# EC centrifugal fans backward curved



# EC centrifugal fans

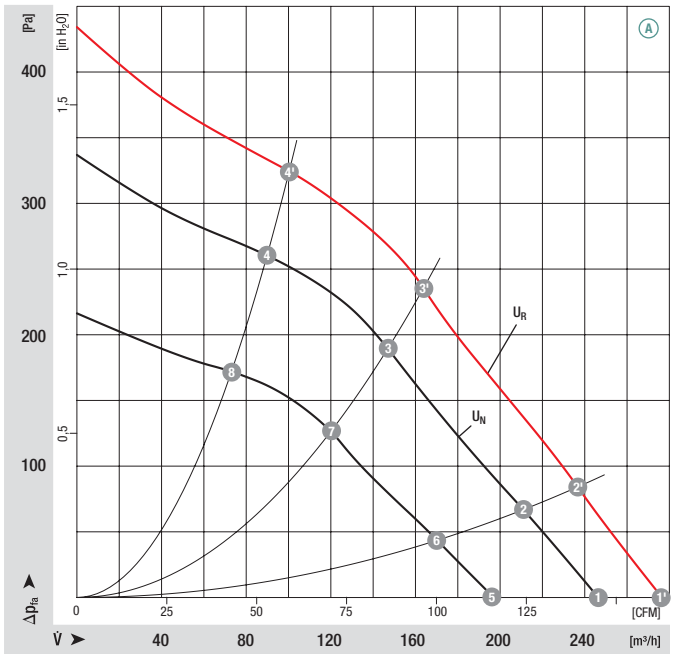
## backward curved, Ø 120

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 20
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

| Nominal data | | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VDC** | **VDC** | **m³/h** | **rpm** | **W** | **A** | **dB(A)** | **°C** | p. 600 |
| **R1G 120** | M1G 045-BE | Ⓐ | 24 | 16-28 | 250 | 4060 | 26 | 1.20 | 62 | -25 to +50 | G) |
| **R1G 120** | M1G 045-BE | Ⓐ | 48 | 36-57 | 250 | 4060 | 26 | 0.60 | 62 | -25 to +50 | G) |

subject to alterations

## Curves




| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 4520 | 36 | 65 | — |
| Ⓐ 2' | 4500 | 36 | 64 | 27 |
| Ⓐ 3' | 4540 | 36 | 61 | 45 |
| Ⓐ 4' | 4750 | 32 | 64 | 39 |
| Ⓐ 1 | 4060 | 26 | 62 | — |
| Ⓐ 2 | 4000 | 26 | 61 | 27 |
| Ⓐ 3 | 4050 | 26 | 58 | 45 |
| Ⓐ 4 | 4200 | 23 | 61 | 39 |
| Ⓐ 5 | 3270 | 14 | 56 | — |
| Ⓐ 6 | 3250 | 14 | 55 | 27 |
| Ⓐ 7 | 3280 | 14 | 53 | 45 |
| Ⓐ 8 | 3400 | 13 | 56 | 39 |



