	S3G 560-AE32 -01

Curves



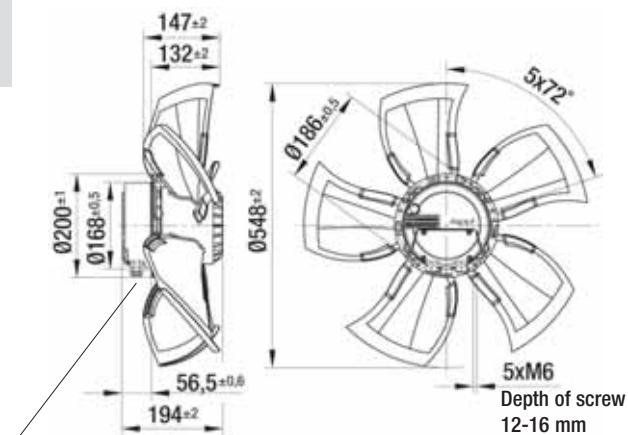
	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]	η_{HL} [%]
1	1260	0.81	1.40	77	—
2	1260	0.92	1.60	80	75
3	1260	0.96	1.60	81	65
4	1260	0.97	1.60	83	58
5	1080	0.50	1.00	73	—
6	1060	0.53	1.00	75	80
7	1050	0.54	1.00	76	71
8	1040	0.54	1.00	78	63
9	800	0.22	0.50	67	—
10	790	0.24	0.50	68	86
11	780	0.24	0.50	69	75
12	780	0.24	0.50	69	66

EC axial fans mains-powered

S series, Ø 560, drawings for direction of air flow "V"



Without attachments

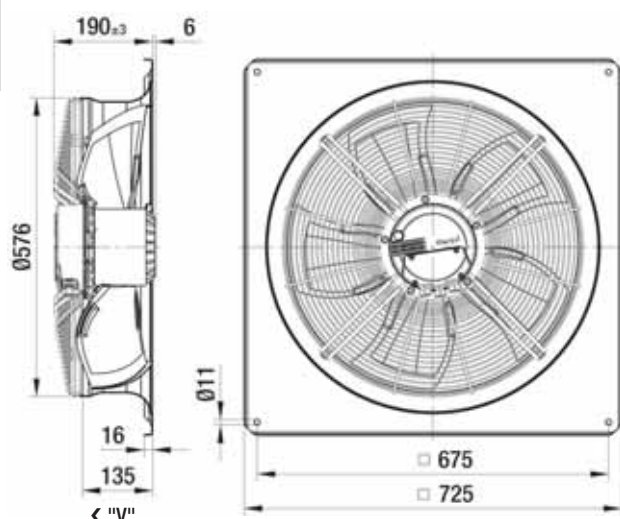


< "V"

Type	Mass [kg]
A3G 560-AE41 -11	8.9
A3G 560-AE43 -06	8.9
A3G 560-AE32 -01	8.9



With full square nozzle

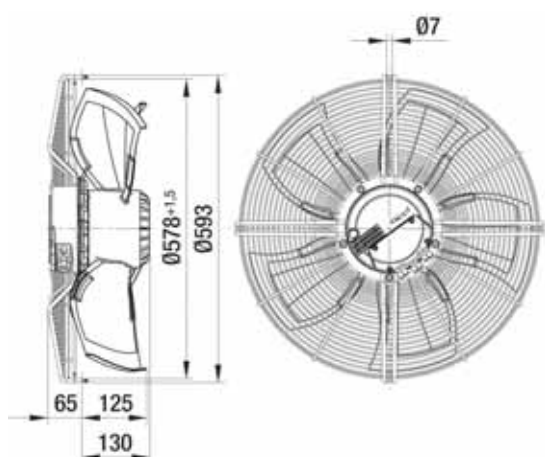


< "V"

Type	Mass [kg]
W3G 560-CE41 -11	18.0
W3G 560-CE43 -06	18.0
W3G 560-CE32 -01	18.0



With guard grille for full nozzle

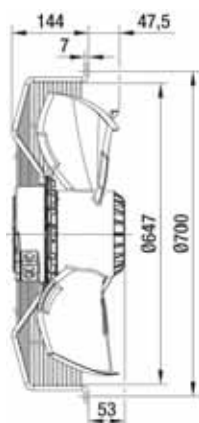


< "V"

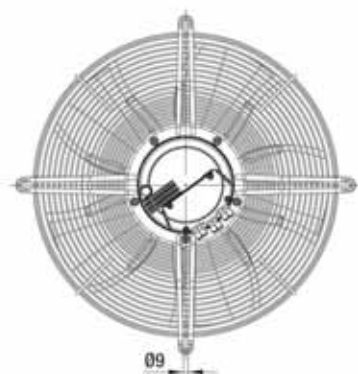
Type	Mass [kg]
S3G 560-BE41 -11	11.9
S3G 560-BE43 -06	11.9
S3G 560-BE32 -01	11.9



With guard grille for short nozzle



< "V"



Type	Mass [kg]
S3G 560-AE41 -11	13.6
S3G 560-AE43 -06	13.6
S3G 560-AE32 -01	13.6

EC axial fans mains-powered

S series, Ø 630



- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: PA plastic
Rotor: Cast-in with PA plastic
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:** "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

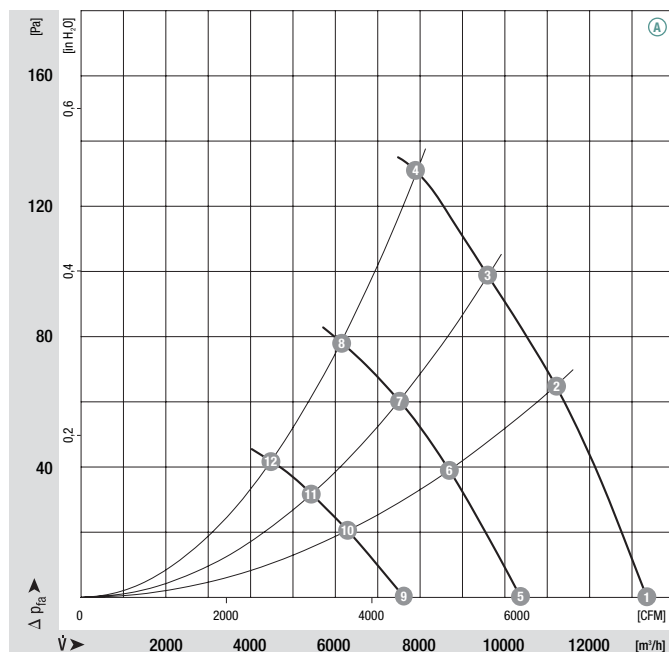
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	kW	A	Pa	°C	p. 427
*3G 630	M3G 112-GA	Ⓐ	1~ 200-277	50/60	970	0.73	3.30	135	-25 to +60	L1)

subject to alterations

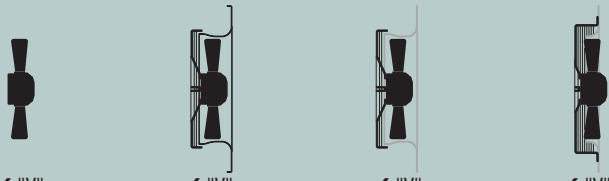
(1) Nominal data in operating point with maximum load and 230 VAC

Curves



	n	P ₁	I	L _{wA}	η _{HL}
	[rpm]	[kW]	[A]	[dB(A)]	[%]
Ⓐ 1	970	0.55	2.60	74	—
Ⓐ 2	970	0.66	3.00	76	88
Ⓐ 3	960	0.69	3.20	77	79
Ⓐ 4	970	0.73	3.30	79	68
Ⓐ 5	750	0.25	1.20	68	—
Ⓐ 6	750	0.30	1.40	70	92
Ⓐ 7	750	0.32	1.50	71	83
Ⓐ 8	750	0.33	1.60	72	70
Ⓐ 9	540	0.11	0.70	61	—
Ⓐ 10	540	0.13	0.70	63	92
Ⓐ 11	540	0.14	0.60	63	85
Ⓐ 12	540	0.14	0.70	63	71

- **Technical features:**
 - PFC (active)
 - 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 ebus
 - Alarm relay
- **EMC:** Interference emission acc. to EN 61000-6-4 (industrial environment)
Interference immunity acc. to EN 61000-6-2 (industrial environment)
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE, UL, CSA, GOST; CCC is applied for
- Line undervoltage detection
- Motor current limitation
- Over-temperature protected electronics / motor
- Locked rotor protection
- Soft start

Direction of air flow				
	< "V"	< "V"	< "V"	< "V"
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle
	"V"	A3G 630-AE37 -11	W3G 630-CE37 -11	S3G 630-BE37 -11

EC axial fans mains-powered

S series, Ø 630

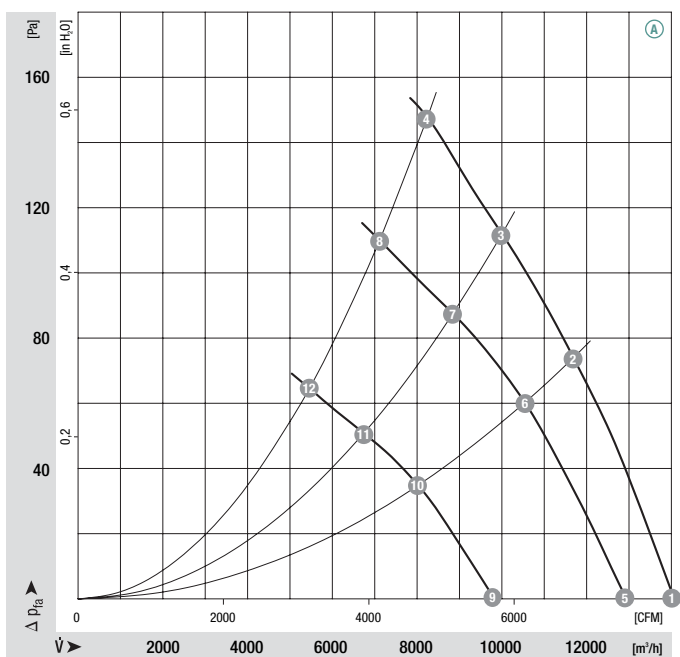


- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: PA plastic
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "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		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	kW	A	Pa	°C	p. 427
*3G 630	M3G 112-GA	A	3~ 200-240	50/60	1010	0.83	3.00	150	-25 to +60	L2)
*3G 630	M3G 112-GA	B	3~ 380-480	50/60	1010	0.83	1.50	150	-25 to +60	L2)

subject to alterations (1) Nominal data in operating point with maximum load and 200 or 400 VAC

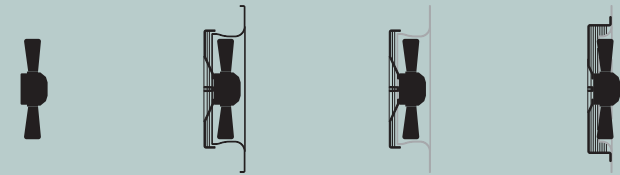
Curves



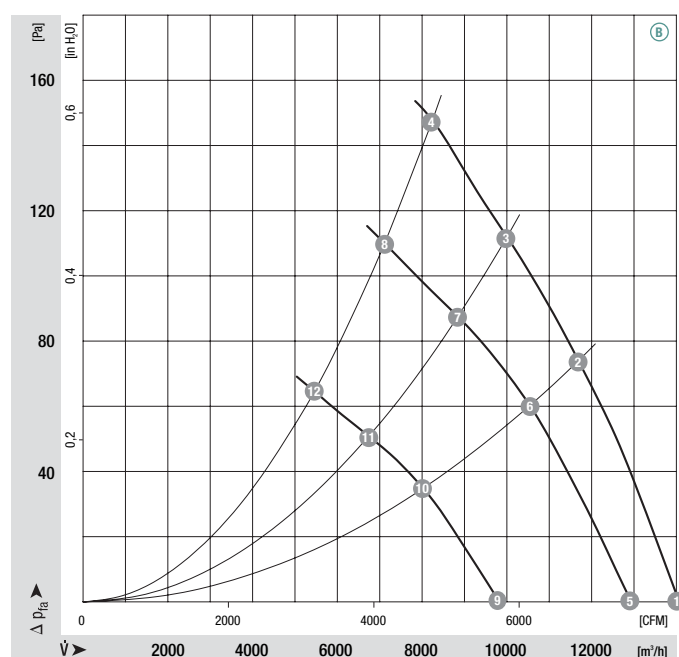
	n	P ₁	I	Lw _A	η _{IL}
	[rpm]	[kW]	[A]	[dB(A)]	[%]
A 1	1010	0.62	2.20	75	—
A 2	1010	0.74	2.60	77	87
A 3	1010	0.78	2.80	78	77
A 4	1010	0.83	3.00	79	65
A 5	920	0.45	1.80	73	—
A 6	900	0.51	2.00	75	92
A 7	880	0.49	1.80	75	83
A 8	860	0.51	2.00	76	68
A 9	680	0.20	0.80	66	—
A 10	680	0.22	1.00	67	49
A 11	660	0.22	1.00	67	91
A 12	650	0.23	1.00	68	74

Technical features:

- 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 / phase failure detection
 - Motor current limitation
 - Over-temperature protected electronics / motor
 - Locked rotor protection
 - Soft start
- **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
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE, UL, CSA, GOST; CCC is applied for

Direction of air flow				
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle
"V"	A3G 630-AE42 -06	W3G 630-CE42 -06	S3G 630-BE42 -06	S3G 630-AE42 -06
"V"	A3G 630-AE31 -01	W3G 630-CE31 -01	S3G 630-BE31 -01	S3G 630-AE31 -01

Curves



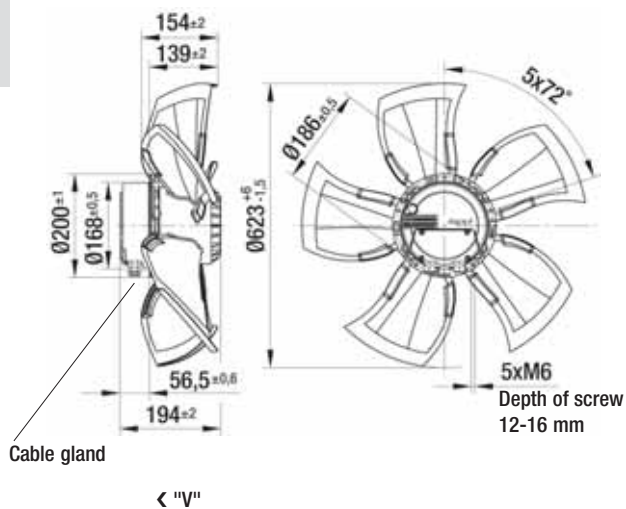
	n	P ₁	I	L _{wA}	η _{HL}
	[rpm]	[kW]	[A]	[dB(A)]	[%]
①	1010	0.62	1.10	75	—
②	1010	0.74	1.30	77	87
③	1010	0.78	1.40	78	77
④	1010	0.83	1.50	79	65
⑤	920	0.45	0.90	73	—
⑥	900	0.51	1.00	75	92
⑦	880	0.49	0.90	75	83
⑧	860	0.51	1.00	76	68
⑨	680	0.20	0.40	66	—
⑩	680	0.22	0.50	67	49
⑪	660	0.22	0.50	67	91
⑫	650	0.23	0.50	68	74

EC axial fans mains-powered

S series, Ø 630, drawings for direction of air flow "V"



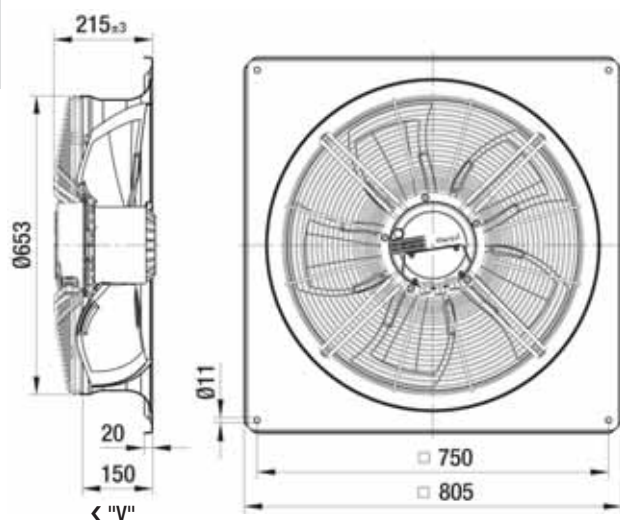
Without attachments



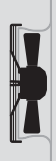
Type	Mass [kg]
A3G 630-AE37 -11	9.1
A3G 630-AE42 -06	9.1
A3G 630-AE31 -01	9.1



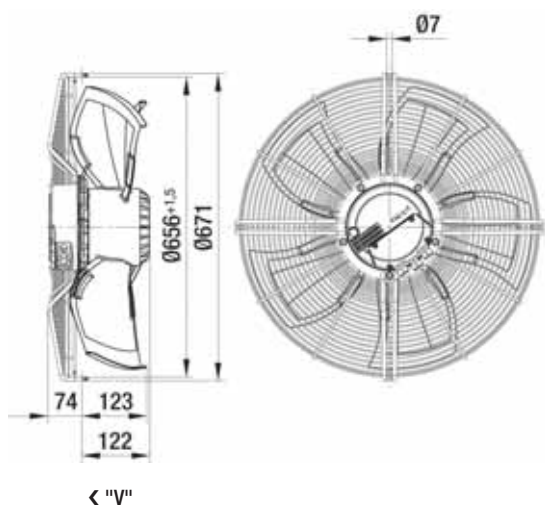
With full square nozzle



Type	Mass [kg]
W3G 630-CE37 -11	20.4
W3G 630-CE42 -06	20.4
W3G 630-CE31 -01	20.4



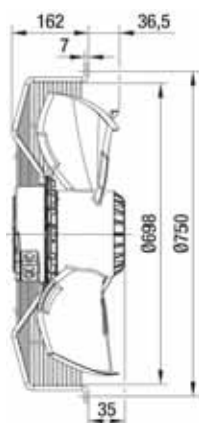
With guard grille for full nozzle



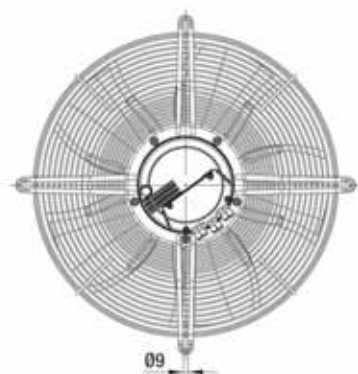
Type	Mass [kg]
S3G 630-BE37 -11	12.8
S3G 630-BE42 -06	12.8
S3G 630-BE31 -01	12.8



With guard grille for short nozzle



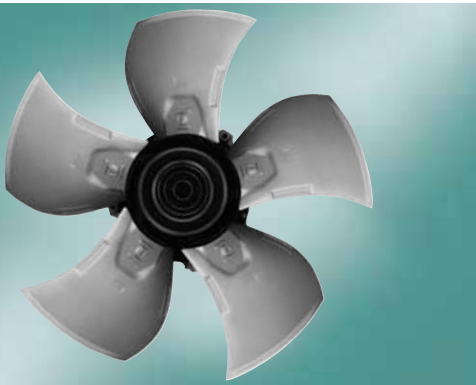
< "V"



Type	Mass [kg]
S3G 630-AE37 -11	14.6
S3G 630-AE42 -06	14.6
S3G 630-AE31 -01	14.6

EC axial fans mains-powered

S series, Ø 630



- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Die-cast aluminium
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Dir. of air flow "V" clockwise, "A" counter-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

