



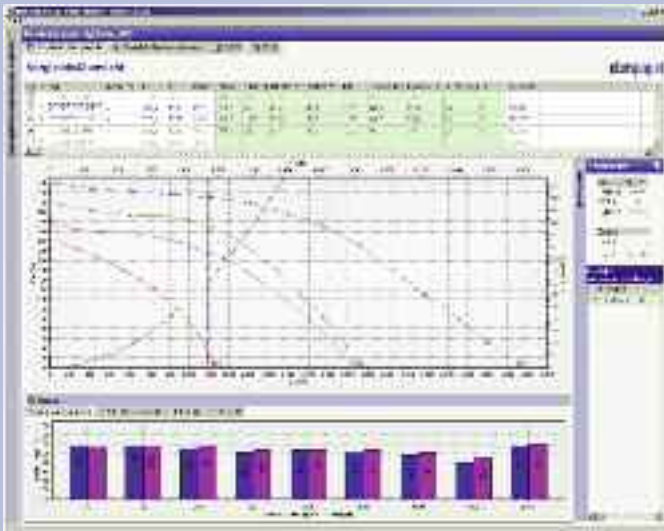
New Plug fans with EC motor

The newly improved ebm-papst Plug Fans meet the ever tougher specifications in air-conditioning and ventilation. Our Plug Fans are designed for operation without scroll housing and for use in air-conditioning units. Further fields of application are, for instance, cooling of power electronics and various other applications in industry.

In view of the upcoming directives on minimum efficiencies, the overall efficiency of the fans was optimised. On top of this, the acoustic characteristics of the new line were adjusted to more demanding market requirements.

There are 8 sizes available, with their outer diameters ranging from 250 to 560 mm, which are driven by energy-saving EC external rotor motors with drive capacities between 400 W and 6 kW.

The welded impellers with their 7 backward curved blades are made of aluminium as this minimises the bearing load of the motors and maximises durability with high circumferential velocity. The position of the impellers on the EC external-rotor motors has been optimised to in terms of aerodynamics and installation requirements.



Additional, and for selecting the proper fan, you can take advantage of the ebm-papst software "Product Selector" with integrated "Black-Box" module for integration in system configuration programmes on customer side. For more detailed information, simply ask your ebm-papst contact!

Table of content



■ New Plug Fans with EC motor	2
■ Text for tenders	4
■ Size 250	6
■ Size 280	10
■ Size 310	16
■ Size 355	18
■ Size 400	22
■ Size 450	26
■ Size 500	30
■ Size 560	34
■ Design for use in sanitation units, size 310 and 450	38
■ Accessories (inlet rings, air intake guard grilles)	42
■ Electrical connections	44
■ ebm-papst representatives & subsidiaries	48

EC Centrifugal fan modules

K3G 250 to K3G 560



Text for tenders

ebm-papst high performance centrifugal fan modules

Single inlet; direct drive; 2D centrifugal impeller with circumferential diffuser mounted on an electronically commutated external-rotor motor with integrated electronics; backward curved impeller blades; inlet nozzle made of galvanised sheet steel with pressure relief; complete unit statically and dynamically balanced in two planes according to DIN / ISO 1940 and to balancing quality G 6.3; EC external-rotor motor with maintenance-free ball bearings and permanent lubrication; wide voltage input 1~200-277V, 50/60 Hz respectively 3~380-480V, 50/60Hz; unit can be operated on all standard Electricity Board networks at identical air performance; optimised motor technology; soft start; integrated current limitation; connection via brought-out variable cable connector (motor size 084) or via easy-to-mount and robust integrated terminal box made of aluminium with spring loaded terminals (motor sizes 112 and 150); extremely compact electronics; with adjustable PID controller (motor sizes 112 and 150); meets all necessary EMC directives and all requirements as to current reverse transfer; no complicated installation with shielded cables required; very low-noise commutation logic; 100% controllability.

If structure-borne noise needs to be decoupled, any such action has to be taken by the customer.

Optionally: Modules with higher protection against corrosion.

For technical details, dimensions and connection - see data sheet

K3G 250-AT39 -72 / -74
K3G 250-AV29 -B2 / -B4
K3G 280-AT04 -72 / -74
K3G 280-AU06 -B2 / -B4
K3G 280-AU06 -C2 / -C4
K3G 310-AX52 -02 / -32
K3G 355-AX56 -02 / -32
K3G 355-AY40 -02 / -32
K3G 400-AY87 -02 / -32

K3G 400-AQ23 -01 / -31
K3G 450-AY86 -02 / -32
K3G 450-AQ24 -01 / -31
K3G 500-AP25 -01 / -31
K3G 500-AQ12 -03 / -33
K3G 560-AP23 -01 / -31
K3G 560-AQ04 -03 / -33
K3G 310-AZ88 -02
K3G 450-AZ26 -03

Protective features

- Alarm relay with zero-potential change-over contacts (250 V AC/2 A, $\cos \varphi = 1$)
- Locked-rotor protection
- Phase failure detection
- Soft start of motors
- Mains under-voltage detection
- Over-temperature protection of electronics and motor
- Short-circuit protection

Technical data

- | | |
|-----------------------------|-----------------------------|
| - Air flow | V = _____ m ³ /h |
| - Static pressure | ΔP_F = _____ Pa |
| - Voltage range | U = _____ V |
| - Frequency | f = _____ Hz |
| - Fan speed | n = _____ min ⁻¹ |
| - Power input | P ₁ = _____ kW |
| - Current input | I = _____ A |
| - Noise level | L _p = _____ dBA |
| - Perm. ambient temperature | t = _____ °C |
| - Fan mass | = _____ kg |
| - Approvals | = _____ |

Fan type

EC centrifugal fans

R3G 250 to R3G 560

Text for tenders



ebm-papst high performance centrifugal fans

Single inlet; direct drive; 2D centrifugal impeller with circumferential diffuser mounted on an electronically commutated external-rotor motor with integrated electronics; backward curved impeller blades; inlet nozzle made of galvanised sheet steel; complete unit statically and dynamically balanced in two planes according to DIN / ISO 1940 and to balancing quality G 6.3; EC external-rotor motor with maintenance-free ball bearings and permanent lubrication; wide voltage input 1~200-277V, 50/60 Hz respectively 3~380-480V, 50/60Hz; unit can be operated on all standard Electricity Board networks at identical air performance; optimised motor technology; soft start; integrated current limitation; connection via brought-out variable cable connector (motor size 084) or via easy-to-mount and robust integrated terminal box made of aluminium with spring loaded terminals (motor sizes 112 and 150); extremely compact electronics; with adjustable PID controller (motor sizes 112 and 150); meets all necessary EMC directives and all requirements as to current reverse transfer; no complicated installation with shielded cables required; very low-noise commutation logic; 100% controllability.

For technical details, dimensions and connection - see data sheet

Protective features

- Alarm relay with zero-potential change-over contacts (250 V AC/2 A, $\cos \varphi = 1$)
- Locked-rotor protection
- Phase failure detection
- Soft start of motors
- Mains under-voltage detection
- Over-temperature protection of electronics and motor
- Short-circuit protection

Technical Data

- | | |
|-----------------------------|-----------------------------|
| - Air flow | V = _____ m ³ /h |
| - Static pressure | ΔP_F = _____ Pa |
| - Voltage range | U = _____ V |
| - Frequency | f = _____ Hz |
| - Fan speed | n = _____ min ⁻¹ |
| - Power input | P ₁ = _____ kW |
| - Current input | I = _____ A |
| - Noise level | L _p = _____ dBA |
| - Perm. ambient temperature | t = _____ °C |
| - Fan mass | = _____ kg |
| - Direction of rotation | = clockwise |
| - Approvals | = _____ |

Fan type

EC centrifugal fans and modules

backward curved, Ø 250



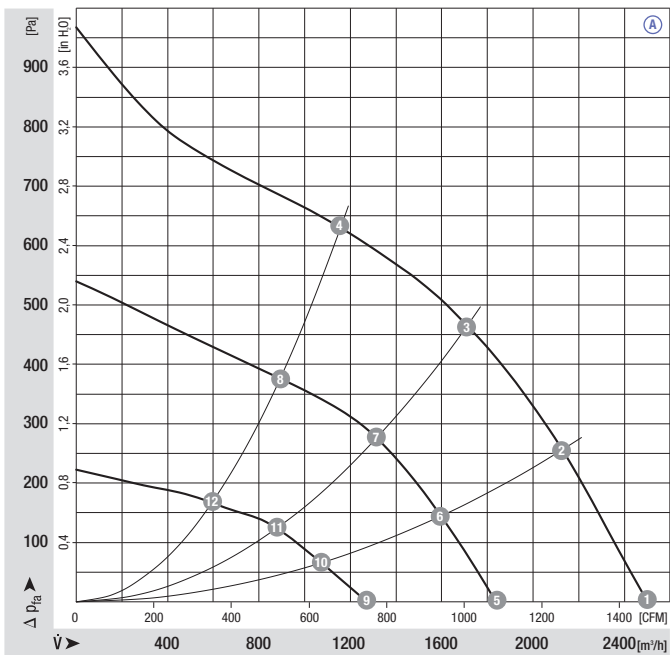
- **Material:** Support bracket: Steel, coated in black
Support plate: Sheet aluminium
Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	°C	p. 44
*3G 250	M3G 084-DF	Ⓐ	1~ 200-277	50/60	2920	420	2,50	-25..+40	K1)

subject to alterations

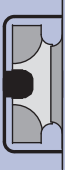
(1) Nominal data in operating point with maximum load and 230 VAC

Curves

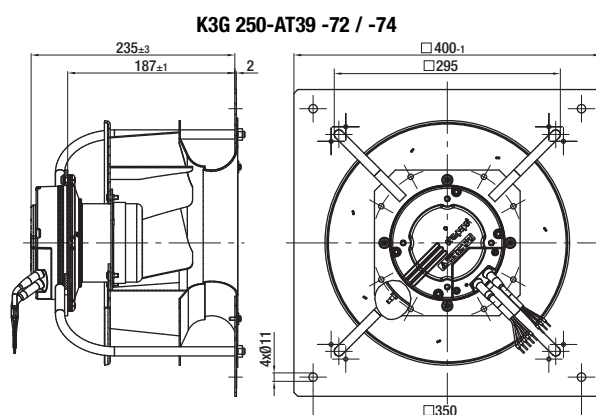
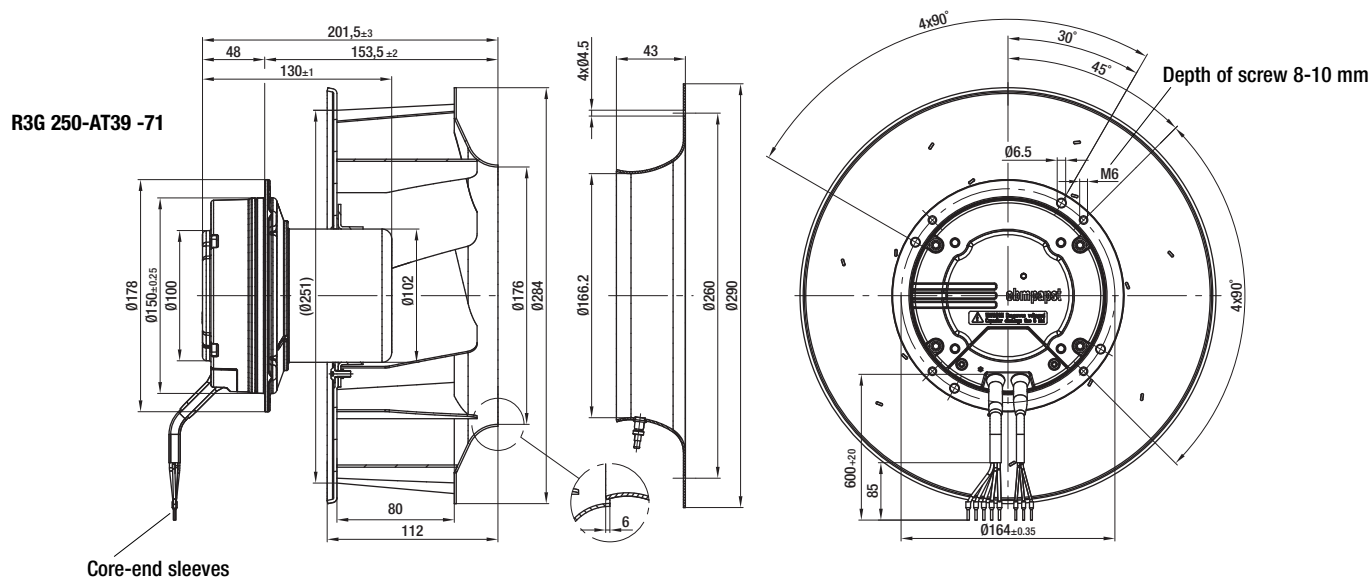


	n	P ₁	I	L _{wA}
	[rpm]	[W]	[A]	[dB(A)]
Ⓐ 1	3095	360	2,15	86
Ⓐ 2	2965	396	2,35	81
Ⓐ 3	2920	420	2,50	73
Ⓐ 4	2935	404	2,40	73
Ⓐ 5	2270	137	0,88	80
Ⓐ 6	2220	163	1,03	78
Ⓐ 7	2180	180	1,14	70
Ⓐ 8	2220	169	1,07	70
Ⓐ 9	1565	56	0,40	74
Ⓐ 10	1525	62	0,43	72
Ⓐ 11	1510	68	0,47	67
Ⓐ 12	1520	64	0,44	60

- **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 bracket
Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 250-AT39 -71	4,5	25075-2-4013	K3G 250-AT39 -72	9,4	K3G 250-AT39 -74	9,4

(2) Centrifugal module with higher protection against corrosion



EC centrifugal fans and modules

backward curved, Ø 250



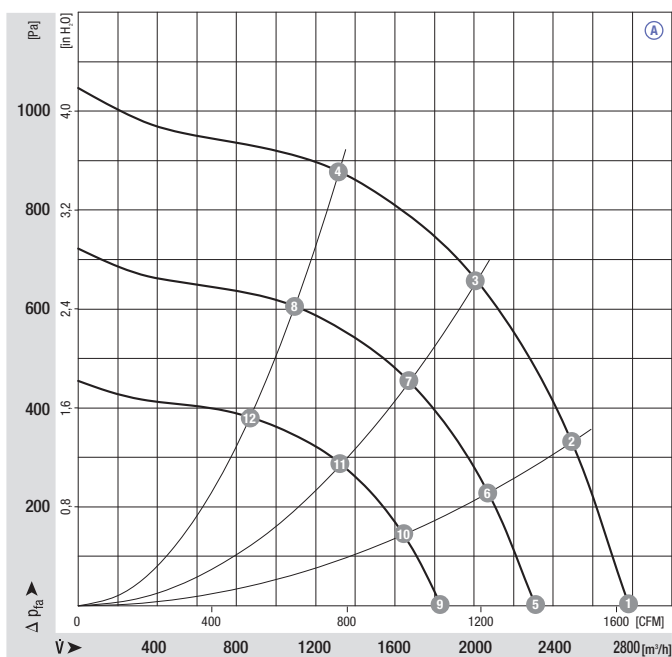
- **Material:** Support bracket: Steel, coated in black
Support plate: Sheet aluminium
Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	°C	p. 47
*3G 250	M3G 084-FA	Ⓐ	1~ 200-277	50/60	3450	690	4,12	-25..+40	L7)

subject to alterations

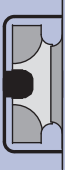
(1) Nominal data in operating point with maximum load and 230 VAC

Curves

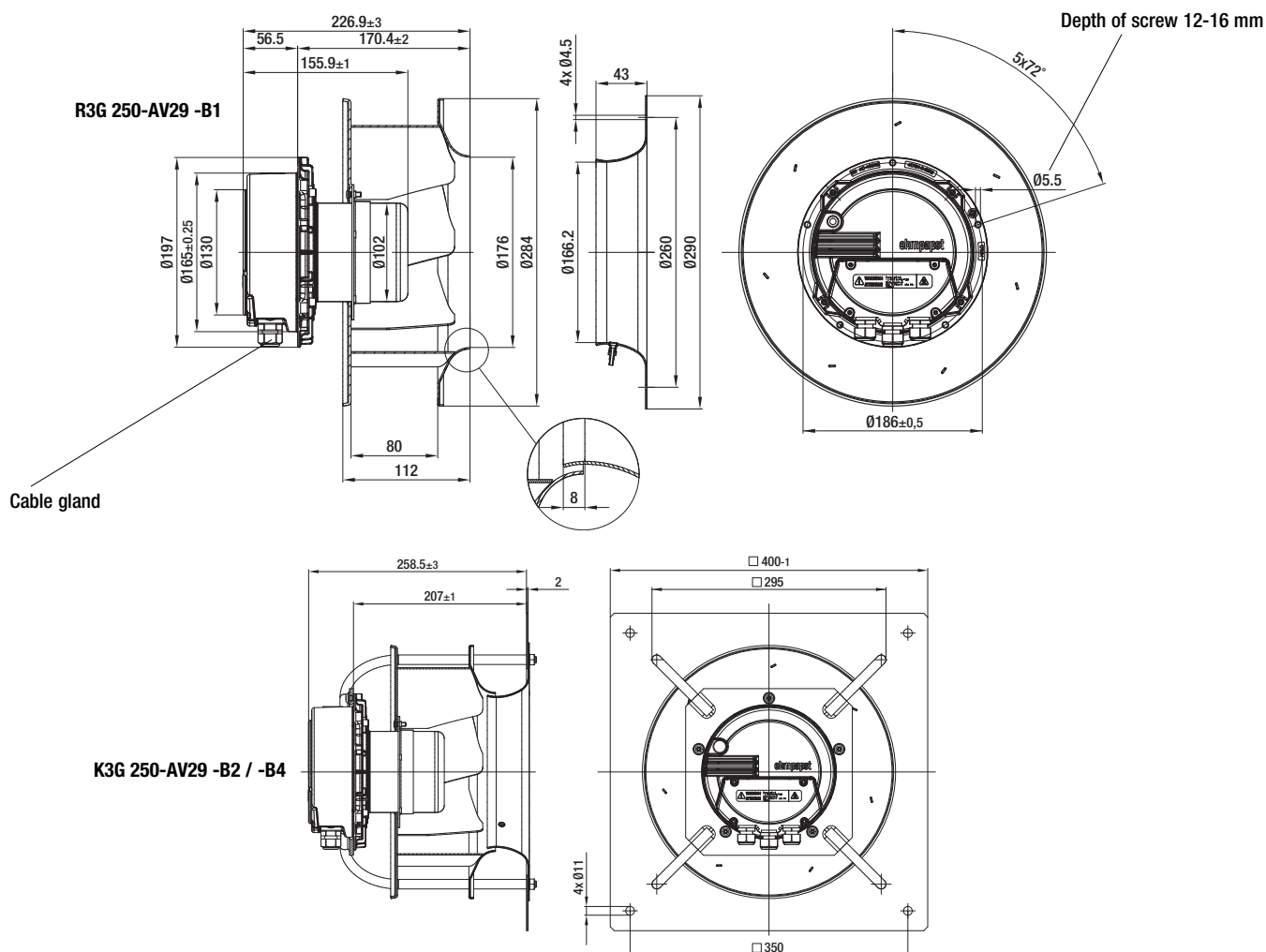


	n [rpm]	P ₁ [W]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	3450	496	2,96	88
Ⓐ 2	3450	620	3,67	85
Ⓐ 3	3450	690	4,12	76
Ⓐ 4	3450	649	3,86	77
Ⓐ 5	2865	284	1,70	84
Ⓐ 6	2865	355	2,10	81
Ⓐ 7	2865	396	2,36	72
Ⓐ 8	2865	372	2,21	73
Ⓐ 9	2275	142	0,85	79
Ⓐ 10	2275	178	1,05	76
Ⓐ 11	2275	198	1,18	67
Ⓐ 12	2275	186	1,11	68

