

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

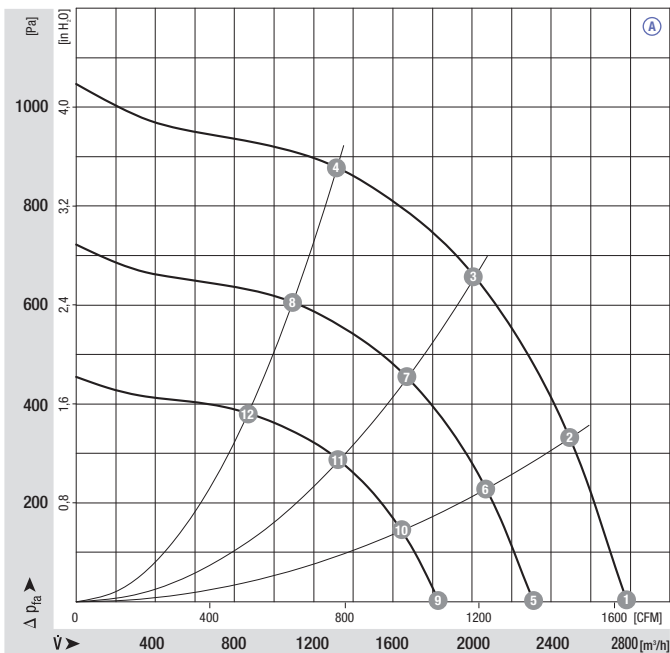
Nominal data

Type	Motor	Curve	Nominal voltage range VAC	Frequency Hz	Speed/rpm ⁽¹⁾ rpm	Max. power input ⁽¹⁾ W	Max. current draw ⁽¹⁾ A	Perm. amb. temp. °C	Electr. connection p. 47
*3G 250	M3G084-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
- **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
 - Alarm relay
 - Line undervoltage detection
 - Motor current limitation
 - Electronics / motor overtemperature protection
 - Locked-rotor protection
 - Soft start

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

