

EC centrifugal fans and modules

backward curved, 3-D, Ø 355



- **Material:** Support bracket: Steel, coated in black
Support plate: Sheet aluminium, spacer profiles: Aluminium
Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on top; rotor on bottom on request
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

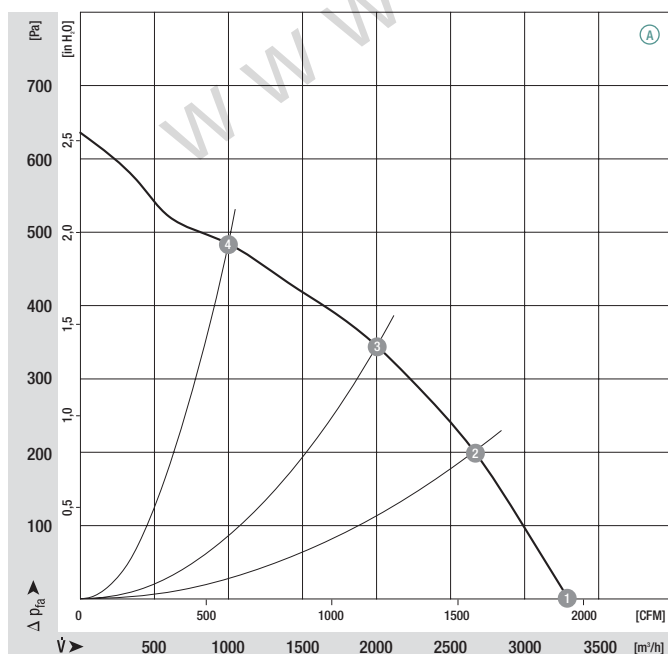
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
*3G 355	M3G 084-FA	Ⓐ	1~ 100-130	50/60	1730	355	4.10	-25 to +60	p. 605

subject to alterations

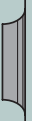
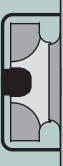
(1) Nominal data in operating point with maximum load and 115 VAC

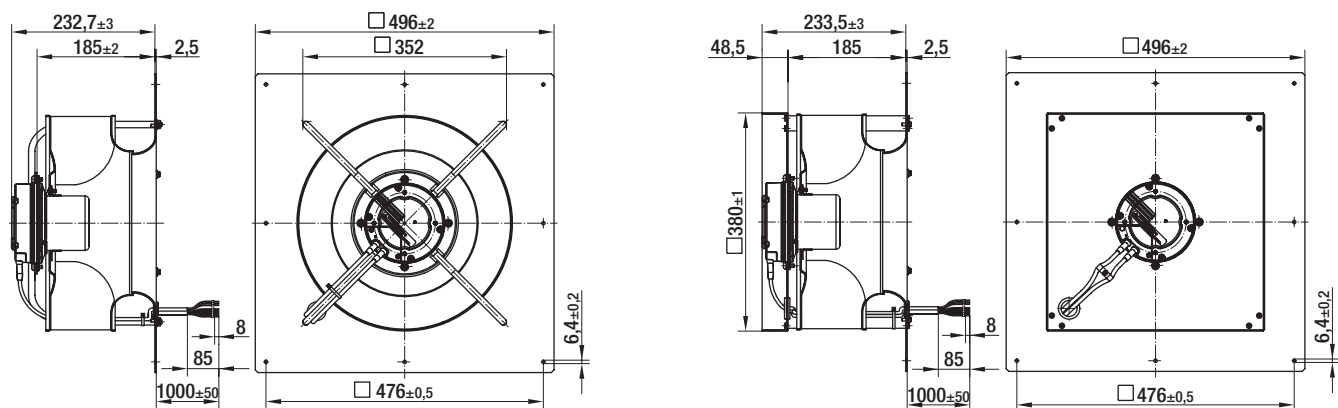
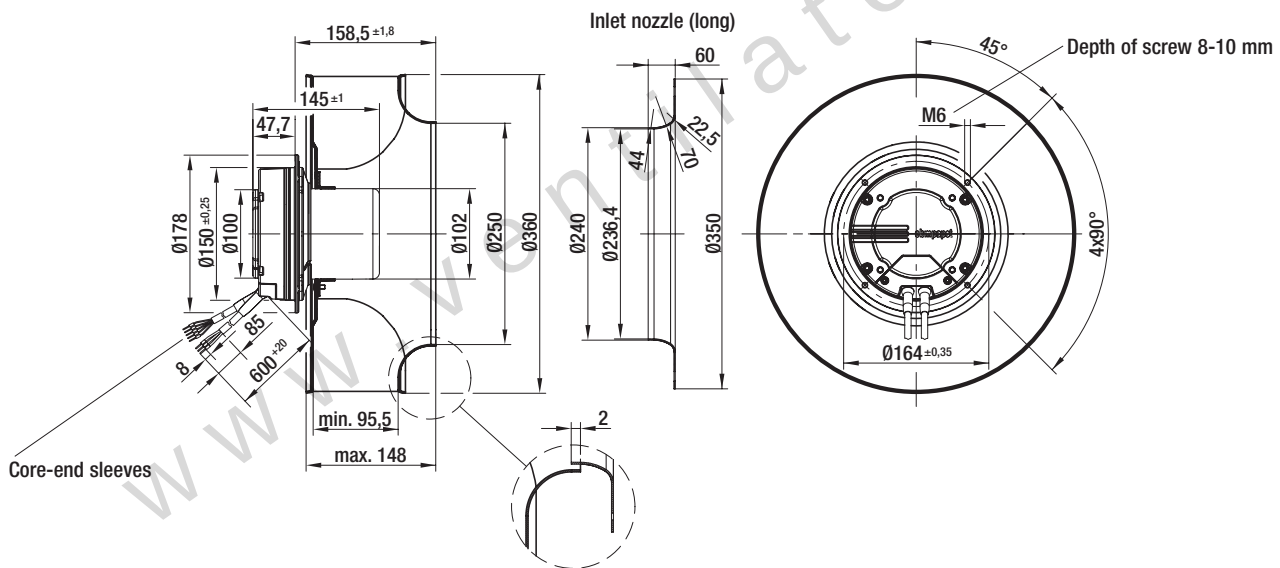
Curves (established with long inlet nozzle)