- **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 MODBUS
 - Alarm relay
 - Line undervoltage detection
 - Motor current limitation
 - Electronics / motor overtemperature protection
 - Locked-rotor protection
 - Soft start
- **EMC:** Interference emission acc. to EN 61000-6-3
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 bracket
Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 250-AV29 -B1	5,7	25075-2-4013	K3G 250-AV29 -B2	10,6	K3G 250-AV29 -B4	10,6

(2) Centrifugal module with higher protection against corrosion



EC centrifugal fans and modules

backward curved, Ø 280



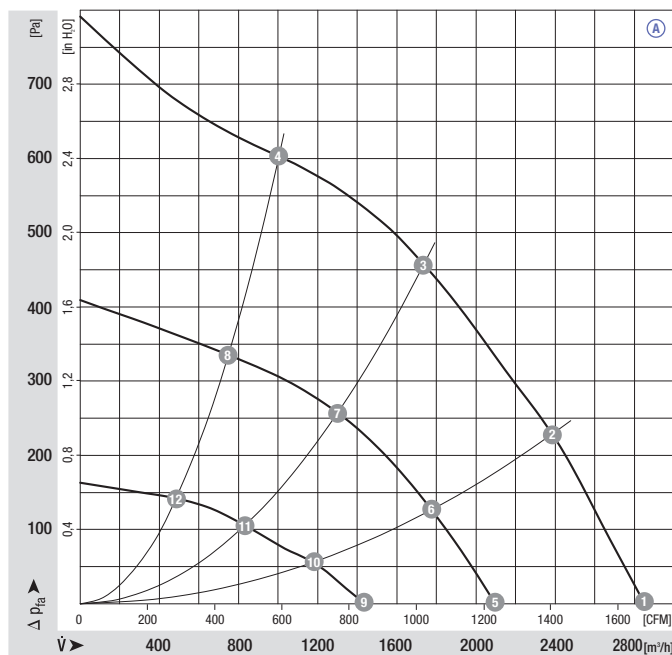
- **Material:** Support bracket: Steel, coated in black
Support plate: Sheet aluminium
Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	°C	p. 44
*3G 280	M3G 084-FA	Ⓐ	1~ 200-277	50/60	2290	390	2,30	-25..+40	K1)

subject to alterations

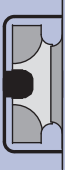
(1) Nominal data in operating point with maximum load and 230 VAC

Curves

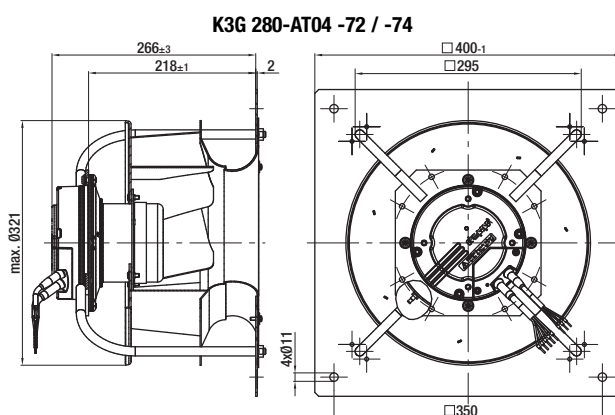
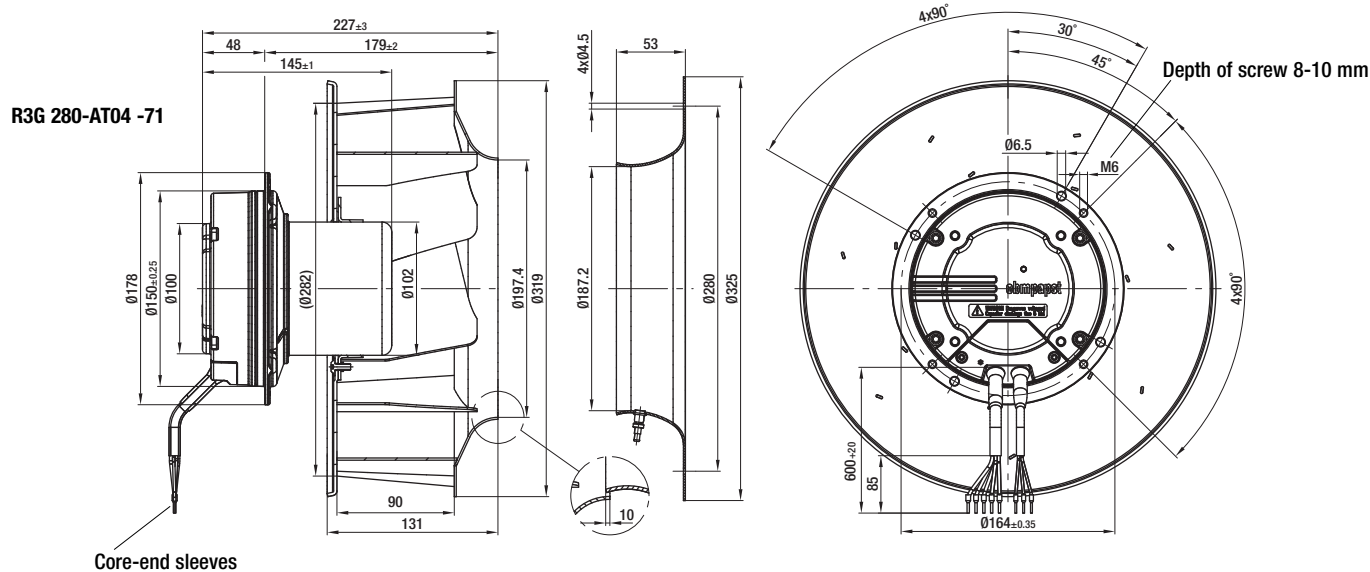


	n [rpm]	P ₁ [W]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	2420	320	1,94	82
Ⓐ 2	2320	367	2,20	75
Ⓐ 3	2290	390	2,30	69
Ⓐ 4	2340	361	2,17	75
Ⓐ 5	1770	124	0,81	75
Ⓐ 6	1730	148	0,95	70
Ⓐ 7	1730	156	1,00	63
Ⓐ 8	1760	143	0,93	67
Ⓐ 9	1195	49	0,36	68
Ⓐ 10	1175	56	0,40	64
Ⓐ 11	1165	54	0,39	55
Ⓐ 12	1155	53	0,38	56

- **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 bracket
Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 280-AT04 -71	5,4	28075-2-4013	K3G 280-AT04 -72	10,4	K3G 280-AT04 -74	10,4

(2) Centrifugal module with higher protection against corrosion



EC centrifugal fans and modules

backward curved, Ø 280



- **Material:** Support bracket: Steel, coated in black
Support plate: Sheet aluminium
Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** 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:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

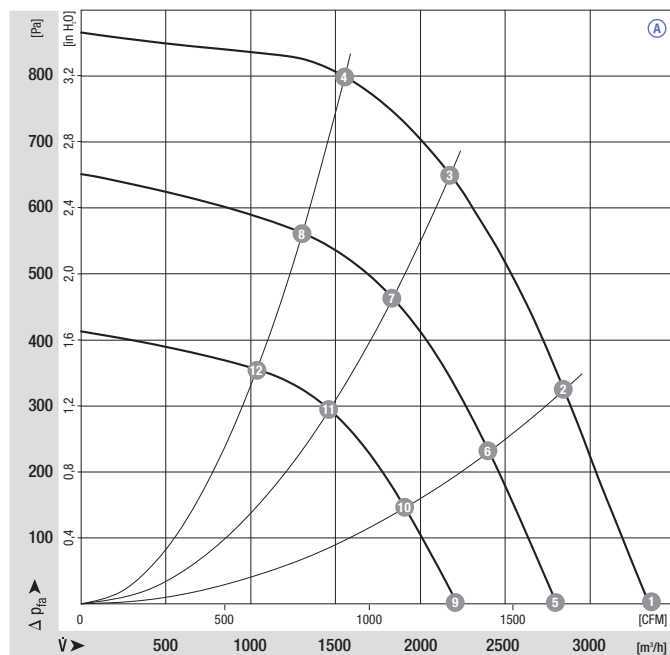
Nominal data

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor	VAC	Hz	rpm	W	A	°C	p. 47	
*3G 280	M3G 084-GF	Ⓐ 1~	200-277	50/60	2800	670	2,93	-25..+40	L7)

subject to alterations

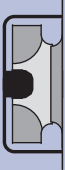
(1) Nominal data in operating point with maximum load and 230 VAC

Curves

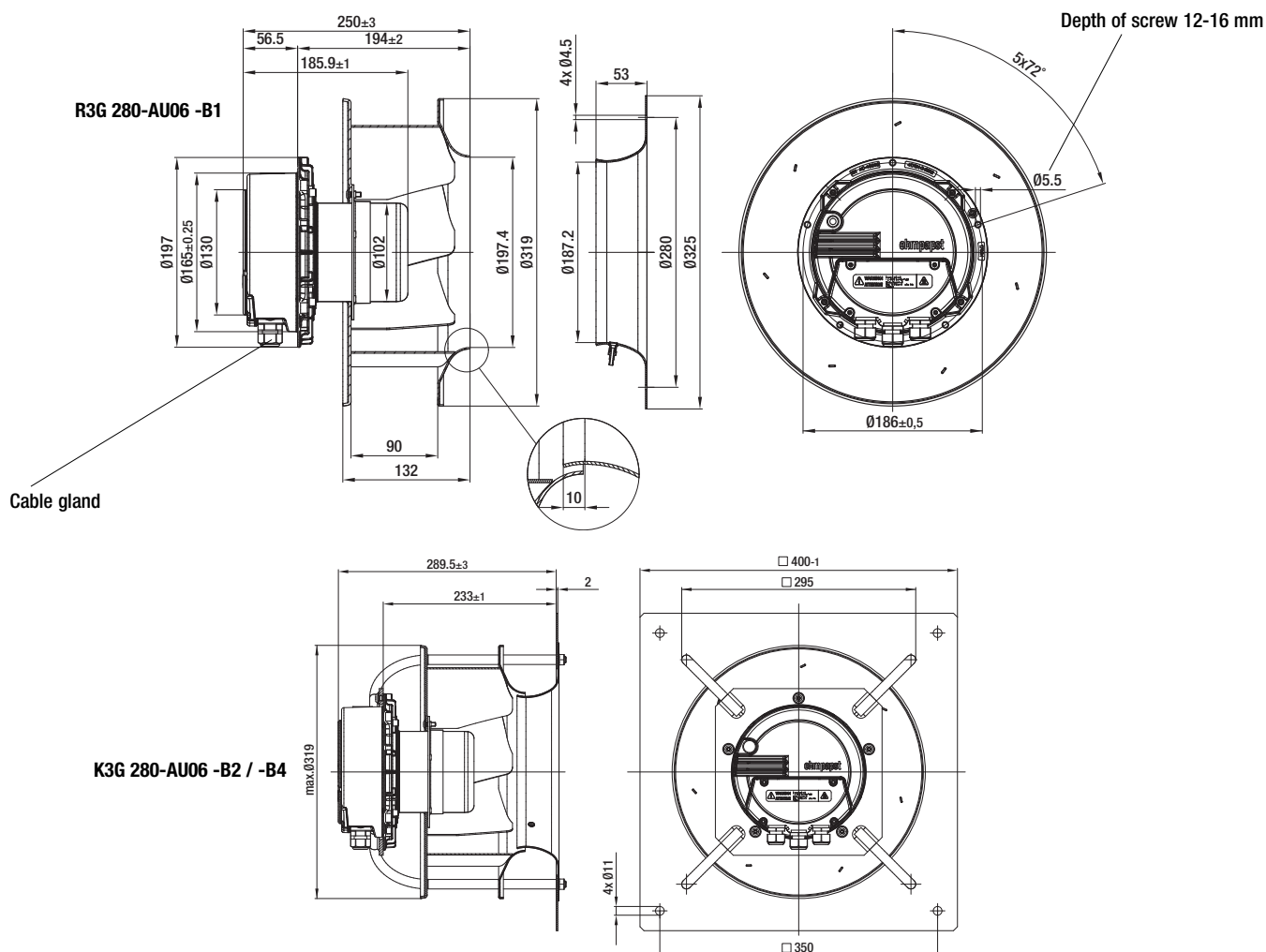


	n	P ₁	I	L _{WA}
	[rpm]	[W]	[A]	[dB(A)]
Ⓐ 1	2800	435	1,90	83
Ⓐ 2	2800	580	2,52	79
Ⓐ 3	2800	670	2,93	76
Ⓐ 4	2800	629	2,74	79
Ⓐ 5	2325	260	1,14	79
Ⓐ 6	2325	349	1,53	75
Ⓐ 7	2325	396	1,74	73
Ⓐ 8	2325	355	1,55	72
Ⓐ 9	1850	138	0,64	74
Ⓐ 10	1850	179	0,81	71
Ⓐ 11	1850	207	0,92	69
Ⓐ 12	1850	183	0,83	68

- **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 MODBUS
 - Alarm relay
 - Line undervoltage detection
 - Motor current limitation
 - Electronics / motor overtemperature protection
 - Locked-rotor protection
 - Soft start
- **EMC:** Interference emission acc. to EN 61000-6-3
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 bracket
Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 280-AU06 -B1	6,7	28075-2-4013	K3G 280-AU06 -B2	12,0	K3G 280-AU06 -B4	12,0

(2) Centrifugal module with higher protection against corrosion



EC centrifugal fans and modules

backward curved, Ø 280



- **Material:** Support bracket: Steel, coated in black
Support plate: Sheet aluminium
Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** 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:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

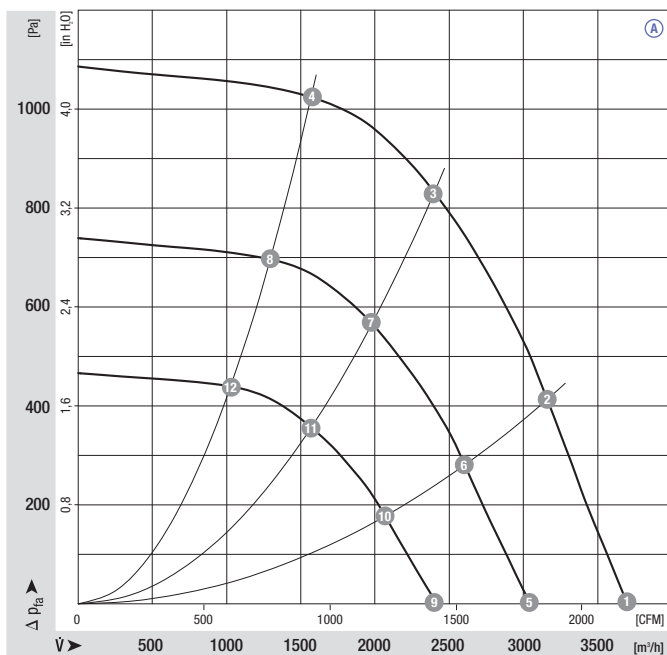
Nominal data

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor	VAC	Hz	rpm	W	A	°C	p. 45	
*3G 280	M3G 084-GF	Ⓐ 3~	380-480	50/60	3100	940	1,60	-25..+60	L6)

subject to alterations

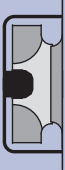
(1) Nominal data in operating point with maximum load and 230 VAC

Curves

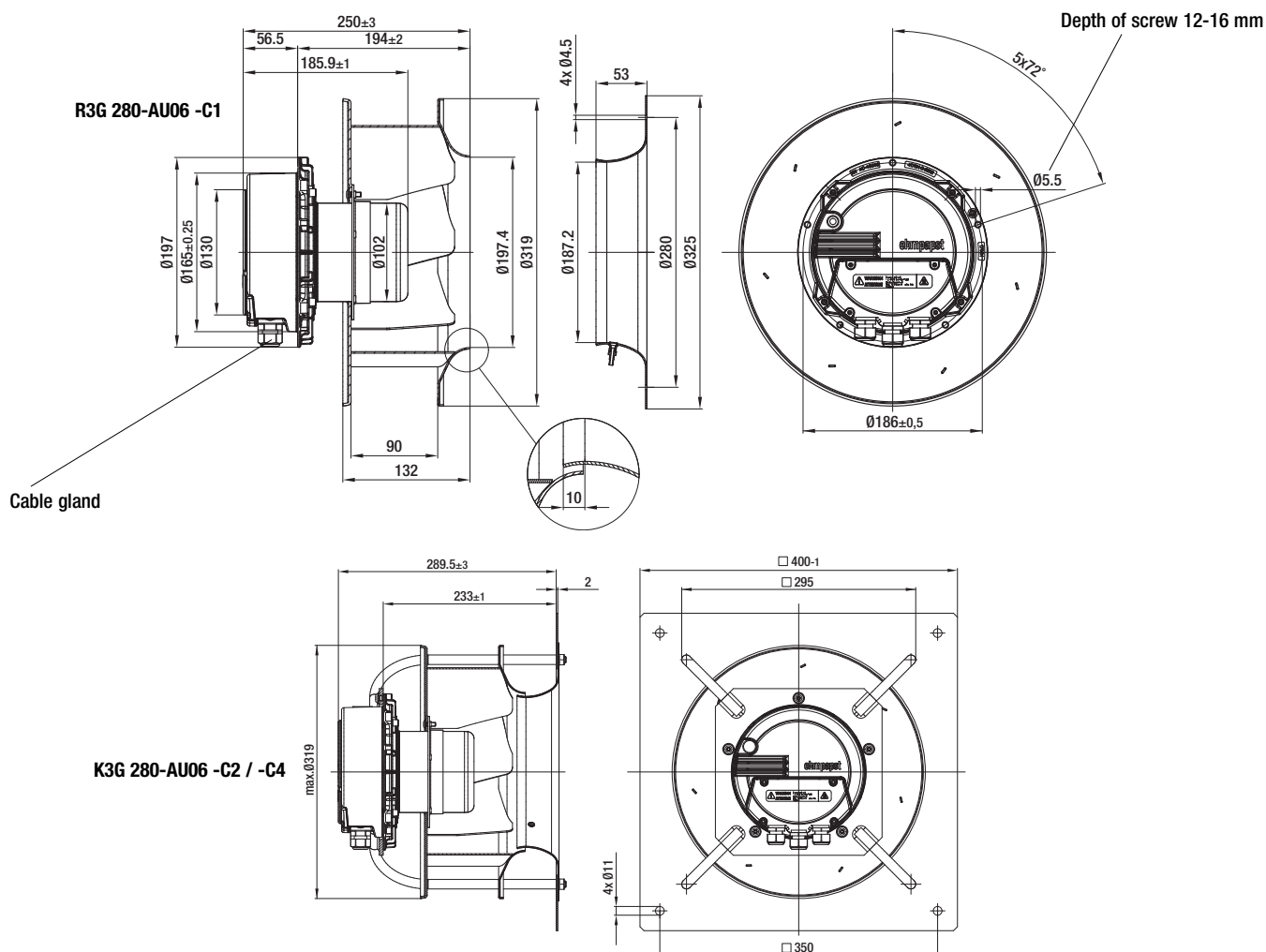


	n [rpm]	P ₁ [W]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	3100	603	0,99	87
Ⓐ 2	3100	816	1,30	83
Ⓐ 3	3100	940	1,60	80
Ⓐ 4	3100	835	1,33	82
Ⓐ 5	2575	337	0,55	83
Ⓐ 6	2575	456	0,73	79
Ⓐ 7	2575	529	0,83	76
Ⓐ 8	2575	468	0,75	78
Ⓐ 9	2045	169	0,28	78
Ⓐ 10	2045	229	0,36	74
Ⓐ 11	2045	265	0,42	71
Ⓐ 12	2045	234	0,37	73

