

EC centrifugal fans and modules

backward curved, Ø 450



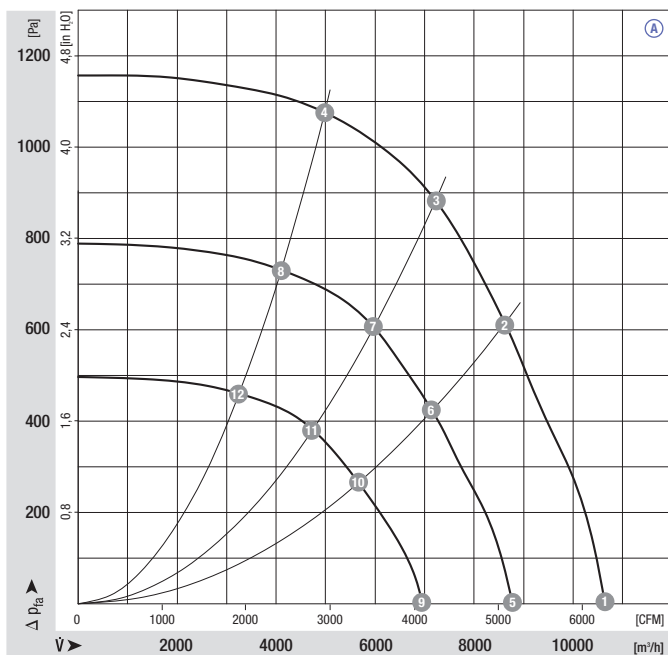
- **Material:** Support bracket: Steel, coated in black
Support plate: Galvanised sheet steel
Impeller: Sheet aluminium, welded
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 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		Curve	Nominal voltage range	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor	VAC	Hz	rpm	W	A	°C	p. 46	
*3G 450	M3G 150-FF	Ⓐ	3~ 380-480	50/60	2040	2730	4,20	-25..+60	L5)

subject to alterations

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

Curves

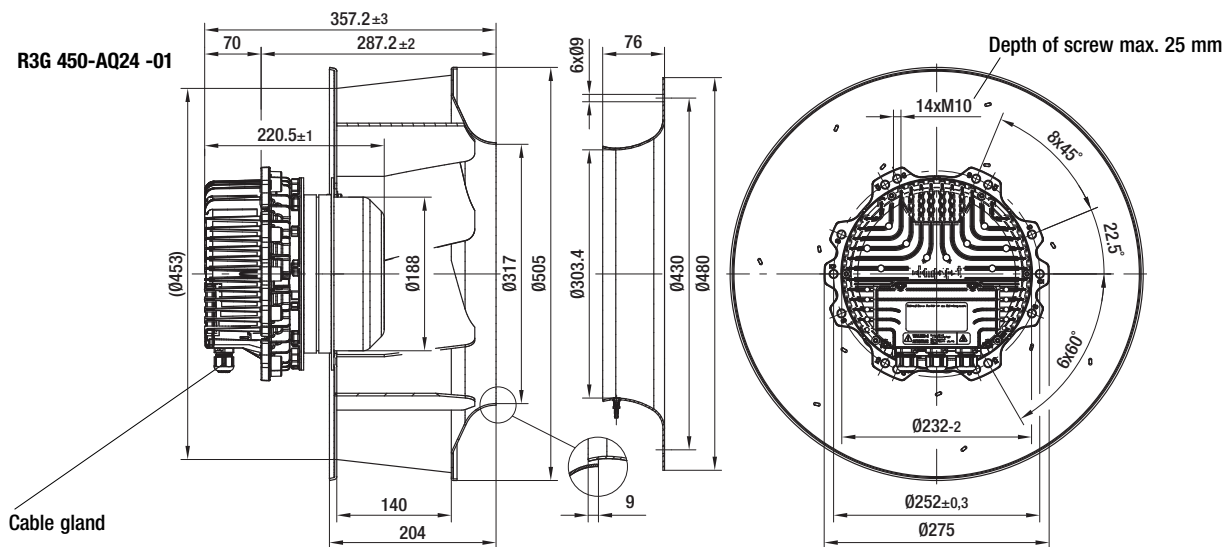


	n [rpm]	P ₁ [W]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	2040	1773	2,71	92
Ⓐ 2	2040	2500	3,80	83
Ⓐ 3	2040	2730	4,20	81
Ⓐ 4	2040	2587	3,96	83
Ⓐ 5	1695	991	1,52	88
Ⓐ 6	1695	1428	2,17	79
Ⓐ 7	1695	1548	2,35	77
Ⓐ 8	1695	1450	2,22	79
Ⓐ 9	1345	495	0,76	83
Ⓐ 10	1345	713	1,09	74
Ⓐ 11	1345	774	1,18	72
Ⓐ 12	1345	725	1,11	74

- **Technical features:**
 - PFC (passive)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
 - 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
- **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

Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket ⁽²⁾	kg
R3G 450-AQ24 -01	22,5	45075-2-4013	K3G 450-AQ24 -01	38,5	K3G 450-AQ24 -31	38,5

(2) Centrifugal module with higher protection against corrosion



K3G 450-AQ24 -01 / -31