	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	1730	278	3.20	74	—
Ⓐ 2	1675	338	3.90	69	58
Ⓐ 3	1650	355	4.20	66	70
Ⓐ 4	1700	310	3.60	68	60

- **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 DIN 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

	Mass of centrifugal fan				Mass of centrifugal module with support bracket		Mass of centrifugal module with support plate
Centrifugal fan	kg	Inlet nozzle (long)	Inlet nozzle (short)	Centrifugal module w. support bracket	kg	Centrifugal module with support plate	kg
R3G 355-AM36-81	5.7	35560-2-4013	35561-2-4013	K3G 355-AM36-82	9.2	K3G 355-AM36-81	8.8



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- **Material:** Support bracket: Steel, coated in black
Support plate: Sheet aluminium, spacer profiles: Aluminium
Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on top; rotor on bottom on request
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

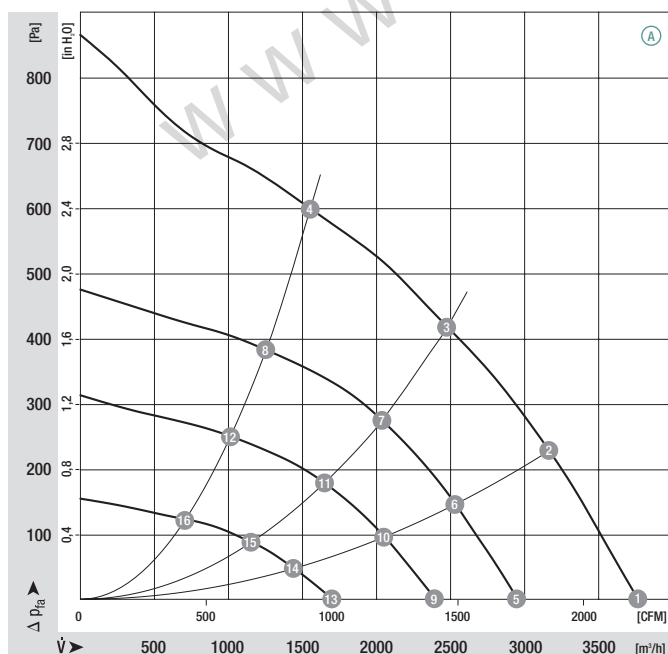
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	°C	p. 605
*3G 355	M3G 084-FA	Ⓐ	1~ 200-277	50/60	1970	500	3.15	-25 to +60	K1)

subject to alterations

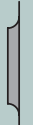
(1) Nominal data in operating point with maximum load and 230 VAC

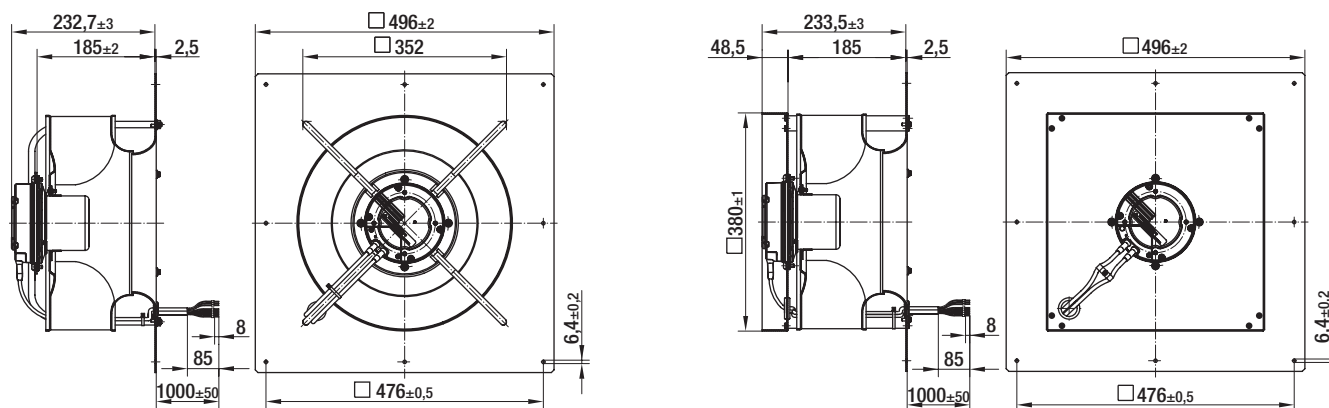
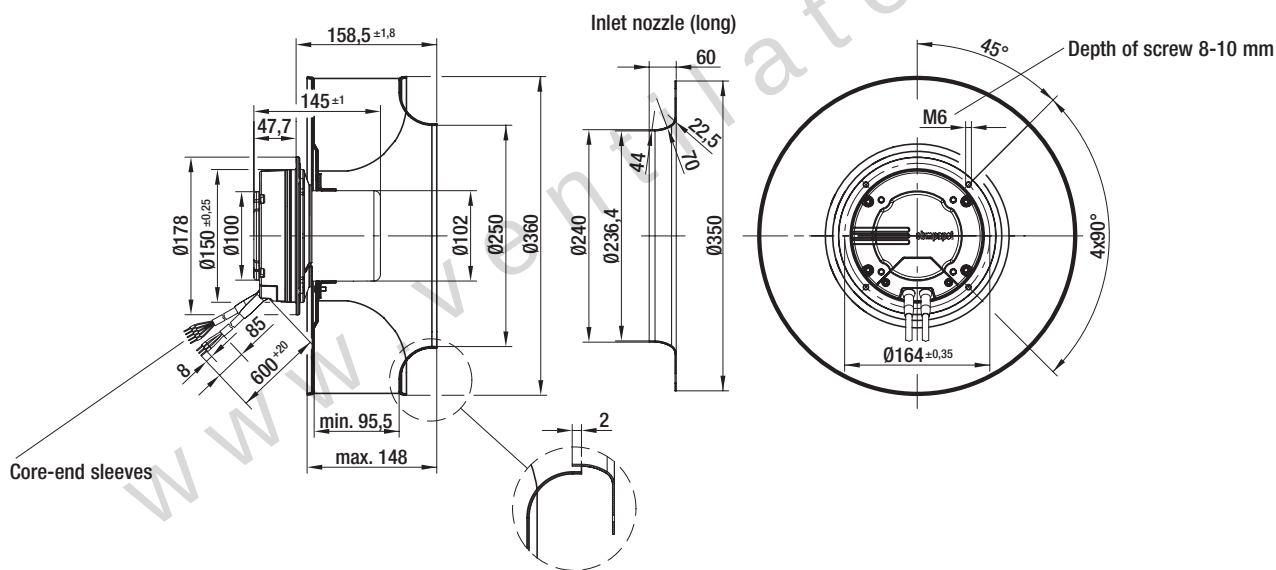
Curves (established with long inlet nozzle)



