

# 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

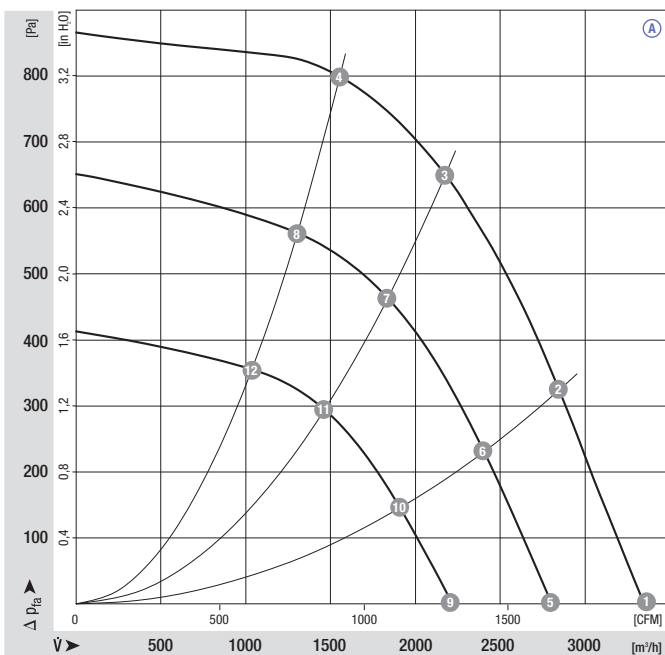
## Nominal data

Type	Motor	Curve	Nominal voltage range VAC	Frequency Hz	Speed/rpm <sup>(1)</sup> rpm	Max. power input <sup>(1)</sup> W	Max. current draw <sup>(1)</sup> A	Perm. amb. temp. °C	Electr. connection p. 47
*3G 280	M3G084-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 [rpm]	P <sub>1</sub> [W]	I [A]	L <sub>wA</sub> [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
  - **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 <sup>(2)</sup>	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