- **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 MODBUS
 - 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 bracket
Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 280-AU06 -C1	6,7	28075-2-4013	K3G 280-AU06 -C2	12,0	K3G 280-AU06 -C4	12,0

(2) Centrifugal module with higher protection against corrosion



EC centrifugal fans and modules

backward curved, Ø 310



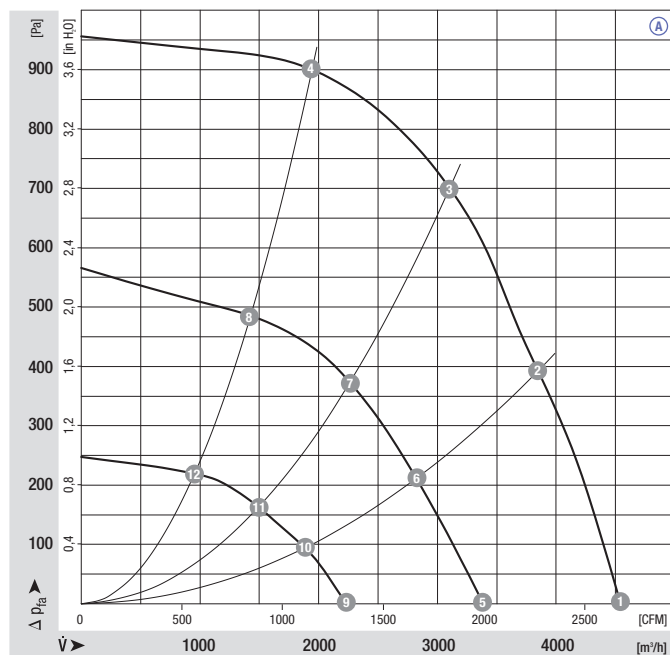
- **Material:** Support bracket: Steel, coated in black
Support plate: Galvanised sheet steel
Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** 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 ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	°C	p. 45
*3G 310	M3G 112-EA	Ⓐ	3~ 380-480	50/60	2580	990	1,70	-25..+55	L2)

subject to alterations

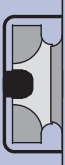
(1) Nominal data in operating point with maximum load and 400 VAC

Curves

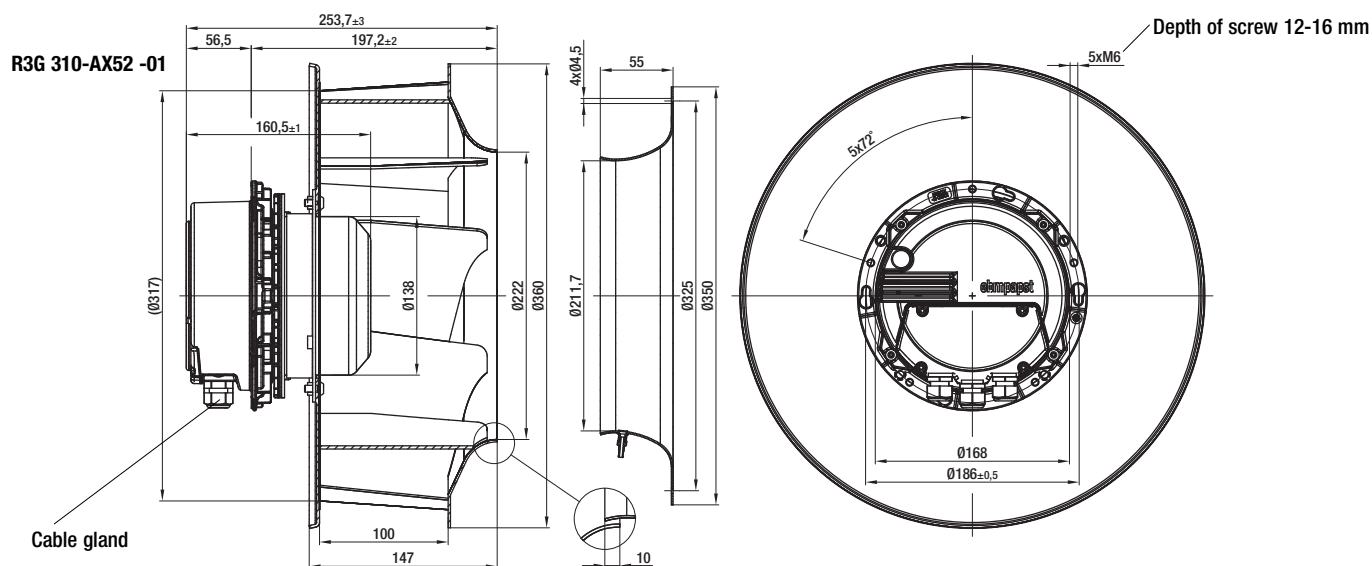


	n [rpm]	P ₁ [W]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	2580	669	1,17	88
Ⓐ 2	2580	862	1,46	81
Ⓐ 3	2580	990	1,70	77
Ⓐ 4	2580	907	1,53	79
Ⓐ 5	1930	288	0,57	80
Ⓐ 6	1910	348	0,69	74
Ⓐ 7	1900	396	0,77	70
Ⓐ 8	1905	360	0,72	71
Ⓐ 9	1305	123	0,28	72
Ⓐ 10	1305	144	0,33	67
Ⓐ 11	1305	151	0,34	62
Ⓐ 12	1300	151	0,34	62

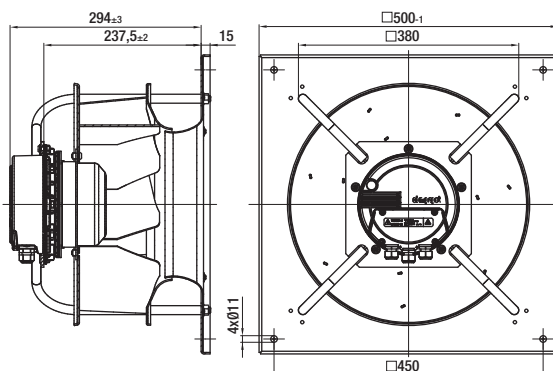
- **Technical features:**
 - PFC (passive)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
 - Slave output 0-10 V max. 3 mA
 - Output 20 VDC ($\pm 20\%$) max. 50 mA
 - Output 10 VDC ($+10\%$) max. 10 mA
 - RS485 ebmBUS
 - Alarm relay
 - Line undervoltage / phase failure detection
 - Motor current limitation
 - 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 bracket
Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 310-AX52 -01	9,3	31575-2-4013	K3G 310-AX52 -02	15,9	K3G 310-AX52 -32	15,9

(2) Centrifugal module with higher protection against corrosion



K3G 310-AX52 -02 / -32



EC centrifugal fans and modules

backward curved, Ø 355



- **Material:** Support bracket: Steel, coated in black
Support plate: Galvanised sheet steel
Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **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

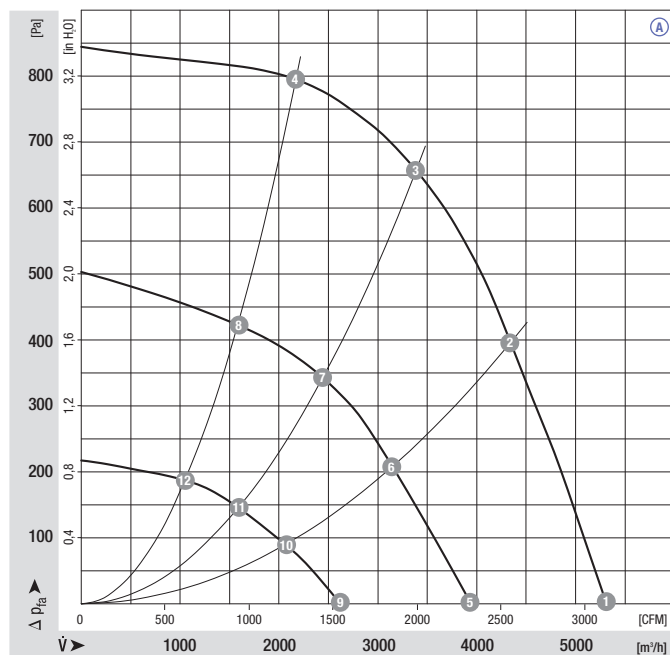
Nominal data

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor	VAC	Hz	rpm	W	A	°C	p. 45	
*3G 355	M3G 112-EA	Ⓐ 3~	380-480	50/60	2140	1000	1,75	-25..+60	L2)
subject to alterations		(1) Nominal data in operating point with maximum load and 400 VAC							

subject to alterations

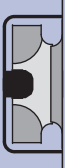
(1) Nominal data in operating point with maximum load and 400 VAC

Curves

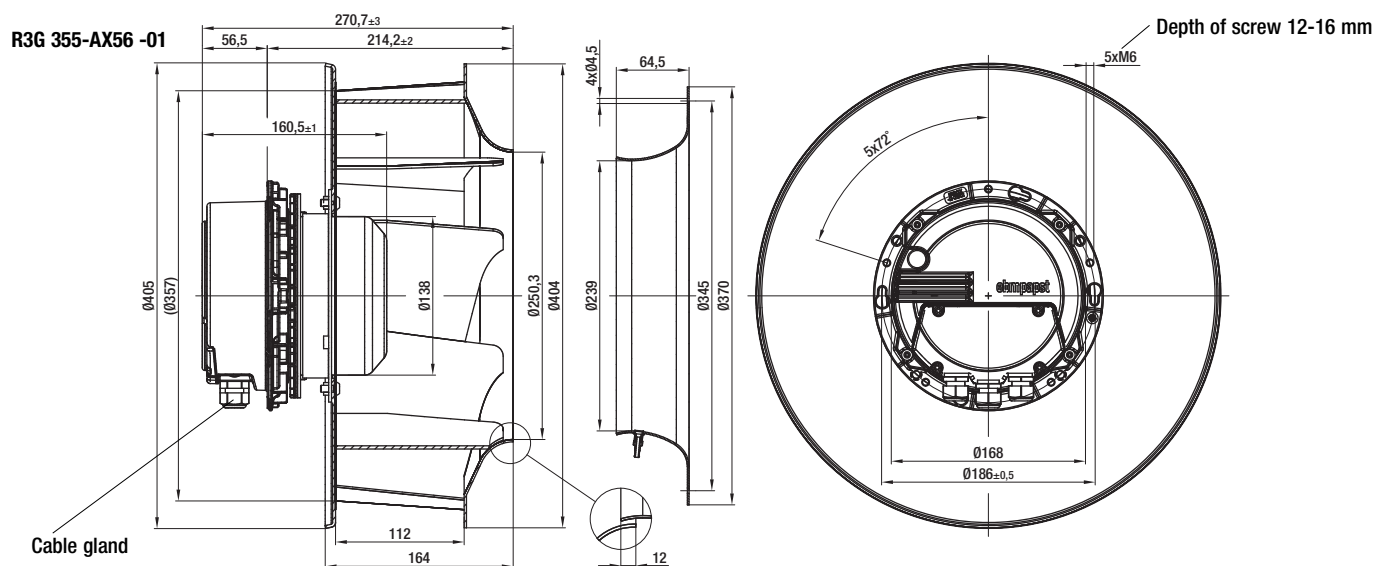


	n [rpm]	P ₁ [W]	I [A]	Lw _A [dB(A)]
Ⓐ 1	2140	656	1,14	87
Ⓐ 2	2140	893	1,50	77
Ⓐ 3	2140	1000	1,75	75
Ⓐ 4	2140	918	1,54	78
Ⓐ 5	1610	286	0,57	79
Ⓐ 6	1595	350	0,68	70
Ⓐ 7	1580	387	0,74	69
Ⓐ 8	1585	366	0,70	70
Ⓐ 9	1080	113	0,28	71
Ⓐ 10	1065	133	0,31	64
Ⓐ 11	1065	143	0,33	60
Ⓐ 12	1060	135	0,32	61

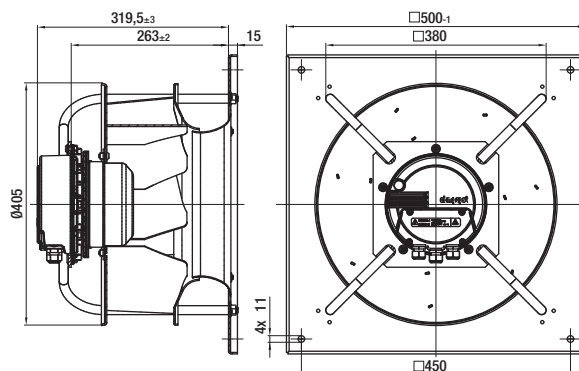
- **Technical features:**
 - PFC (passive)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
 - Slave output 0-10 V max. 3 mA
 - Output 20 VDC ($\pm 20\%$) max. 50 mA
 - Output 10 VDC ($+10\%$) max. 10 mA
 - RS485 ebmBUS
 - Alarm relay
 - Line undervoltage / phase failure detection
 - Motor current limitation
 - 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 bracket
Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 355-AX56 -01	9,8	35675-2-4013	K3G 355-AX56 -02	17,6	K3G 355-AX56 -32	17,6

(2) Centrifugal module with higher protection against corrosion



K3G 355-AX56 -02 / -32



EC centrifugal fans and modules

backward curved, Ø 355



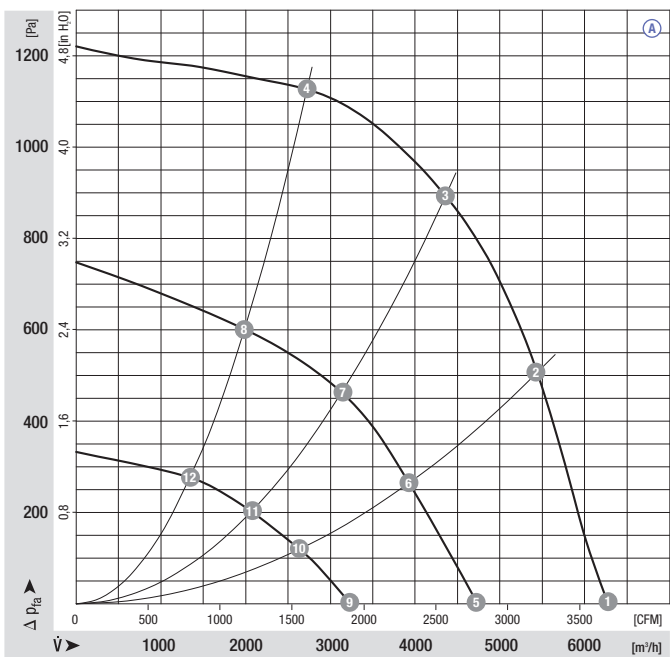
- **Material:** Support bracket: Steel, coated in black
Support plate: Galvanised sheet steel
Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** 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 ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	°C	p. 46
*3G 355	M3G 112-GA	Ⓐ	3~ 380-480	50/60	2600	1700	2,60	-25..+45	L5)

subject to alterations

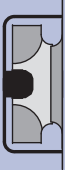
(1) Nominal data in operating point with maximum load and 400 VAC

Curves

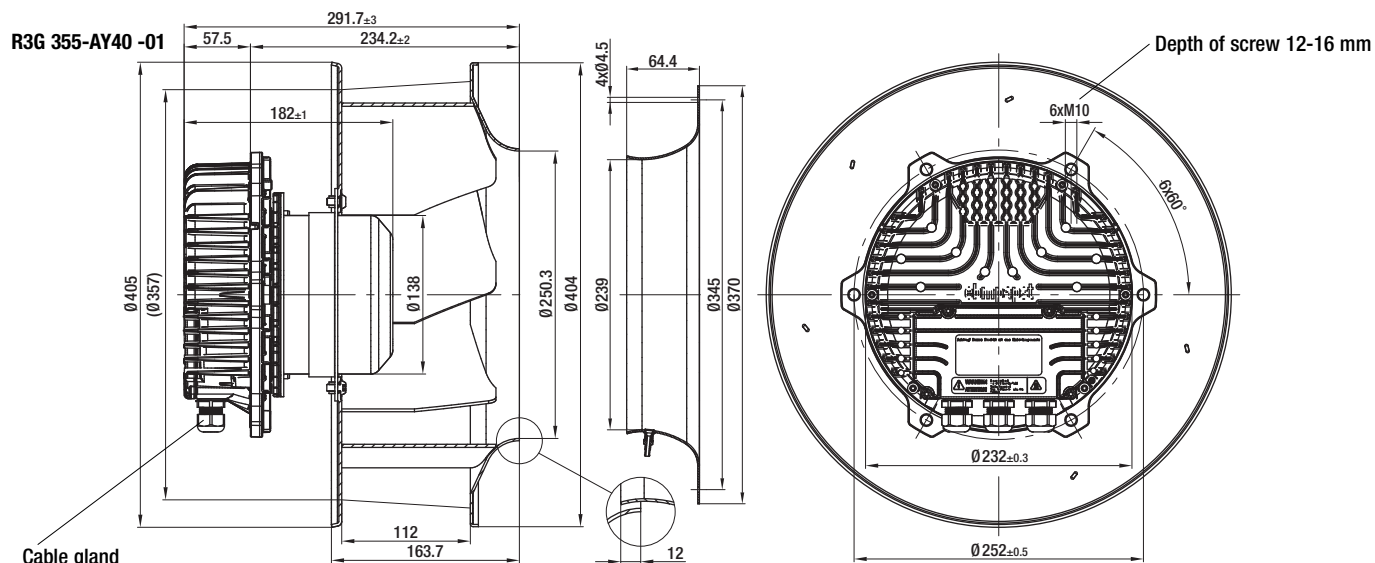


	n	P ₁	I	L _W _A
	[rpm]	[W]	[A]	[dB(A)]
Ⓐ 1	2600	1140	1,74	92
Ⓐ 2	2600	1510	2,30	83
Ⓐ 3	2600	1700	2,60	79
Ⓐ 4	2600	1594	2,42	83
Ⓐ 5	1940	436	0,73	84
Ⓐ 6	1910	541	0,88	76
Ⓐ 7	1885	533	0,95	73
Ⓐ 8	1905	558	0,91	76
Ⓐ 9	1330	194	0,40	76
Ⓐ 10	1315	226	0,45	70
Ⓐ 11	1305	239	0,47	66
Ⓐ 12	1305	236	0,46	66

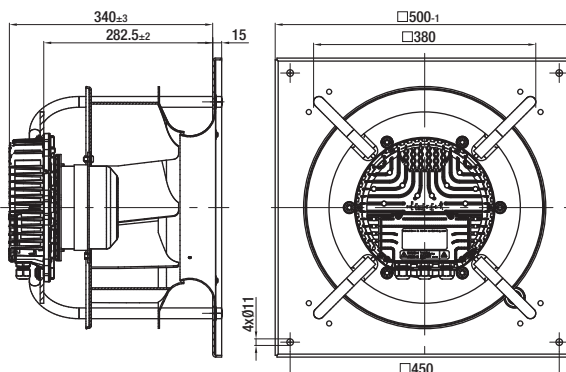
- **Technical features:**
 - PFC (passive)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 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 MODBUS
- Motor current limitation, Alarm relay
- Line undervoltage / phase failure detection
- Electronics / motor overtemperature protection
- Locked-rotor protection, Soft start
- Digital inputs for day/night switch, enabling, cooling / heating