	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{IL} [%]
Ⓐ 1	1970	390	2.50	77	—
Ⓐ 2	1920	469	2.95	73	56
Ⓐ 3	1880	500	3.15	69	70
Ⓐ 4	1925	476	3.00	71	62
Ⓐ 5	1580	200	1.20	71	—
Ⓐ 6	1580	260	1.50	67	56
Ⓐ 7	1580	290	1.70	64	70
Ⓐ 8	1580	265	1.60	64	62
Ⓐ 9	1280	110	0.70	65	—
Ⓐ 10	1280	144	0.90	61	56
Ⓐ 11	1280	157	1.00	58	70
Ⓐ 12	1280	132	0.80	59	62
Ⓐ 13	910	44	0.30	55	—
Ⓐ 14	910	57	0.40	52	56
Ⓐ 15	910	62	0.40	49	70
Ⓐ 16	910	48	0.40	50	62

- **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 DIN 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

	Mass of centrifugal fan				Mass of centrifugal module with support bracket		Mass of centrifugal module with support plate
Centrifugal fan	kg	Inlet nozzle (long)	Inlet nozzle (short)	Centrifugal module w. support bracket	kg	Centrifugal module with support plate	kg
R3G 355-AM29-71	5.7	35560-2-4013	35561-2-4013	K3G 355-AM29-72	9.2	K3G 355-AM29-71	8.8



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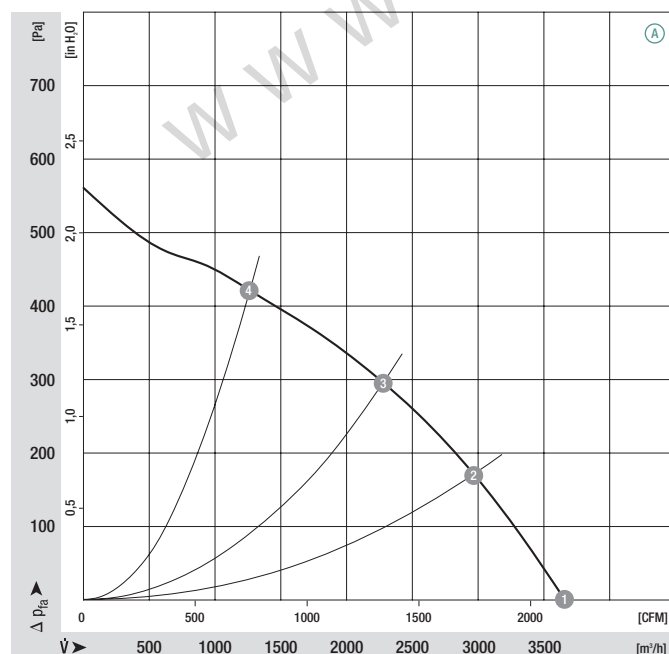
- **Material:** Support bracket: Steel, coated in black
Support plate: Sheet aluminium, spacer profiles: Aluminium
Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on top; rotor on bottom on request
- **Condensate discharges:** None
- **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⁾	Perm. amb. temp.	Electr. connection
Type	Motor	VAC	Hz	rpm	W	A	°C	p. 605	
*3G 355	M3G 084-FA	Ⓐ 1~	100-130	50/60	1630	350	4.20	-25 to +60	K1)

subject to alterations

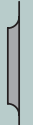
(1) Nominal data in operating point with maximum load and 115 VAC

