EC centrifugal fans and modules

backward curved, Ø 400



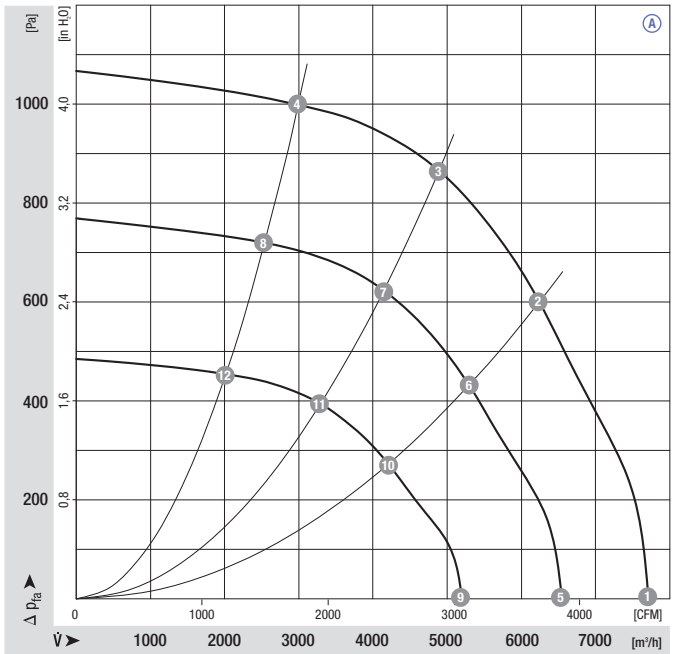
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** 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 400**	M3G112-IA	Ⓐ	3~ 380-480	50/60	2180	1850	2,90	-25..+50	L5)

subject to alterations

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

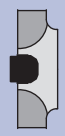
Curves

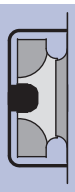
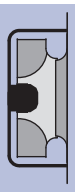


	n [rpm]	P_1 [W]	I [A]	Lw_A [dB(A)]
Ⓐ 1	2180	1178	1,81	89
Ⓐ 2	2180	1748	2,66	82
Ⓐ 3	2180	1850	2,90	81
Ⓐ 4	2180	1638	2,49	84
Ⓐ 5	1850	720	1,10	85
Ⓐ 6	1850	1063	1,62	78
Ⓐ 7	1850	1132	1,72	77
Ⓐ 8	1850	1001	1,52	80
Ⓐ 9	1470	361	0,55	80
Ⓐ 10	1470	533	0,81	73
Ⓐ 11	1470	568	0,86	72
Ⓐ 12	1470	502	0,76	75

ebmpapst

– **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 (±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

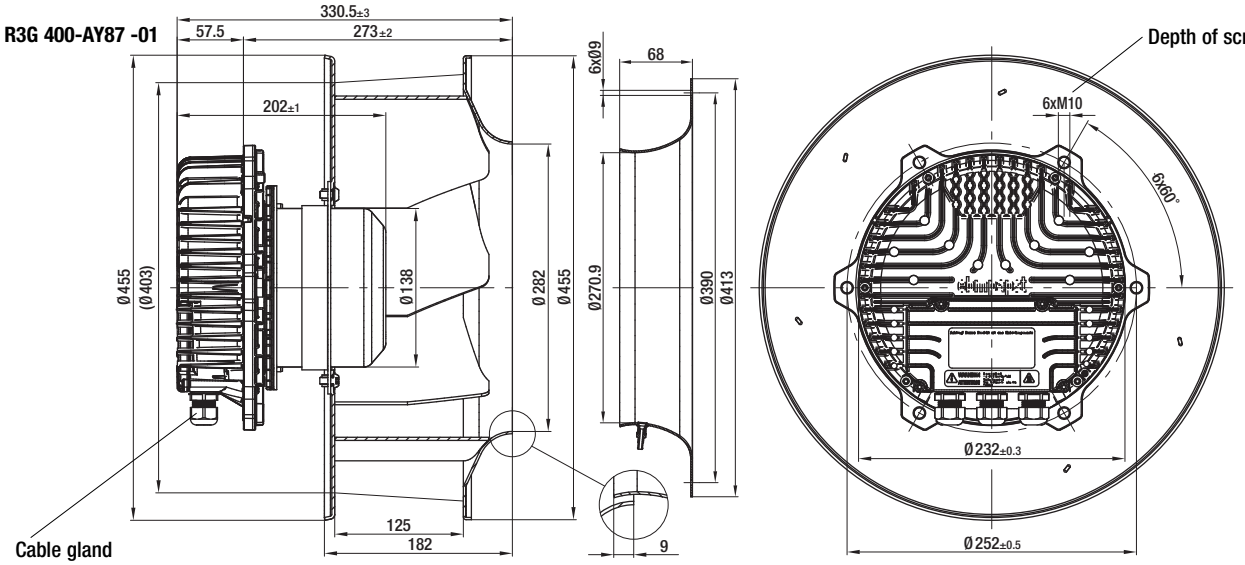


Centrifugal fan	kg	Inlet nozzle with one pressure tap	Centrifugal module w. support bracket	kg	Centrifugal module w. support bracket (2)	kg
R3G 400-AY87 -01	14,0	40075-2-4013	**K3G 400-AY87 -02**	25,0	**K3G 400-AY87 -32**	25,0

(2) Centrifugal module with higher protection against corrosion

R3G 400-AY87 -01



K3G 400-AY87 -02 / -32