	Mass of centrifugal fan			Mass of centrifugal module with support bracket		Mass of centrifugal module with support bracket
Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 355-AY40 -01	13,0	35675-2-4013	K3G 355-AY40 -02	23,0	K3G 355-AY40 -32	23,0

(2) Centrifugal module with higher protection against corrosion



K3G 355-AY40 -02 / -32



EC centrifugal fans and modules

backward curved, Ø 400



- **Material:** Support bracket: Steel, coated in black
Support plate: Galvanised sheet steel
Impeller: Sheet aluminium, welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **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

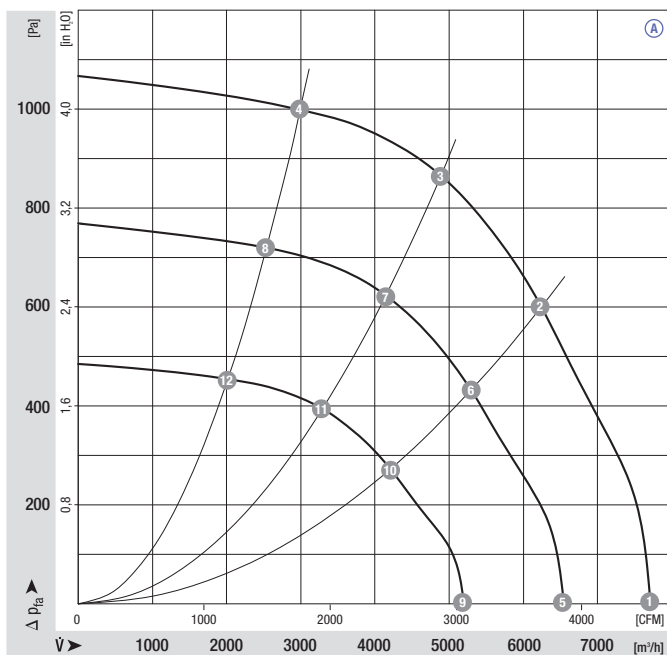
Nominal data

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor	VAC	Hz	rpm	W	A	°C	p. 46	
*3G 400	M3G 112-IA	Ⓐ 3~	380-480	50/60	2180	1850	2,90	-25..+50	L5)

subject to alterations

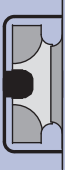
(1) Nominal data in operating point with maximum load and 400 VAC

Curves

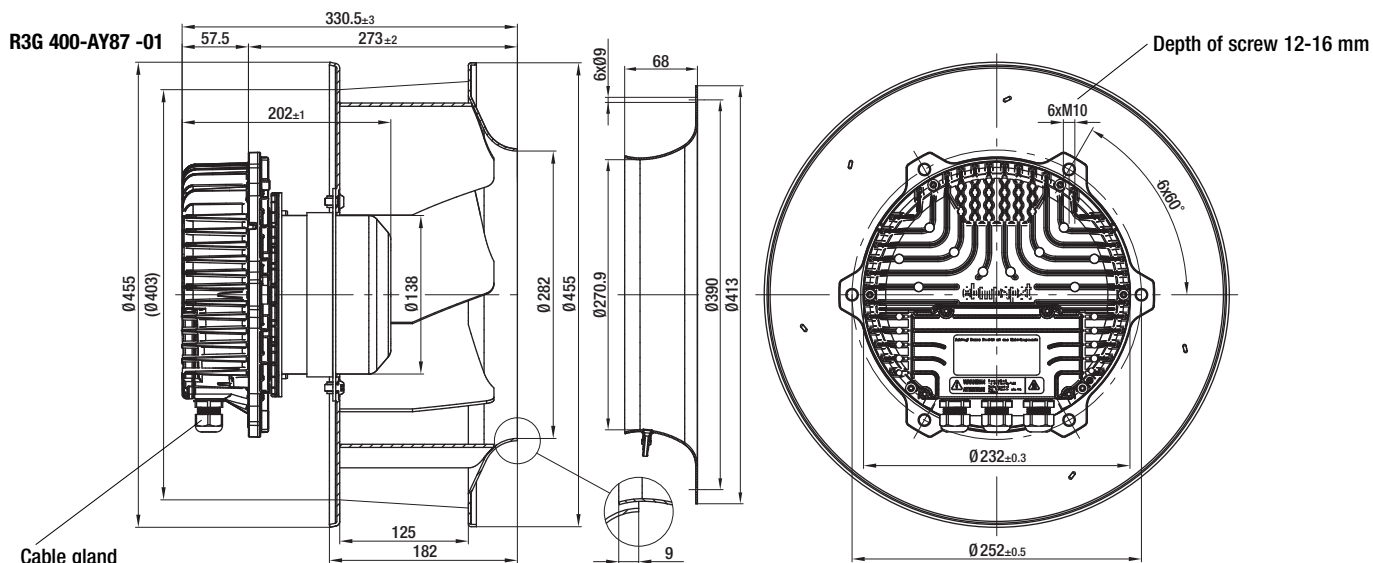


	n [rpm]	P ₁ [W]	I [A]	L _{WA} [dB(A)]
Ⓐ 1	2180	1178	1,81	89
Ⓐ 2	2180	1748	2,66	82
Ⓐ 3	2180	1850	2,90	81
Ⓐ 4	2180	1638	2,49	84
Ⓐ 5	1850	720	1,10	85
Ⓐ 6	1850	1063	1,62	78
Ⓐ 7	1850	1132	1,72	77
Ⓐ 8	1850	1001	1,52	80
Ⓐ 9	1470	361	0,55	80
Ⓐ 10	1470	533	0,81	73
Ⓐ 11	1470	568	0,86	72
Ⓐ 12	1470	502	0,76	75

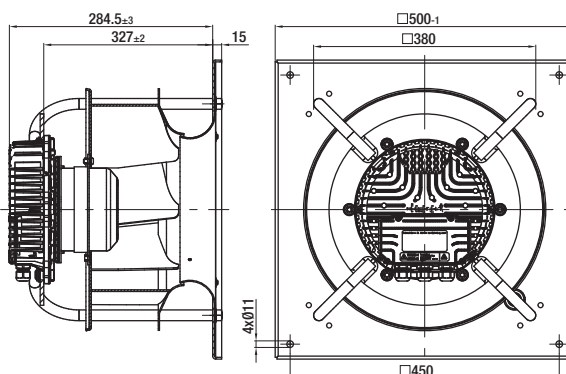
- **Technical features:**
 - PFC (passive)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 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 MODBUS
 - Motor current limitation, Alarm relay
 - Line undervoltage / phase failure detection
 - Electronics / motor overtemperature protection
 - Locked-rotor protection, Soft start
 - Digital inputs for day/night switch, enabling, cooling / heating

	Mass of centrifugal fan			Mass of centrifugal module with support bracket		Mass of centrifugal module with support bracket
Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 400-AY87 -01	14,0	40075-2-4013	K3G 400-AY87 -02	25,0	K3G 400-AY87 -32	25,0

(2) Centrifugal module with higher protection against corrosion



K3G 400-AY87 -02 / -32



EC centrifugal fans and modules

backward curved, Ø 400



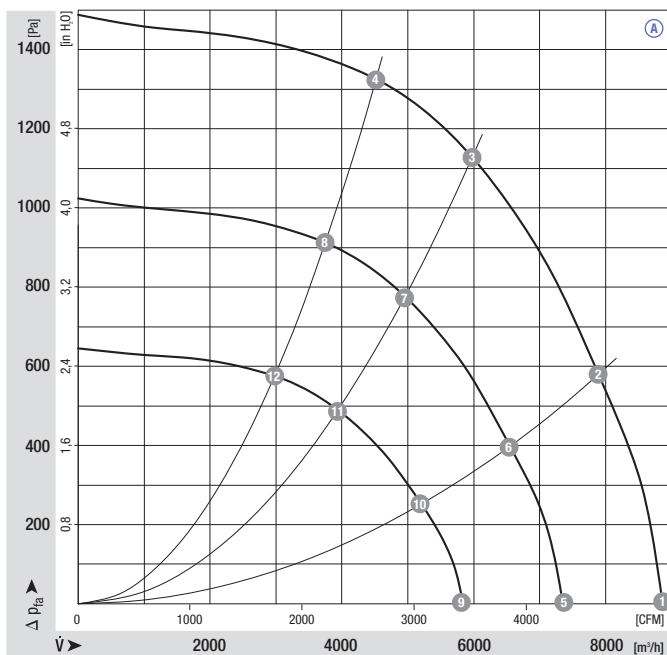
- **Material:** Support bracket: Steel, coated in black
Support plate: Galvanised sheet steel
Impeller: Sheet aluminium, welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 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 ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	°C	p. 46
*3G 400	M3G 150-FF	Ⓐ	3~ 380-480	50/60	2550	3000	4,60	-25..+60	L5)

subject to alterations

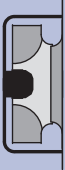
(1) Nominal data in operating point with maximum load and 400 VAC

Curves

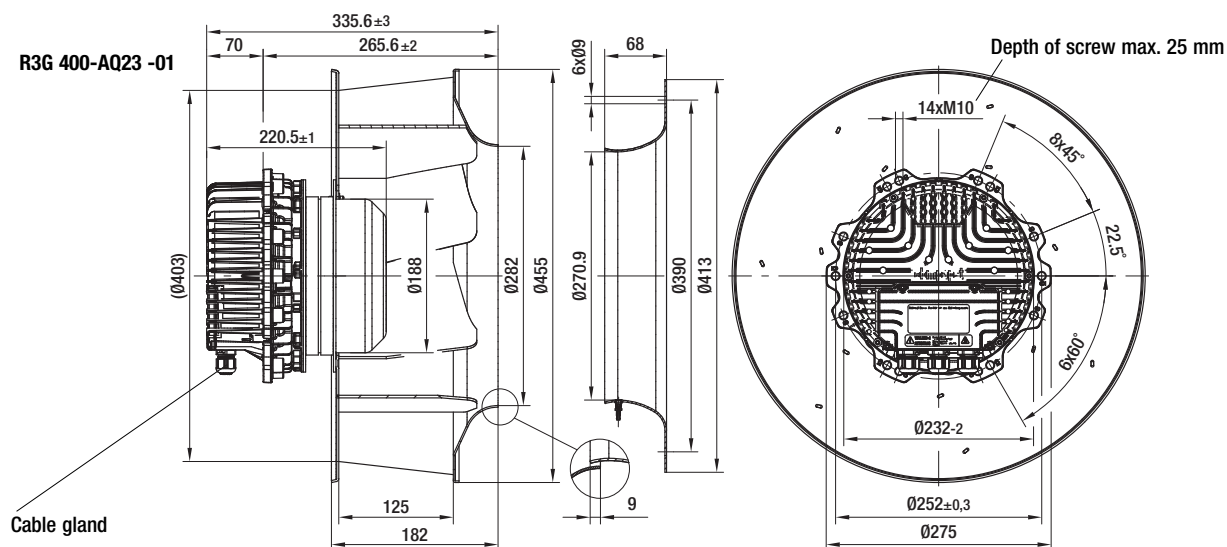


	n [rpm]	P ₁ [W]	I [A]	L _{WA} [dB(A)]
Ⓐ 1	2550	1989	3,03	93
Ⓐ 2	2550	2578	3,92	87
Ⓐ 3	2550	3000	4,60	85
Ⓐ 4	2550	2890	4,41	87
Ⓐ 5	2115	1135	1,73	89
Ⓐ 6	2115	1471	2,24	83
Ⓐ 7	2115	1709	2,61	81
Ⓐ 8	2115	1649	2,52	83
Ⓐ 9	1680	569	0,87	84
Ⓐ 10	1680	737	1,12	78
Ⓐ 11	1680	857	1,31	76
Ⓐ 12	1680	826	1,26	78

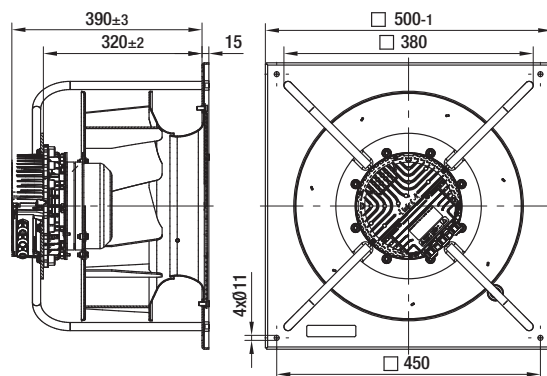
- **Technical features:**
 - PFC (passive)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
 - Slave output 0-10 V max. 3 mA
 - Output 20 VDC ($\pm 20\%$) max. 50 mA
 - Output 10 VDC ($+10\%$) max. 10 mA
 - RS485 MODBUS
 - Motor current limitation, Alarm relay
 - Line undervoltage / phase failure detection
 - Electronics / motor overtemperature protection
 - Locked-rotor protection, Soft start
 - Digital inputs for day/night switch, enabling, cooling / heating
- **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 bracket
Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 400-AQ23 -01	22,0	40075-2-4013	K3G 400-AQ23 -01	34,0	K3G 400-AQ23 -31	34,0

(2) Centrifugal module with higher protection against corrosion



K3G 400-AQ23 -01 / -31



EC centrifugal fans and modules

backward curved, Ø 450



- **Material:** Support bracket: Steel, coated in black
Support plate: Galvanised sheet steel
Impeller: Sheet aluminium, welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **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

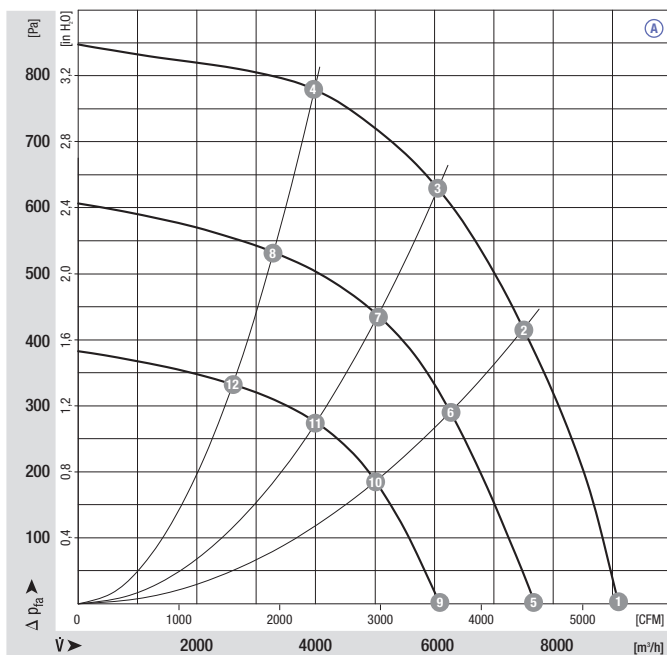
Nominal data

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor	VAC	Hz	rpm	W	A	°C	p. 46	
*3G 450	M3G 112-IA	Ⓐ 3~	380-480	50/60	1750	1616	2,50	-25..+50	L5)

subject to alterations

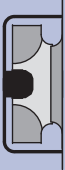
(1) Nominal data in operating point with maximum load and 400 VAC

Curves

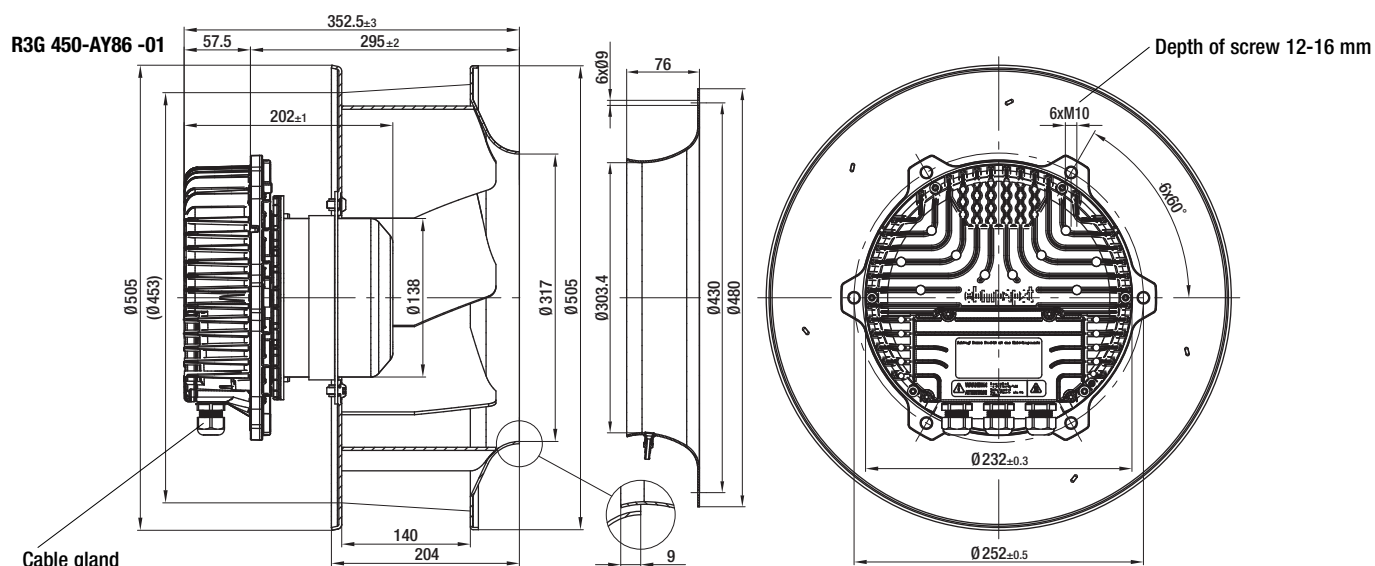


	n [rpm]	P ₁ [W]	I [A]	Lw _A [dB(A)]
Ⓐ 1	1750	1036	1,61	87
Ⓐ 2	1750	1457	2,25	80
Ⓐ 3	1750	1616	2,50	77
Ⓐ 4	1750	1524	2,33	80
Ⓐ 5	1450	571	0,92	82
Ⓐ 6	1450	812	1,28	75
Ⓐ 7	1450	906	1,42	73
Ⓐ 8	1450	810	1,27	76
Ⓐ 9	1155	306	0,56	76
Ⓐ 10	1155	427	0,73	69
Ⓐ 11	1155	462	0,77	67
Ⓐ 12	1155	411	0,70	69

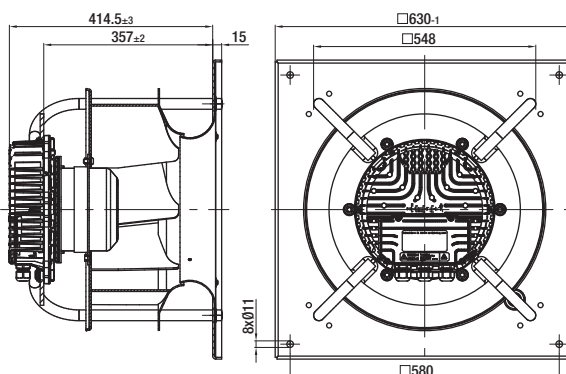
- **Technical features:**
 - PFC (passive)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
 - Slave output 0-10 V max. 3 mA
 - Output 20 VDC ($\pm 20\%$) max. 50 mA
 - Output 10 VDC ($+10\%$) max. 10 mA
 - RS485 MODBUS
 - Motor current limitation, Alarm relay
 - Line undervoltage / phase failure detection
 - Electronics / motor overtemperature protection
 - Locked-rotor protection, Soft start
 - Digital inputs for day/night switch, enabling, cooling / heating
- **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 bracket
Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 450-AY86 -01	15,0	45075-2-4013	K3G 450-AY86 -02	31,0	K3G 450-AY86 -32	31,0