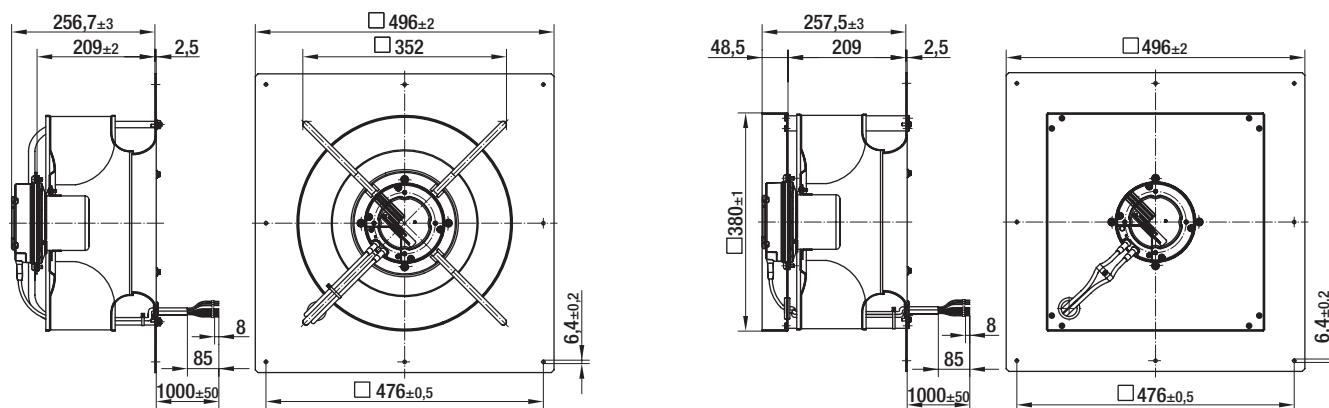
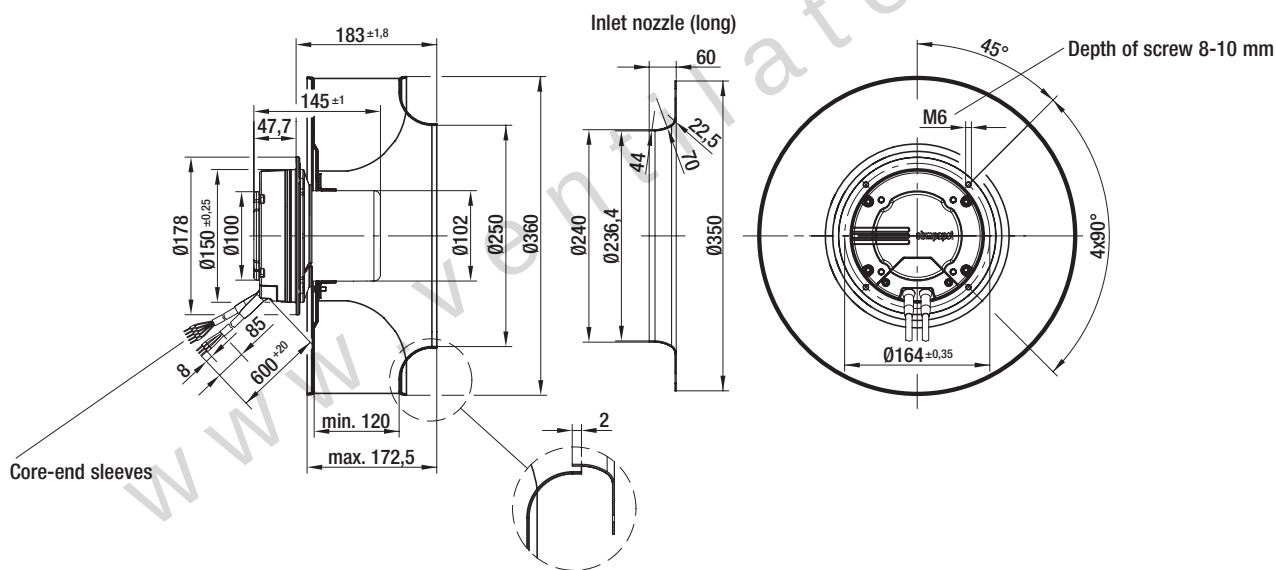
Curves (established with long inlet nozzle)



	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	1630	283	3.50	72	—
Ⓐ 2	1580	344	4.00	68	58
Ⓐ 3	1570	350	4.20	64	68
Ⓐ 4	1605	319	3.90	67	57

- **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 DIN 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

	Mass of centrifugal fan				Mass of centrifugal module with support bracket		Mass of centrifugal module with support plate
Centrifugal fan	kg	Inlet nozzle (long)	Inlet nozzle (short)	Centrifugal module w. support bracket	kg	Centrifugal module with support plate	kg
R3G 355-AN37 -81	5.8	35560-2-4013	35561-2-4013	K3G 355-AN37 -82	10.0	K3G 355-AN37 -81	9.0



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- **Material:** Support bracket: Steel, coated in black
Support plate: Sheet aluminium, spacer profiles: Aluminium
Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on top; rotor on bottom on request
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

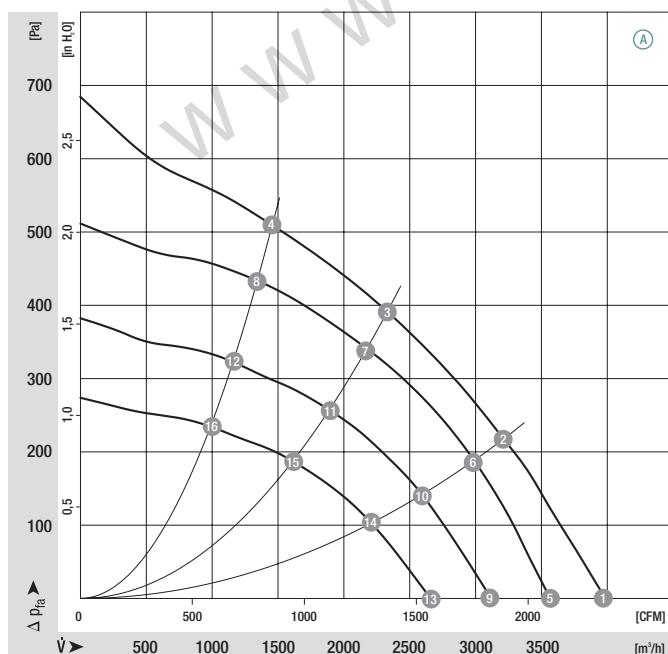
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	°C	p. 605
*3G 355	M3G 084-FA	Ⓐ	1~ 200-277	50/60	1770	450	2.90	-25 to +60	K1)

subject to alterations

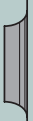
(1) Nominal data in operating point with maximum load and 230 VAC