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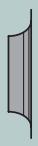
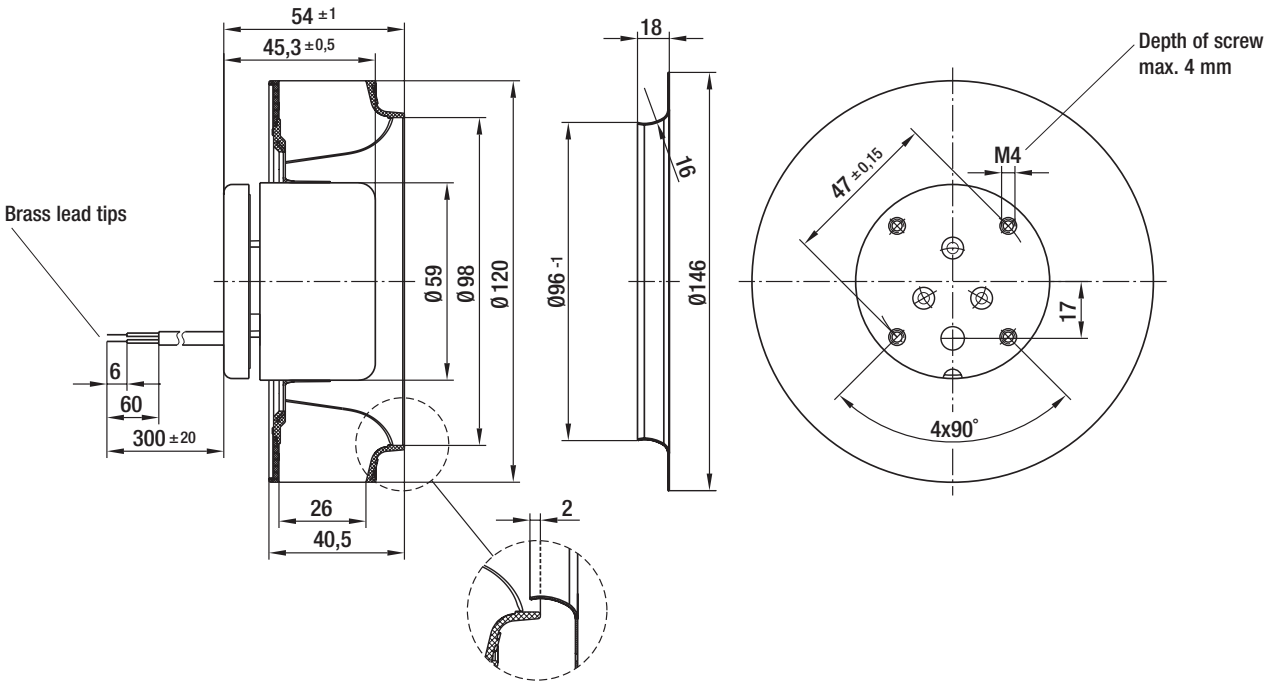
- **Technical features:**
- Control input 0-10 VDC / PWM
- **Cable exit:** Axial
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** Ⓐ (48 VDC) CCC

- Tach output
- Reverse polarity and locked-rotor protection



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| **R1G 120-AD13 -02** | 0.5 | 96120-2-4013 |
| **R1G 120-AD11 -02** | 0.5 | 96120-2-4013 |



# EC centrifugal fans

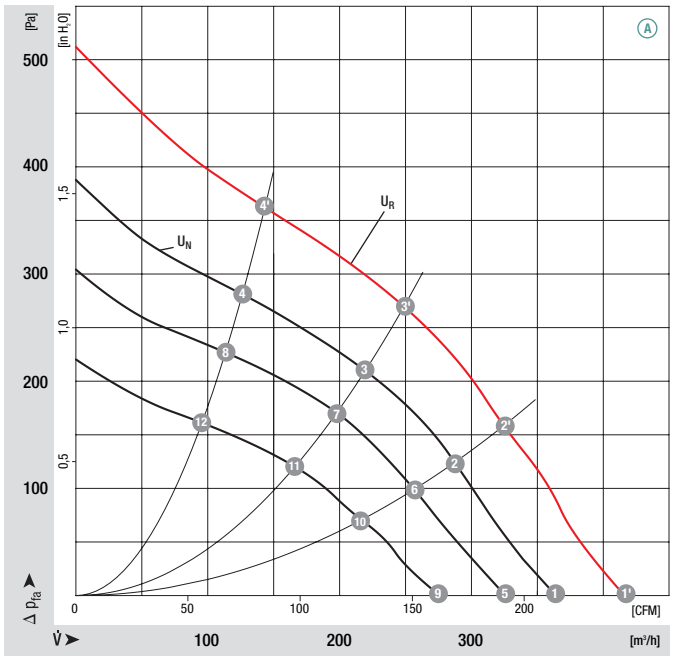
## backward curved, Ø 133

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 20
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