(2) Centrifugal module with higher protection against corrosion



K3G 450-AY86 -02 / -32



EC centrifugal fans and modules

backward curved, Ø 450



- **Material:** Support bracket: Steel, coated in black
Support plate: Galvanised sheet steel
Impeller: Sheet aluminium, welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **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

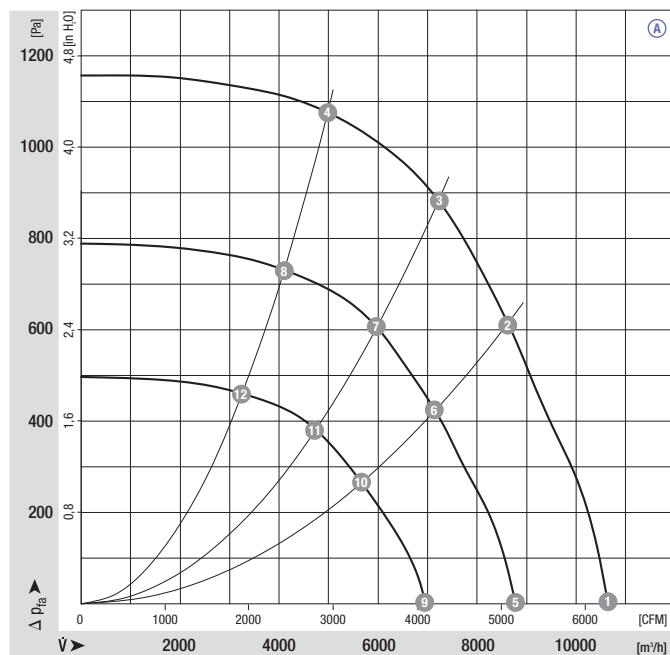
Nominal data

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor	VAC	Hz	rpm	W	A	°C	p. 46	
*3G 450	M3G 150-FF	Ⓐ 3~	380-480	50/60	2040	2730	4,20	-25..+60	L5)

subject to alterations

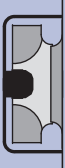
(1) Nominal data in operating point with maximum load and 400 VAC

Curves

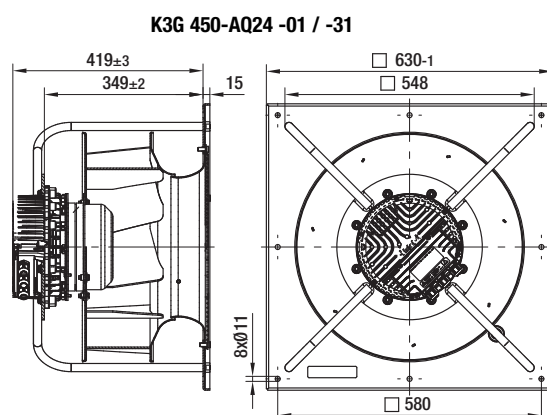
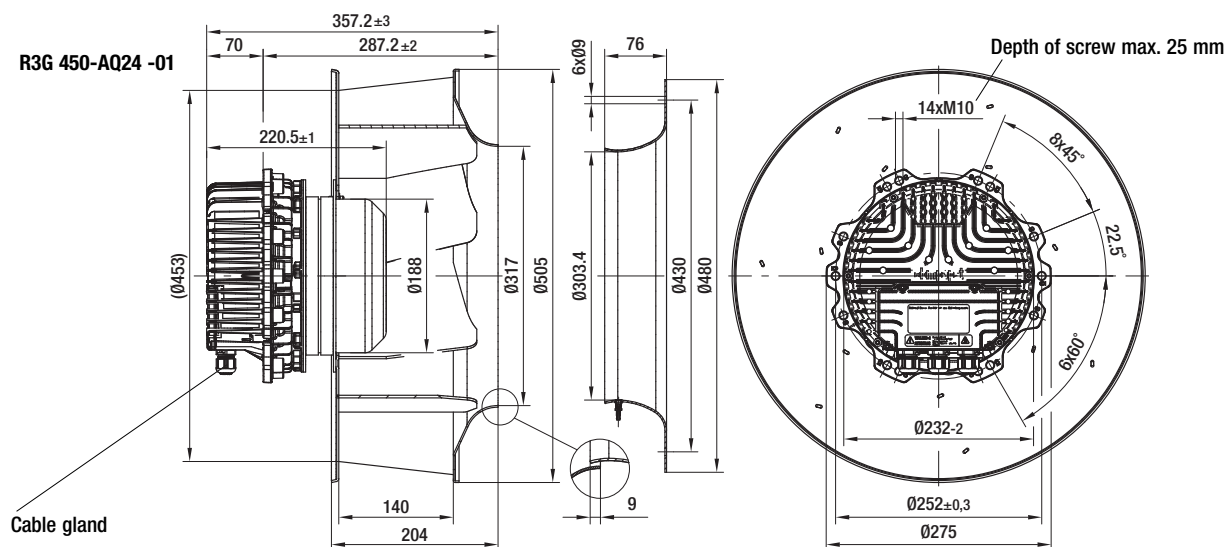


	n [rpm]	P ₁ [W]	I [A]	L _{WA} [dB(A)]
Ⓐ 1	2040	1773	2,71	92
Ⓐ 2	2040	2500	3,80	83
Ⓐ 3	2040	2730	4,20	81
Ⓐ 4	2040	2587	3,96	83
Ⓐ 5	1695	991	1,52	88
Ⓐ 6	1695	1428	2,17	79
Ⓐ 7	1695	1548	2,35	77
Ⓐ 8	1695	1450	2,22	79
Ⓐ 9	1345	495	0,76	83
Ⓐ 10	1345	713	1,09	74
Ⓐ 11	1345	774	1,18	72
Ⓐ 12	1345	725	1,11	74

- **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 MODBUS
 - Motor current limitation, Alarm relay
 - Line undervoltage / phase failure detection
 - Electronics / motor overtemperature protection
 - Locked-rotor protection, Soft start
 - Digital inputs for day/night switch, enabling, cooling / heating
- **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 bracket
Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 450-AQ24 -01	22,5	45075-2-4013	K3G 450-AQ24 -01	38,5	K3G 450-AQ24 -31	38,5

(2) Centrifugal module with higher protection against corrosion



EC centrifugal fans and modules

backward curved, Ø 500



- **Material:** Support bracket: Steel, coated in black
Support plate: Galvanised sheet steel
Impeller: Sheet aluminium, welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **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

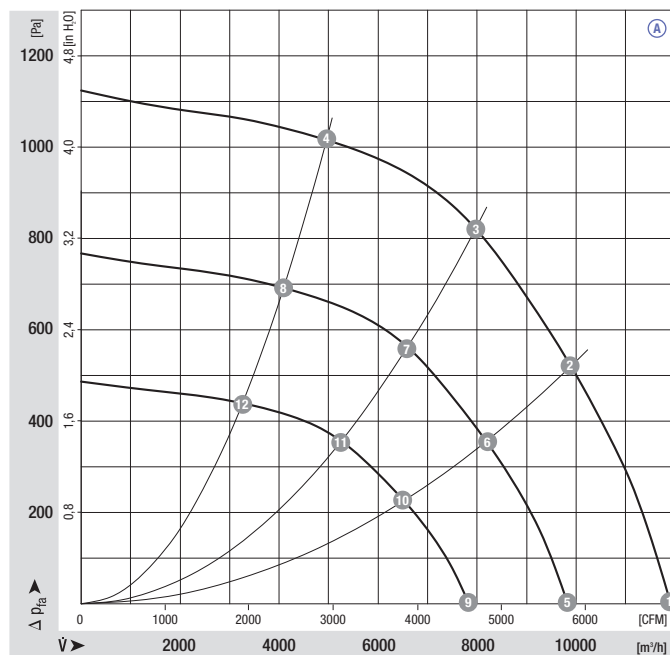
Nominal data

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor	VAC	Hz	rpm	W	A	°C	p. 46	
*3G 500	M3G 150-FF	Ⓐ 3~	380-480	50/60	1780	2825	4,30	-25..+60	L5)

subject to alterations

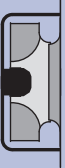
(1) Nominal data in operating point with maximum load and 400 VAC

Curves

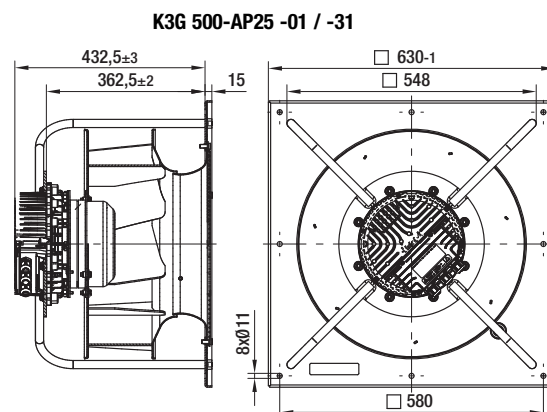
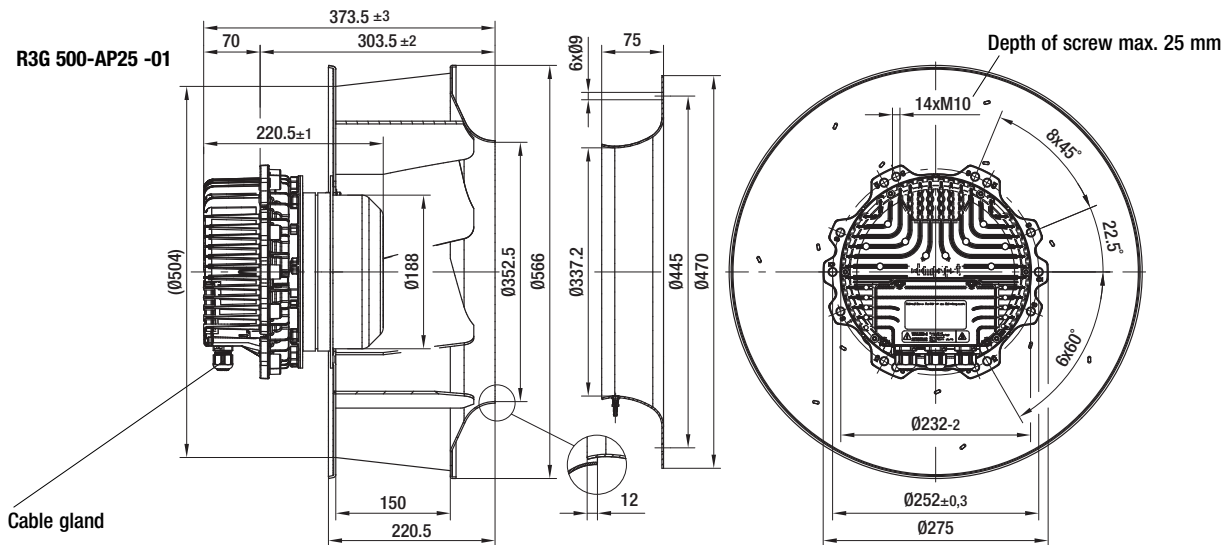


	n [rpm]	P ₁ [W]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	1780	1746	2,70	94
Ⓐ 2	1780	2490	3,82	85
Ⓐ 3	1780	2825	4,30	80
Ⓐ 4	1780	2582	3,96	83
Ⓐ 5	1475	985	1,52	89
Ⓐ 6	1475	1411	2,16	81
Ⓐ 7	1475	1600	2,46	76
Ⓐ 8	1475	1452	2,23	79
Ⓐ 9	1175	498	0,77	84
Ⓐ 10	1175	713	1,09	76
Ⓐ 11	1175	809	1,24	71
Ⓐ 12	1175	734	1,13	74

- **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 MODBUS
 - Motor current limitation, Alarm relay
 - Line undervoltage / phase failure detection
 - Electronics / motor overtemperature protection
 - Locked-rotor protection, Soft start
 - Digital inputs for day/night switch, enabling, cooling / heating
- **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 bracket
Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 500-AP25 -01	25,0	64025-2-4013	K3G 500-AP25 -01	41,5	K3G 500-AP25 -31	41,5

(2) Centrifugal module with higher protection against corrosion



EC centrifugal fans and modules

backward curved, Ø 500



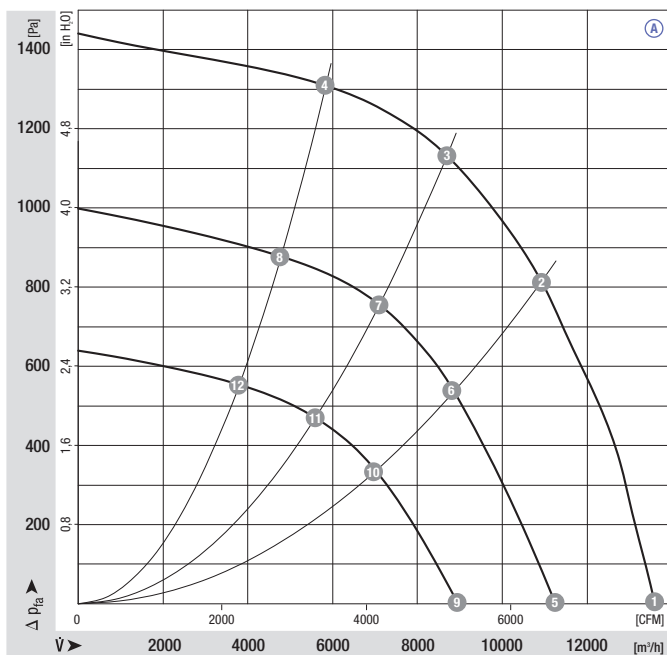
- **Material:** Support bracket: Steel, coated in black
Support plate: Galvanised sheet steel
Impeller: Sheet aluminium, welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 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 ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	°C	p. 47
*3G 500	M3G 150-IF	Ⓐ	3~ 380-480	50/60	2000	4300	6,60	-25..+45	M2)

subject to alterations

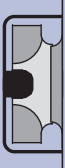
(1) Nominal data in operating point with maximum load and 400 VAC

Curves

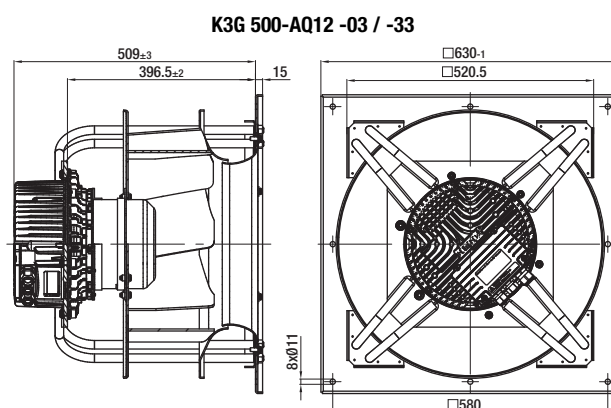
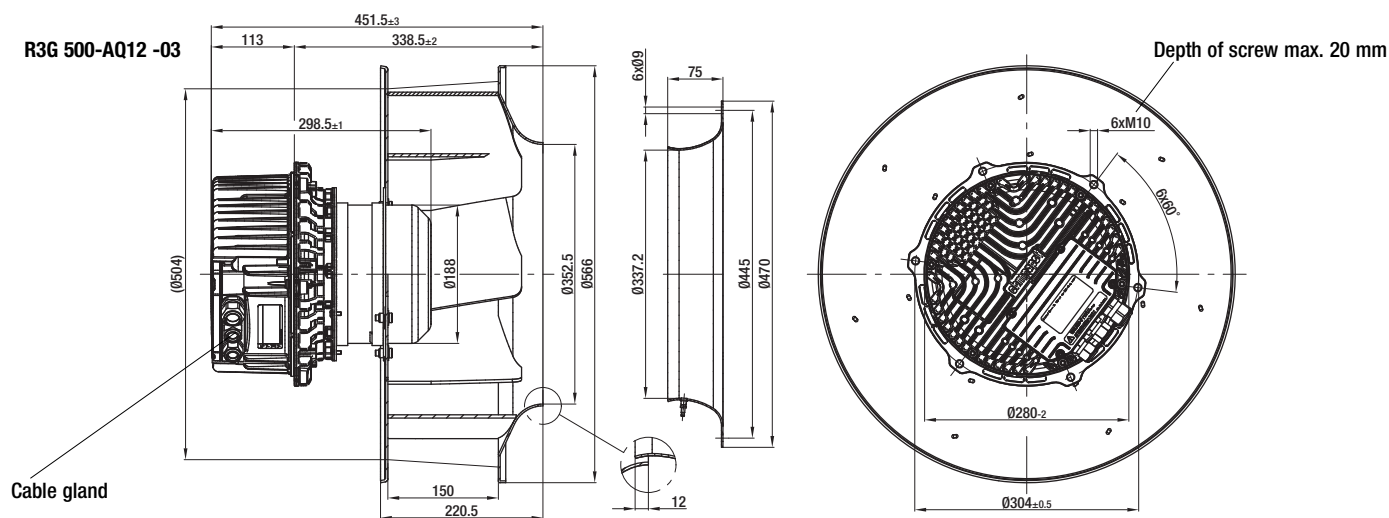


	n [rpm]	P ₁ [W]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	2000	2683	4,07	98
Ⓐ 2	2000	4038	6,15	87
Ⓐ 3	2000	4300	6,60	84
Ⓐ 4	2000	3813	5,79	87
Ⓐ 5	1660	1509	2,33	92
Ⓐ 6	1660	2042	3,13	82
Ⓐ 7	1660	2233	3,41	79
Ⓐ 8	1660	2001	3,07	82
Ⓐ 9	1320	801	1,32	85
Ⓐ 10	1320	1067	1,71	76
Ⓐ 11	1320	1134	1,80	74
Ⓐ 12	1320	1033	1,66	75

- **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
 - 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 bracket
Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 500-AQ12 -03	33,8	64025-2-4013	K3G 500-AQ12 -03	61,7	K3G 500-AQ12 -33	61,7

(2) Centrifugal module with higher protection against corrosion



EC centrifugal fans and modules

backward curved, Ø 560



- **Material:** Support bracket: Steel, coated in black
Support plate: Galvanised sheet steel
Impeller: Sheet aluminium, welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **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

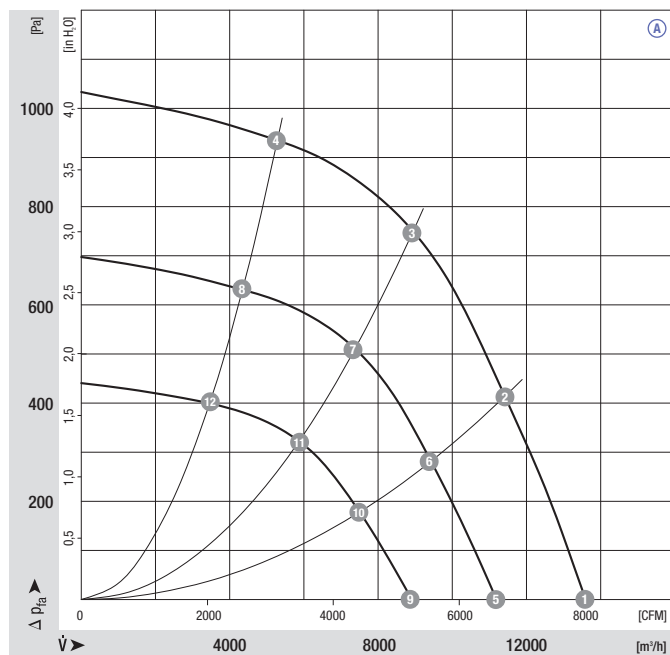
Nominal data

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor	VAC	Hz	rpm	W	A	°C	p. 46	
*3G 560	M3G 150-IF	Ⓐ 3~	380-480	50/60	1500	2965	4,60	-25..+50	L5)

subject to alterations

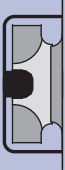
(1) Nominal data in operating point with maximum load and 400 VAC