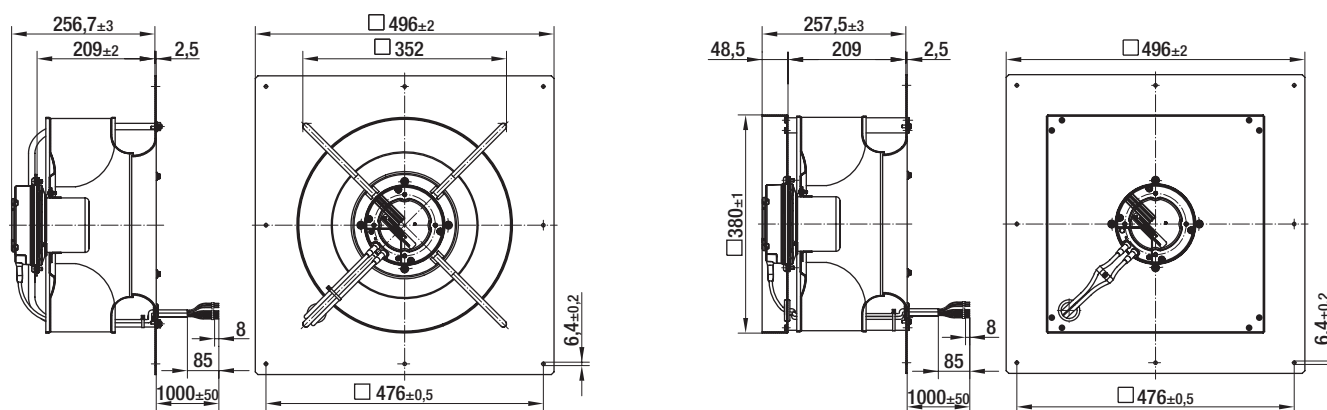
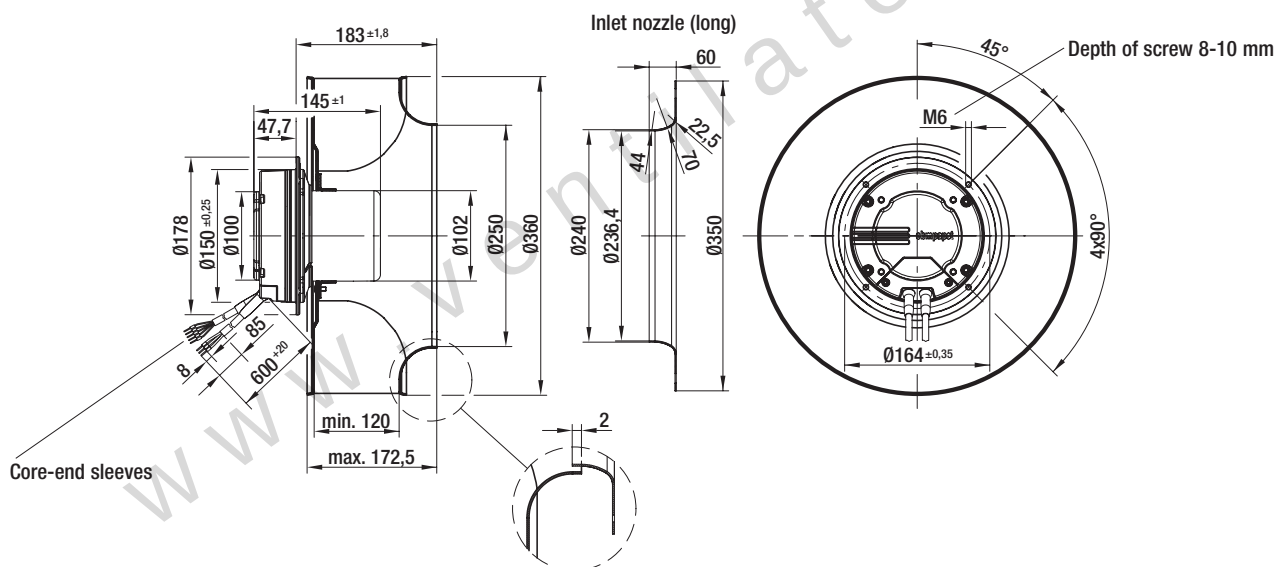
Curves (established with long inlet nozzle)



	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{IL} [%]
Ⓐ 1	1770	362	2.30	73	—
Ⓐ 2	1720	434	2.75	68	58
Ⓐ 3	1710	450	2.90	64	68
Ⓐ 4	1745	412	2.60	67	57
Ⓐ 5	1620	270	1.60	73	—
Ⓐ 6	1620	360	2.10	67	58
Ⓐ 7	1620	375	2.20	63	68
Ⓐ 8	1620	335	2.00	65	57
Ⓐ 9	1400	182	1.10	67	—
Ⓐ 10	1400	235	1.40	64	58
Ⓐ 11	1400	247	1.50	59	68
Ⓐ 12	1400	218	1.30	62	57
Ⓐ 13	1200	120	0.80	62	—
Ⓐ 14	1200	152	1.00	59	58
Ⓐ 15	1200	160	1.00	56	68
Ⓐ 16	1200	140	0.90	57	57

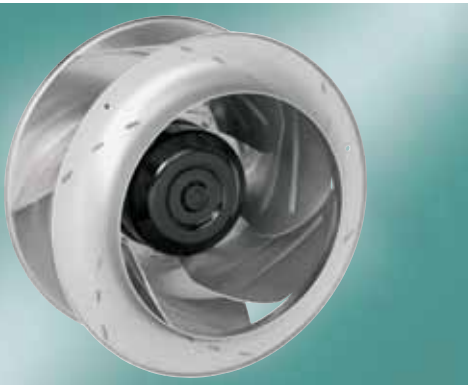
- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection 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

	Mass of centrifugal fan				Mass of centrifugal module with support bracket		Mass of centrifugal module with support plate
Centrifugal fan	kg	Inlet nozzle (long)	Inlet nozzle (short)	Centrifugal module w. support bracket	kg	Centrifugal module with support plate	kg
R3G 355-AN04 -71	5.8	35560-2-4013	35561-2-4013	K3G 355-AN04 -72	10.0	K3G 355-AN04 -71	9.0