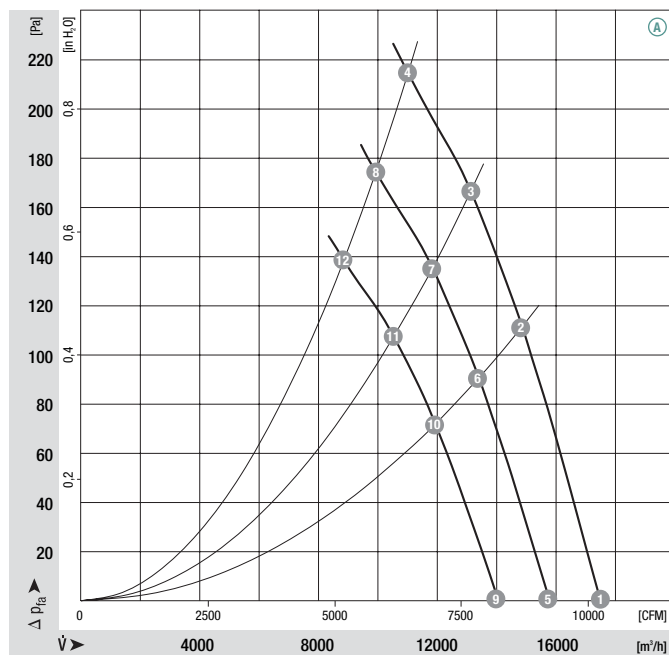
Nominal data

Type	Motor	Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
				VAC	Hz	rpm	kW	A	Pa	°C	p. 428
*3G 630	M3G 150-FF	0°	A	3~ 200-240	50/60	1220	1.70	5.20	215	-25 to +60	M)
*3G 630	M3G 150-FF	0°	B	3~ 380-480	50/60	1220	1.70	2.60	215	-25 to +60	M)

subject to alterations

(1) Nominal data in operating point with maximum load and 200 or 400 VAC

Curves



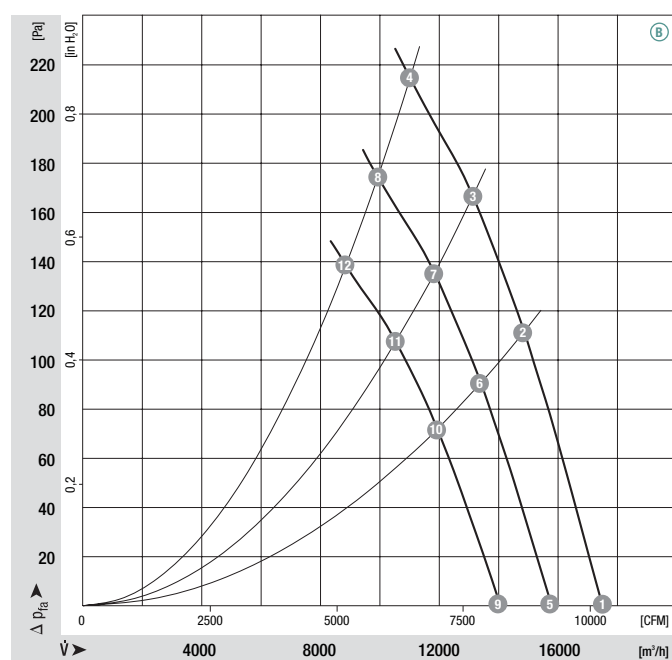
	n [rpm]	P ₁ [kW]	I [A]	Lw _A [dB(A)]	η _{HL} [%]
(A) 1	1220	1.30	4.00	77	—
(A) 2	1220	1.52	4.80	76	77
(A) 3	1220	1.60	5.00	78	70
(A) 4	1220	1.70	5.20	81	58
(A) 5	1100	0.95	3.00	75	—
(A) 6	1100	1.11	3.60	74	77
(A) 7	1100	1.18	3.60	76	70
(A) 8	1100	1.24	3.80	79	58
(A) 9	980	0.67	2.20	72	—
(A) 10	980	0.79	2.40	72	77
(A) 11	980	0.83	2.60	73	70
(A) 12	980	0.88	2.80	76	58

Technical features:

- 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 / phase failure detection
 - Motor current limitation
 - Over-temperature protected electronics / motor
 - Locked rotor protection
 - Soft start
- **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
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** UL, CSA, GOST;  also VDE

	Direction of air flow				
	< "V"/"A" >	< "V"/"A" >	< "V" >	< "V" >	"A" >
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle	With guard grille for full nozzle
"V"	A3G 630-AG12 -13	W3G 630-CG12 -13	S3G 630-BG12 -13	S3G 630-AG12 -13	—
"A"	A3G 630-AG12 -14	W3G 630-CG12 -14	—	—	S3G 630-CG12 -14
"V"	A3G 630-AG08 -03	W3G 630-CG08 -03	S3G 630-BG08 -03	S3G 630-AG08 -03	—
"A"	A3G 630-AG08 -04	W3G 630-CG08 -04	—	—	S3G 630-CG08 -04

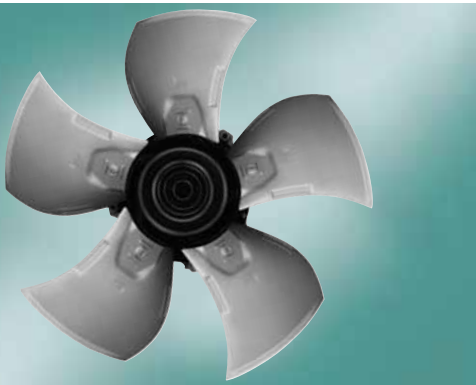
Curves



	n	P ₁	I	L _{wA}	η_{HL}
	[rpm]	[kW]	[A]	[dB(A)]	[%]
 1	1220	1.30	2.00	77	—
 2	1220	1.52	2.40	76	77
 3	1220	1.60	2.50	78	70
 4	1220	1.70	2.60	81	58
 5	1100	0.95	1.50	75	—
 6	1100	1.11	1.80	74	77
 7	1100	1.18	1.80	76	70
 8	1100	1.24	1.90	79	58
 9	980	0.67	1.10	72	—
 10	980	0.79	1.20	72	77
 11	980	0.83	1.30	73	70
 12	980	0.88	1.40	76	58

EC axial fans mains-powered

S series, Ø 630



- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Die-cast aluminium
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Dir. of air flow "V" clockwise, "A" counter-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

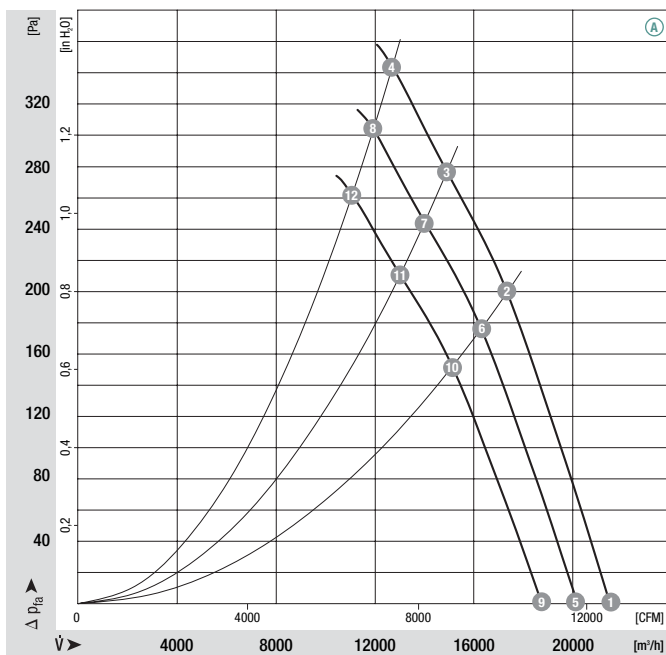
Nominal data

Type	Motor	Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
				VAC	Hz	rpm	kW	A	Pa	°C	p. 428
*3G 630	M3G 150-IF	0°	A	3~ 200-240	50/60	1490	3.10	9.40	340	-25 to +60	M)
*3G 630	M3G 150-IF	0°	B	3~ 380-480	50/60	1490	3.10	4.70	340	-25 to +60	M)

subject to alterations

(1) Nominal data in operating point with maximum load and 200 or 400 VAC

Curves



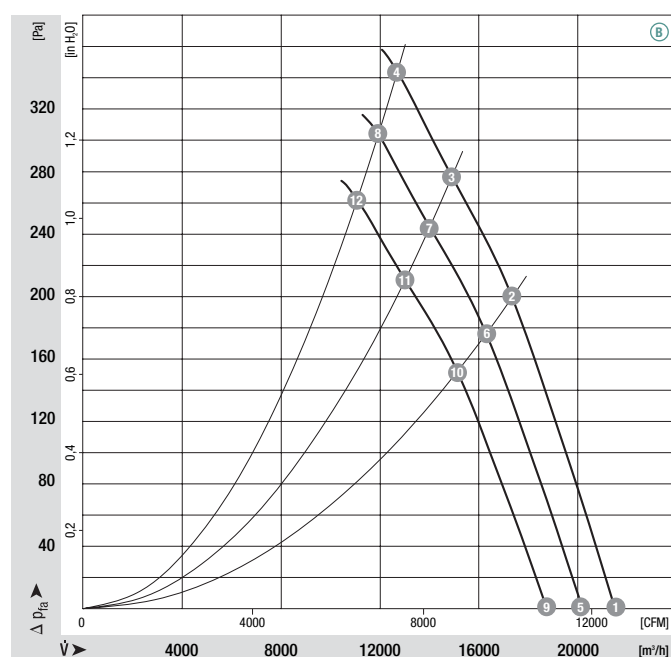
	n	P ₁	I	Lw _A	η _{IL}
	[rpm]	[kW]	[A]	[dB(A)]	[%]
A 1	1490	2.35	7.20	82	—
A 2	1490	2.77	8.40	82	74
A 3	1490	2.94	9.00	84	64
A 4	1490	3.10	9.40	87	55
A 5	1400	1.95	6.00	80	—
A 6	1400	2.30	7.00	80	74
A 7	1400	2.44	7.40	83	64
A 8	1400	2.55	7.80	85	55
A 9	1300	1.56	4.80	79	—
A 10	1300	1.84	5.60	79	74
A 11	1300	1.95	6.00	81	64
A 12	1300	2.04	6.20	84	55

Technical features:

- 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 ebus
 - Alarm relay
 - Line undervoltage / phase failure detection
 - Motor current limitation
 - Over-temperature protected electronics / motor
 - Locked rotor protection
 - Soft start
- **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
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** UL, CSA, GOST;  also VDE

	Direction of air flow				
	< "V"/"A" >	< "V"/"A" >	< "V" >	< "V" >	< "A" >
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle	With guard grille for full nozzle
"V"	A3G 630-AH07 -13	W3G 630-CH07 -13	S3G 630-BH07 -13	S3G 630-AH07 -13	—
"A"	A3G 630-AH07 -14	W3G 630-CH07 -14	—	—	S3G 630-CH07 -14
"V"	A3G 630-AH02 -03	W3G 630-CH02 -03	S3G 630-BH02 -03	S3G 630-AH02 -03	—
"A"	A3G 630-AH02 -04	W3G 630-CH02 -04	—	—	S3G 630-CH02 -04

Curves



	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]	η _{HL} [%]
 1	1490	2.35	3.60	82	—
 2	1490	2.77	4.20	82	74
 3	1490	2.94	4.50	84	64
 4	1490	3.10	4.70	87	55
 5	1400	1.95	3.00	80	—
 6	1400	2.30	3.50	80	74
 7	1400	2.44	3.70	83	64
 8	1400	2.55	3.90	85	55
 9	1300	1.56	2.40	79	—
 10	1300	1.84	2.80	79	74
 11	1300	1.95	3.00	81	64
 12	1300	2.04	3.10	84	55

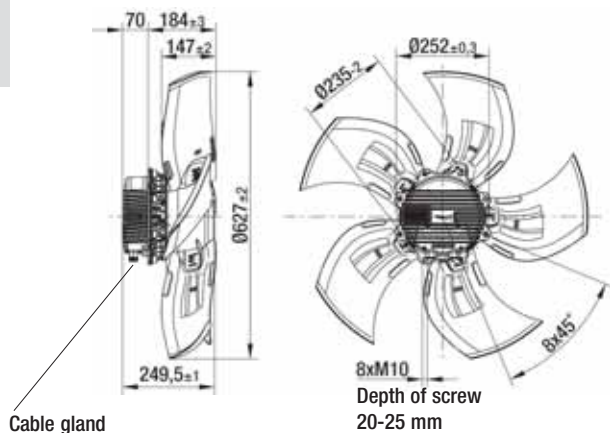
EC axial fans mains-powered

S series, Ø 630, drawings for direction of air flow "V"



Without attachments

Type	Mass [kg]
A3G 630-AG08 -03	23.0
A3G 630-AG12 -13	23.0
A3G 630-AH02 -03	26.0
A3G 630-AH07 -13	26.0

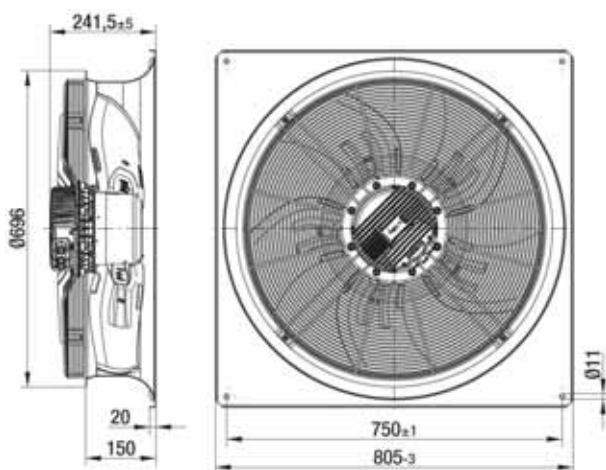


< "V"

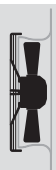


With full square nozzle

Type	Mass [kg]
W3G 630-CG08 -03	38.0
W3G 630-CG12 -13	38.0
W3G 630-CH02 -03	41.0
W3G 630-CH07 -13	41.0

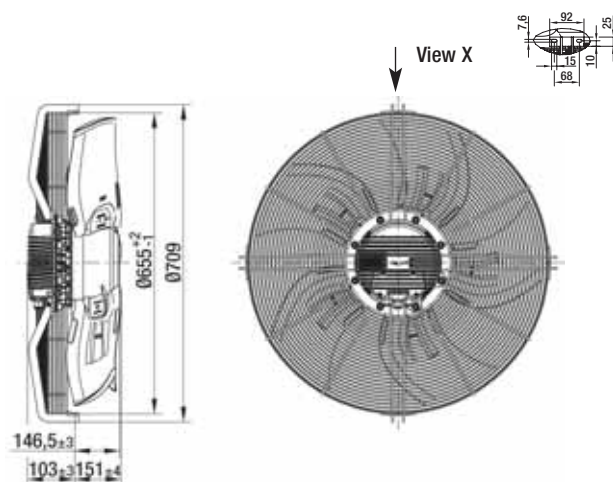


< "V"



With guard grille for full nozzle

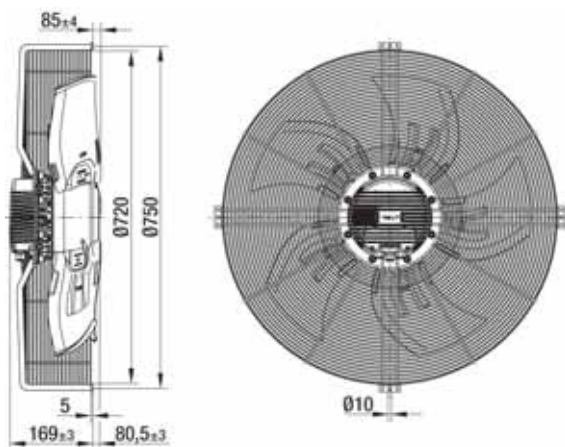
Type	Mass [kg]
S3G 630-BG08 -03	27.5
S3G 630-BG12 -13	27.5
S3G 630-BH02 -03	30.5
S3G 630-BH07 -13	30.5



< "V"



With guard grille for short nozzle



< "V"

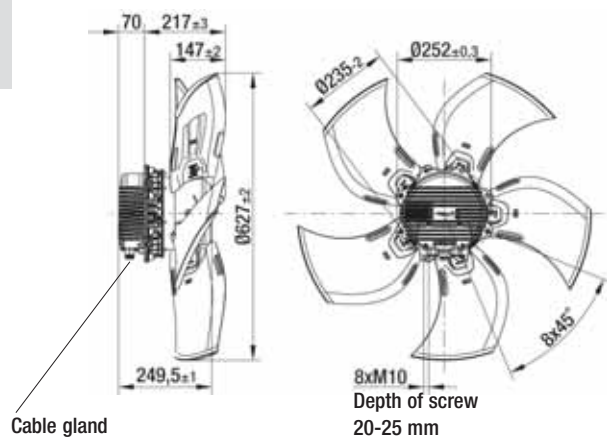
Type	Mass [kg]
S3G 630-AG08 -03	26.5
S3G 630-AG12 -13	26.5
S3G 630-AH02 -03	29.5
S3G 630-AH07 -13	29.5

EC axial fans mains-powered

S series, Ø 630, drawings for direction of air flow "A"



Without attachments

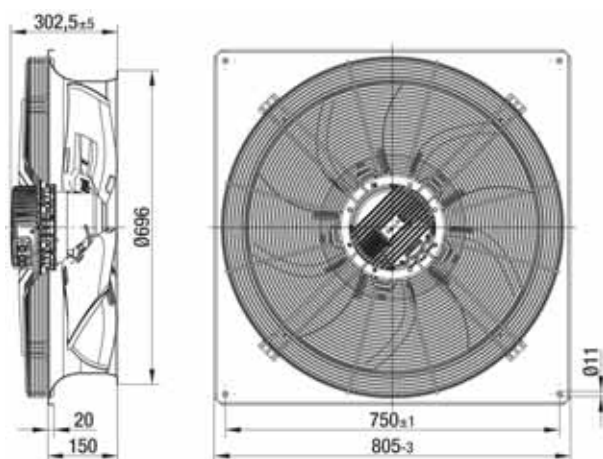


"A" >

Type	Mass [kg]
A3G 630-AG08 -04	23.0
A3G 630-AG12 -14	23.0
A3G 630-AH02 -04	26.0
A3G 630-AH07 -14	26.0



With full square nozzle

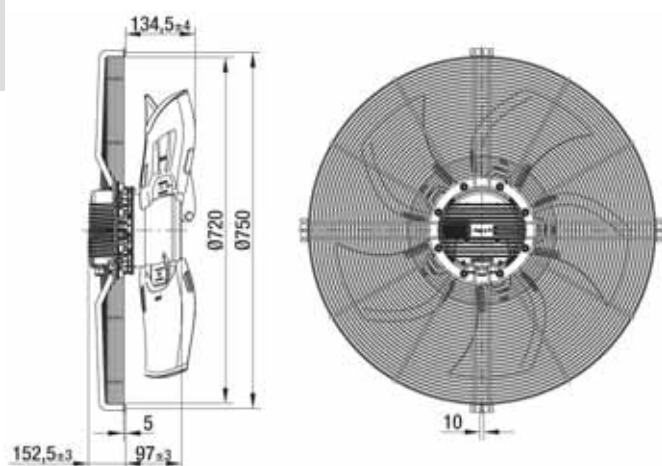


"A" >

Type	Mass [kg]
W3G 630-CG08 -04	39.0
W3G 630-CG12 -14	39.0
W3G 630-CH02 -04	42.0
W3G 630-CH07 -14	42.0



With guard grille for full nozzle



"A" >

Type	Mass [kg]
S3G 630-CG08 -04	28.5
S3G 630-CG12 -14	28.5
S3G 630-CH02 -04	31.5
S3G 630-CH07 -14	31.5

Contacts	Technology	Accessories	EC-SYSTEMS	ESM	Q-motor	EC axial S series	EC axial fans	AC axial A series	AC axial K series	AC axial S series	AC axial fans	General information
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EC axial fans mains-powered

S series, Ø 650



- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: PA plastic
Rotor: Cast-in with PA plastic
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:** "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