Curves

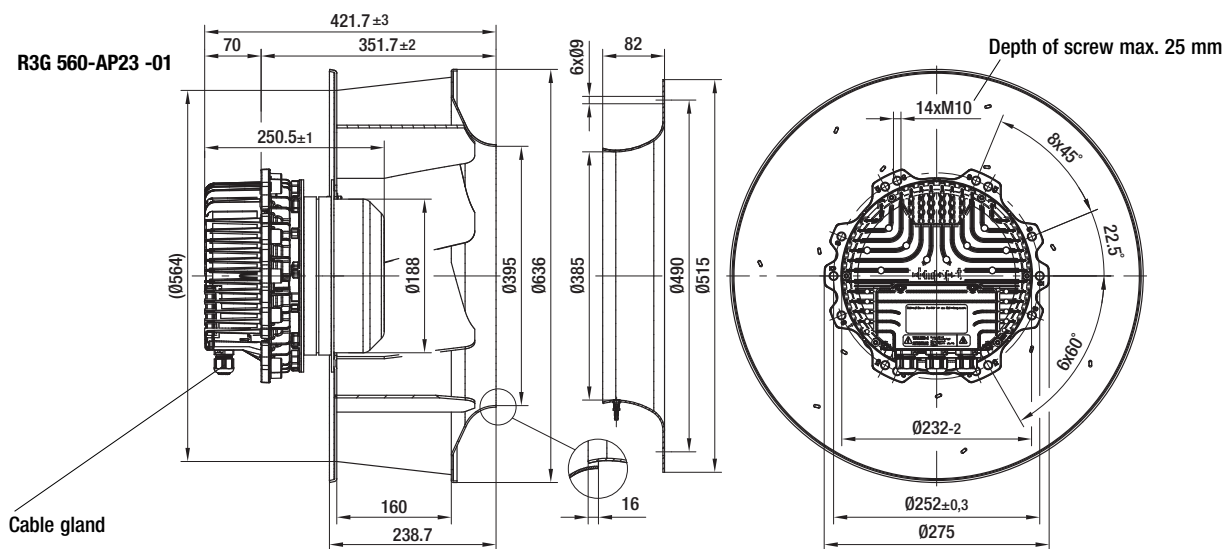


	n [rpm]	P ₁ [W]	I [A]	L _{WA} [dB(A)]
Ⓐ 1	1500	1830	2,82	95
Ⓐ 2	1500	2485	3,78	87
Ⓐ 3	1500	2965	4,60	81
Ⓐ 4	1500	2629	4,02	84
Ⓐ 5	1245	1023	1,58	91
Ⓐ 6	1245	1402	2,14	82
Ⓐ 7	1245	1660	2,53	77
Ⓐ 8	1245	1458	2,23	79
Ⓐ 9	990	515	0,79	86
Ⓐ 10	990	705	1,07	77
Ⓐ 11	990	835	1,27	72
Ⓐ 12	990	733	1,12	74

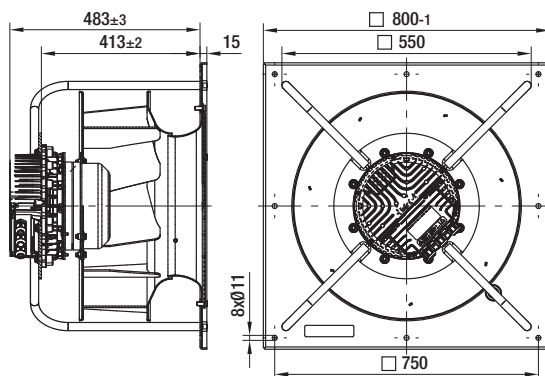
- **Technical features:**
 - PFC (passive)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
 - Slave output 0-10 V max. 3 mA
 - Output 20 VDC ($\pm 20\%$) max. 50 mA
 - Output 10 VDC ($+10\%$) max. 10 mA
 - RS485 MODBUS
 - Motor current limitation, Alarm relay
 - Line undervoltage / phase failure detection
 - Electronics / motor overtemperature protection
 - Locked-rotor protection, Soft start
 - Digital inputs for day/night switch, enabling, cooling / heating
- **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 bracket
Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 560-AP23 -01	30,0	64030-2-4013	K3G 560-AP23 -01	52,5	K3G 560-AP23 -31	52,5

(2) Centrifugal module with higher protection against corrosion



K3G 560-AP23 -01 / -31



EC centrifugal fans and modules

backward curved, Ø 560



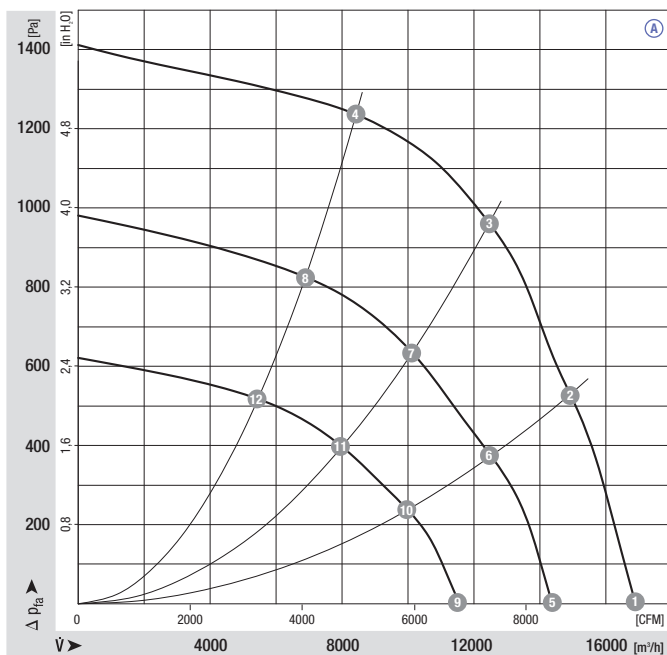
- **Material:** Support bracket: Steel, coated in black
Support plate: Galvanised sheet steel
Impeller: Sheet aluminium, welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 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 ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	°C	p. 47
*3G 560	M3G 150-NA	Ⓐ	3~ 380-480	50/60	1750	5030	7,70	-25..+40	M2)

subject to alterations

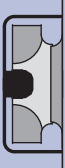
(1) Nominal data in operating point with maximum load and 400 VAC

Curves

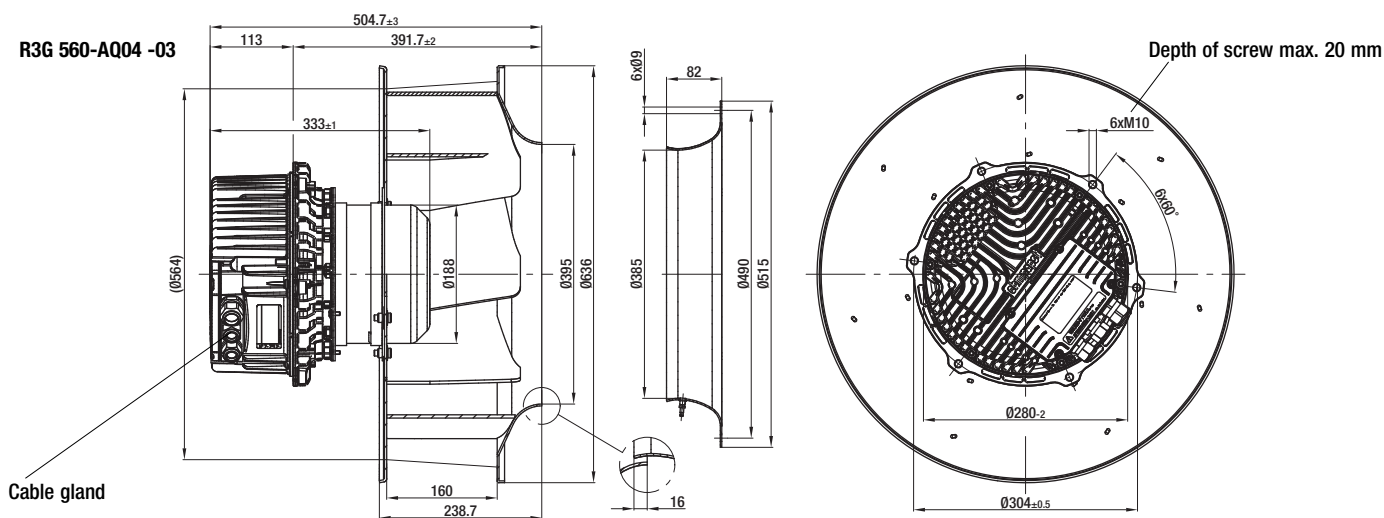


	n [rpm]	P ₁ [W]	I [A]	L _{WA} [dB(A)]
Ⓐ 1	1750	3212	4,89	98
Ⓐ 2	1750	4247	6,47	91
Ⓐ 3	1750	5030	7,70	84
Ⓐ 4	1750	4806	7,30	85
Ⓐ 5	1450	1723	2,66	94
Ⓐ 6	1450	2247	3,43	86
Ⓐ 7	1450	2577	3,93	82
Ⓐ 8	1450	2417	3,69	82
Ⓐ 9	1150	922	1,51	87
Ⓐ 10	1150	1171	1,85	79
Ⓐ 11	1150	1304	2,04	75
Ⓐ 12	1150	1222	1,93	75

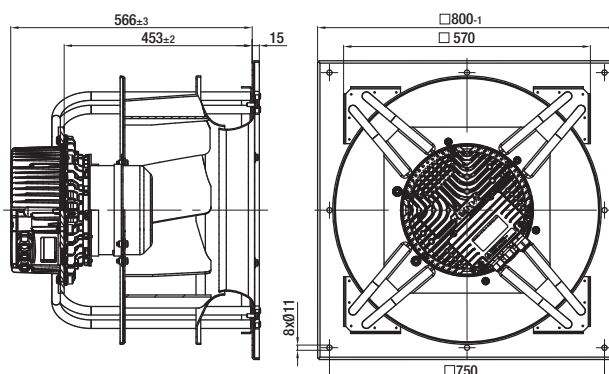
- **Technical features:**
 - PFC (passive)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
 - Slave output 0-10 V max. 3 mA
 - Output 20 VDC ($\pm 20\%$) max. 50 mA
 - Output 10 VDC ($+10\%$) max. 10 mA
 - RS485 ebmBUS
 - Alarm relay
 - Line undervoltage / phase failure detection
 - Motor current limitation
 - 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 bracket
Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 560-AQ04 -03	38,2	64030-2-4013	K3G 560-AQ04 -03	68,4	K3G 560-AQ04 -33	68,4

(2) Centrifugal module with higher protection against corrosion



K3G 560-AQ04 -03 / -33



EC centrifugal fans and module

backward curved, Ø 310 - Design for use in sanitation units -



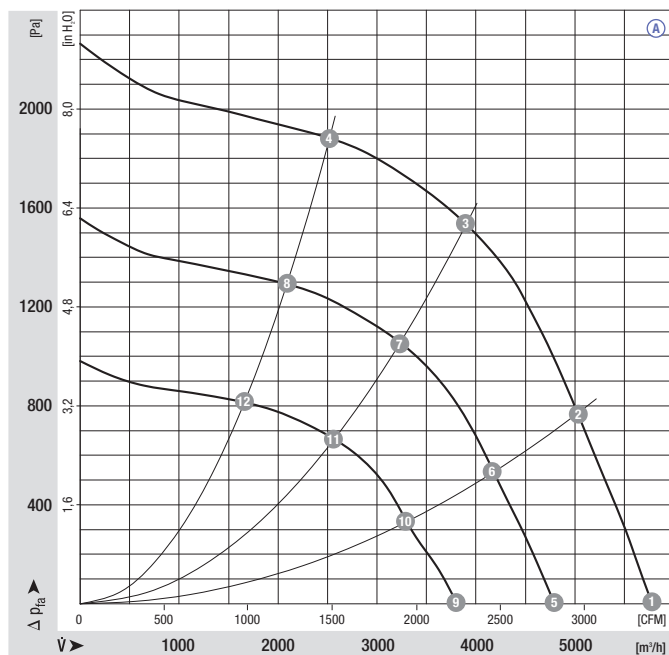
- **Material:** Support bracket: Steel, coated in white
Support plate: Galvanised sheet steel, coated
Impeller: Sheet aluminium, laser-welded, coated
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium, coated
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **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 ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	°C	p. 46
*3G 310	M3G 112-IA	Ⓐ	3~ 380-480	50/60	4100	2915	4,50	-25..+40	L5)

subject to alterations

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

Curves

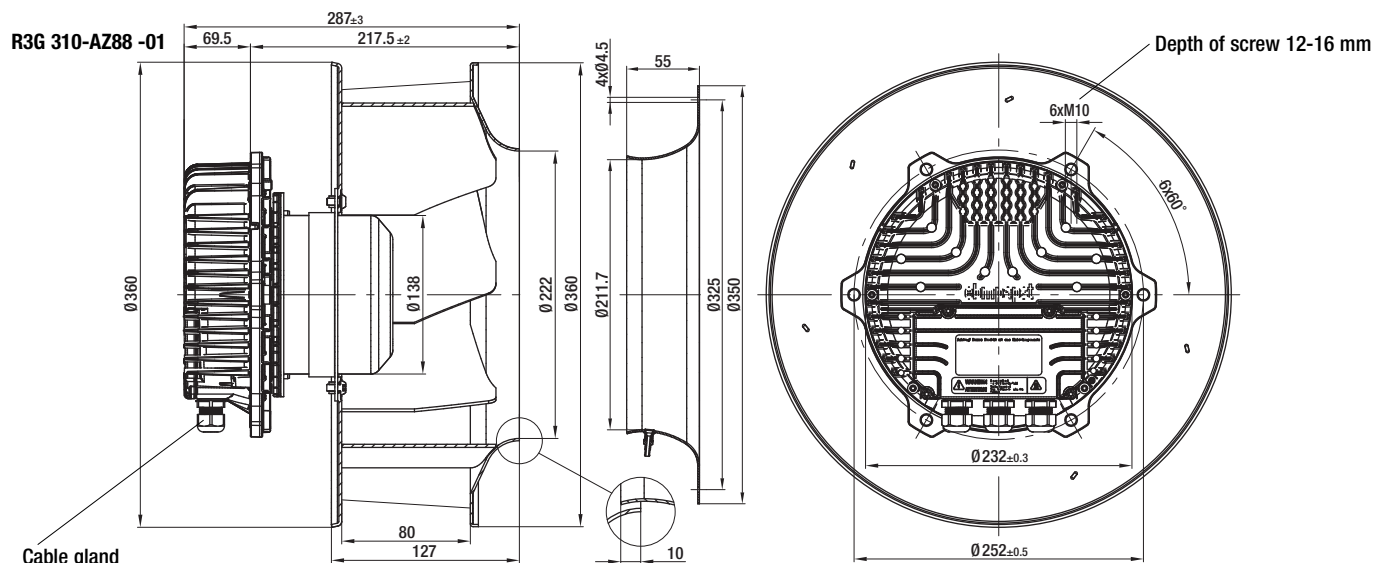


	n [rpm]	P ₁ [W]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	4100	1976	3,03	97
Ⓐ 2	4100	2488	3,77	91
Ⓐ 3	4100	2915	4,50	89
Ⓐ 4	4100	2750	4,19	93
Ⓐ 5	3400	1127	1,73	93
Ⓐ 6	3400	1428	2,17	87
Ⓐ 7	3400	1659	2,53	85
Ⓐ 8	3400	1566	2,39	89
Ⓐ 9	2700	564	0,87	88
Ⓐ 10	2700	715	1,08	82
Ⓐ 11	2700	831	1,27	80
Ⓐ 12	2700	784	1,19	84

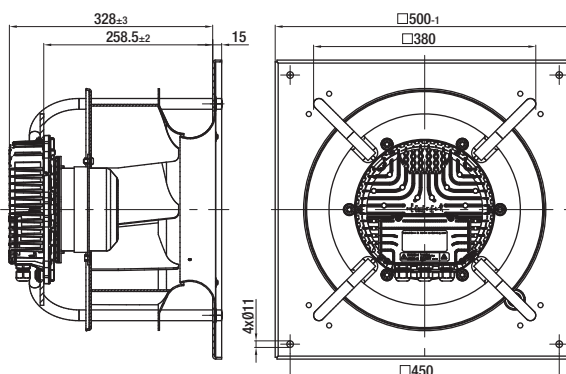
- **Technical features:**
 - PFC (passive)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 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 MODBUS
 - Motor current limitation, Alarm relay
 - Line undervoltage / phase failure detection
 - Electronics / motor overtemperature protection
 - Locked-rotor protection, Soft start
 - Digital inputs for day/night switch, enabling, cooling / heating

	Mass of centrifugal fan			Mass of centrifugal module with support bracket	
Centrifugal fan ⁽²⁾	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket ⁽²⁾	kg	
R3G 310-AZ88 -01	15,0	31576-1-4013	K3G 310-AZ88 -02	25,0	