EC centrifugal fans and modules

backward curved, 3-D, Ø 355



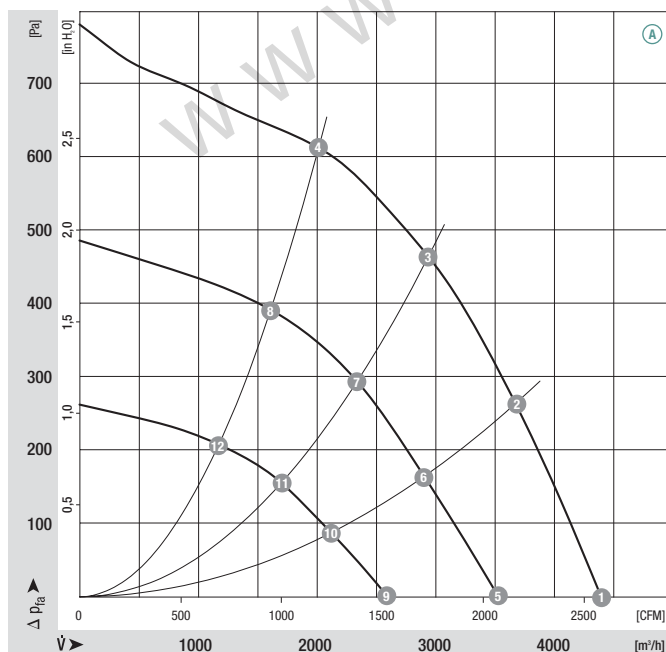
- **Material:** Support bracket: Steel, coated in black
Support plate: Galvanised sheet steel, spacer profiles: Aluminium
Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	kW	A	°C	p. 607
*3G 355	M3G 112-EA	 1 ~	200-277	50/60	2035	0.74	3.34	-25 to +60	L1)

subject to alterations

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

Curves (established with long inlet nozzle)

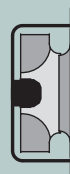
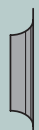


	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]	η _{IL} [%]
Ⓐ 1	2035	0.57	2.60	84	—
Ⓐ 2	2035	0.69	3.10	81	52
Ⓐ 3	2035	0.74	3.30	78	64
Ⓐ 4	2035	0.70	3.10	82	61
Ⓐ 5	1585	0.28	1.30	76	—
Ⓐ 6	1580	0.32	1.50	73	52
Ⓐ 7	1580	0.34	1.60	71	71
Ⓐ 8	1580	0.33	1.50	73	68
Ⓐ 9	1150	0.12	0.60	67	—
Ⓐ 10	1145	0.14	0.70	64	54
Ⓐ 11	1140	0.15	0.70	63	74
Ⓐ 12	1145	0.14	0.60	64	72

- **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 ($\pm 10\%$) max. 10 mA
 - RS485 ebmBUS
 - Alarm relay
 - Line undervoltage detection
 - Motor current limitation
 - Electronics / motor overtemperature protection
 - Locked-rotor protection
 - Soft start
- **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, CCC, GOST are applied for



Mass of centrifugal fan



Mass of centrifugal module with support bracket



Mass of centrifugal module with support plate

Centrifugal fan

kg

Inlet nozzle (long)

Inlet nozzle (short)

Centrifugal module w. support bracket

kg

Centrifugal module with support plate

kg

R3G 355-AI52 -11

7.3

35560-2-4013

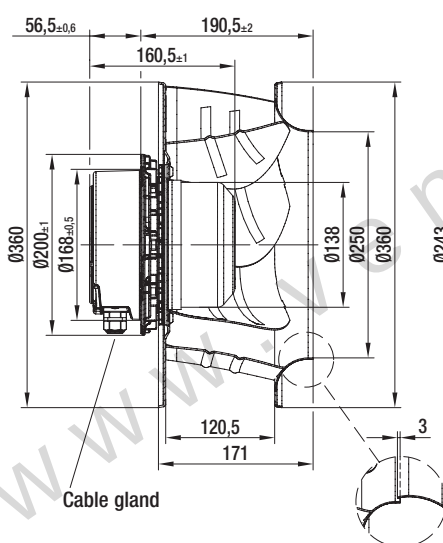
35561-2-4013

K3G 355-AI52 -12

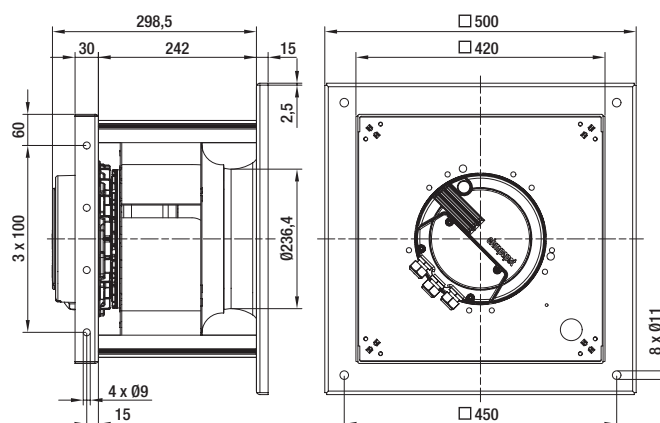
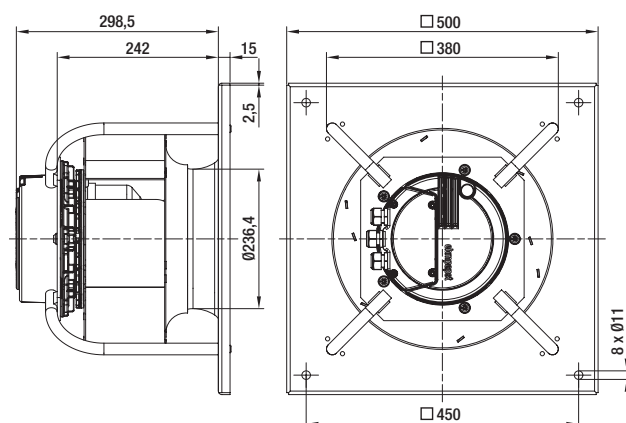
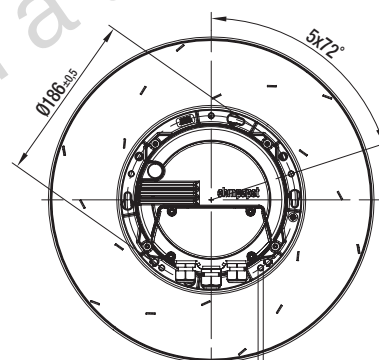
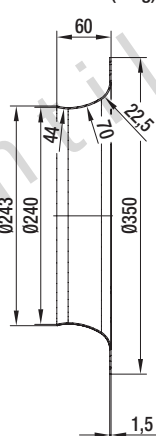
15.8