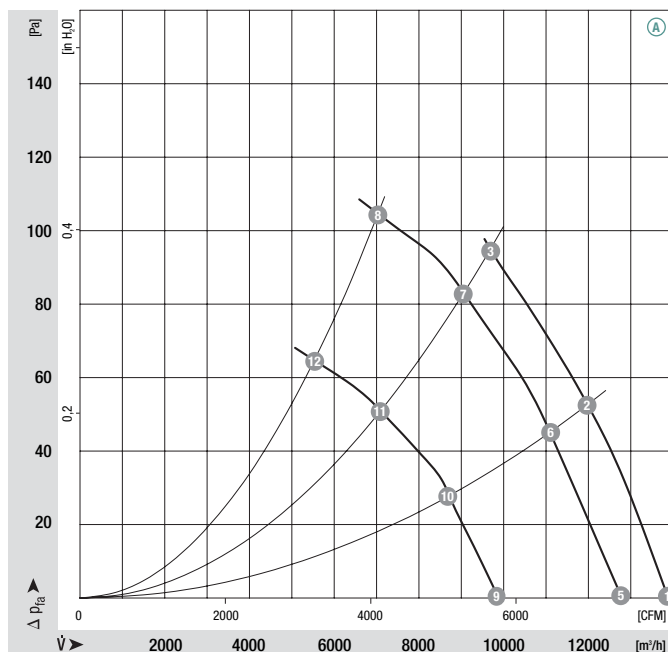
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	kW	A	Pa	°C	p. 427
*3G 650	M3G 112-GA	Ⓐ	1~ 200-277	50/60	890	0.66	3.00	90	-25 to +60	L1)

subject to alterations

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

Curves



	n [rpm]	P ₁ [kW]	I [A]	Lw _A [dB(A)]	η _{HL} [%]
Ⓐ 1	910	0.55	2.50	76	—
Ⓐ 2	900	0.63	2.90	77	90
Ⓐ 3	890	0.66	3.00	79	78
Ⓐ 4	—	—	—	—	—
Ⓐ 5	830	0.41	1.90	73	—
Ⓐ 6	830	0.48	2.20	75	91
Ⓐ 7	820	0.49	2.30	76	84
Ⓐ 8	810	0.51	2.30	76	65
Ⓐ 9	650	0.19	0.90	67	—
Ⓐ 10	640	0.23	1.10	68	95
Ⓐ 11	640	0.24	1.10	69	86
Ⓐ 12	630	0.25	1.20	70	67

- **Technical features:**
 - PFC (active)
 - 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
- **EMC:** Interference emission acc. to EN 61000-6-4 (industrial environment)
Interference immunity acc. to EN 61000-6-2 (industrial environment)
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE, UL, CSA, GOST; CCC is applied for
- Line undervoltage detection
- Motor current limitation
- Over-temperature protected electronics / motor
- Locked rotor protection
- Soft start

Direction of air flow				
	< "V"	< "V"	< "V"	< "V"
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle
"V"	A3G 650-AE34 -11	W3G 650-CE34 -01	S3G 650-BE34 -11	S3G 650-AE34 -11

EC axial fans mains-powered

S series, Ø 650

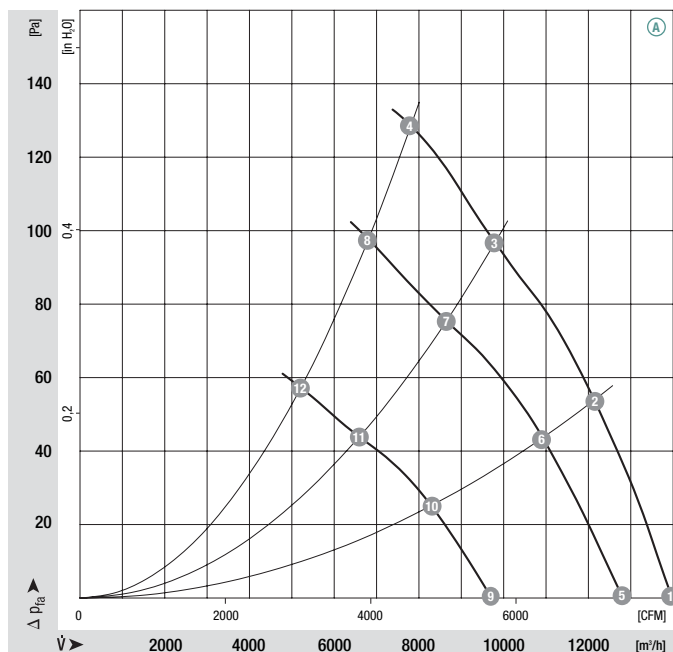


- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: PA plastic
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "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		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	kW	A	Pa	°C	p. 427
*3G 650	M3G 112-GA	Ⓐ	3~ 200-240	50/60	910	0.72	2.60	125	-25 to +60	L2)
*3G 650	M3G 112-GA	Ⓑ	3~ 380-480	50/60	910	0.72	1.30	125	-25 to +60	L2)

subject to alterations (1) Nominal data in operating point with maximum load and 200 or 400 VAC

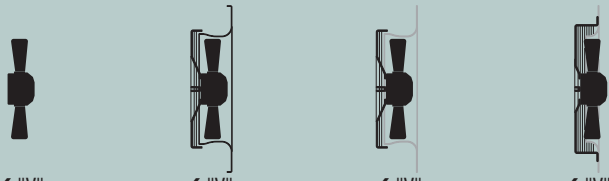
Curves



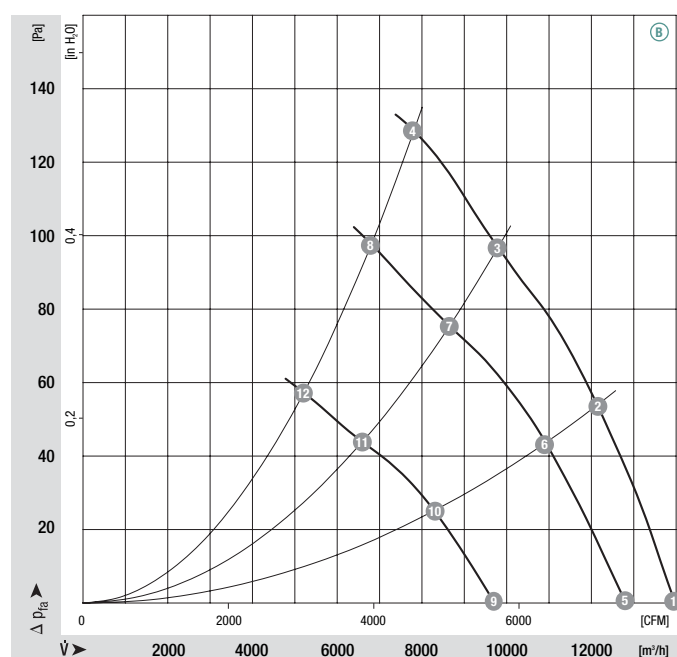
	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]	η _{HL} [%]
Ⓐ 1	910	0.53	1.80	75	—
Ⓐ 2	910	0.62	2.20	77	87
Ⓐ 3	910	0.66	2.40	78	74
Ⓐ 4	910	0.72	2.60	79	60
Ⓐ 5	830	0.39	1.60	73	—
Ⓐ 6	810	0.43	1.60	74	91
Ⓐ 7	790	0.43	1.60	74	79
Ⓐ 8	790	0.46	1.80	75	62
Ⓐ 9	630	0.17	0.80	66	—
Ⓐ 10	620	0.19	0.80	67	94
Ⓐ 11	600	0.19	0.80	67	83
Ⓐ 12	610	0.21	0.80	67	63

Technical features:

- 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 / phase failure detection
 - Motor current limitation
 - Over-temperature protected electronics / motor
 - Locked rotor protection
 - Soft start
- **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
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE, UL, CSA, GOST; CCC is applied for

Direction of air flow				
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle
"V"	A3G 650-AE44 -06	W3G 650-CE44 -06	S3G 650-BE44 -06	S3G 650-AE44 -08
"V"	A3G 650-AE35 -01	W3G 650-CE35 -01	S3G 650-BE35 -01	S3G 650-AE35 -01

Curves



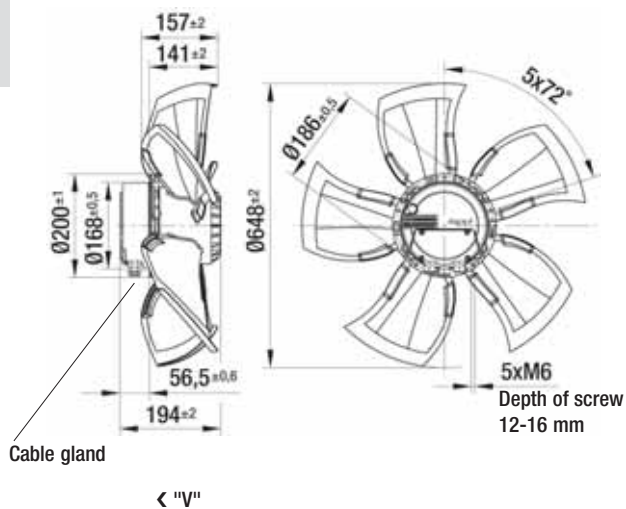
	n	P ₁	I	L _{wA}	η _{IL}
	[rpm]	[kW]	[A]	[dB(A)]	[%]
①	910	0.53	0.90	75	—
②	910	0.62	1.10	77	87
③	910	0.66	1.20	78	74
④	910	0.72	1.30	79	60
⑤	830	0.39	0.80	73	—
⑥	810	0.43	0.80	74	91
⑦	790	0.43	0.80	74	79
⑧	790	0.46	0.90	75	62
⑨	630	0.17	0.40	66	—
⑩	620	0.19	0.40	67	94
⑪	600	0.19	0.40	67	83
⑫	610	0.21	0.40	67	63

EC axial fans mains-powered

S series, Ø 650, drawings for direction of air flow "V"



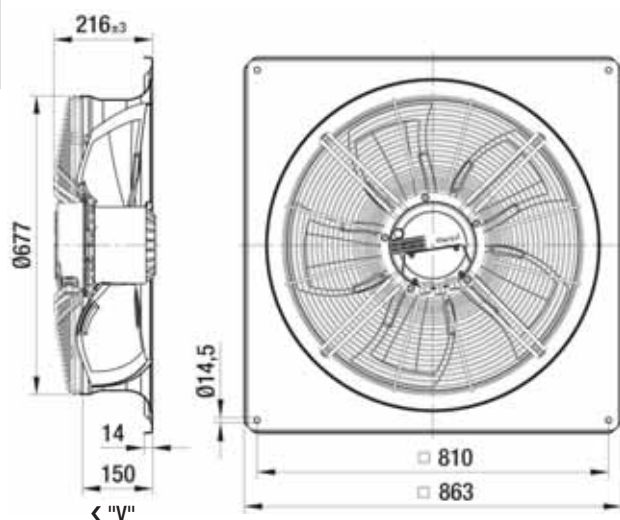
Without attachments



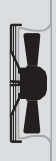
Type	Mass [kg]
A3G 650-AE34 -11	9.2
A3G 650-AE44 -06	9.2
A3G 650-AE35 -01	9.2



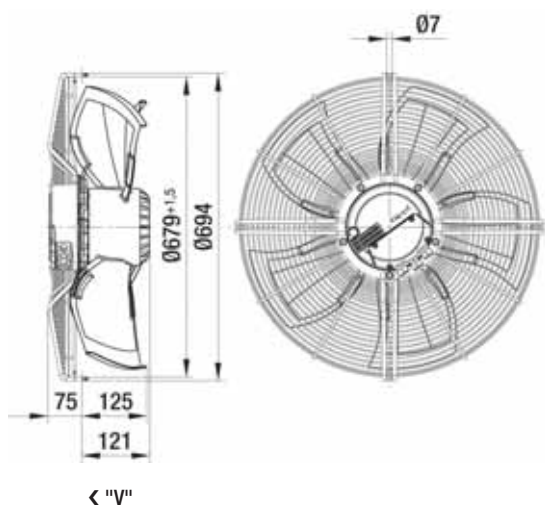
With full square nozzle



Type	Mass [kg]
W3G 650-CE34 -01	21.5
W3G 650-CE44 -06	21.5
W3G 650-CE35 -01	21.5



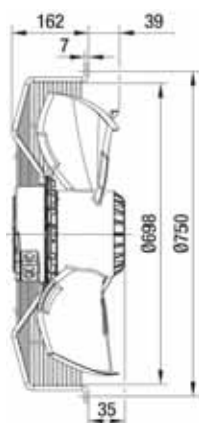
With guard grille for full nozzle



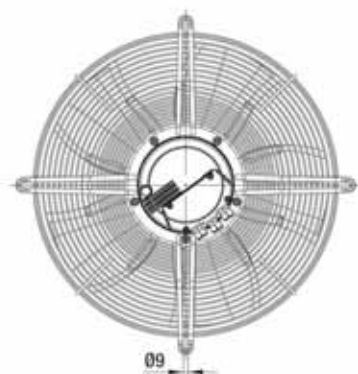
Type	Mass [kg]
S3G 650-BE34 -11	13.1
S3G 650-BE44 -06	13.1
S3G 650-BE35 -01	13.1



With guard grille for short nozzle



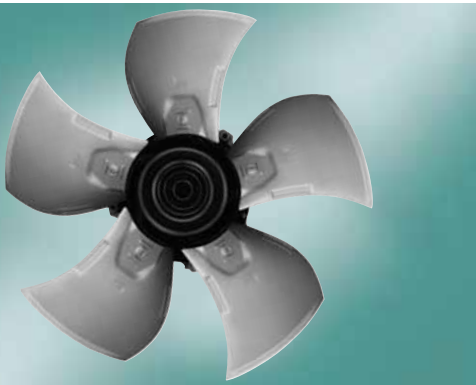
< "V"



Type	Mass [kg]
S3G 650-AE34 -11	14.7
S3G 650-AE44 -08	14.7
S3G 650-AE35 -01	14.7

EC axial fans mains-powered

S series, Ø 650



- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Die-cast aluminium
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Dir. of air flow "V" clockwise, "A" counter-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

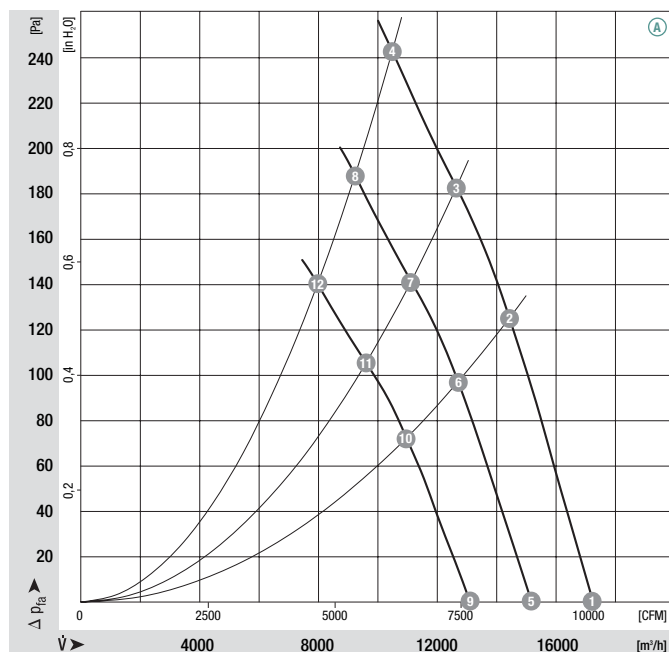
Nominal data

Type	Motor	Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
				VAC	Hz	rpm	kW	A	Pa	°C	p. 428
*3G 650	M3G 150-FF	-5°	A	3~ 200-240	50/60	1250	1.65	5.20	240	-25 to +60	M)
*3G 650	M3G 150-FF	-5°	B	3~ 380-480	50/60	1250	1.65	2.60	240	-25 to +60	M)

subject to alterations

(1) Nominal data in operating point with maximum load and 200 or 400 VAC

Curves



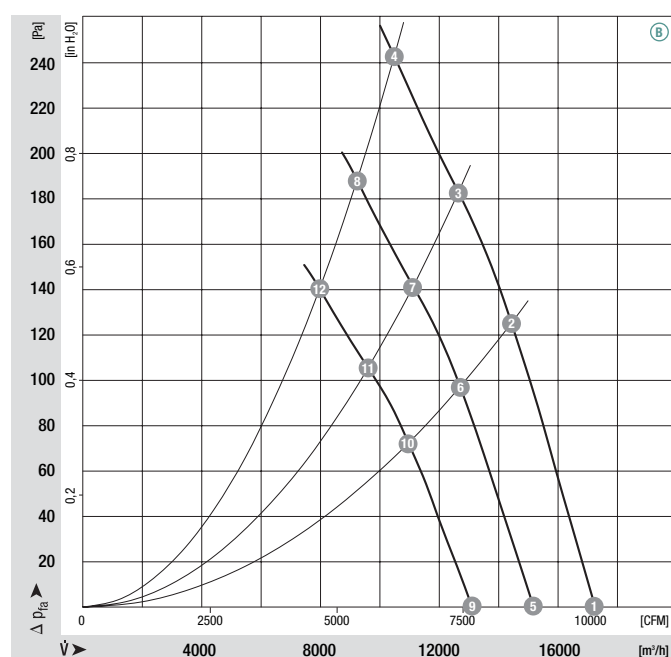
	n	P ₁	I	L _{wA}	η _{HL}
	[rpm]	[kW]	[A]	[dB(A)]	[%]
A 1	1250	1.07	3.20	78	—
A 2	1250	1.38	4.20	78	82
A 3	1250	1.52	4.60	80	71
A 4	1250	1.65	5.20	83	59
A 5	1100	0.73	2.20	76	—
A 6	1100	0.94	2.80	75	82
A 7	1100	1.03	3.20	77	71
A 8	1100	1.12	3.40	80	59
A 9	950	0.47	1.40	72	—
A 10	950	0.60	1.80	72	82
A 11	950	0.67	2.00	74	71
A 12	950	0.72	2.20	77	59

Technical features:

- 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 / phase failure detection
 - Motor current limitation
 - Over-temperature protected electronics / motor
 - Locked rotor protection
 - Soft start
- **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
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** UL, CSA, GOST;  also VDE

	Direction of air flow				
	< "V"/"A" >	< "V"/"A" >	< "V" >	< "V" >	"A" >
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle	With guard grille for full nozzle
"V"	A3G 650-AJ12 -13	W3G 650-CJ12 -13	S3G 650-BJ12 -13	—	—
"A"	A3G 650-AJ12 -14	W3G 650-CJ12 -14	—	—	S3G 650-CJ12 -14
"V"	A3G 650-AJ08 -03	W3G 650-CJ08 -03	S3G 650-BJ08 -03	—	—
"A"	A3G 650-AJ08 -04	W3G 650-CJ08 -04	—	—	S3G 650-CJ08 -04

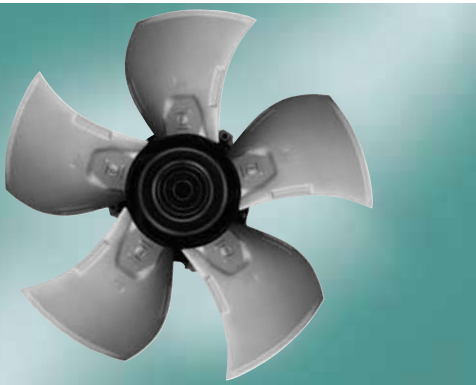
Curves



	n	P ₁	I	L _{wA}	η _{HL}
	[rpm]	[kW]	[A]	[dB(A)]	[%]
 1	1250	1.07	1.60	78	—
 2	1250	1.38	2.10	78	82
 3	1250	1.52	2.30	80	71
 4	1250	1.65	2.60	83	59
 5	1100	0.73	1.10	76	—
 6	1100	0.94	1.40	75	82
 7	1100	1.03	1.60	77	71
 8	1100	1.12	1.70	80	59
 9	950	0.47	0.70	72	—
 10	950	0.60	0.90	72	82
 11	950	0.67	1.00	74	71
 12	950	0.72	1.10	77	59

EC axial fans mains-powered

S series, Ø 650



- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Die-cast aluminium
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Dir. of air flow "V" clockwise, "A" counter-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

