

EC centrifugal fans and modules

backward curved, Ø 355



- **Material:** Support bracket: Steel, coated in black
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:** 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

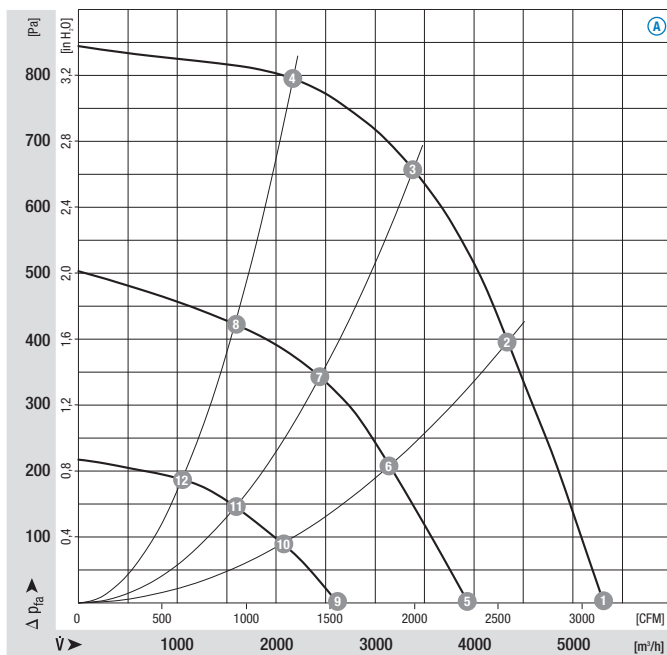
Nominal data

Type	Motor	Curve	Nominal voltage range VAC	Frequency Hz	Speed/rpm	Max. power input ⁽¹⁾ W	Max. current draw ⁽¹⁾ A	Perm. amb. temp. °C	Electr. connection p. 27
*3G 355	M3G 112-EA	A	3~ 380-480	50/60	2140	1000	1,70	-25..+50	L2)

subject to alterations

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

Curves



	n [rpm]	P ₁ [W]	I [A]	Lw _A [dB(A)]	η _{HL} [%]
A 1	2140	656	1,14	87	—
A 2	2140	893	1,50	77	69
A 3	2140	1000	1,70	75	74
A 4	2140	918	1,54	78	61
A 5	1610	286	0,57	79	—
A 6	1595	350	0,68	70	67
A 7	1580	387	0,74	69	72
A 8	1585	366	0,70	70	61
A 9	1080	113	0,28	71	—
A 10	1065	133	0,31	64	64
A 11	1065	143	0,33	60	68
A 12	1060	135	0,32	61	60

- **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 ebmBUS
 - Alarm relay
- Line undervoltage / phase failure 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 with support plate	kg
R3G 355-AX56 -01	9,8	35675-2-4013	K3G 355-AX56 -02	17,6	K3G 355-AX56 -01	19,5