K3G 355-AI52 -11

18.6

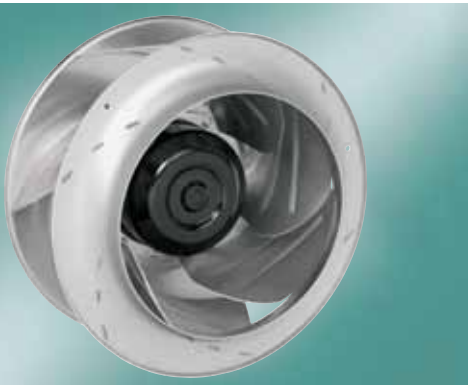


Inlet nozzle (long)



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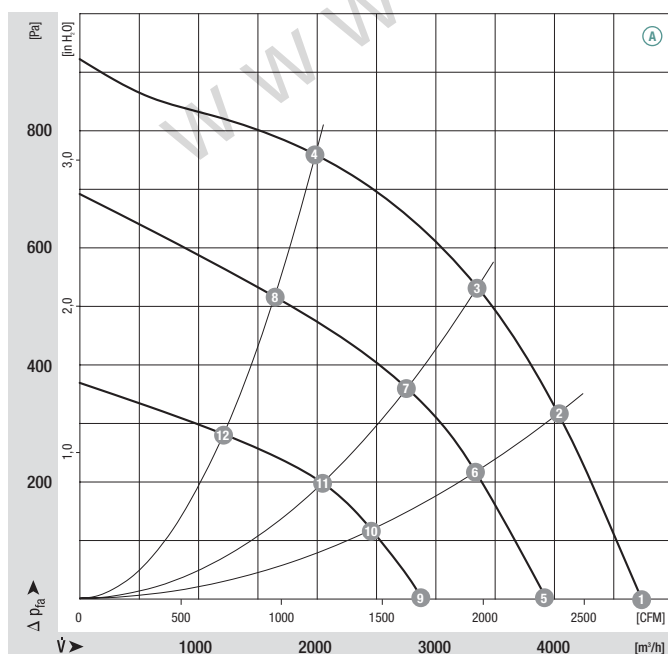
- **Material:** Support bracket: Steel, coated in black
Support plate: Galvanised sheet steel, spacer profiles: Aluminium
Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	kW	A	°C	p. 607
*3G 355	M3G 112-EA	Ⓐ	3~ 200-240	50/60	2215	0.94	3.00	-25 to +60	L2)

subject to alterations

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

Curves (established with long inlet nozzle)

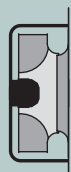
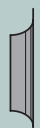


	n [rpm]	P ₁ [kW]	I [A]	L _{WA} [dB(A)]	η _{IL} [%]
Ⓐ 1	2205	0.70	2.50	87	—
Ⓐ 2	2215	0.88	2.80	83	48
Ⓐ 3	2215	0.94	3.00	80	59
Ⓐ 4	2215	0.85	2.70	85	53
Ⓐ 5	1825	0.38	1.50	82	—
Ⓐ 6	1805	0.47	1.70	77	52
Ⓐ 7	1790	0.49	1.80	73	65
Ⓐ 8	1800	0.46	1.90	77	58
Ⓐ 9	1335	0.17	0.70	72	—
Ⓐ 10	1315	0.20	0.80	68	57
Ⓐ 11	1315	0.21	0.90	65	69
Ⓐ 12	1310	0.19	0.80	67	60

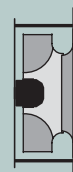
- **Technical features:**
 - PFC (passive)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 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, CCC, GOST are applied for
- 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
- Electronics / motor overtemperature protection
- Locked-rotor protection
- Soft start



Mass of centrifugal fan

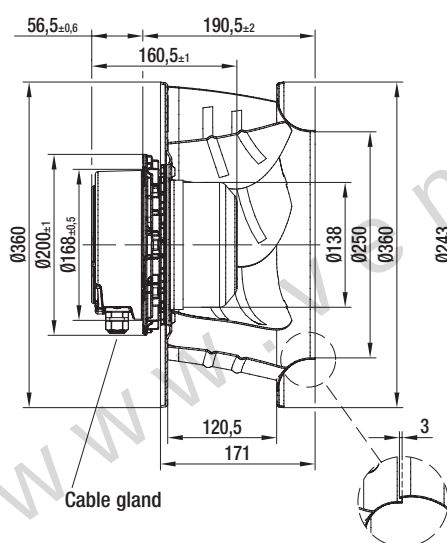


Mass of centrifugal module with support bracket

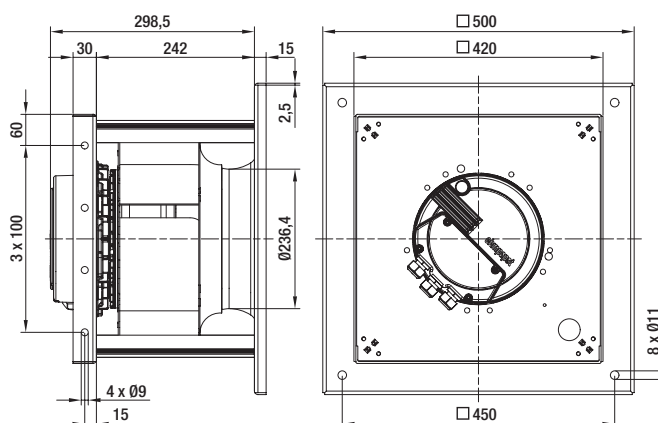
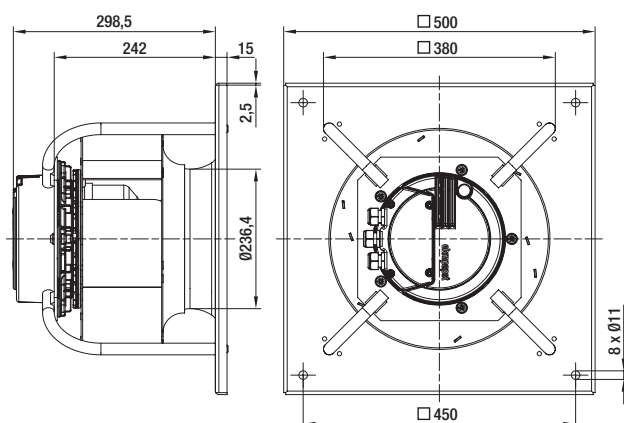
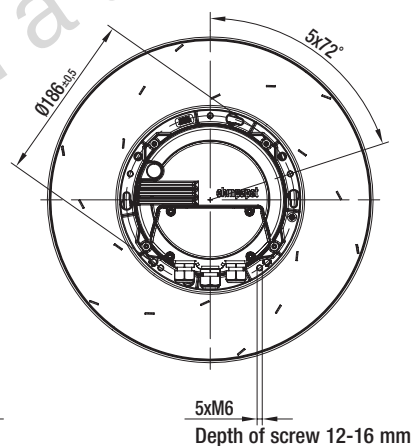
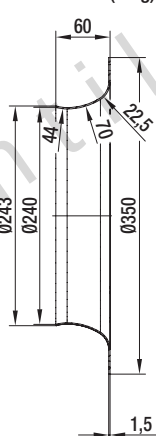