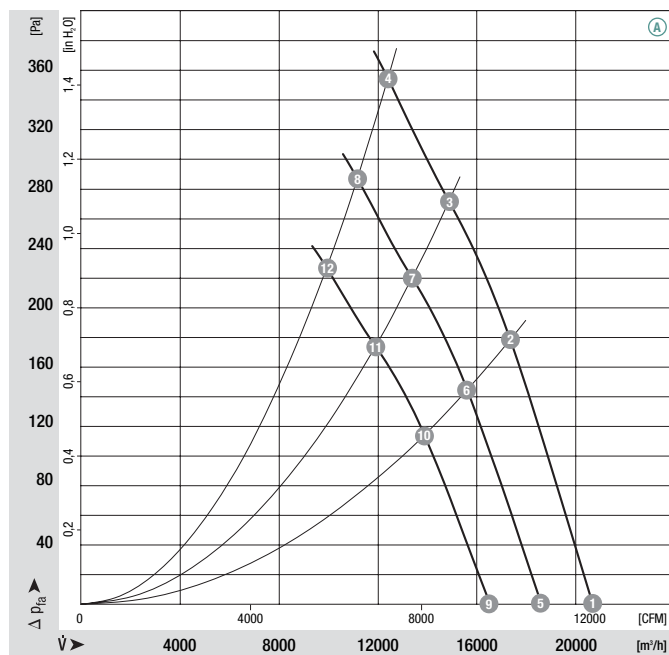
Nominal data

Type	Motor	Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
				VAC	Hz	rpm	kW	A	Pa	°C	p. 428
*3G 650	M3G 150-IF	-5°	A	3~ 200-240	50/60	1500	2.87	8.80	350	-25 to +60	M)
*3G 650	M3G 150-IF	-5°	B	3~ 380-480	50/60	1500	2.87	4.40	350	-25 to +60	M)

subject to alterations

(1) Nominal data in operating point with maximum load and 200 or 400 VAC

Curves



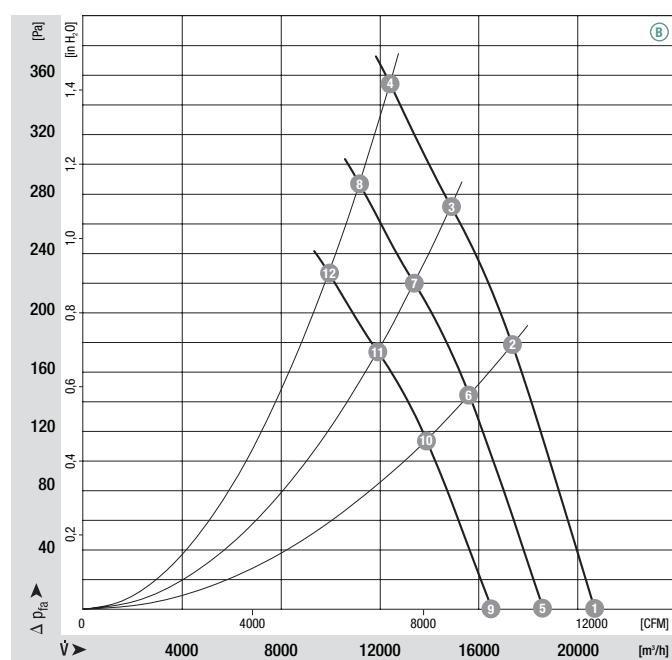
		n [rpm]	P ₁ [kW]	I [A]	Lw _A [dB(A)]	η _{HL} [%]
A	1	1500	1.86	5.60	82	—
A	2	1500	2.37	7.20	82	82
A	3	1500	2.65	8.00	84	70
A	4	1500	2.87	8.80	87	59
A	5	1350	1.35	4.20	80	—
A	6	1350	1.73	5.20	80	82
A	7	1350	1.93	5.80	82	70
A	8	1350	2.09	6.40	85	59
A	9	1200	0.95	3.00	78	—
A	10	1200	1.21	3.60	77	82
A	11	1200	1.35	4.20	79	70
A	12	1200	1.47	4.40	82	59

Technical features:

- 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 / phase failure detection
 - Motor current limitation
 - Over-temperature protected electronics / motor
 - Locked rotor protection
 - Soft start
- **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
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** UL, CSA, GOST;  also VDE

	Direction of air flow				
	< "V"/"A" >	< "V"/"A" >	< "V" >	< "V" >	"A" >
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle	With guard grille for full nozzle
"V"	A3G 650-AK07 -13	W3G 650-CK07 -13	S3G 650-BK07 -13	—	—
"A"	A3G 650-AK07 -14	W3G 650-CK07 -14	—	—	S3G 650-CK07 -14
"V"	A3G 650-AK02 -03	W3G 650-CK02 -03	S3G 650-BK02 -03	—	—
"A"	A3G 650-AK02 -04	W3G 650-CK02 -04	—	—	S3G 650-CK02 -04

Curves



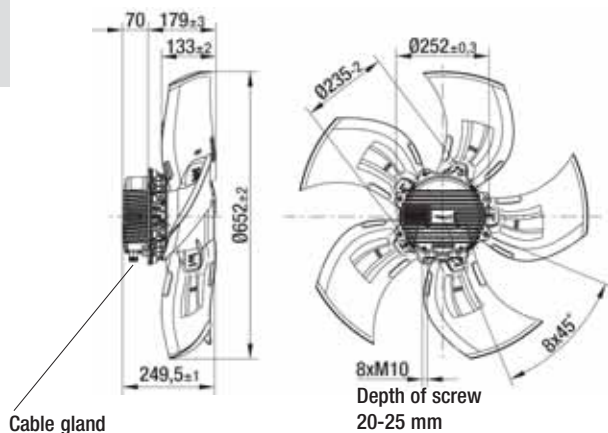
	n	P ₁	I	L _{wA}	η _{IL}
	[rpm]	[kW]	[A]	[dB(A)]	[%]
 1	1500	1.86	2.80	82	—
 2	1500	2.37	3.60	82	82
 3	1500	2.65	4.00	84	70
 4	1500	2.87	4.40	87	59
 5	1350	1.35	2.10	80	—
 6	1350	1.73	2.60	80	82
 7	1350	1.93	2.90	82	70
 8	1350	2.09	3.20	85	59
 9	1200	0.95	1.50	78	—
 10	1200	1.21	1.80	77	82
 11	1200	1.35	2.10	79	70
 12	1200	1.47	2.20	82	59

EC axial fans mains-powered

S series, Ø 650, drawings for direction of air flow "V"



Without attachments

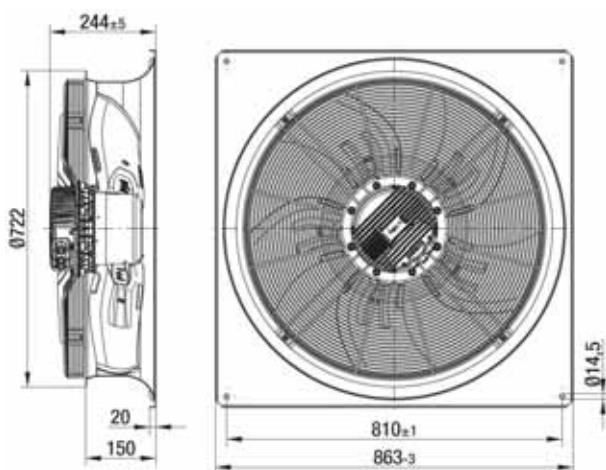


< "V"

Type	Mass [kg]
A3G 650-AJ12 -13	23.5
A3G 650-AJ08 -03	23.5
A3G 650-AK07 -13	26.5
A3G 650-AK02 -03	26.5

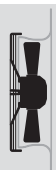


With full square nozzle

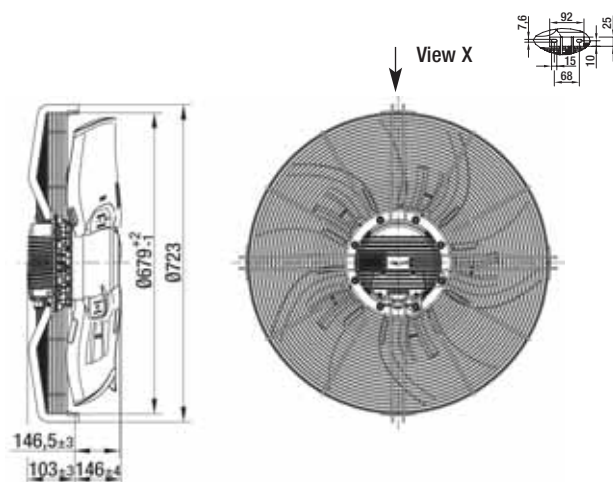


< "V"

Type	Mass [kg]
W3G 650-CJ12 -13	40.0
W3G 650-CJ08 -03	40.0
W3G 650-CK07 -13	43.0
W3G 650-CK02 -03	43.0



With guard grille for full nozzle



< "V"

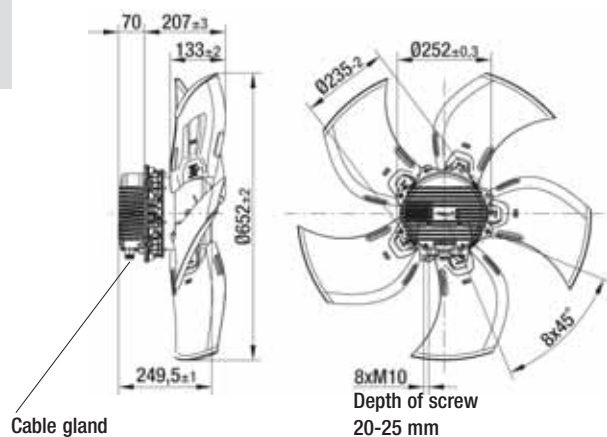
Type	Mass [kg]
S3G 650-BJ12 -13	28.5
S3G 650-BJ08 -03	28.5
S3G 650-BK07 -13	31.5
S3G 650-BK02 -03	31.5

EC axial fans mains-powered

S series, Ø 650, drawings for direction of air flow "A"



Without attachments

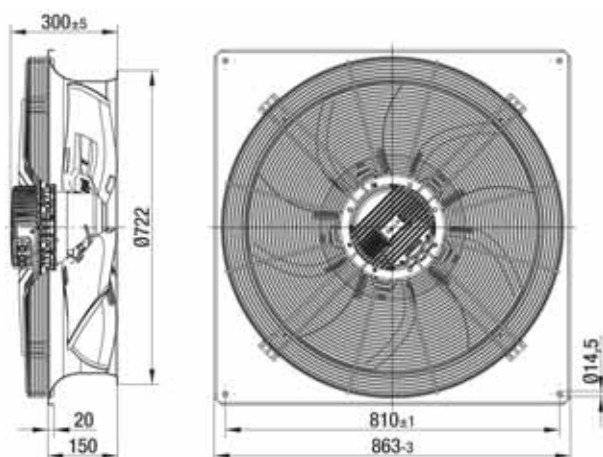


"A" >

Type	Mass [kg]
A3G 650-AJ12 -14	23.5
A3G 650-AJ08 -04	23.5
A3G 650-AK07 -14	26.5
A3G 650-AK02 -04	26.5



With full square nozzle

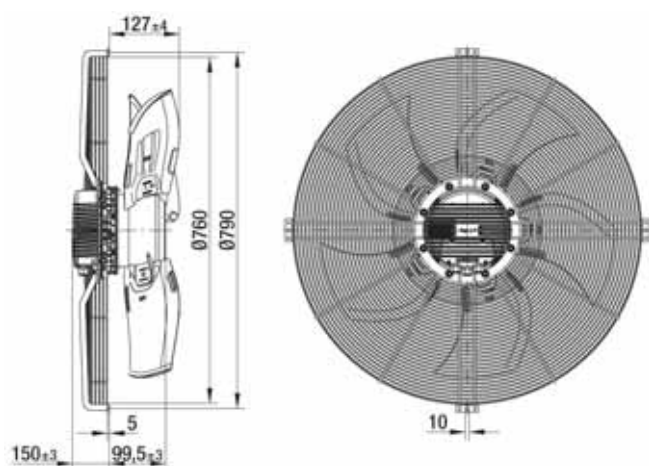


"A" >

Type	Mass [kg]
W3G 650-CJ12 -14	41.0
W3G 650-CJ08 -04	41.0
W3G 650-CK07 -14	44.0
W3G 650-CK02 -04	44.0



With guard grille for full nozzle



"A" >

Type	Mass [kg]
S3G 650-CJ12 -14	29.5
S3G 650-CJ08 -04	29.5
S3G 650-CK07 -14	32.5
S3G 650-CK02 -04	32.5

Contacts	Technology	Accessories	EC-SYSTEMS	ESM	Q-motor	EC axial S series	EC axial fans	AC axial A series	AC axial K series	AC axial S series	AC axial fans	General information
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EC axial fans mains-powered

S series, Ø 710



- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Die-cast aluminium
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Dir. of air flow "V" clockwise, "A" counter-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

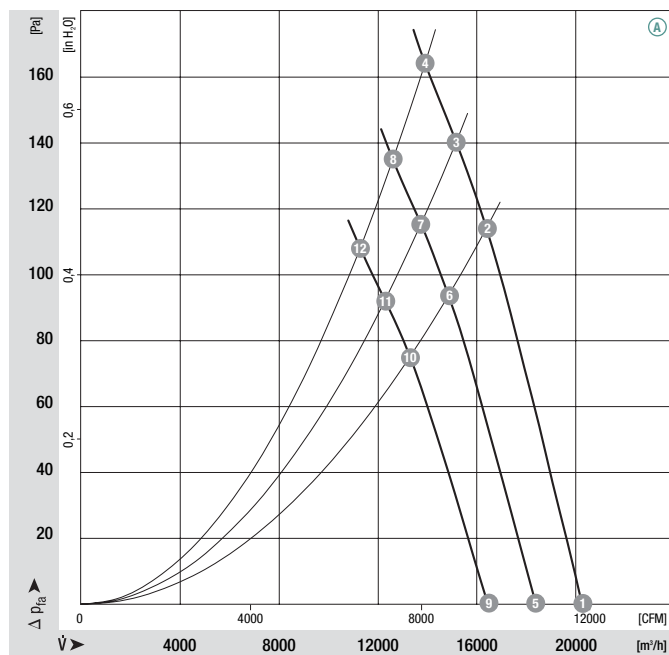
Nominal data

Type	Motor	Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
				VAC	Hz	rpm	kW	A	Pa	°C	p. 428
*3G 710	M3G 150-FF	0°	A	3~ 200-240	50/60	1050	1.68	5.20	160	-25 to +60	M)
*3G 710	M3G 150-FF	0°	B	3~ 380-480	50/60	1050	1.68	2.60	160	-25 to +60	M)

subject to alterations

(1) Nominal data in operating point with maximum load and 200 or 400 VAC

Curves



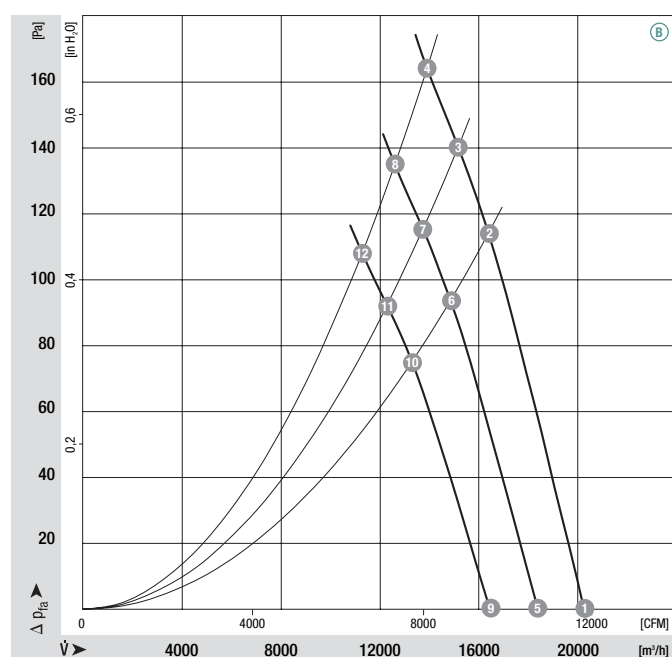
	n	P ₁	I	L _{wA}	η _{HL}
	[rpm]	[kW]	[A]	[dB(A)]	[%]
A 1	1050	1.26	3.80	76	—
A 2	1050	1.57	4.80	76	73
A 3	1050	1.63	5.00	77	68
A 4	1050	1.68	5.20	79	63
A 5	950	0.94	2.80	74	—
A 6	950	1.17	3.60	74	73
A 7	950	1.22	3.80	75	68
A 8	950	1.25	3.80	77	63
A 9	850	0.67	2.00	72	—
A 10	850	0.84	2.60	72	73
A 11	850	0.87	2.60	73	68
A 12	850	0.90	2.80	74	63

Technical features:

- 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 / phase failure detection
 - Motor current limitation
 - Over-temperature protected electronics / motor
 - Locked rotor protection
 - Soft start
- **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
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** UL, CSA, GOST;  also VDE

	Direction of air flow				
	< "V"/"A" >	< "V"/"A" >	< "V" >	< "V" >	"A" >
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle	With guard grille for full nozzle
"V"	A3G 710-AG09 -13	W3G 710-CG09 -13	S3G 710-BG09 -13	S3G 710-AG09 -13	—
"A"	A3G 710-AG09 -14	W3G 710-CG09 -14	—	—	S3G 710-CG09 -14
"V"	A3G 710-AG01 -03	W3G 710-CG01 -03	S3G 710-BG01 -03	S3G 710-AG01 -03	—
"A"	A3G 710-AG01 -04	W3G 710-CG01 -04	—	—	S3G 710-CG01 -04

Curves



	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]	η _{IL} [%]
 1	1050	1.26	1.90	76	—
 2	1050	1.57	2.40	76	73
 3	1050	1.63	2.50	77	68
 4	1050	1.68	2.60	79	63
 5	950	0.94	1.40	74	—
 6	950	1.17	1.80	74	73
 7	950	1.22	1.90	75	68
 8	950	1.25	1.90	77	63
 9	850	0.67	1.00	72	—
 10	850	0.84	1.30	72	73
 11	850	0.87	1.30	73	68
 12	850	0.90	1.40	74	63

EC axial fans mains-powered

S series, Ø 710



- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Die-cast aluminium
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Dir. of air flow "V" clockwise, "A" counter-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

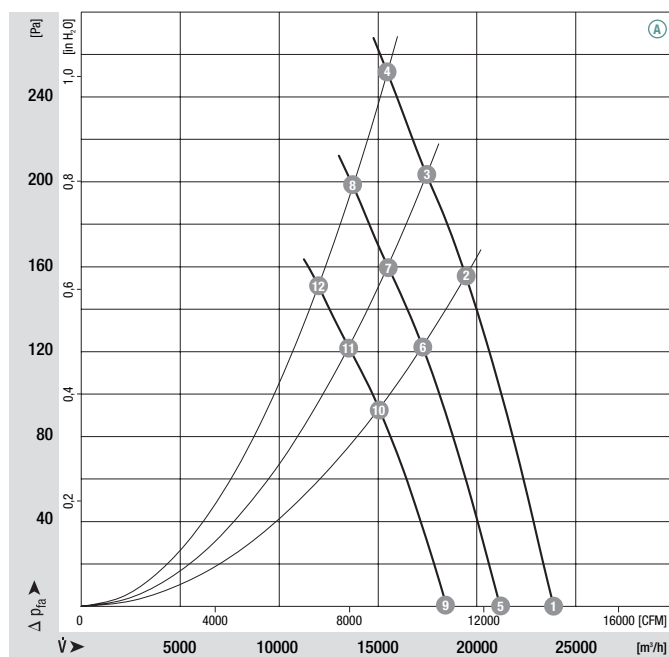
Nominal data

Type	Motor	Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
				VAC	Hz	rpm	kW	A	Pa	°C	p. 428
*3G 710	M3G 150-IF	0°	A	3~ 200-240	50/60	1240	2.75	8.50	255	-25 to +60	M)
*3G 710	M3G 150-IF	0°	B	3~ 380-480	50/60	1240	2.75	4.20	255	-25 to +60	M)

subject to alterations

(1) Nominal data in operating point with maximum load and 200 or 400 VAC

Curves



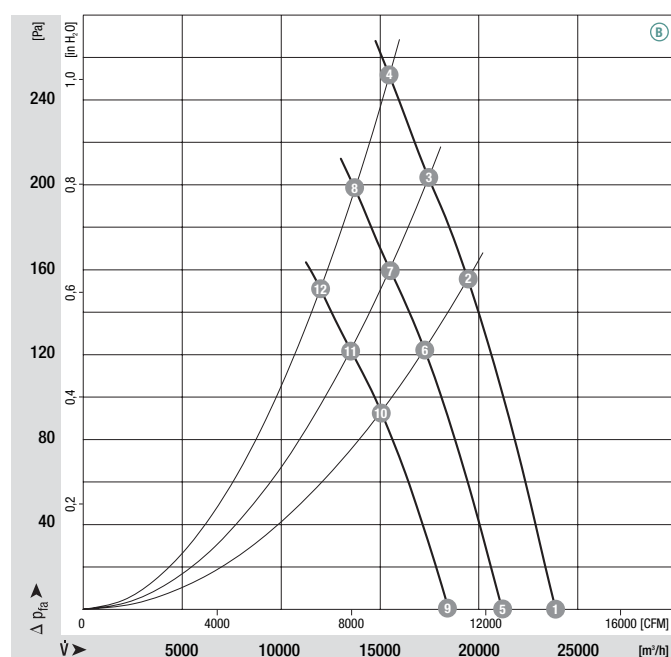
	n	P ₁	I	Lw _A	η _{HL}
	[rpm]	[kW]	[A]	[dB(A)]	[%]
A 1	1240	1.99	6.00	80	—
A 2	1240	2.47	7.50	80	74
A 3	1240	2.59	7.80	81	67
A 4	1240	2.70	8.40	84	61
A 5	1100	1.39	4.20	77	—
A 6	1100	1.72	5.20	77	74
A 7	1100	1.81	5.40	79	67
A 8	1100	1.89	5.60	82	61
A 9	960	0.92	2.80	74	—
A 10	960	1.15	3.40	74	74
A 11	960	1.20	3.60	76	67
A 12	960	1.25	3.80	79	61

