

# 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

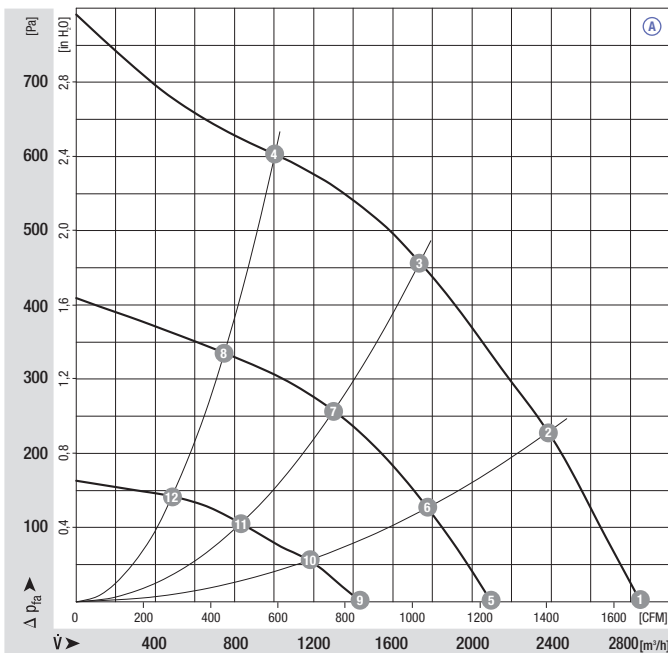
## Nominal data

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. 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 <sub>1</sub> [W]	I [A]	L <sub>wA</sub> [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

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