Mass of centrifugal module with support plate

Centrifugal fan	kg	Inlet nozzle (long)	Inlet nozzle (short)	Centrifugal module w. support bracket	kg	Centrifugal module with support plate	kg
R3G 355-AI62 -06	7.3	35560-2-4013	35561-2-4013	K3G 355-AI62 -07	15.8	K3G 355-AI62 -06	18.6

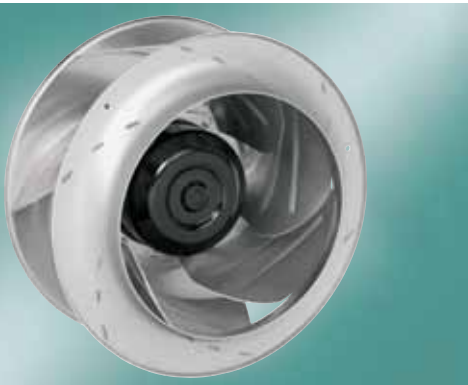


Inlet nozzle (long)



EC centrifugal fans and modules

backward curved, 3-D, Ø 355



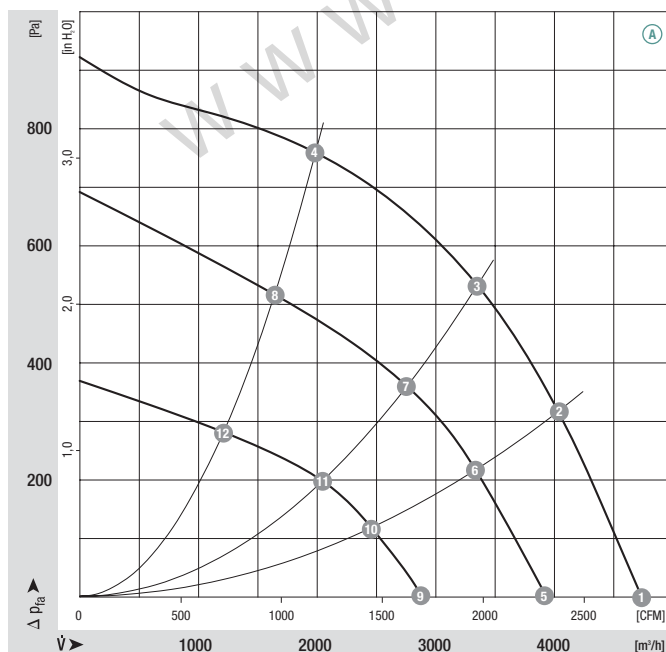
- **Material:** Support bracket: Steel, coated in black
Support plate: Galvanised sheet steel, spacer profiles: Aluminium
Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	kW	A	°C	p. 607
*3G 355	M3G 112-EA	Ⓐ	3~ 380-480	50/60	2215	0.94	1.50	-25 to +60	L2)

subject to alterations

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

Curves (established with long inlet nozzle)

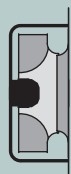
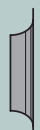


	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]	η _{IL} [%]
Ⓐ 1	2205	0.70	1.30	87	—
Ⓐ 2	2215	0.88	1.40	83	48
Ⓐ 3	2215	0.94	1.50	80	59
Ⓐ 4	2215	0.85	1.40	85	53
Ⓐ 5	1825	0.38	0.70	82	—
Ⓐ 6	1805	0.47	0.90	77	52
Ⓐ 7	1790	0.49	0.90	73	65
Ⓐ 8	1800	0.46	0.90	77	58
Ⓐ 9	1335	0.17	0.40	72	—
Ⓐ 10	1315	0.20	0.40	68	57
Ⓐ 11	1315	0.21	0.40	65	69
Ⓐ 12	1310	0.19	0.40	67	60

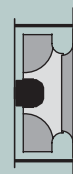
- **Technical features:**
 - PFC (passive)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
 - Slave output 0-10 V max. 3 mA
 - Output 20 VDC ($\pm 20\%$) max. 50 mA
 - Output 10 VDC ($+10\%$) max. 10 mA
 - RS485 ebus
 - Alarm relay
 - Line undervoltage / phase failure detection
 - Motor current limitation
 - Electronics / motor overtemperature protection
 - 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 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, CCC, GOST are applied for



Mass of centrifugal fan



Mass of centrifugal module with support bracket



Mass of centrifugal module with support plate

Centrifugal fan	kg	Inlet nozzle (long)	Inlet nozzle (short)	Centrifugal module w. support bracket	kg	Centrifugal module with support plate	kg
R3G 355-AI56 -01	7.3	35560-2-4013	35561-2-4013	K3G 355-AI56 -02	15.8	K3G 355-AI56 -01	18.6