Technical features:

- 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 / phase failure detection
 - Motor current limitation
 - Over-temperature protected electronics / motor
 - Locked rotor protection
 - Soft start
- **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
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** UL, CSA, GOST;  also VDE

Direction of air flow	< "V"/"A" >	< "V"/"A" >	< "V" >	< "V" >	"A" >
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle	With guard grille for full nozzle
"V"	A3G 710-AH10 -13	W3G 710-CH10 -13	S3G 710-BH10 -13	S3G 710-AH10 -13	—
"A"	A3G 710-AH10 -14	W3G 710-CH10 -14	—	—	S3G 710-CH10 -14
"V"	A3G 710-AH06 -03	W3G 710-CH06 -03	S3G 710-BH06 -03	S3G 710-AH06 -03	—
"A"	A3G 710-AH06 -04	W3G 710-CH06 -04	—	—	S3G 710-CH06 -04

Curves



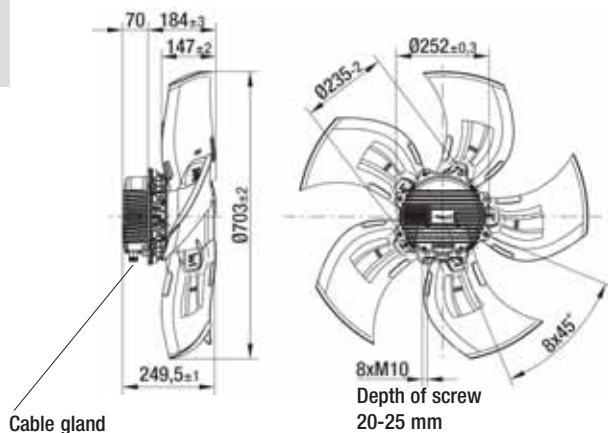
	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]	η _{HL} [%]
 1	1240	1.99	3.00	80	—
 2	1240	2.47	3.70	80	74
 3	1240	2.59	3.90	81	67
 4	1240	2.70	4.20	84	61
 5	1100	1.39	2.10	77	—
 6	1100	1.72	2.60	77	74
 7	1100	1.81	2.70	79	67
 8	1100	1.89	2.80	82	61
 9	960	0.92	1.40	74	—
 10	960	1.15	1.70	74	74
 11	960	1.20	1.80	76	67
 12	960	1.25	1.90	79	61

EC axial fans mains-powered

S series, Ø 710, drawings for direction of air flow "V"



Without attachments

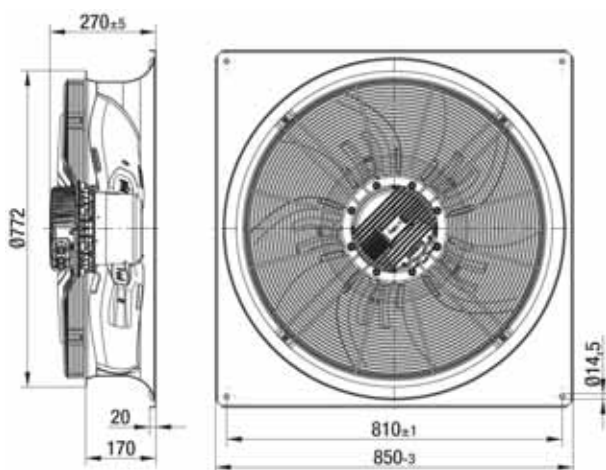


< "V"

Type	Mass [kg]
A3G 710-AG09 -13	24.0
A3G 710-AG01 -03	24.0
A3G 710-AH10 -13	27.0
A3G 710-AH06 -03	27.0

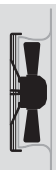


With full square nozzle

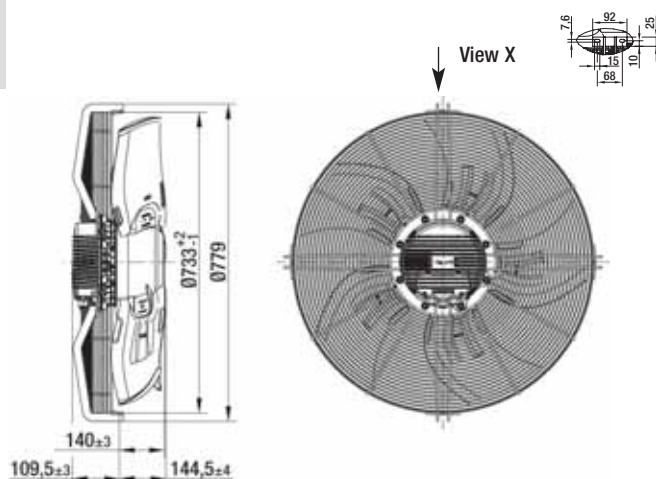


< "V"

Type	Mass [kg]
W3G 710-CG09 -13	43.5
W3G 710-CG01 -03	43.5
W3G 710-CH10 -13	46.5
W3G 710-CH06 -03	46.5



With guard grille for full nozzle

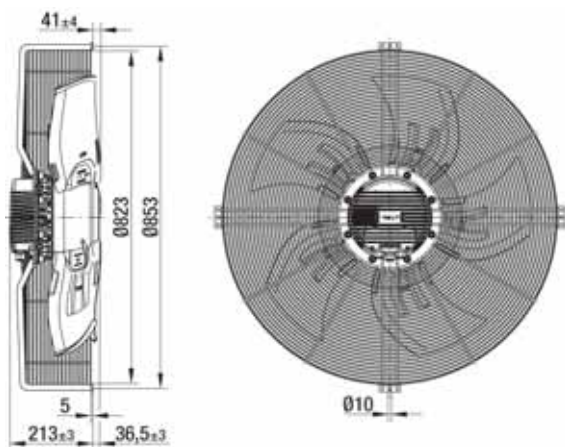


< "V"

Type	Mass [kg]
S3G 710-BG09 -13	29.5
S3G 710-BG01 -03	29.5
S3G 710-BH10 -13	32.5
S3G 710-BH06 -03	32.5



With guard grille for short nozzle



< "V"

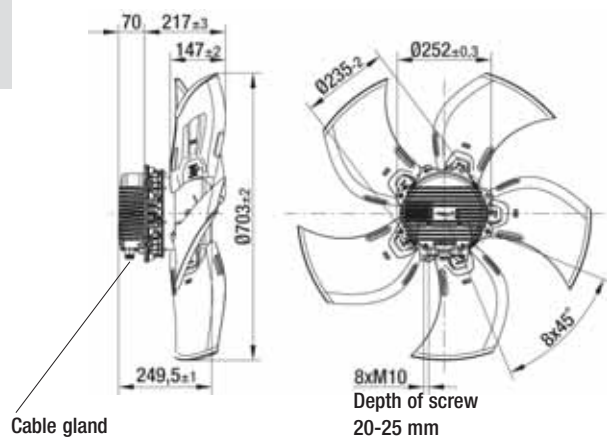
Type	Mass [kg]
S3G 710-AG09 -13	28.0
S3G 710-AG01 -03	28.0
S3G 710-AH10 -13	31.0
S3G 710-AH06 -03	31.0

EC axial fans mains-powered

S series, Ø 710, drawings for direction of air flow "A"



Without attachments

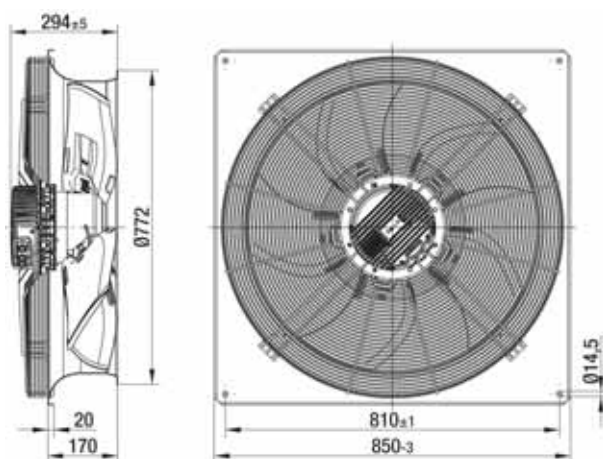


"A" >

Type	Mass [kg]
A3G 710-AG09 -14	24.0
A3G 710-AG01 -04	24.0
A3G 710-AH10 -14	27.0
A3G 710-AH06 -04	27.0



With full square nozzle

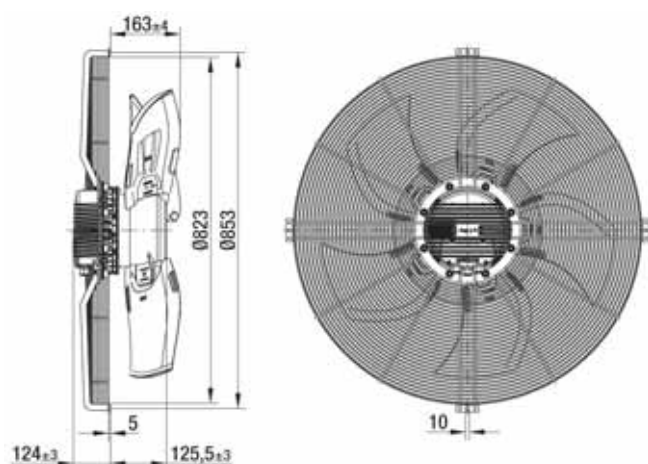


"A" >

Type	Mass [kg]
W3G 710-CG09 -14	44.5
W3G 710-CG01 -04	44.5
W3G 710-CH10 -14	47.5
W3G 710-CH06 -04	47.5



With guard grille for full nozzle



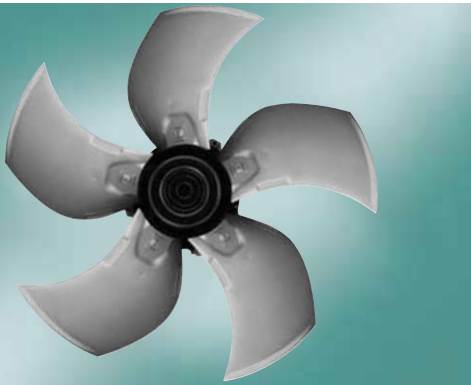
"A" >

Type	Mass [kg]
S3G 710-CG09 -14	30.5
S3G 710-CG01 -04	30.5
S3G 710-CH10 -14	33.5
S3G 710-CH06 -04	33.5

Contacts	Technology	Accessories	EC-SYSTEMS	ESM	Q-motor	EC axial S series	EC axial fans	AC axial A series	AC axial K series	AC axial S series	AC axial fans	General information
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EC axial fans mains-powered

S series, Ø 800



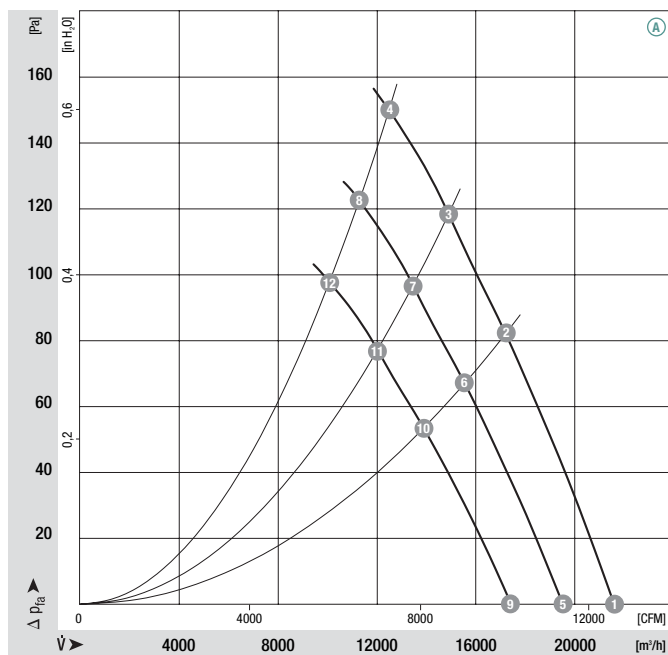
- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Die-cast aluminium
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Dir. of air flow "V" clockwise, "A" counter-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		Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
Type	Motor			VAC	Hz	rpm	kW	A	Pa	°C	p. 428
*3G 800	M3G 150-FF	0°	A	3~ 200-240	50/60	830	1.35	4.40	155	-25 to +60	M)
*3G 800	M3G 150-FF	0°	B	3~ 380-480	50/60	830	1.35	2.20	155	-25 to +60	M)

subject to alterations

(1) Nominal data in operating point with maximum load and 200 or 400 VAC

Curves



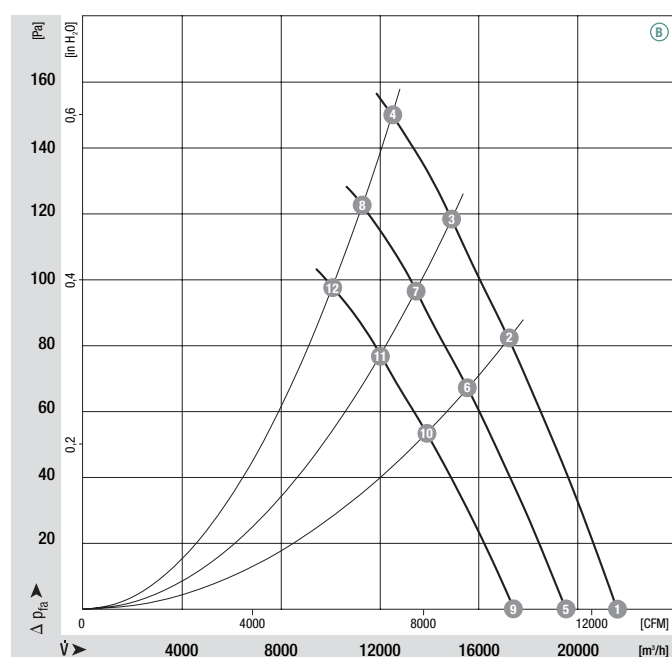
	n [rpm]	P ₁ [kW]	I [A]	Lw _A [dB(A)]	η _{IL} [%]
A 1	830	0.88	2.80	72	—
A 2	830	1.13	3.40	70	75
A 3	830	1.24	3.80	72	67
A 4	830	1.35	4.40	77	57
A 5	750	0.65	2.00	69	—
A 6	750	0.83	2.60	68	75
A 7	750	0.91	2.80	70	67
A 8	750	0.99	3.00	75	57
A 9	670	0.46	1.40	67	—
A 10	670	0.60	1.80	66	75
A 11	670	0.65	2.00	68	67
A 12	670	0.71	2.20	72	57

Technical features:

- 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 / phase failure detection
 - Motor current limitation
 - Over-temperature protected electronics / motor
 - Locked rotor protection
 - Soft start
- **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
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** UL, CSA, GOST;  also VDE

Direction of air flow	< "V"/"A" >	< "V"/"A" >	< "V" >	< "V" >	"A" >
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle	With guard grille for full nozzle
"V"	A3G 800-AG10 -13	W3G 800-CG10 -13	S3G 800-BG10 -13	S3G 800-AG10 -13	—
"A"	A3G 800-AG10 -14	W3G 800-CG10 -14	—	—	S3G 800-CG10 -14
"V"	A3G 800-AG02 -03	W3G 800-CG02 -03	S3G 800-BG02 -03	S3G 800-AG02 -03	—
"A"	A3G 800-AG02 -04	W3G 800-CG02 -04	—	—	S3G 800-CG02 -04

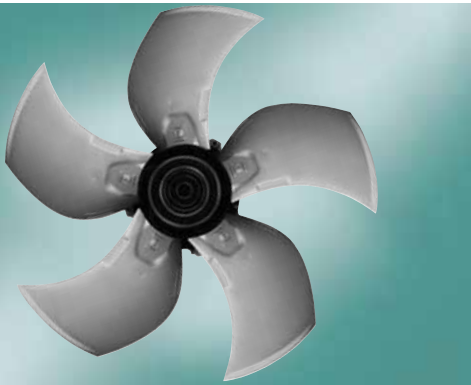
Curves



	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]	η _{IL} [%]
 1	830	0.88	1.40	72	—
 2	830	1.13	1.70	70	75
 3	830	1.24	1.90	72	67
 4	830	1.35	2.20	77	57
 5	750	0.65	1.00	69	—
 6	750	0.83	1.30	68	75
 7	750	0.91	1.40	70	67
 8	750	0.99	1.50	75	57
 9	670	0.46	0.70	67	—
 10	670	0.60	0.90	66	75
 11	670	0.65	1.00	68	67
 12	670	0.71	1.10	72	57

EC axial fans mains-powered

S series, Ø 800



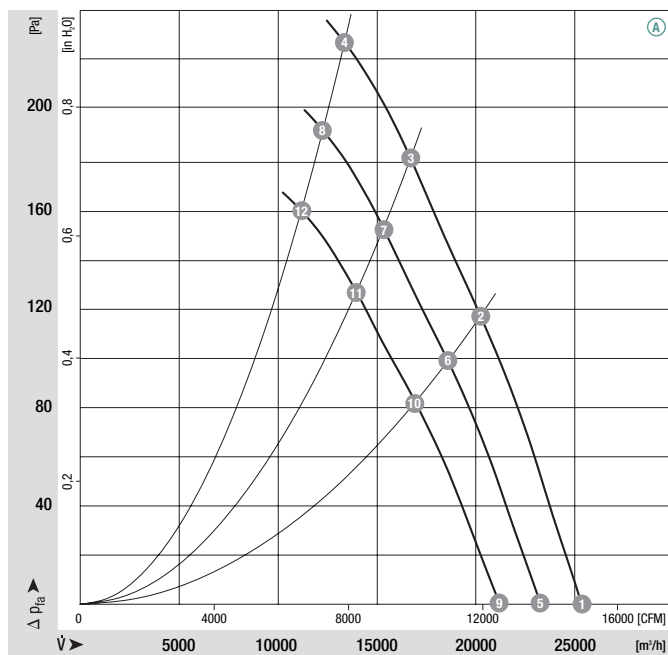
- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Die-cast aluminium
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Dir. of air flow "V" clockwise, "A" counter-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		Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
Type	Motor			VAC	Hz	rpm	kW	A	Pa	°C	p. 428
*3G 800	M3G 150-IF	0°	A	3~ 200-240	50/60	980	2.20	6.80	230	-25 to +60	M)
*3G 800	M3G 150-IF	0°	B	3~ 380-480	50/60	980	2.20	3.40	230	-25 to +60	M)

subject to alterations

(1) Nominal data in operating point with maximum load and 200 or 400 VAC

Curves



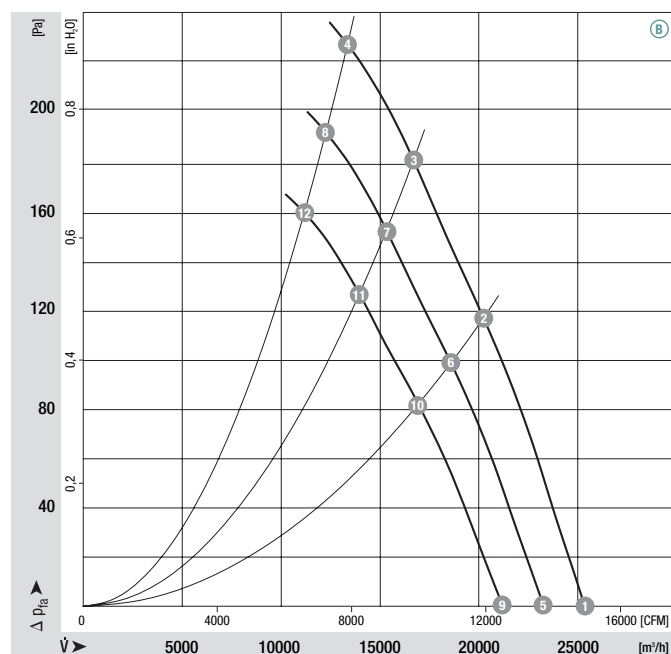
	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]	η _{HL} [%]
A 1	980	1.37	4.20	74	—
A 2	980	1.76	5.40	73	78
A 3	980	1.93	5.80	76	67
A 4	980	2.20	6.80	82	52
A 5	900	1.06	3.20	73	—
A 6	900	1.36	4.20	72	78
A 7	900	1.50	4.30	73	67
A 8	900	1.71	5.20	80	52
A 9	820	0.80	2.40	71	—
A 10	820	1.03	3.20	70	78
A 11	820	1.13	3.40	73	67
A 12	820	1.30	4.00	78	52

