

EC centrifugal fans and modules

backward curved, Ø 500



- **Material:** Support bracket: Steel, coated in black
Support plate: Galvanised sheet steel
Impeller: Sheet aluminium, 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 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

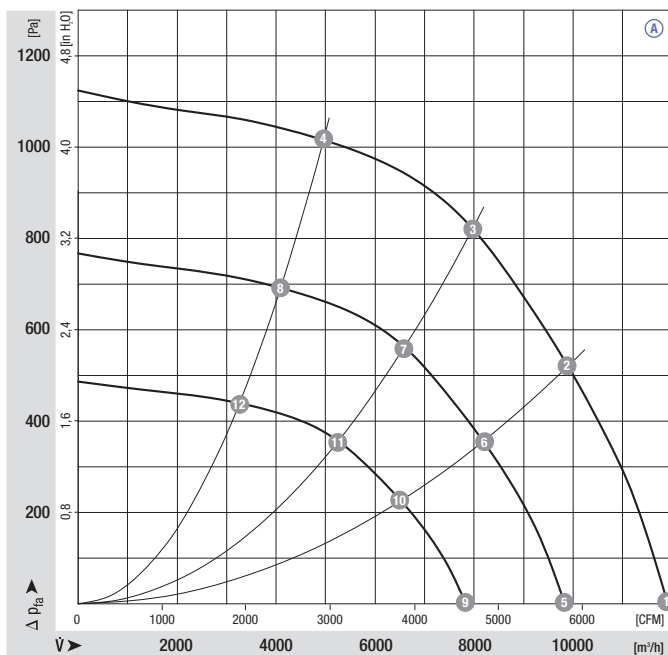
Nominal data

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. 46
*3G 500	M3G 150-FF	Ⓐ	3~ 380-480	50/60	1780	2825	4,30	-25..+60	L5)

subject to alterations

(1) Nominal data in operating point with maximum load and 400 VAC

Curves



	n [rpm]	P ₁ [W]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	1780	1746	2,70	94
Ⓐ 2	1780	2490	3,82	85
Ⓐ 3	1780	2825	4,30	80
Ⓐ 4	1780	2582	3,96	83
Ⓐ 5	1475	985	1,52	89
Ⓐ 6	1475	1411	2,16	81
Ⓐ 7	1475	1600	2,46	76
Ⓐ 8	1475	1452	2,23	79
Ⓐ 9	1175	498	0,77	84
Ⓐ 10	1175	713	1,09	76
Ⓐ 11	1175	809	1,24	71
Ⓐ 12	1175	734	1,13	74

- **Technical features:**
 - PFC (passive)
 - 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
 - Motor current limitation, Alarm relay
- Line undervoltage / phase failure detection
 - Electronics / motor overtemperature protection
 - Locked-rotor protection, Soft start
 - Digital inputs for day/night switch, enabling, cooling / heating

Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 500-AP25 -01	25,0	64025-2-4013	K3G 500-AP25 -01	41,5	K3G 500-AP25 -31	41,5

(2) Centrifugal module with higher protection against corrosion

