

EC centrifugal fans and modules

backward curved, Ø 310



- **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:** 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

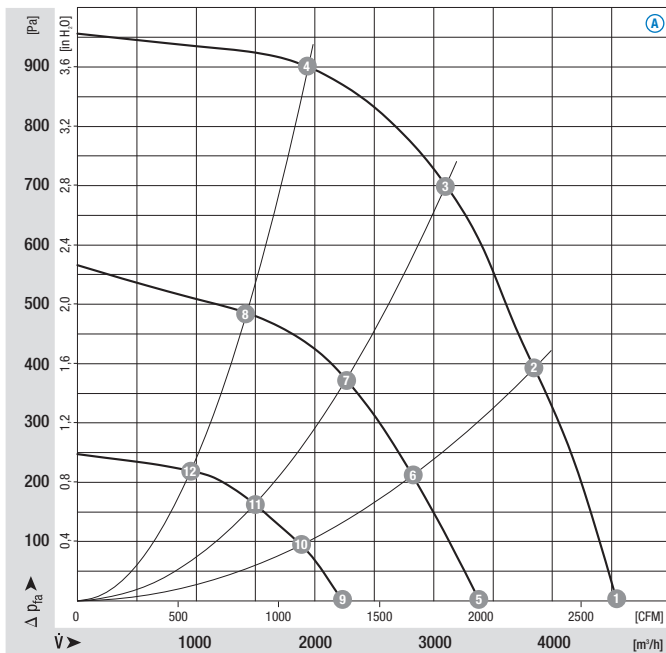
Nominal data

Type	Motor	Curve	Nominal voltage range VAC	Frequency Hz	Speed/rpm	Max. power input ⁽¹⁾ W	Max. current draw ⁽¹⁾ A	Perm. amb. temp. °C	Electr. connection p. 27
*3G 310	M3G 112-EA	A	3~ 380-480	50/60	2580	990	1,70	-25..+50	L2)

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)]	η _{HL} [%]
A 1	2580	669	1,17	88	—
A 2	2580	862	1,46	81	68
A 3	2580	990	1,70	77	78
A 4	2580	907	1,53	79	66
A 5	1930	288	0,57	80	—
A 6	1910	348	0,69	74	66
A 7	1900	396	0,77	70	76
A 8	1905	360	0,72	71	65
A 9	1305	123	0,28	72	—
A 10	1305	144	0,33	67	63
A 11	1305	151	0,34	62	73
A 12	1300	151	0,34	62	60

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

Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module with support plate	kg
R3G 310-AX52 -01	9,3	31575-2-4013	K3G 310-AX52 -02	15,9	K3G 310-AX52 -01	16,6

