

# EC centrifugal fans and modules

backward curved, Ø 280



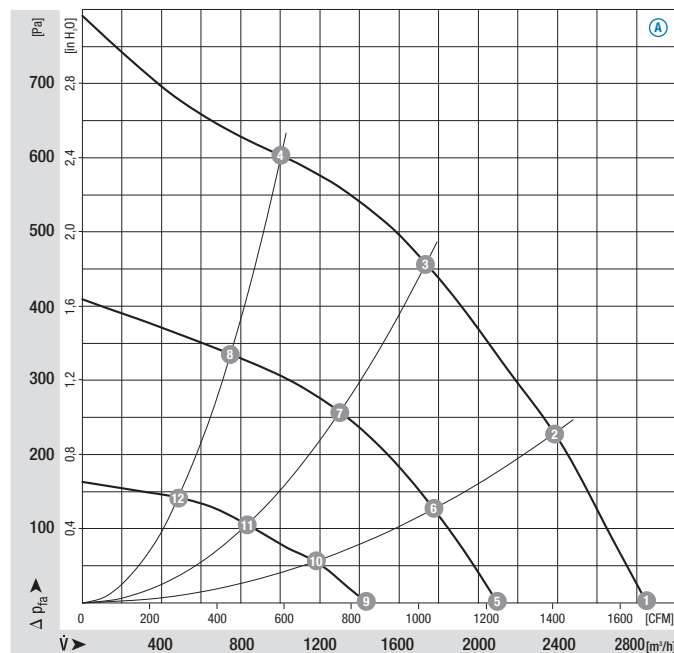
- **Material:** Support bracket: Steel, coated in black  
Support plate: Sheet aluminium, spacer profiles: Aluminium  
Impeller: Sheet aluminium, laser-welded  
Rotor: Coated in black  
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on top; rotor on bottom 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	Max. power input <sup>(1)</sup>	Max. current draw <sup>(1)</sup>	Perm. amb. temp.	Electr. connection
Type	Motor	VAC	Hz	rpm	W	A	°C	p. 26	
*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

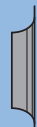


	n [rpm]	P <sub>1</sub> [W]	I [A]	Lw <sub>A</sub> [dB(A)]	η <sub>HL</sub> [%]
Ⓐ 1	2420	320	1,94	82	—
Ⓐ 2	2320	367	2,20	75	61
Ⓐ 3	2290	390	2,30	69	76
Ⓐ 4	2340	361	2,17	75	58
Ⓐ 5	1770	124	0,81	75	—
Ⓐ 6	1730	148	0,95	70	58
Ⓐ 7	1730	156	1,00	63	72
Ⓐ 8	1760	143	0,93	67	56
Ⓐ 9	1195	49	0,36	68	—
Ⓐ 10	1175	56	0,40	64	55
Ⓐ 11	1165	54	0,39	55	65
Ⓐ 12	1155	53	0,38	56	51

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **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



Mass of centrifugal fan



Inlet nozzle with one pressure tap



Mass of centrifugal module with support bracket



Mass of centrifugal module with support plate

Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module with support plate	kg
R3G 280-AT04 -71	5,4	28075-2-4013	K3G 280-AT04 -72	10,4	K3G 280-AT04 -71	11,4