Technical features:

- 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 / phase failure detection
 - Motor current limitation
 - Over-temperature protected electronics / motor
 - Locked rotor protection
 - Soft start
- **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
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** UL, CSA, GOST;  also VDE

	Direction of air flow				
	< "V"/"A" >	< "V"/"A" >	< "V" >	< "V" >	"A" >
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle	With guard grille for full nozzle
"V"	A3G 800-AH12 -13	W3G 800-CH12 -13	S3G 800-BH12 -13	S3G 800-AH12 -13	—
"A"	A3G 800-AH12 -14	W3G 800-CH12 -14	—	—	S3G 800-CH12 -14
"V"	A3G 800-AH03 -03	W3G 800-CH03 -03	S3G 800-BH03 -03	S3G 800-AH03 -03	—
"A"	A3G 800-AH03 -04	W3G 800-CH03 -04	—	—	S3G 800-CH03 -04

Curves



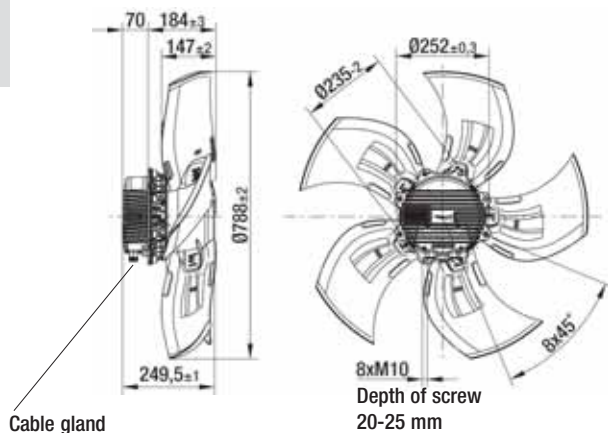
	n [rpm]	P ₁ [kW]	I [A]	Lw _A [dB(A)]	η _{HL} [%]
 1	980	1.37	2.10	74	—
 2	980	1.76	2.70	73	78
 3	980	1.93	2.90	76	67
 4	980	2.20	3.40	82	52
 5	900	1.06	1.60	73	—
 6	900	1.36	2.10	72	78
 7	900	1.50	2.30	73	67
 8	900	1.71	2.60	80	52
 9	820	0.80	1.20	71	—
 10	820	1.03	1.60	70	78
 11	820	1.13	1.70	73	67
 12	820	1.30	2.00	78	52

EC axial fans mains-powered

S series, Ø 800, drawings for direction of air flow "V"



Without attachments

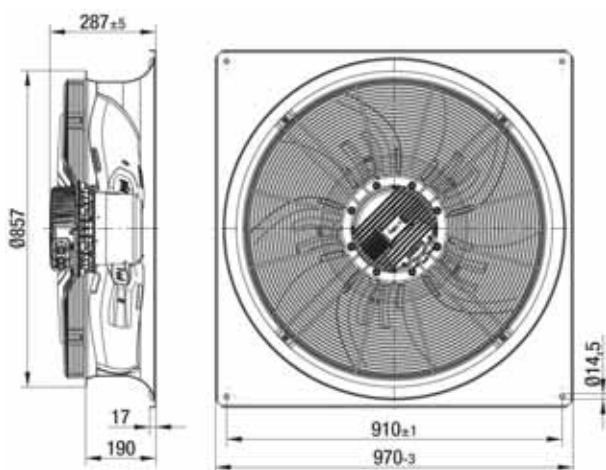


< "V"

Type	Mass [kg]
A3G 800-AG10 -13	25.0
A3G 800-AG02 -03	25.0
A3G 800-AH12 -13	28.0
A3G 800-AH03 -03	28.0

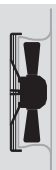


With full square nozzle

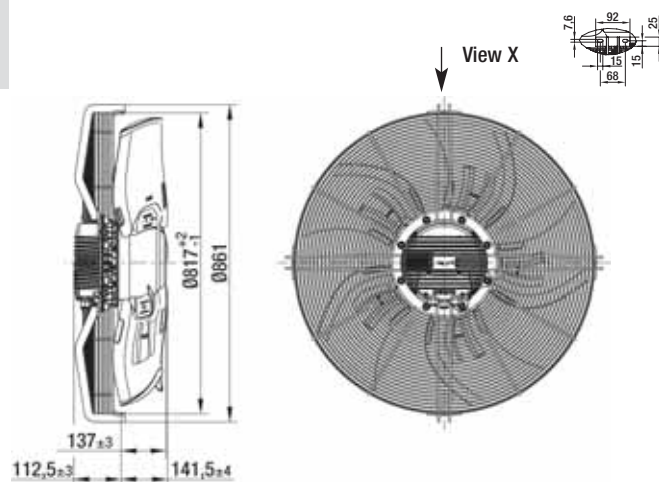


< "V"

Type	Mass [kg]
W3G 800-CG10 -13	46.5
W3G 800-CG02 -03	46.5
W3G 800-CH12 -13	49.5
W3G 800-CH03 -03	49.5



With guard grille for full nozzle

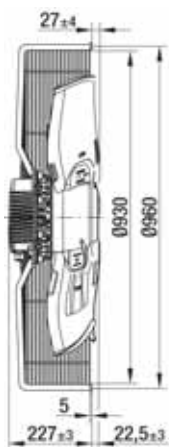


< "V"

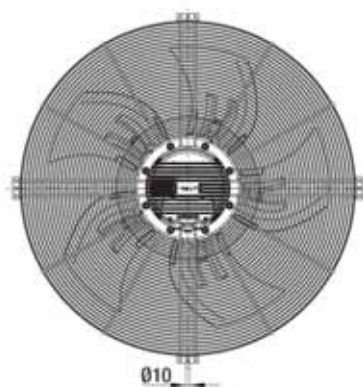
Type	Mass [kg]
S3G 800-BG10 -13	31.5
S3G 800-BG02 -03	31.5
S3G 800-BH12 -13	34.5
S3G 800-BH03 -03	34.5



With guard grille for short nozzle



< "V"



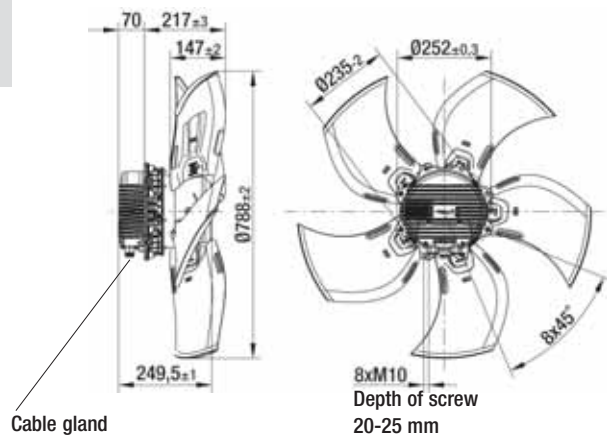
Type	Mass [kg]
S3G 800-AG10 -13	30.0
S3G 800-AG02 -03	30.0
S3G 800-AH12 -13	33.0
S3G 800-AH03 -03	33.0

EC axial fans mains-powered

S series, Ø 800, drawings for direction of air flow "A"



Without attachments

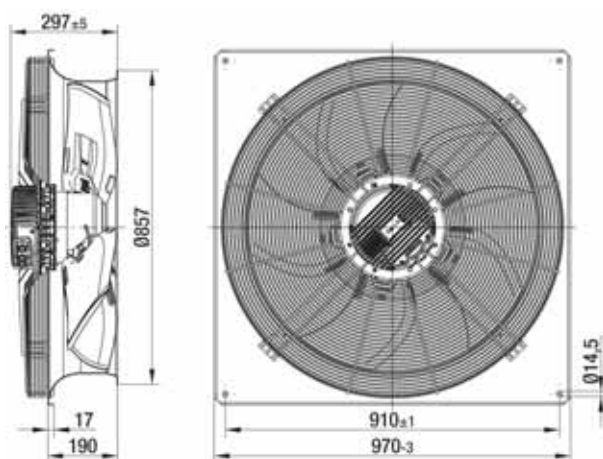


"A" >

Type	Mass [kg]
A3G 800-AG10 -14	25.0
A3G 800-AG02 -04	25.0
A3G 800-AH12 -14	28.0
A3G 800-AH03 -04	28.0



With full square nozzle

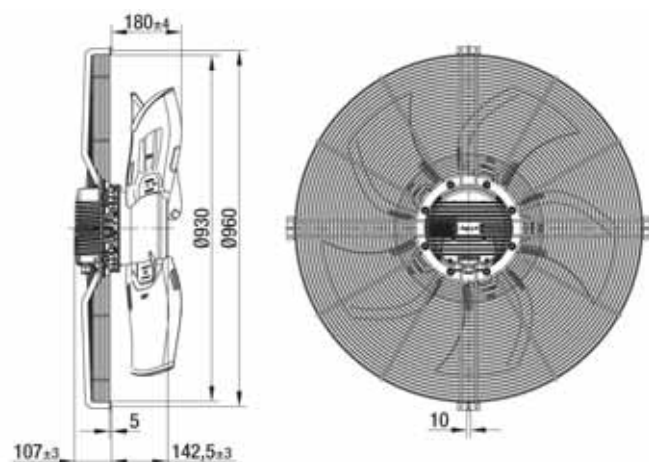


"A" >

Type	Mass [kg]
W3G 800-CG10 -14	47.5
W3G 800-CG02 -04	47.5
W3G 800-CH12 -14	50.5
W3G 800-CH03 -04	50.5



With guard grille for full nozzle



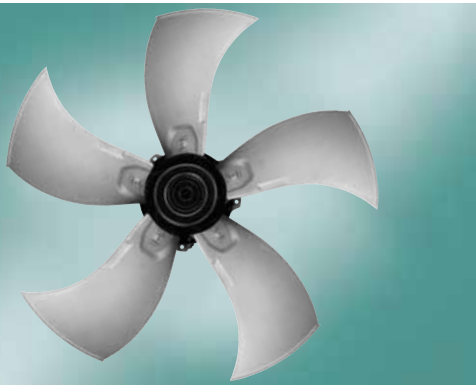
"A" >

Type	Mass [kg]
S3G 800-CG10 -14	32.5
S3G 800-CG02 -04	32.5
S3G 800-CH12 -14	35.5
S3G 800-CH03 -04	35.5

Contacts	Technology	Accessories	EC-SYSTEMS	ESM	Q-motor	EC axial S series	EC axial fans	AC axial A series	AC axial K series	AC axial S series	AC axial fans	General information
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EC axial fans mains-powered

S series, Ø 910



- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Die-cast aluminium
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Dir. of air flow "V" clockwise, "A" counter-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

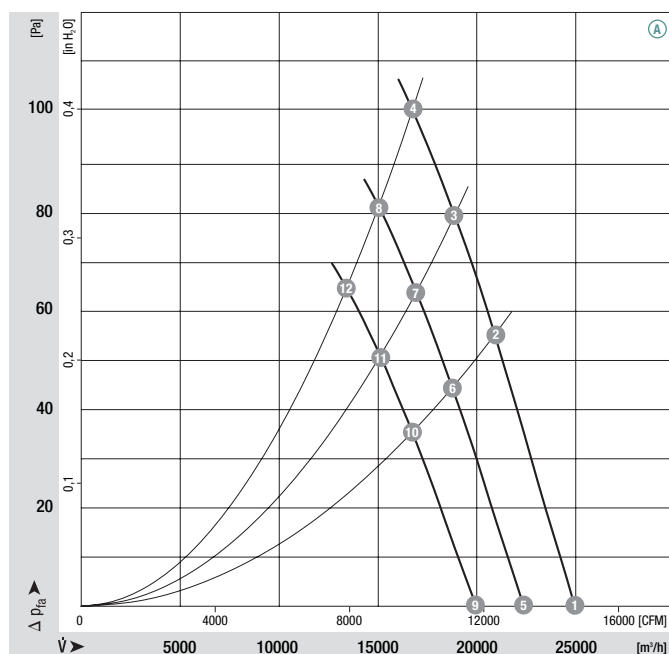
Nominal data

Type	Motor	Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
				VAC	Hz	rpm	kW	A	Pa	°C	p. 428
*3G 910	M3G 150-FF	0°	A	3~ 200-240	50/60	720	1.15	3.60	100	-25 to +60	M)
*3G 910	M3G 150-FF	0°	B	3~ 380-480	50/60	720	1.15	1.80	100	-25 to +60	M)

subject to alterations

(1) Nominal data in operating point with maximum load and 200 or 400 VAC

Curves



	n	P ₁	I	L _{wA}	η _{HL}
	[rpm]	[kW]	[A]	[dB(A)]	[%]
A 1	720	0.77	2.40	72	—
A 2	720	0.99	3.00	71	75
A 3	720	1.08	3.40	71	70
A 4	720	1.15	3.60	72	64
A 5	650	0.56	1.80	70	—
A 6	650	0.72	2.20	68	75
A 7	650	0.78	2.40	68	70
A 8	650	0.84	2.60	70	64
A 9	580	0.40	1.20	67	—
A 10	580	0.51	1.60	66	75
A 11	580	0.55	1.80	66	70
A 12	580	0.60	1.80	68	64

Technical features:

- 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 / phase failure detection
- Motor current limitation
- Over-temperature protected electronics / motor
- Locked rotor protection
- Soft start

– **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

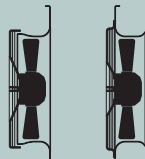
– **Leakage current:** < 3.5 mA acc. to EN 61800-5-1

– **Connection leads:** Via terminal strip

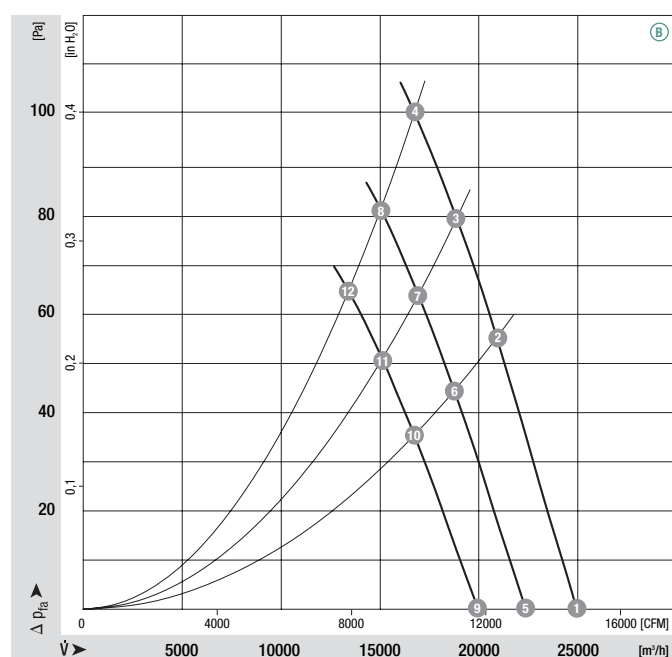
– **Protection class:** I (acc. to EN 61800-5-1)

– **Product conforming to standard:** CE

– **Approvals:** UL, CSA, GOST;  also VDE

Direction of air flow							
	< "V"/"A" >		< "V"/"A" >		< "V" >	< "V" >	"A" >
	Without attachments		With full square nozzle		With guard grille for full nozzle	With guard grille for short nozzle	With guard grille for full nozzle
"V"	A3G 910-AG10 -13		W3G 910-CG10 -13		S3G 910-BG10 -13	S3G 910-AG10 -13	—
"A"	A3G 910-AG10 -14		W3G 910-CG10 -14		—	—	S3G 910-CG10 -14
"V"	A3G 910-AG02 -03		W3G 910-CG02 -03		S3G 910-BG02 -03	S3G 910-AG02 -03	—
"A"	A3G 910-AG02 -04		W3G 910-CG02 -04		—	—	S3G 910-CG02 -04

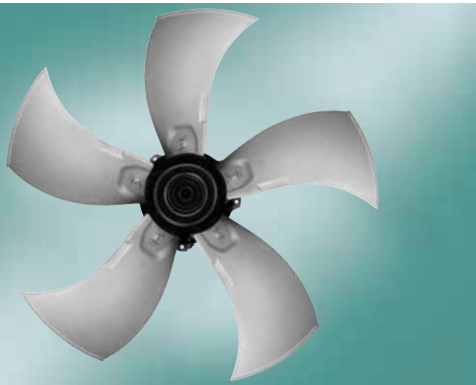
Curves



	n	P ₁	I	L _{wA}	η _{HL}
	[rpm]	[kW]	[A]	[dB(A)]	[%]
 1	720	0.77	1.20	72	—
 2	720	0.99	1.50	71	75
 3	720	1.08	1.70	71	70
 4	720	1.15	1.80	72	64
 5	650	0.56	0.90	70	—
 6	650	0.72	1.10	68	75
 7	650	0.78	1.20	68	70
 8	650	0.84	1.30	70	64
 9	580	0.40	0.60	67	—
 10	580	0.51	0.80	66	75
 11	580	0.55	0.90	66	70
 12	580	0.60	0.90	68	64

EC axial fans mains-powered

S series, Ø 910



- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Die-cast aluminium
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Dir. of air flow "V" clockwise, "A" counter-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

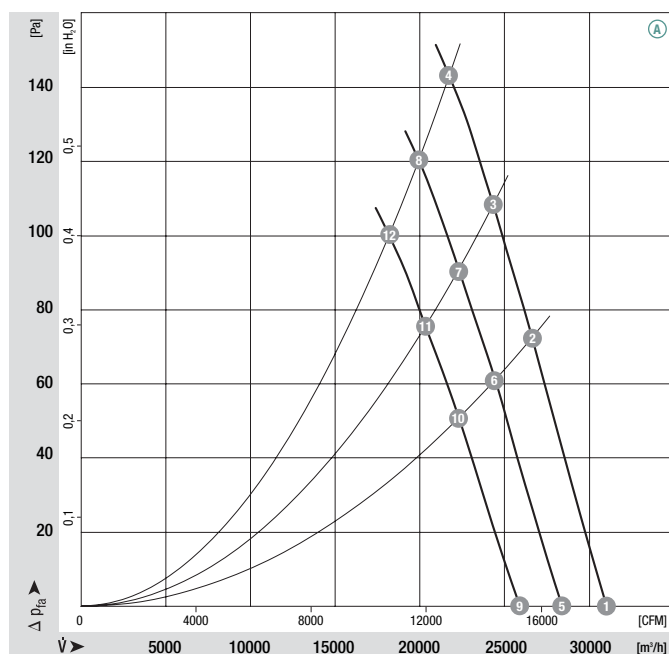
Nominal data

Type	Motor	Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
				VAC	Hz	rpm	kW	A	Pa	°C	p. 428
*3G 910	M3G 150-IF	0°	A	3~ 200-240	50/60	870	1.90	5.80	140	-25 to +60	M)
*3G 910	M3G 150-IF	0°	B	3~ 380-480	50/60	870	1.90	2.90	140	-25 to +60	M)

subject to alterations

(1) Nominal data in operating point with maximum load and 200 or 400 VAC

Curves



	n	P ₁	I	L _{wA}	η _{HL}
	[rpm]	[kW]	[A]	[dB(A)]	[%]
A 1	870	1.30	4.00	76	—
A 2	870	1.62	5.00	75	74
A 3	870	1.76	5.40	75	71
A 4	870	1.90	5.80	77	66
A 5	800	1.01	3.20	74	—
A 6	800	1.26	3.80	73	74
A 7	800	1.35	4.20	73	71
A 8	800	1.46	4.40	75	66
A 9	730	0.77	2.40	72	—
A 10	730	0.76	3.00	71	74
A 11	730	1.03	3.20	71	71
A 12	730	1.11	3.40	73	66