(2) With higher protection against corrosion



K3G 310-AZ88 -02



EC centrifugal fans and module

backward curved, Ø 450 - Design for use in sanitation units -



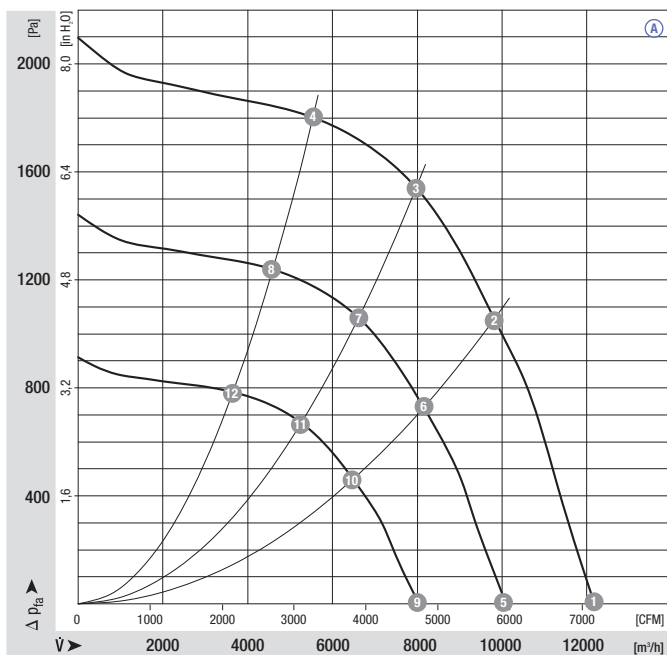
- **Material:** Support bracket: Steel, coated in white
Support plate: Galvanised sheet steel, coated
Impeller: Sheet aluminium, welded, coated
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium, coated
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type 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 ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	°C	p. 47
*3G 450	M3G 150-IF	Ⓐ	3~ 380-480	50/60	2750	5370	8,30	-25..+40	M2)

subject to alterations

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

Curves

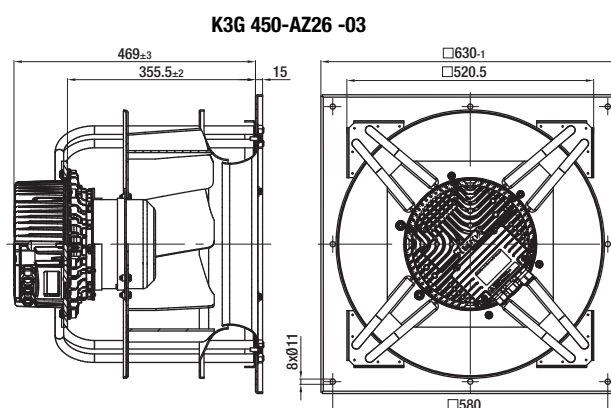
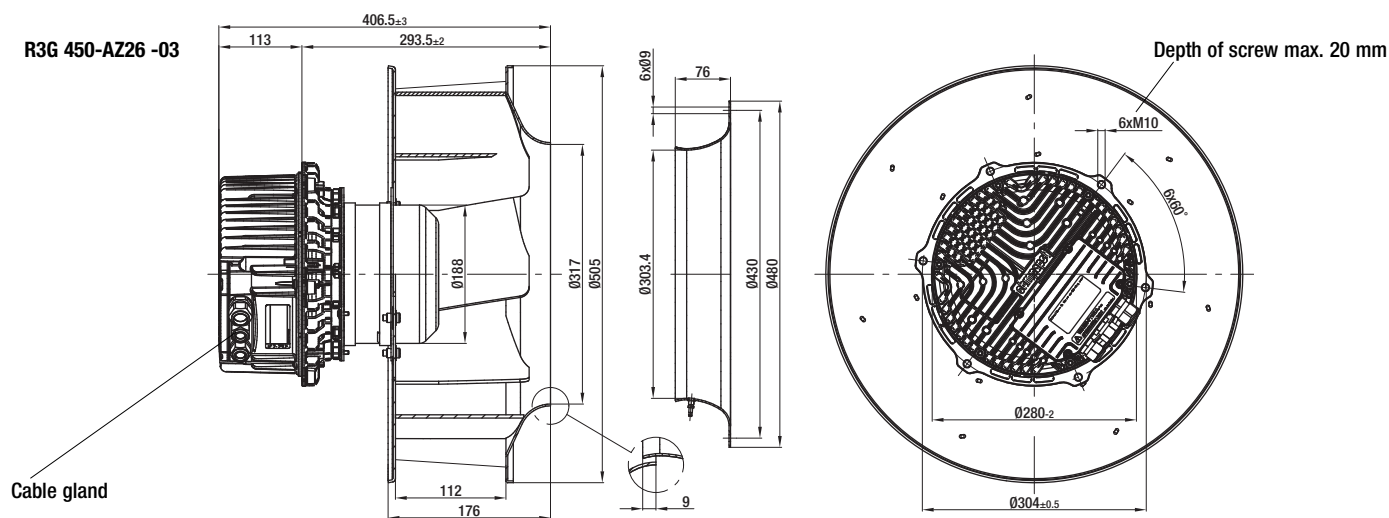


	n [rpm]	P ₁ [W]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	2750	3105	4,79	100
Ⓐ 2	2750	4841	7,47	90
Ⓐ 3	2750	5370	8,30	89
Ⓐ 4	2750	5060	7,80	93
Ⓐ 5	2280	1769	2,73	96
Ⓐ 6	2280	2759	4,26	86
Ⓐ 7	2280	3058	4,70	85
Ⓐ 8	2280	2884	4,44	89
Ⓐ 9	1815	893	1,38	91
Ⓐ 10	1815	1392	2,15	81
Ⓐ 11	1815	1543	2,37	80
Ⓐ 12	1815	1455	2,24	84

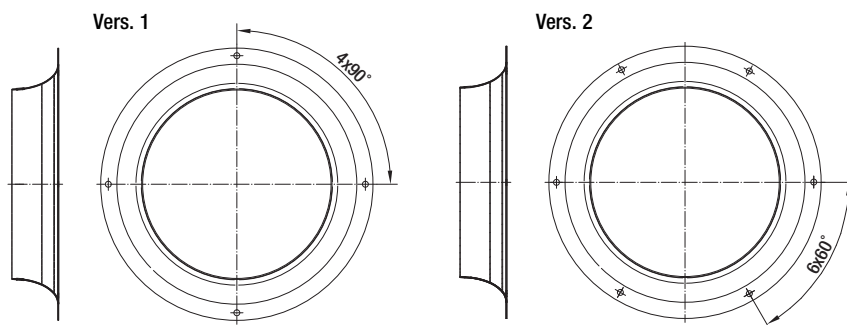
- **Technical features:**
 - PFC (passive)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 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

Centrifugal fan ⁽²⁾	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 450-AZ26 -03	31,5	45076-1-4013	K3G 450-AZ26 -03	55,0

(2) With higher protection against corrosion



Accessories



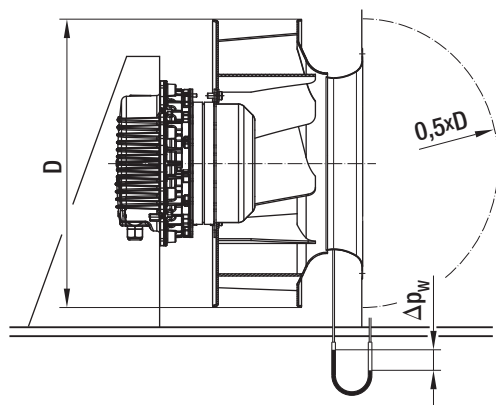
- **Material:** galvanised sheet steel

Inlet nozzles without measuring device for backward curved centrifugal fans

Part no.	Size	Vers.	For dimensions, see
25070-2-4013	250	1	page 7
28070-2-4013	280	1	page 11
31570-2-4013	310	1	page 17
35670-2-4013	355	1	page 19
40070-2-4013	400	2	page 23
45070-2-4013	450	2	page 27
63072-2-4013	500	2	page 31
63071-2-4013	560	2	page 35

subject to alterations

Air flow determination:



The differential pressure approach compares the static pressure before the inlet nozzle with the static pressure inside the inlet nozzle. Air flow can be calculated on the basis of the differential pressure (difference in pressure of the static pressures) in keeping with the following equation:

$$\dot{V} = k \cdot \sqrt{\Delta p_W} \quad \dot{V} \text{ in [m}^3/\text{h]} \text{ und } \Delta p_W \text{ in [Pa]}$$

If constant air flow is to be controlled to, then the nozzle pressure has to be kept constant:

$$\Delta p_W = \dot{V}^2 : k^2$$

k takes into account the specific nozzle characteristics. Differences in static pressure are measured in 1/4 measuring point(s) along the circumference of the inlet nozzle. Connection on the customer side is accomplished via a pre-mounted T tube connector. This tube connector is suited for pneumatic hoses with an internal diameter of 4 mm.

Inlet nozzles with measuring device to determine air flow for backward curved centrifugal fans

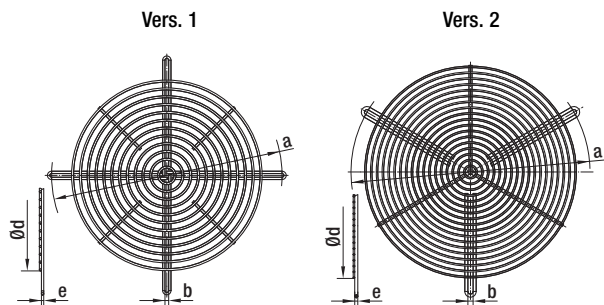
Part no.	Part no.	Size	k-value	For dimensions, see
25075-2-4013 ⁽¹⁾ / 25080-2-4013 ⁽²⁾		250	70	page 7
28075-2-4013 ⁽¹⁾ / 28080-2-4013 ⁽²⁾		280	93	page 11
31575-2-4013 ⁽¹⁾ / 31580-2-4013 ⁽²⁾		310	116	page 17
35675-2-4013 ⁽¹⁾ / 35680-2-4013 ⁽²⁾		355	148	page 19
40075-2-4013 ⁽¹⁾ / 40080-2-4013 ⁽²⁾		400	188	page 23
45075-2-4013 ⁽¹⁾ / 45080-2-4013 ⁽²⁾		450	240	page 27
64025-2-4013 ⁽¹⁾ / 64002-2-4013 ⁽²⁾		500	281	page 31
64030-2-4013 ⁽¹⁾ / 64001-2-4013 ⁽²⁾		560	348	page 35

subject to alterations

⁽¹⁾ with one pressure tap

⁽²⁾ with piezometer ring (4 pressure taps connected by tubing)

Accessories



- **Material:** sheet steel, plastic coated, silver-metallic gloss

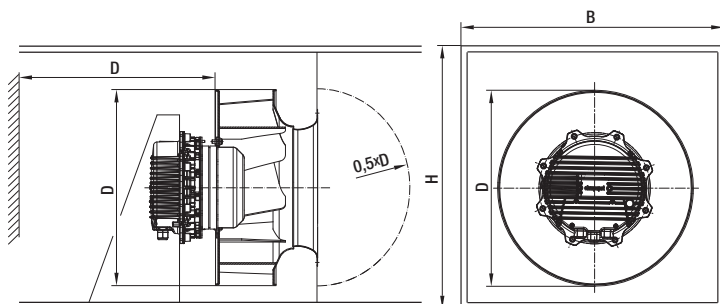
Air intake guard grilles for backward curved centrifugal fans (according to EN 294)

Part no.	Size	Vers.	a	b	d	e	Strut pitch
78129-2-4039	250	1	260	4,5	191	2,8	4 x 90°
78130-2-4039	280	1	280	4,5	229	2,8	4 x 90°
78131-2-4039	310	1	325	4,5	248	2,8	4 x 90°
78132-2-4039	355	1	345	4,5	305	2,8	4 x 90°
78133-2-4039	400	2	390	8,5	343	3,8	3 x 120°
78134-2-4039	450	2	430	8,5	381	3,8	3 x 120°
78139-2-4039	500	2	445	8,5	410	3,8	3 x 120°
78137-2-4039	560	2	490	8,5	430	3,8	3 x 120°

subject to alterations

Effects of installation space

When mounting our product in a rectangular box, air performance might be reduced.



d_h = Hydraulic diameter

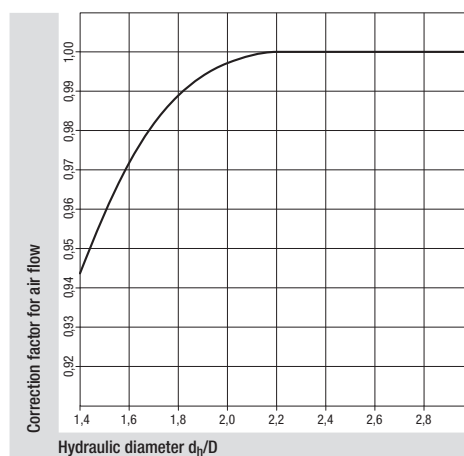
Formula: $d_h = 2 \times B \times H / (B + H)$

B = Width of box

H = Height of box

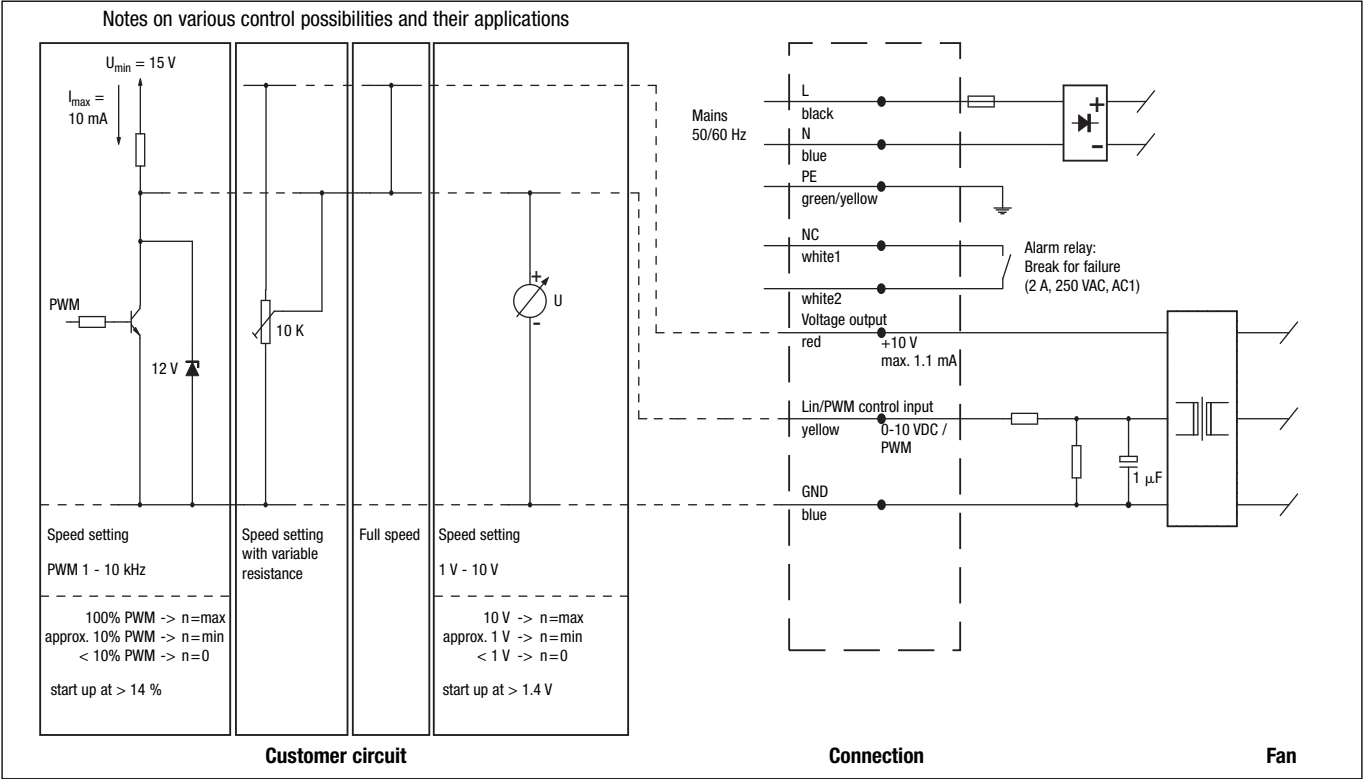
D = Outer diameter of the fan

Curve



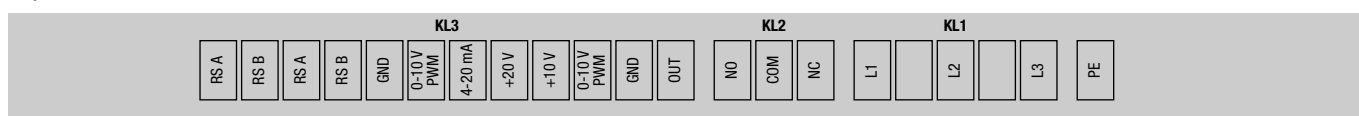
Electrical connections EC

K1)



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

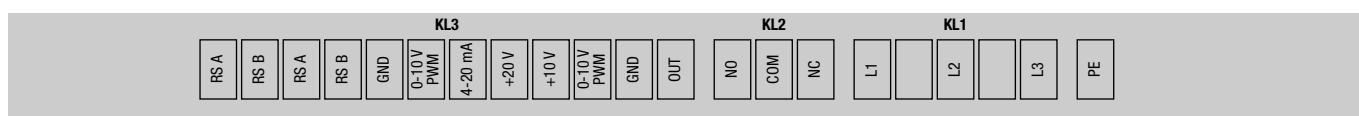
L2)



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

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

L6)

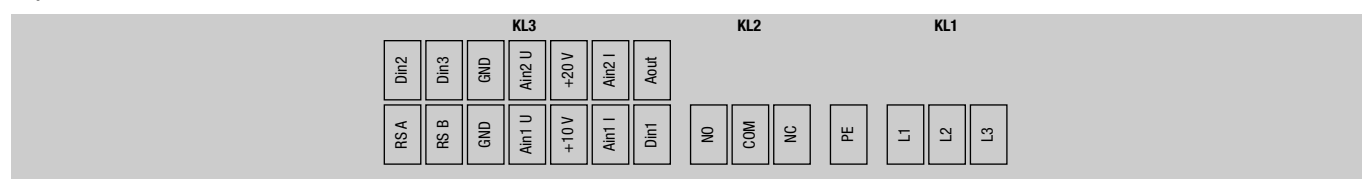


Connector	Connection	Assignment / function
PE	PE	Protective earth
KL1	L3	Mains; L3
	L2	Mains; L2
	L1	Mains; L1
KL2	NC	Alarm relay, break for failure
	COM	Alarm relay, COMMON (2A, 250 VAC, AC1)
	NO	Alarm relay, make for failure

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

Electrical connections EC

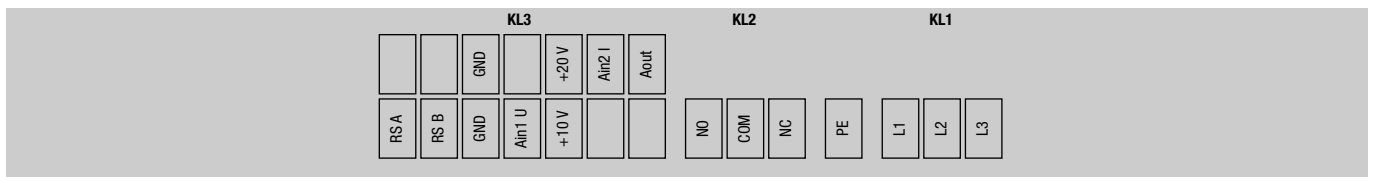
L5)



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

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

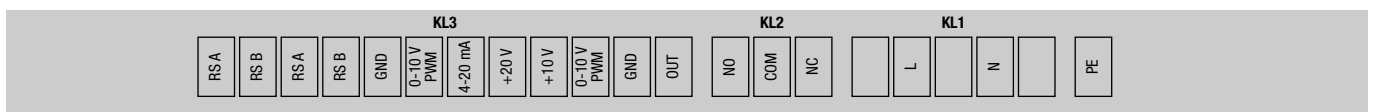
M2)



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

Connector	Connection	Assignment / function
KL3	+10 V	Supply for external potentiometer, 10 VDC ($\pm 3\%$) max. 10 mA
	Ain1U	Analogue set value input, 0-10 V (impedance 100 k Ω), only to be used as alternative to terminal Ain2 I
	GND	GND
	RSB	RS485 interface for ebmBUS; RS B
	RSA	RS485 interface for ebmBUS; RS A
	Aout	Analogue output 0-10 V max. 5 mA, reading of the current motor control factor
	Ain2 I	Analog. actual value input, 4-20mA (impedance 100 Ω), only to be used as alternative to terminal Ain1 U
	+20 V	Supply for external sensor, 20 VDC ($\pm 25\%$ / -10%) max. 40 mA
	GND	GND

L7)



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

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

-  fan agent
-  compact fan agent
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ebm-papst representatives & subsidiaries