| Nominal data | | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VDC** | **VDC** | **m³/h** | **rpm** | **W** | **A** | **dB(A)** | **°C** | p. 600 |
| **R1G 133** | M1G 055-BD | Ⓐ | 24 | 16-28 | 360 | 3900 | 28 | 1.30 | 63 | -25 to +60 | G) |
| **R1G 133** | M1G 055-BD | Ⓐ | 48 | 36-57 | 360 | 3900 | 28 | 0.70 | 63 | -25 to +60 | G) |

subject to alterations

## Curves




| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 4450 | 39 | 74 | — |
| Ⓐ 2' | 4250 | 44 | 60 | 45 |
| Ⓐ 3' | 4270 | 44 | 59 | 56 |
| Ⓐ 4' | 4380 | 41 | 61 | 44 |
| Ⓐ 1 | 3900 | 28 | 63 | — |
| Ⓐ 2 | 3770 | 31 | 58 | 45 |
| Ⓐ 3 | 3770 | 31 | 56 | 56 |
| Ⓐ 4 | 3850 | 29 | 58 | 44 |
| Ⓐ 5 | 3500 | 20 | 59 | — |
| Ⓐ 6 | 3380 | 23 | 55 | 45 |
| Ⓐ 7 | 3400 | 23 | 53 | 56 |
| Ⓐ 8 | 3450 | 21 | 55 | 44 |
| Ⓐ 9 | 2970 | 13 | 55 | — |
| Ⓐ 10 | 2860 | 15 | 51 | 45 |
| Ⓐ 11 | 2880 | 15 | 49 | 56 |
| Ⓐ 12 | 2930 | 14 | 51 | 44 |



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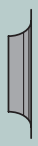
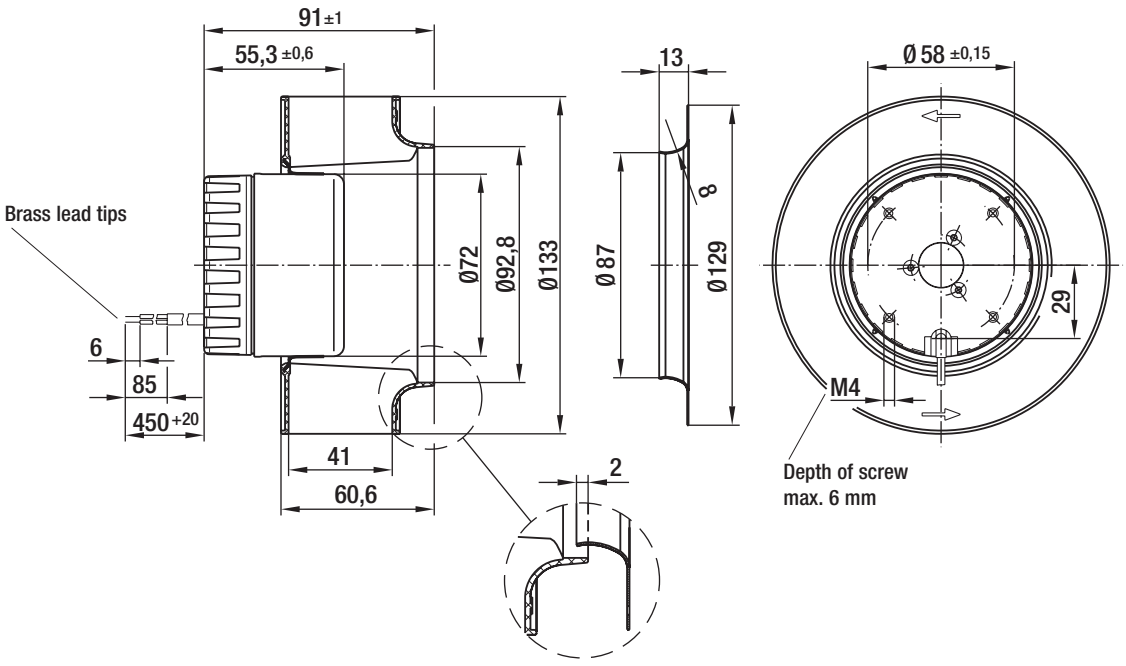
- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
  - Reverse polarity and locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA, Ⓐ (48 VDC) with CCC