Technical features:

- 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 ebus
- Alarm relay
- Line undervoltage / phase failure detection
- Motor current limitation
- Over-temperature protected electronics / motor
- Locked rotor protection
- Soft start

– **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

– **Connection leads:** Via terminal strip

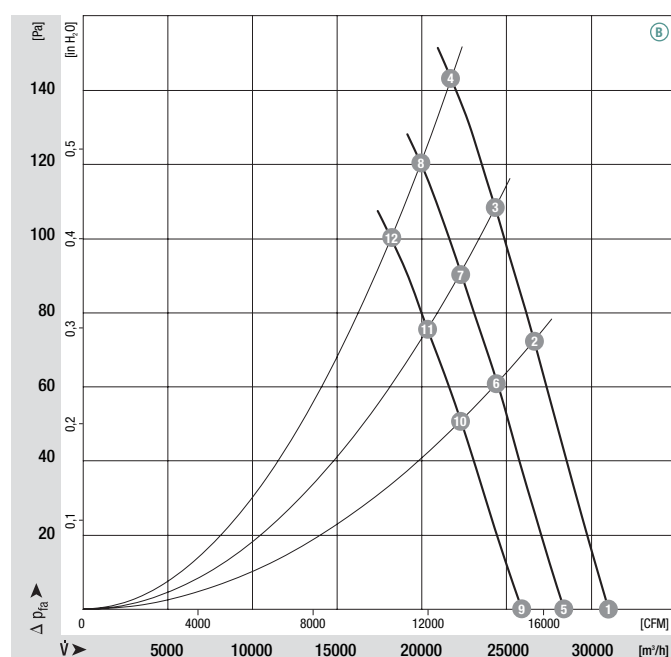
– **Protection class:** I (acc. to EN 61800-5-1)

– **Product conforming to standard:** CE

– **Approvals:** UL, CSA, GOST;  also VDE

	Direction of air flow					
	< "V"/"A" >	< "V"/"A" >	< "V" >	< "V" >	"A" >	
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle	With guard grille for full nozzle	
"V"	A3G 910-AH09 -13	W3G 910-CH09 -13	S3G 910-BH09 -13	S3G 910-AH09 -13	—	
"A"	A3G 910-AH09 -14	W3G 910-CH09 -14	—	—	S3G 910-CH09 -14	
"V"	A3G 910-AH04 -03	W3G 910-CH04 -03	S3G 910-BH04 -03	S3G 910-AH04 -03	—	
"A"	A3G 910-AH04 -04	W3G 910-CH04 -04	—	—	S3G 910-CH04 -04	

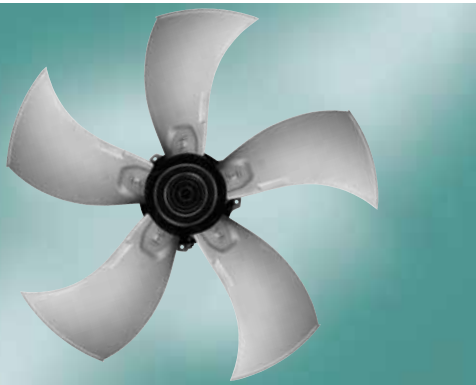
Curves



	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]	η_{HL} [%]
 1	870	1.30	2.00	76	—
 2	870	1.62	2.50	75	74
 3	870	1.76	2.70	75	71
 4	870	1.90	2.90	77	66
 5	800	1.01	1.60	74	—
 6	800	1.26	1.90	73	74
 7	800	1.35	2.10	73	71
 8	800	1.46	2.20	75	66
 9	730	0.77	1.20	72	—
 10	730	0.76	1.50	71	74
 11	730	1.03	1.60	71	71
 12	730	1.11	1.70	73	66

EC axial fans mains-powered

S series, Ø 910



- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Die-cast aluminium
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 5
- **Direction of rotation:** Dir. of air flow "V" clockwise, "A" counter-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

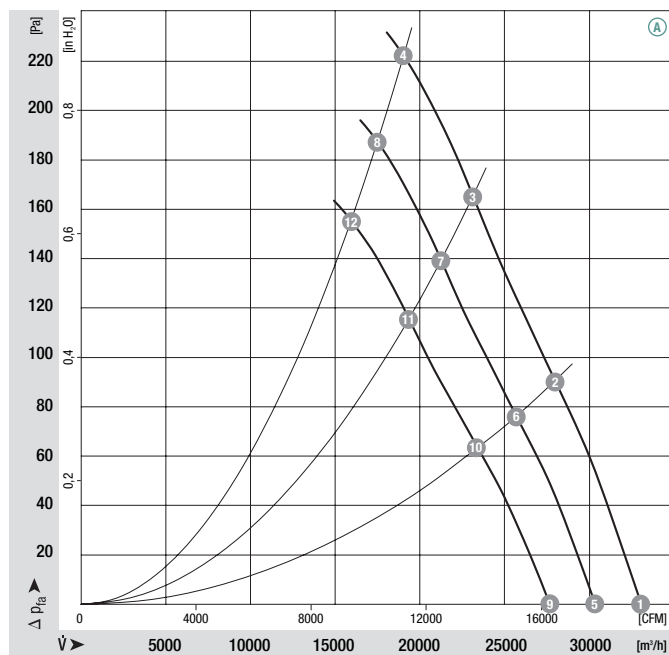
Nominal data

Type	Motor	Blade angle	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
				VAC	Hz	rpm	kW	A	Pa	°C	p. 428
*3G 910	M3G 150-NA	0°	A	3~ 380-480	50/60	980	2.80	4.30	220	-25 to +60	M)

subject to alterations

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

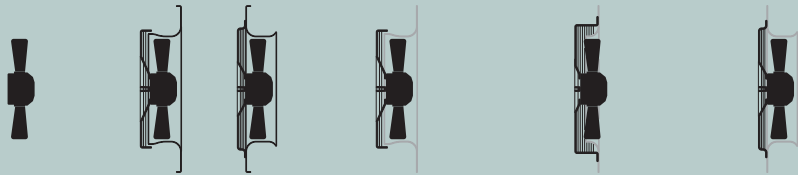
Curves



	n [rpm]	P ₁ [kW]	I [A]	Lw _A [dB(A)]	η _{HL} [%]
A 1	980	1.82	2.80	80	—
A 2	980	2.24	3.40	80	73
A 3	980	2.55	3.90	83	65
A 4	980	2.80	4.30	86	56
A 5	900	1.41	2.20	78	—
A 6	900	1.76	2.60	78	73
A 7	900	1.97	3.00	82	65
A 8	900	2.15	3.30	84	56
A 9	820	1.07	1.60	76	—
A 10	820	1.31	2.00	76	73
A 11	820	1.49	2.30	80	65
A 12	820	1.63	2.50	82	56

– **Technical features:**

- 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 / phase failure detection
 - Motor current limitation
 - Over-temperature protected electronics / motor
 - Locked rotor protection
 - Soft start
- **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
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE, UL, CSA, GOST

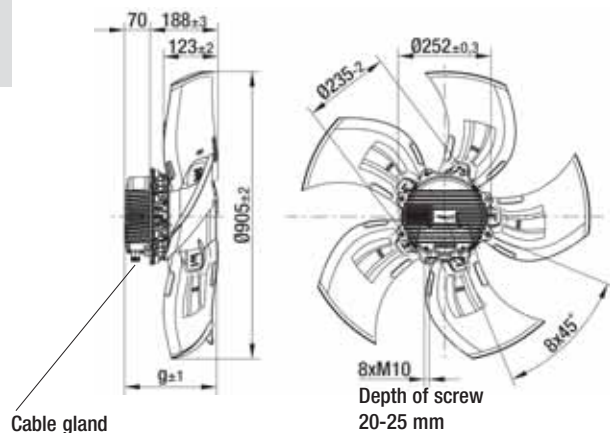
Direction of air flow						
	< "V" / "A" >	< "V" / "A" >	< "V" >	< "V" >	"A" >	
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle	With guard grille for full nozzle	
"V"	A3G 910-AI02 -03	W3G 910-CI02 -03	S3G 910-BI02 -03	S3G 910-AI02 -03	—	
"A"	A3G 910-AI02 -04	W3G 910-CI02 -04	—	—	S3G 910-CI02 -04	

EC axial fans mains-powered

S series, Ø 910, drawings for direction of air flow "V"



Without attachments

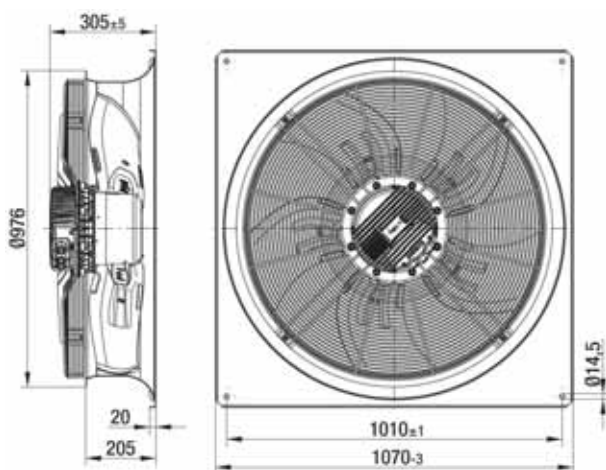


< "V"

Type	Mass [kg]	g
A3G 910-AG10 -13	25.5	249.5
A3G 910-AG02 -03	25.5	249.5
A3G 910-AH09 -13	28.5	249.5
A3G 910-AH04 -03	28.5	249.5
A3G 910-AI02 -03	33.0	284.5

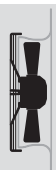


With full square nozzle

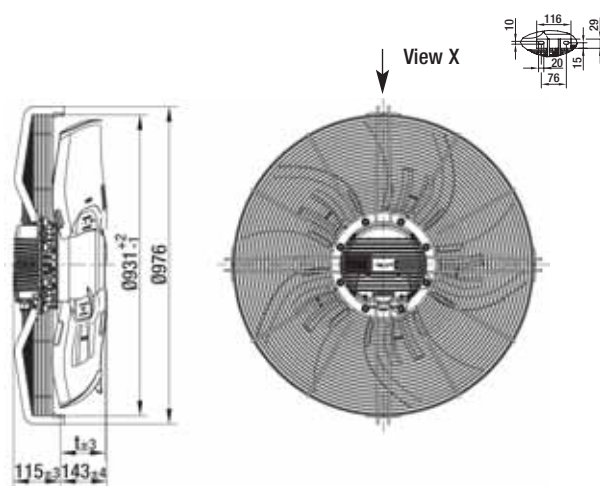


< "V"

Type	Mass [kg]
W3G 910-CG10 -13	51.0
W3G 910-CG02 -03	51.0
W3G 910-CH09 -13	54.0
W3G 910-CH04 -03	54.0
W3G 910-CI02 -03	58.5



With guard grille for full nozzle

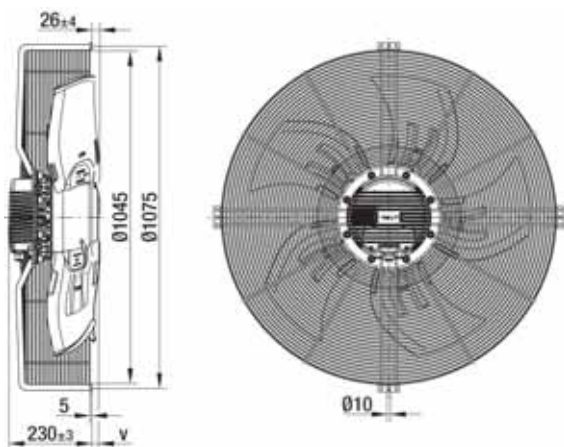


< "V"

Type	Mass [kg]	t
S3G 910-BG10 -13	34.0	134.5
S3G 910-BG02 -03	34.0	134.5
S3G 910-BH09 -13	37.0	134.5
S3G 910-BH04 -03	37.0	134.5
S3G 910-BI02 -03	41.5	169.5



With guard grille for short nozzle



< "v"

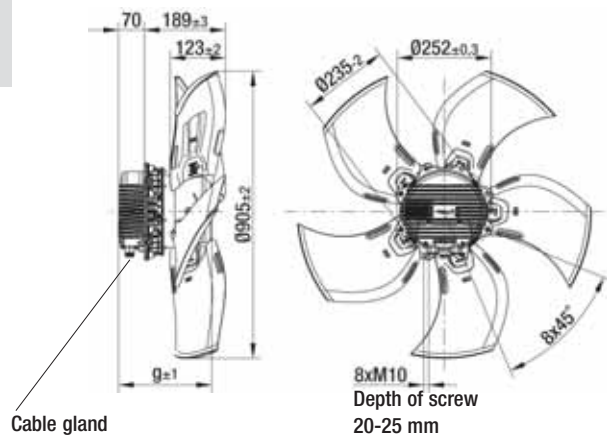
Type	Mass [kg]	v
S3G 910-AG10 -13	36.0	19.5
S3G 910-AG02 -03	36.0	19.5
S3G 910-AH09 -13	39.0	19.5
S3G 910-AH04 -03	39.0	19.5
S3G 910-AI02 -03	43.5	54.5

EC axial fans mains-powered

S series, Ø 910, drawings for direction of air flow "A"



Without attachments

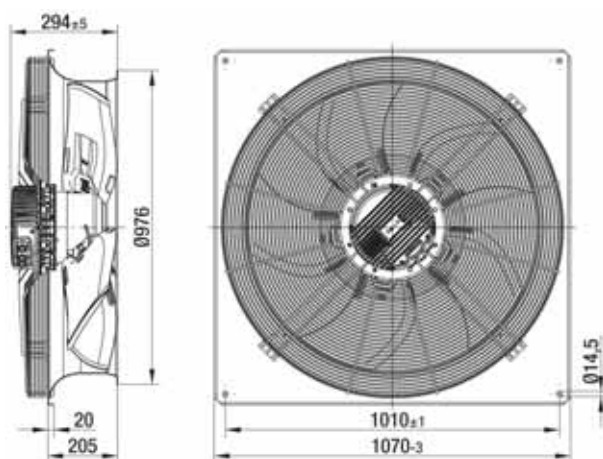


"A" >

Type	Mass [kg]	g
A3G 910-AG10 -14	25.5	249.5
A3G 910-AG02 -04	25.5	249.5
A3G 910-AH09 -14	28.5	249.5
A3G 910-AH04 -04	28.5	249.5
A3G 910-AI02 -04	33.0	284.5



With full square nozzle

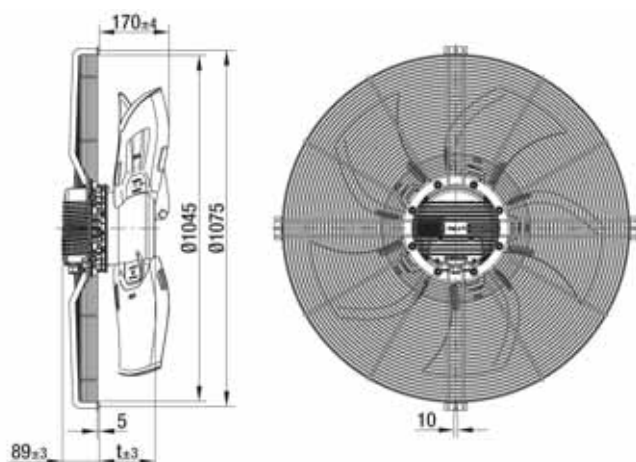


"A" >

Type	Mass [kg]
W3G 910-CG10 -14	52.0
W3G 910-CG02 -04	52.0
W3G 910-CH09 -14	55.0
W3G 910-CH04 -04	55.0
W3G 910-CI02 -04	59.5



With guard grille for full nozzle



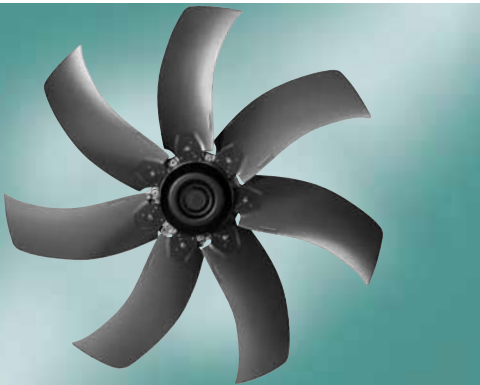
"A" >

Type	Mass [kg]	t
S3G 910-CG10 -14	35.0	160.5
S3G 910-CG02 -04	35.0	160.5
S3G 910-CH09 -14	38.0	160.5
S3G 910-CH04 -04	38.0	160.5
S3G 910-CI02 -04	42.5	195.5

Contacts	Technology	Accessories	EC-SYSTEMS	ESM	Q-motor	EC axial S series	EC axial fans	AC axial A series	AC axial K series	AC axial S series	AC axial fans	General information
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EC axial fans mains-powered

S series, Ø 990



- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Die-cast aluminium
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 7
- **Direction of rotation:** Dir. of air flow "V" clockwise, "A" counter-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

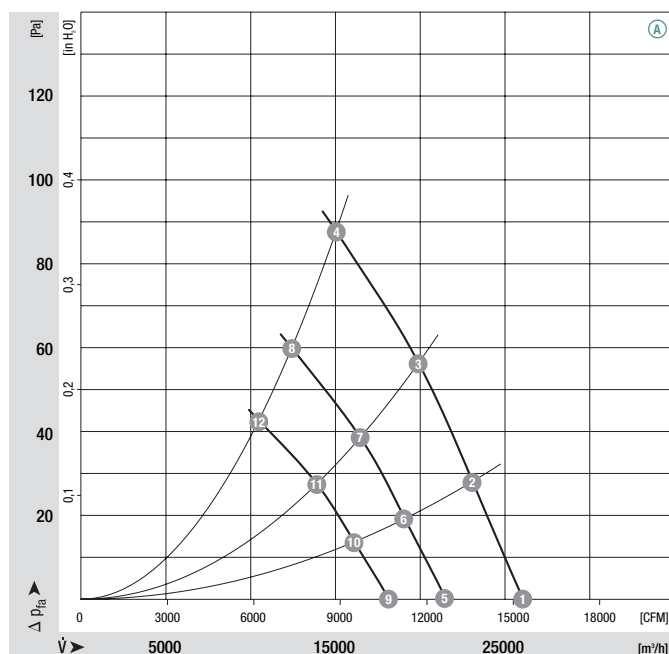
Nominal data

Type	Motor		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
				VAC	Hz	rpm	kW	A	Pa	°C	p. 428
*3G 990	M3G 150-FF		A	3~ 200-240	50/60	545	0.90	3.80	90	-25 to +60	M)
*3G 990	M3G 150-FF		B	3~ 380-480	50/60	545	0.90	1.90	90	-25 to +60	M)

subject to alterations

(1) Nominal data in operating point with maximum load and 200 or 400 VAC

Curves



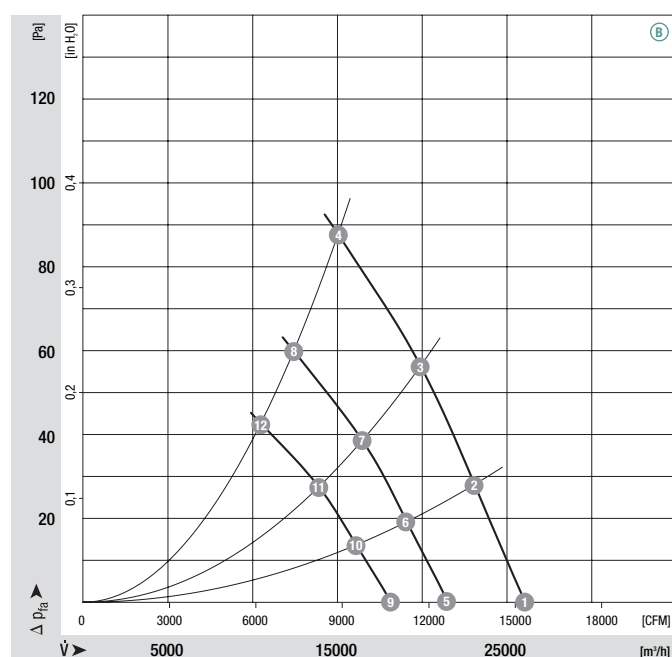
	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
A 1	545	0.63	2.40	70	—
A 2	545	0.74	2.60	71	72
A 3	545	0.81	2.80	71	70
A 4	545	0.88	3.00	70	57
A 5	450	0.36	1.40	65	—
A 6	450	0.42	1.60	66	72
A 7	450	0.46	1.80	66	70
A 8	450	0.50	1.80	65	57
A 9	380	0.22	0.80	61	—
A 10	380	0.26	1.00	61	72
A 11	380	0.28	1.20	61	70
A 12	380	0.31	1.20	61	57