Germany

ebm-papst Muldingen GmbH & Co. KG

Bachmühle 2
D-74673 Muldingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com

www.ebmpapst.com

ebm-papst St. Georgen GmbH & Co. KG

Hermann-Papst-Straße 1
D-78112 St. Georgen
Phone +49 7724 81-0
Fax +49 7724 81-1309
info2@de.ebmpapst.com

www.ebmpapst.com

ebm-papst Landshut GmbH

Hofmark-Aich-Straße 25
D-84030 Landshut
Phone +49 871 707-0
Fax +49 871 707-465
info3@de.ebmpapst.com

www.ebmpapst.com

Agencies

-  **Berlin**
 Dipl.-Ing. (TH) Jens Duchow
 Händelstraße 7
D-16341 Panketal
Phone +49 30 944149-62
Fax +49 30 944149-63
Jens.Duchow@de.ebmpapst.com
-  **Bielefeld**
 Dipl.-Ing. (FH) Wolf-Jürgen Weber
 Niehausweg 13
D-33739 Bielefeld
Phone +49 5206 91732-31
Fax +49 5206 91732-35
Wolf-Juergen.Weber@de.ebmpapst.com
-  **Dortmund**
 Dipl.-Ing. (FH) Hans-Joachim Pundt
 Auf den Steinern 3
D-59519 Möhnesee-Vörlinghausen
Phone +49 2925 800-407
Fax +49 2925 800-408
Hans-Joachim.Pundt@de.ebmpapst.com
-  **Frankfurt**
 Dipl.-Ing. Christian Kleffmann
 Dr.-Hermann-Krause-Straße 23
D-63452 Hanau
Phone +49 6181 1898-12
Fax +49 6181 1898-13
Christian.Kleffmann@de.ebmpapst.com
-  **Halle**
 Dipl.-Ing. (TU) Michael Hanning
 Lerchenweg 4
D-06120 Lieskau
Phone +49 345 55124-56
Fax +49 345 55124-57
Michael.Hanning@de.ebmpapst.com
-  **Hamburg**
 Ingenieurbüro Breuell GmbH
 Ing. Dirk Kahl
Elektroingenieur
Grützmlenweg 40
D-22339 Hamburg
Phone +49 40 538092-19
Fax +49 40 538092-84
Dirk.Kahl@de.ebmpapst.com

-  **Kassel**
 Dipl.-Ing. (FH) Ralph Brück
 Hoherainstraße 38
D-35075 Gladenbach
Phone +49 6462 4071-10
Fax +49 6462 4071-11
Ralph.Brueck@de.ebmpapst.com
-  **Koblenz**
 Winfried Schaefer
 Hinter der Kirch 10
D-56767 Uersfeld
Phone +49 2657 16-96
Fax +49 2657 16-76
Winfried.Schaefer@de.ebmpapst.com
-  **Munich**
 Dipl.-Wirtsch.-Ing. (FH) Jens Peter
 Steinbergweg 6
D-82285 Hattenhofen
Phone +49 8145 8092-25
Fax +49 8145 8092-26
Jens.Peter@de.ebmpapst.com
-  **Nuremberg**
 Friedrich Klein
 Adlerstraße 49/1
D-73540 Heubach
Phone +49 7173 4983
Fax +49 7173 8053
Friedrich.Klein@de.ebmpapst.com
-  **Offenburg**
 Dipl.-Ing. (FH) Ralf Braun
 Hubeneck 21
D-77704 Oberkirch
Phone +49 7802 9822-52
Fax +49 7802 9822-53
Ralf.Braun@de.ebmpapst.com
-  **Stuttgart**
 Dipl.-Ing. (FH) Rudi Weinmann
 Hindenburgstraße 100/1
D-73207 Plochingen
Phone +49 7153 9289-80
Fax +49 7153 9289-81
Rudi.Weinmann@de.ebmpapst.com
-  **Ulm**
 Dipl.-Wirt.-Ing. (FH) Axel Resch
 Bachmühle 2
D-74673 Muldingen
Phone +49 7938 81-7092
Fax +49 7938 81-110
Axel.Resch@de.ebmpapst.com

Distributors

-  **Frankfurt**
R.E.D. Handelsgesellschaft mbH
Gutenbergstraße 3
D-63110 Rodgau - Jügesheim
Phone +49 6106 841-0
Fax +49 6106 841-111
info@red-elektromechanik.de
www.red-elektromechanik.de
-  **Hamburg**
Breuell + Hilgenfeldt GmbH
Grützmlenweg 40
D-22339 Hamburg
Phone +49 40 538092-20
Fax +49 40 538092-84
info@breuell-hilgenfeldt.de
-  **Munich**
A. Schweiger GmbH
Ohmstraße 1
D-82054 Sauerlach
Phone +49 8104 897-0
Fax +49 8104 897-90
info@schweiger-gmbh.de
www.schweiger-gmbh.com
-  **Express Service-Center** (1 to 5 pieces)
-  **North**
 Breuell + Hilgenfeldt GmbH
 Grützmlenweg 40
D-22339 Hamburg
Phone +49 40 538092-20
Fax +49 40 538092-84
ebmpapst@breuell-hilgenfeldt.de
-  **South**
 HDS Ventilatoren Vertriebs GmbH
Glaswiesenstraße 1
D-74677 Dörzbach
Phone +49 7937 802968
Fax +49 7937 802578
info@hds-gmbh.net

Europe

 **Austria**
 ebm-papst Motoren & Ventilatoren GmbH
 Westbahnstraße 5
 A-4490 St. Florian
 Phone +43 7224 66011-0
 Fax +43 7224 66011-20
 info@at.ebmpapst.com
 www.ebmpapst.at

 **Belarus**
 ebm-papst Bel AgmbH
 P.O. Box 117
 BY-220138 Minsk
 Phone +375 17 3851556
 Fax +375 17 3851556
 info@by.ebmpapst.com
 www.ebmpapst.by

 **Belgium**
 VIBO Benelux B. V.
 Sales office Belgium-Luxemburg
 Romeinsestraat 6/0101
 Research Park Haasrode
 B-3001 Heverlee-Leuven
 Phone +32 16 396-200
 Fax +32 16 396-220
 info@vibobenelux.com
 www.vibobenelux.com

 **Bulgaria**
 ebm-papst Romania S.R.L.
 Str. Tirnavei Nr. 20
 RO-500327 Brasov
 Phone +40 268 312-805
 Fax +40 268 312-805
 dadasludovic@xnet.ro

 **Croatia**
 ebm-papst Industries Kft.
 Ezred u. 2.
 H-1044 Budapest
 Phone +36 1 8722-190
 Fax +36 1 8722-194
 office@hu.ebmpapst.com
 www.ebmpapst.hu

 **Cyprus**
 MATERO LTD
 37, St. Kyriakides Avenue
 P.O. Box 51744
 CY-3080 Limassol
 Phone +357 25 870030
 Fax +357 25 381366
 matero@cytanet.com.cy
 www.matero.com.cy

 **Czech Republic / Slovakia**
 ebm-papst CZ s.r.o.
 Krátká 379
 CZ-66461 Rajhradice u Brna
 Phone +420 547 232-617
 Fax +420 547 232-622
 info@ebmpapst.cz
 www.ebmpapst.cz

 **Denmark**
 Jenk A/S
 Vallensbækvej 21
 DK-2605 Brøndby
 Phone +45 43 63-1111
 Fax +45 43 63-0505
 jenk@jenk.dk
 www.jenk.dk

 **Estonia**
 ebm-papst Oy Eesti Filiaal
 Kadaka tee 3
 EST-10621 Tallinn
 Phone +372 65569-78
 Fax +372 65569-79
 www.ebmpapst.ee

 **Finland**
 ebm-papst Oy
 Puistotie 1
 FIN-02760 Espoo
 Phone +358 9 887022-0
 Fax +358 9 887022-13
 mailbox@ebmpapst.fi
 www.ebmpapst.fi

 **France**
 ebm-papst SARL
 ZI Nord - rue A. Mohler
 BP 62
 F-67212 Obernai-Cedex
 Phone +33 820 326266
 Fax +33 3 88673883
 info@ebmpapst.fr
 www.ebmpapst.fr

 **Greece**
 Helcoma
 Th. Rotas & Co OE
 Davaki 65
 GR-17672 Kallithea-Attiki
 Phone +30 210 9513-705
 Fax +30 210 9513-490
 contact@helcoma.gr
 www.helcoma.gr

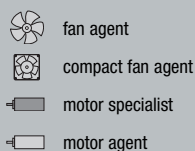
 **Hungary**
 ebm-papst Industries Kft.
 Ezred u. 2.
 H-1044 Budapest
 Phone +36 1 8722-190
 Fax +36 1 8722-194
 office@hu.ebmpapst.com
 www.ebmpapst.hu

 **Iceland**
 RJ Engineers
 Stangarhyl 1A
 IS-110 Reykjavik
 Phone +354 567 8030
 Fax +354 567 8015
 rj@rj.is
 www.rj.is

 **Ireland**
 ebm-papst Limited
 Portlaoise Business & Technology Park
 Mountrath Road
 IRL-Portlaoise, Co. Laois
 Phone +353 5786 643-43
 Fax +353 5786 643-46
 sales@ie.ebmpapst.com
 www.ebmpapst.ie

 **Italy**
 ebm-papst Srl
 Via Cornaggia 108
 I-22076 Mozzate (Co)
 Phone +39 0331 836201
 Fax +39 0331 821510
 info@it.ebmpapst.com
 www.ebmpapst.it

 **Macedonia**
 ebm-papst Industries Kft.
 Ezred u. 2.
 H-1044 Budapest
 Phone +36 1 8722-190
 Fax +36 1 8722-194
 office@hu.ebmpapst.com
 www.ebmpapst.hu



ebm-papst representatives & subsidiaries

 **Netherlands**
 VIBO Benelux B. V.
 Engelseweg 127
 Postbus 230
 NL-5705 AC Helmond
 Phone +31 492 502-900
 Fax +31 492 502-950
verkoop@vibobenelux.com
www.vibobenelux.com

 **Norway**
 ebm-papst AS
 P.B. 173 Holmlia
 N-1203 Oslo
 Phone +47 22 763340
 Fax +47 22 619173
mailbox@ebmpapst.no
www.ebmpapst.no

 **Poland**
 ebm-papst Polska Sp. z o.o.
 ul. Annopol 4A
 PL-03236 Warszawa
 Phone +48 22 6757819
 Fax +48 22 6769587
office@ebmpapst.pl
www.ebmpapst.pl

 **Portugal**
 ebm-papst (Portugal), Lda.
 Av. Marechal Gomes da Costa, 35 e
 Rua Conselheiro Emidio Navarro
 P-1800-255 Lisboa
 Phone +351 218 394-880
 Fax +351 218 394-759
info@pt.ebmpapst.com
www.ebmpapst.pt

 **Romania**
 ebm-papst Romania S.R.L.
 Str. Tirnavei Nr. 20
 RO-500327 Brasov
 Phone +40 268 312-805
 Fax +40 268 312-805
dudasludovic@xnet.ro

 **Russia**
 ebm-papst Ural GmbH
 Posadskaja-Strasse, 23(E), 3
 RU-620102 Ekaterinburg
 Phone +7 343 2338000
 Fax +7 343 2337788
Konstantin.Molokov@ru.ebmpapst.com
www.ebmpapst.ur.ru

 **ebm-papst Rus GmbH**
 Nizhegorodskaya 32, str. 15 office 420
 RU-109029 Moskau
 Phone +7 495 9807524
 Fax +7 495 6715395
info@ebmpapst.ru
www.ebmpapst.ru

 **Serbia & Montenegro**
 ebm-papst Industries Kft.
 Ezred u. 2.
 H-1044 Budapest
 Phone +36 1 8722-190
 Fax +36 1 8722-194
office@hu.ebmpapst.com
www.ebmpapst.hu

 **Spain**
 ebm-papst Ibérica S.L.
 Avda. del Sistema Solar, 29
 E-28830 San Fernando de Henares (Madrid)
 Phone +34 91 6780894
 Fax +34 91 6781530
ventas@ebmpapst.es

 **Sweden**
 ebm-papst AB
 Äggelundavägen 2
 S-17562 Järfälla
 Phone +46 8 7619400
 Fax +46 8 362306
info@ebmpapst.se
www.ebmpapst.se

 **Switzerland**
 ebm-papst AG
 Rütisbergstrasse 1
 CH-8156 Oberhasli
 Phone +41 44 73220-70
 Fax +41 44 73220-77
verkauf@ebmpapst.ch
www.ebmpapst.ch

 **Turkey**
 Akantel Elektronik San. Tic. LTD. Sti.
 Atatürk Organize Sanayi
 Bölgesi 10007 SK. No.:6
 TR-35620 Cigli-Izmir
 Phone +90 232 3282090
 Fax +90 232 3280270
akantel@akantel.com.tr
www.ebmpapst.com.tr

 **Ukraine**
 ebm-papst Ukraine LLC
 Lepse Boulevard, 4, Building 47
 UA-03067 Kiev
 Phone +38 044 2063091
 Fax +38 044 2063091
mail@ebmpapst.ua
www.ebmpapst.ua

 **United Kingdom**
 ebm-papst UK Ltd.
 Chelmsford Business Park
 GB-Chelmsford Essex CM2 5EZ
 Phone +44 1245 468555
 Fax +44 1245 466336
sales@uk.ebmpapst.com
www.ebmpapst.co.uk

 **ebm-papst Automotive & Drives (UK) Ltd.**
 The Smithy
 Fidlers Lane, East Ilsley
 GB-Berkshire RG20 7LG
 Phone +44 1635 2811-11
 Fax +44 1635 2811-61
A&Dsales@uk.ebmpapst.com
www.ebmpapst-ad.com

America



Argentina



ebm-papst de Argentina S.A.
Hernandarias 148 Lomas del Mirador
Pcia. de Buenos Aires (1752)
Phone +54 11 46576135
Fax +54 11 46572092
ventas@ar.ebmpapst.com
www.ebmpapst.com.ar



Brasil



ebm-papst Motores Ventiladores Ltda.
Av. José Giorgi, 301 Galpões B6+B7
Condominio Logical Center
BR-06707-100 Cotia - São Paulo
Phone +55 11 3164-8900
Fax +55 11 3164-8924
vendas@br.ebmpapst.com
www.ebmpapst.com.br



Canada



ebm-papst Canada Inc.
1800 Ironstone Manor, Unit 2
CDN-Pickering, Ontario, L1W3J9
Phone +1 905 420-3533
Fax +1 905 420-3772
sales@ca.ebmpapst.com
www.ebmpapst.ca



Mexico



ebm Industrial S.de R.L. de C.V.
Paseo de Tamarindos 400-A-5º Piso
Col. Bosques de las Lomas
MEX-Mexico 05120, D.F.
Phone +52 55 3300-5144
Fax +52 55 3300-5243
sales@mx.ebmpapst.com
www.ebmpapst.com.mx

USA



ebm-papst Inc.
P.O. Box 4009
100 Hyde Road
USA-Farmington, CT 06034
Phone +1 860 674-1515
Fax +1 860 674-8536
sales@us.ebmpapst.com
www.ebmpapst.us



ebm-papst Automotive & Drives, Inc.
3200 Greenfield, Suite 255
USA-Dearborn, MI 48120
Phone +1 313 406-8080
Fax +1 313 406-8081
automotive@us.ebmpapst.com
www.ebmpapst-automotive.us

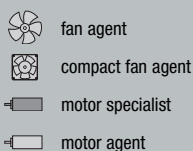
Africa



South Africa



ebm-papst South Africa (Pty) Ltd.
P.O. Box 3124
1119 Yacht Avenue
ZA-2040 Honeydew
Phone +27 11 794-3434
Fax +27 11 794-5020
info@za.ebmpapst.com
www.ebmpapst.co.za



ebm-papst representatives & subsidiaries

Asia

China
 ebm-papst Ventilator (Shanghai) Co., Ltd.
 No. 418, Huajing Road
 WaiGaoQiao Free Trade Zone
 No. 2001, Yang Gao (N) Road
 VRC-200131 Shanghai, P.R. of China
 Phone +86 21 5046-0183
 Fax +86 21 5046-1119
 sales@cn.ebmpapst.com
 www.ebmpapst.com.cn

Hong Kong
 ebm-papst Ventilator (Shanghai) Co., Ltd.
 Hong Kong Representative Office
 Unit Nos. 13-15, 9/F, Technology Park
 18 On Lai Street, Siu Lek Yuen, Shatin,
 N.T. Hong Kong P.R. of China
 Phone +852 2145-8678
 Fax +852 2145-7678
 info@hk.ebmpapst.com

India
 ebm NADI International Pvt Ltd.
 26/3, G.N.T. Road, Erukkencherry
 IND-Chennai-600118
 Phone +91 44 25372556
 Fax +91 44 25371149
 ebmnadi@md2.vsnl.net.in
 www.ebmnadi.com

Indonesia
 ebm-papst Indonesia
 Wisma Slipi Building 14th Floor, No. 1410
 Jl. Letjend S. Parman Kav. 12
 RI-Jakarta Barat 11480
 Phone +62 21 536619-01
 Fax +62 21 536619-05
 salesdept@id.ebmpapst.com

Israel
 Polak Bros. Import Agencies Ltd.
 9 Hamefalsim Street
 IL-Kiryat Arie, Petach-Tikva 49514
 Phone +972 3 9100300
 Fax +972 3 5796679
 polak@polak.co.il
 www.polak.co.il

Japan
 ebm-papst Industries Japan K.K.
 12 Floor, Benex S-3 Bldg.
 3-20-8 Shinyokohama, Kohoku-ku
 J-222-0033 Yokohama
 Phone +81 45 47057-51
 Fax +81 45 47057-52
 info@jp.ebmpapst.com
 www.ebmpapst.jp

Korea
 ebm-papst Korea Co. Ltd.
 6F, Trutec Bldg.
 B 6-2, Digital Media City (DMC)
 Sangam-Dong, Mapo-Gu
 ROK-Seoul 121-270
 Phone +82 2 366213-24
 Fax +82 2 366213-26
 info@kr.ebmpapst.com
 www.ebmpapst.co.kr

Malaysia
 ebm-papst Malaysia
 Representative Office
 Block F1, 9A-4, Jln PJU 1/42
 Dataran Prima
 MAL-47301 Petaling Jaya
 Phone +60 3 780654-40
 Fax +60 3 780654-41
 salesdept@my.ebmpapst.com

Singapore
 ebm-papst SEA Pte. Ltd.
 No. 23 Ubi Road 4
 #06-00 Olympia Industrial Building
 SGP-Singapore 408620
 Phone +65 65513789
 Fax +65 68428439
 salesdept@sg.ebmpapst.com

Taiwan
 ETECO Engineering & Trading Corp.
 10F-I, No. 92, Teh-Wei Str.
 RC-Tsow-Inn District, Kaohsiung
 Phone +886 7 557-4268
 Fax +886 7 557-2788
 eteco@ms22.hinet.net

Thailand
 ebm-papst Thailand Co., Ltd.
 99/349 Na-Nakorn Bldg., 4th Floor
 Chaeng Wattana Road, Thungsonghong,
 THA-10210 Laksi, BKK
 Phone +66 2 57615-24
 Fax +66 2 57615-42
 salesdept@th.ebmpapst.com

United Arab Emirates
 ebm-papst Middle East FZE
 PO Box 17755
 Jebel Ali Free Zone / FZS1 / AP05
 UAE-Dubai
 Phone +971 4 88608-26
 Fax +971 4 88608-27
 info@ae.ebmpapst.com
 www.ebmpapst.ae

Vietnam
 ebm-papst Vietnam
 Representative Office
 Room #102, 25 Nguyen Van Thu Street
 District 1
 VN-Ho Chi Minh City
 Phone +84 8 39104099
 Fax +84 8 39103970
 linh.nguyen@vn.ebmpapst.com

Australia



Australia

ebm-papst A&NZ Pty Ltd.



10 Oxford Road



AUS-Laverton North, Victoria, 3026

Phone +61 3 9360-6400

Fax +61 3 9360-6464

sales@ebmpapst.com.au

www.ebmpapst.com.au



New Zealand

ebm-papst A&NZ Pty Ltd.



102 Henderson Valley Road



NZ-Henderson, Auckland 1230

Phone +64 9 837-1884

Fax +64 9 837-1899

sales@ebmpapst.com.au

www.ebmpapst.com.au

ebm-papst
Mulfingen GmbH & Co. KG

Bachmühle 2
D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com

www.ebmpapst.com

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