

EC centrifugal fans and modules

backward curved, 3-D, Ø 450, RS485, ebmBUS



- **Material:** 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:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 20 (acc. to EN 60529)
- **Insulation class:** "F"
- **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

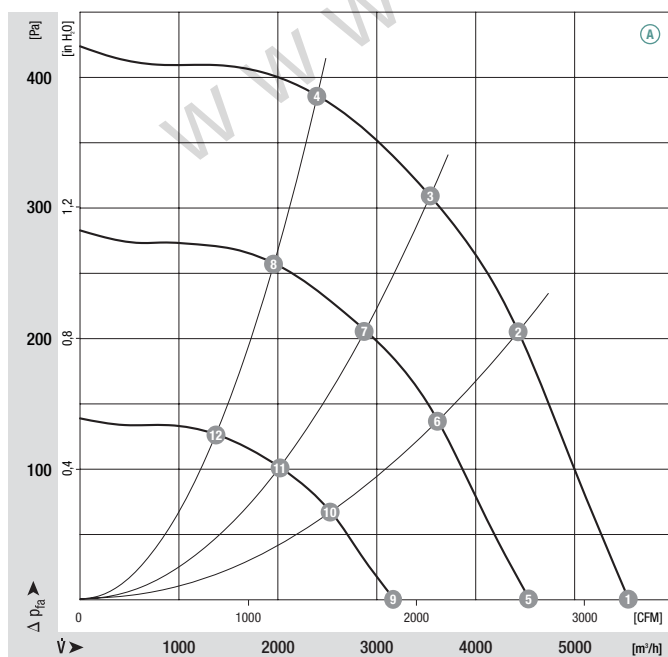
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
*3G 450	M3G 112-EA	A	1~ 200-277	50/60	1225	0.50	2.20	-25 to +40	p. 606

subject to alterations

(1) Nominal data in operating point with maximum load and 230 VAC

Curves



	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
A 1	1225	0.35	1.50	68	—
A 2	1225	0.49	2.10	64	65
A 3	1225	0.50	2.20	64	67
A 4	1225	0.47	2.10	63	62
A 5	1000	0.19	0.80	63	—
A 6	1000	0.26	1.20	59	65
A 7	1000	0.28	1.20	59	67
A 8	1000	0.26	1.10	57	62
A 9	700	0.07	0.30	55	—
A 10	700	0.09	0.40	49	65
A 11	700	0.10	0.40	49	67
A 12	700	0.09	0.40	48	62

- **Technical features:**
 - PFC (active)
 - RS485 ebmBUS
- **EMC:** Interference emission acc. to EN 61000-6-4 (industrial environment)
Interference immunity acc. to EN 61000-6-2 (industrial environment)
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Electrical connection:** Via connection lead with plug (accessory)
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** UL, CSA, VDE, CCC, GOST are applied for
- Operation and alarm display: Reversible voltage output 0 V / +15 V (max. 50 mA)
- Over-temperature protected electronics / motor



Mass of centrifugal fan



Inlet nozzle (long)



Centrifugal module with support plate

Mass of centrifugal module with support plate

Centrifugal fan	kg	Inlet nozzle (long)	Centrifugal module with support plate	kg
R3G 450-A051 -01	11.5	63045-2-4013	K3G 450-A051 -01	25.4