Technical features:

- 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 / phase failure detection
 - Motor current limitation
 - Over-temperature protected electronics / motor
 - Locked rotor protection
 - Soft start
- **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
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** UL, CSA, CCC, GOST;  also VDE

	Direction of air flow					
	< "V"/"A" >	< "V"/"A" >	< "V" >	< "V" >	< "A" >	
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle	With guard grille for full nozzle	
"V"	A3G 990-AC04 -13	W3G 990-CC04 -13	S3G 990-BC04 -13	—	—	
"A"	A3G 990-AC04 -14	W3G 990-CC04 -14	—	—	S3G 990-CC04 -14	
"V"	A3G 990-AC03 -03	W3G 990-CC03 -03	S3G 990-BC03 -03	—	—	
"A"	A3G 990-AC03 -04	W3G 990-CC03 -04	—	—	S3G 990-CC03 -04	

Curves



	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
 1	545	0.63	1.20	70	—
 2	545	0.74	1.30	71	72
 3	545	0.81	1.40	71	70
 4	545	0.88	1.50	70	57
 5	450	0.36	0.70	65	—
 6	450	0.42	0.80	66	72
 7	450	0.46	0.90	66	70
 8	450	0.50	0.90	65	57
 9	380	0.22	0.40	61	—
 10	380	0.26	0.50	61	72
 11	380	0.28	0.60	61	70
 12	380	0.31	0.60	61	57

EC axial fans mains-powered

S series, Ø 990

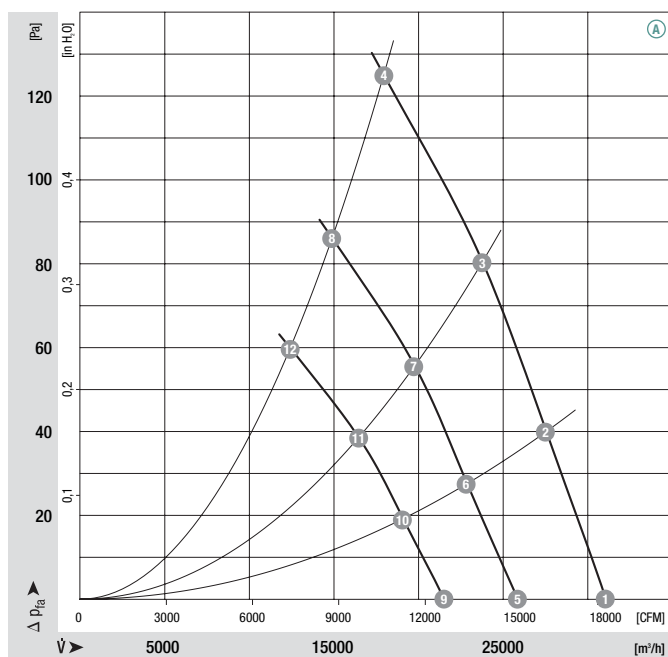


- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Die-cast aluminium
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 7
- **Direction of rotation:** Dir. of air flow "V" clockwise, "A" counter-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			Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
Type	Motor			VAC	Hz	rpm	kW	A	Pa	°C	p. 428
*3G 990	M3G 150-IF		(A)	3~ 200-240	50/60	650	1.50	4.80	120	-25 to +60	M)
*3G 990	M3G 150-IF		(B)	3~ 380-480	50/60	650	1.50	2.60	120	-25 to +60	M)

subject to alterations (1) Nominal data in operating point with maximum load and 200 or 400 VAC

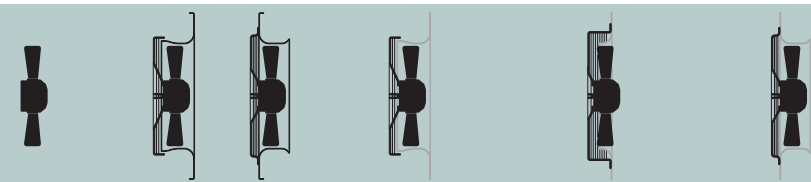
Curves



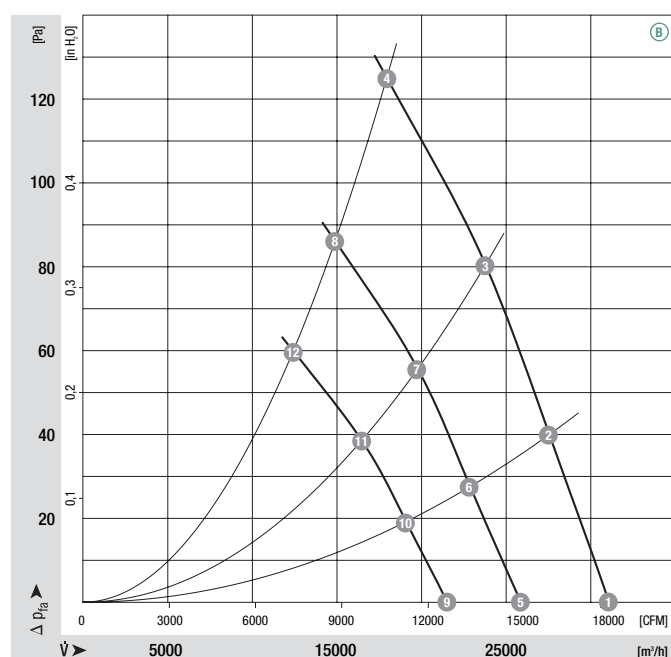
	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
(A) 1	650	1.02	3.60	75	—
(A) 2	650	1.21	4.00	76	72
(A) 3	650	1.32	4.40	76	70
(A) 4	650	1.44	4.60	75	57
(A) 5	540	0.60	2.20	70	—
(A) 6	540	0.71	2.60	71	72
(A) 7	540	0.78	2.80	71	70
(A) 8	540	0.84	3.00	70	57
(A) 9	450	0.36	1.40	65	—
(A) 10	450	0.42	1.60	66	72
(A) 11	450	0.46	1.80	66	70
(A) 12	450	0.50	1.80	65	57

Technical features:

- 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 / phase failure detection
 - Motor current limitation
 - Over-temperature protected electronics / motor
 - Locked rotor protection
 - Soft start
- **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
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** UL, CSA, GOST;  also VDE

Direction of air flow						
	< "V"/"A" >	< "V"/"A" >	< "V" >	< "V" >	< "V" >	< "V" >
	Without attachments	With full square nozzle	With guard grille for full nozzle	With guard grille for short nozzle	With guard grille for full nozzle	With guard grille for full nozzle
"V"	A3G 990-AD11 -13	W3G 990-CD11 -13	S3G 990-BD11 -13	—	—	—
"A"	A3G 990-AD11 -14	W3G 990-CD11 -14	—	—	—	S3G 990-CD11 -14
"V"	A3G 990-AD05 -03	W3G 990-CD05 -03	S3G 990-BD05 -03	—	—	—
"A"	A3G 990-AD05 -04	W3G 990-CD05 -04	—	—	—	S3G 990-CD05 -04

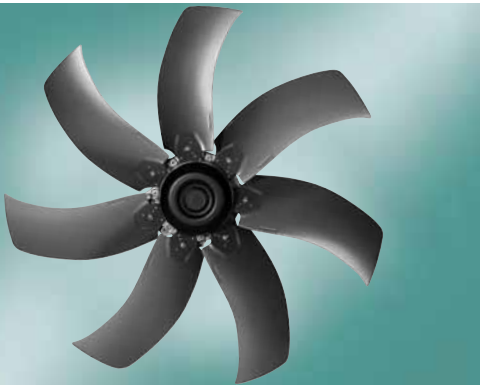
Curves



	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]	η_{HL} [%]
 1	650	1.02	1.80	75	—
 2	650	1.21	2.00	76	72
 3	650	1.32	2.20	76	70
 4	650	1.44	2.30	75	57
 5	540	0.60	1.10	70	—
 6	540	0.71	1.30	71	72
 7	540	0.78	1.40	71	70
 8	540	0.84	1.50	70	57
 9	450	0.36	0.70	65	—
 10	450	0.42	0.80	66	72
 11	450	0.46	0.90	66	70
 12	450	0.50	0.90	65	57

EC axial fans mains-powered

S series, Ø 990



- **Material:** Guard grille: Steel, phosphated and coated in black plastic
Wall ring: Sheet steel, pre-galvanised and coated in black plastic
Blades: Die-cast aluminium
Rotor: Cast-in with PA plastic
Electronics enclosure: Die-cast aluminium, coated in black
- **Number of blades:** 7
- **Direction of rotation:** Dir. of air flow "V" clockwise, "A" counter-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

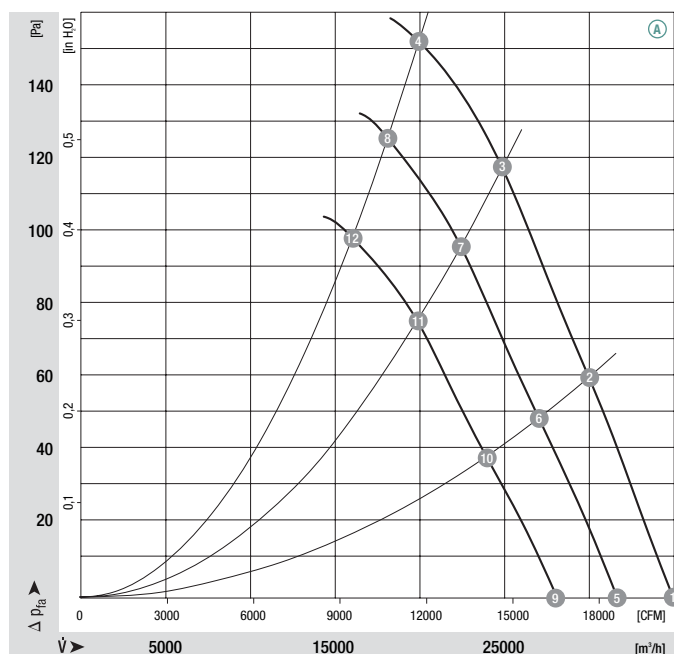
Nominal data

Type	Motor		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Max. operative range	Perm. amb. temp.	Electr. connection
				VAC	Hz	rpm	kW	A	Pa	°C	p. 428
*3G 990	M3G 150-NA		A	3~ 380-480	50/60	720	2.00	3.00	150	-25 to +60	M)

subject to alterations

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

Curves



	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
A 1	720	1.47	2.20	74	—
A 2	720	1.72	2.60	75	79
A 3	720	1.89	2.90	77	73
A 4	720	1.99	3.00	78	60
A 5	655	1.10	1.70	72	—
A 6	655	1.29	2.00	73	75
A 7	655	1.40	2.10	74	73
A 8	655	1.51	2.30	76	60
A 9	580	0.77	1.20	73	—
A 10	580	0.90	1.40	74	75
A 11	580	0.97	1.50	75	73
A 12	580	1.05	1.60	77	60

– **Technical features:**

- 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 / phase failure detection
- Motor current limitation
- Over-temperature protected electronics / motor
- Locked rotor protection
- Soft start

– **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

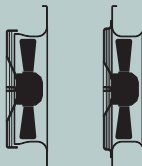
– **Leakage current:** < 3.5 mA acc. to EN 61800-5-1

– **Connection leads:** Via terminal strip

– **Protection class:** I (acc. to EN 61800-5-1)

– **Product conforming to standard:** CE

– **Approvals:** VDE, UL, CSA, GOST

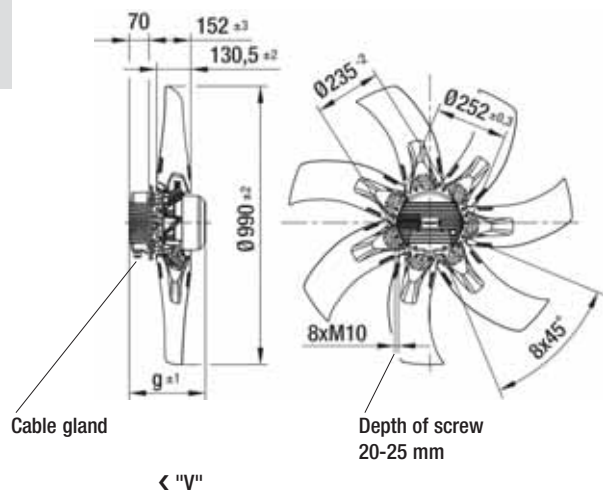
Direction of air flow										
	< "V" / "A" >		< "V" / "A" >		< "V" >		< "V" >		> "A" <	
	Without attachments		With full square nozzle		With guard grille for full nozzle		With guard grille for short nozzle		With guard grille for full nozzle	
"V"	A3G 990-AE03 -03		W3G 990-CE03 -03		S3G 990-BE03 -03		—		—	
"A"	A3G 990-AE03 -04		W3G 990-CE03 -04		—		—		S3G 990-CE03 -04	

EC axial fans mains-powered

S series, Ø 990, drawings for direction of air flow "V"



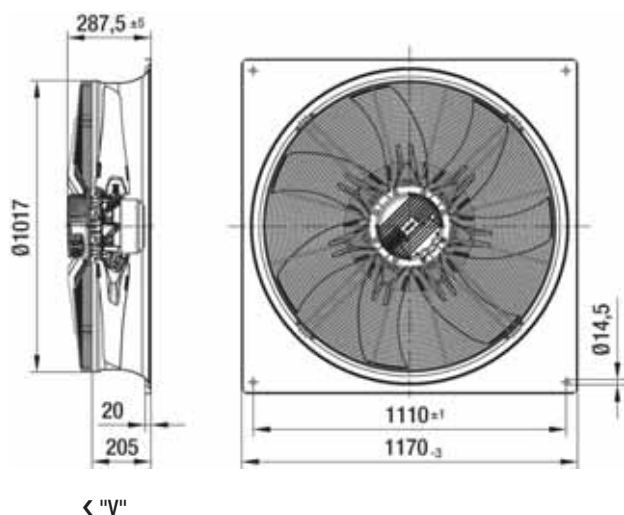
Without attachments



Type	Mass [kg]	g
A3G 990-AC04 -13	26.5	219.5
A3G 990-AC03 -03	26.5	219.5
A3G 990-AD11 -13	30.5	249.5
A3G 990-AD05 -03	30.5	249.5
A3G 990-AE03 -03	35.0	284.5



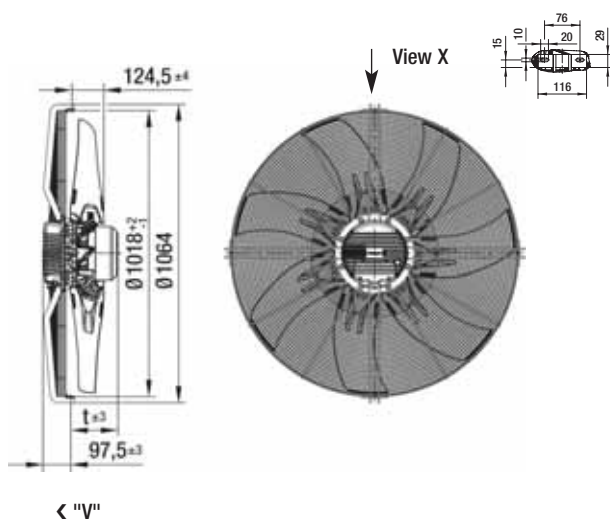
With full square nozzle



Type	Mass [kg]
W3G 990-CC04 -13	55.0
W3G 990-CC03 -03	55.0
W3G 990-CD11 -13	59.0
W3G 990-CD05 -03	59.0
W3G 990-CE03 -03	63.5



With guard grille for full nozzle



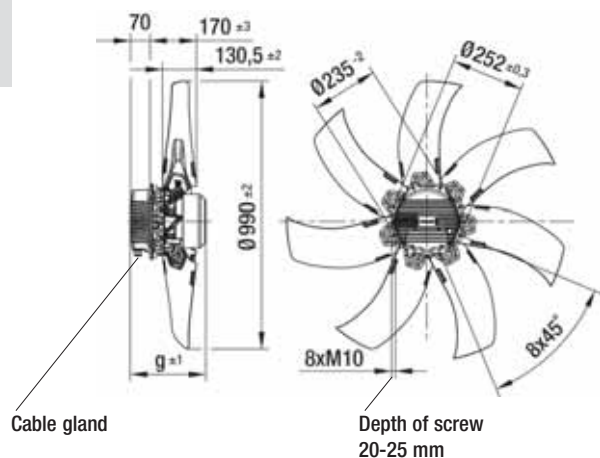
Type	Mass [kg]	t
S3G 990-BC04 -13	36.5	122.0
S3G 990-BC03 -03	36.5	122.0
S3G 990-BD11 -13	40.5	152.0
S3G 990-BD05 -03	40.5	152.0
S3G 990-BE03 -03	45.0	187.0

EC axial fans mains-powered

S series, Ø 990, drawings for direction of air flow "A"



Without attachments

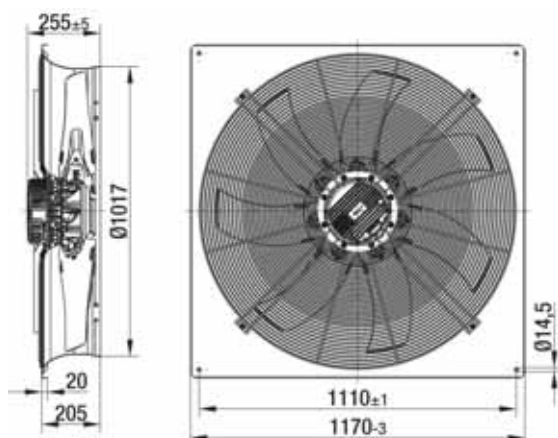


"A" >

Type	Mass [kg]	g
A3G 990-AC04 -14	26.5	219.5
A3G 990-AC03 -04	26.5	219.5
A3G 990-AD11 -14	30.5	249.5
A3G 990-AD05 -04	30.5	249.5
A3G 990-AE03 -04	35.0	284.5



With full square nozzle

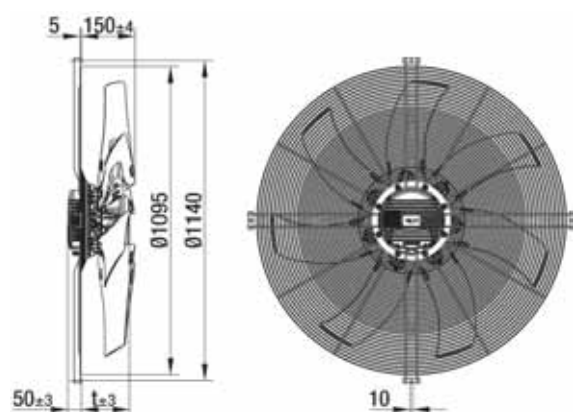


"A" >

Type	Mass [kg]
W3G 990-CC04 -14	56.0
W3G 990-CC03 -04	56.0
W3G 990-CD11 -14	60.0
W3G 990-CD05 -04	60.0
W3G 990-CE03 -04	64.5



With guard grille for full nozzle



"A" >

Type	Mass [kg]	t
S3G 990-CC04 -14	37.5	169.5
S3G 990-CC03 -04	37.5	169.5
S3G 990-CD11 -14	41.5	199.5
S3G 990-CD05 -04	41.5	199.5
S3G 990-CE03 -04	46.0	234.5