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| **R1G 133-AA17 -02** | 0.7 | 09566-2-4013 |
| **R1G 133-AA65 -02** | 0.7 | 09566-2-4013 |



# EC centrifugal fans

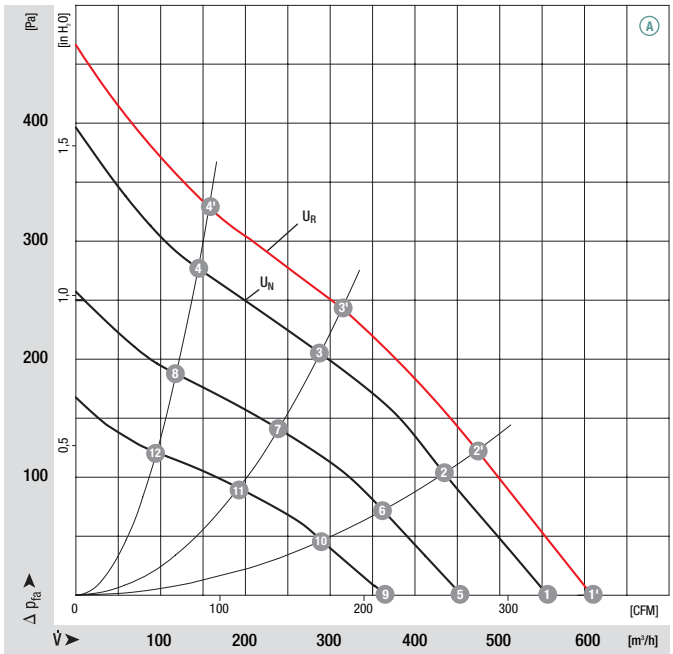
## backward curved, Ø 175

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

| Nominal data | | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VDC** | **VDC** | **m³/h** | **rpm** | **W** | **A** | **dB(A)** | **°C** | p. 600 |
| **R1G 175** | M1G 055-BD | Ⓐ | 24 | 16-28 | 565 | 3100 | 34 | 1.60 | 65 | -25 to +60 | G) |
| **R1G 175** | M1G 055-BD | Ⓐ | 48 | 36-57 | 565 | 3100 | 34 | 1.00 | 65 | -25 to +60 | G) |

subject to alterations

## Curves




| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 3390 | 46 | 67 | — |
| Ⓐ 2' | 3200 | 51 | 60 | 49 |
| Ⓐ 3' | 3170 | 51 | 58 | 58 |
| Ⓐ 4' | 3300 | 51 | 66 | 39 |
| Ⓐ 1 | 3100 | 34 | 65 | — |
| Ⓐ 2 | 2910 | 39 | 58 | 49 |
| Ⓐ 3 | 2880 | 39 | 56 | 58 |
| Ⓐ 4 | 3010 | 37 | 64 | 39 |
| Ⓐ 5 | 2520 | 20 | 60 | — |
| Ⓐ 6 | 2430 | 22 | 54 | 51 |
| Ⓐ 7 | 2390 | 23 | 51 | 58 |
| Ⓐ 8 | 2470 | 21 | 60 | 39 |
| Ⓐ 9 | 2050 | 12 | 56 | — |
| Ⓐ 10 | 1950 | 13 | 50 | 51 |
| Ⓐ 11 | 1920 | 13 | 56 | 58 |
| Ⓐ 12 | 1990 | 12 | 53 | 40 |



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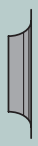
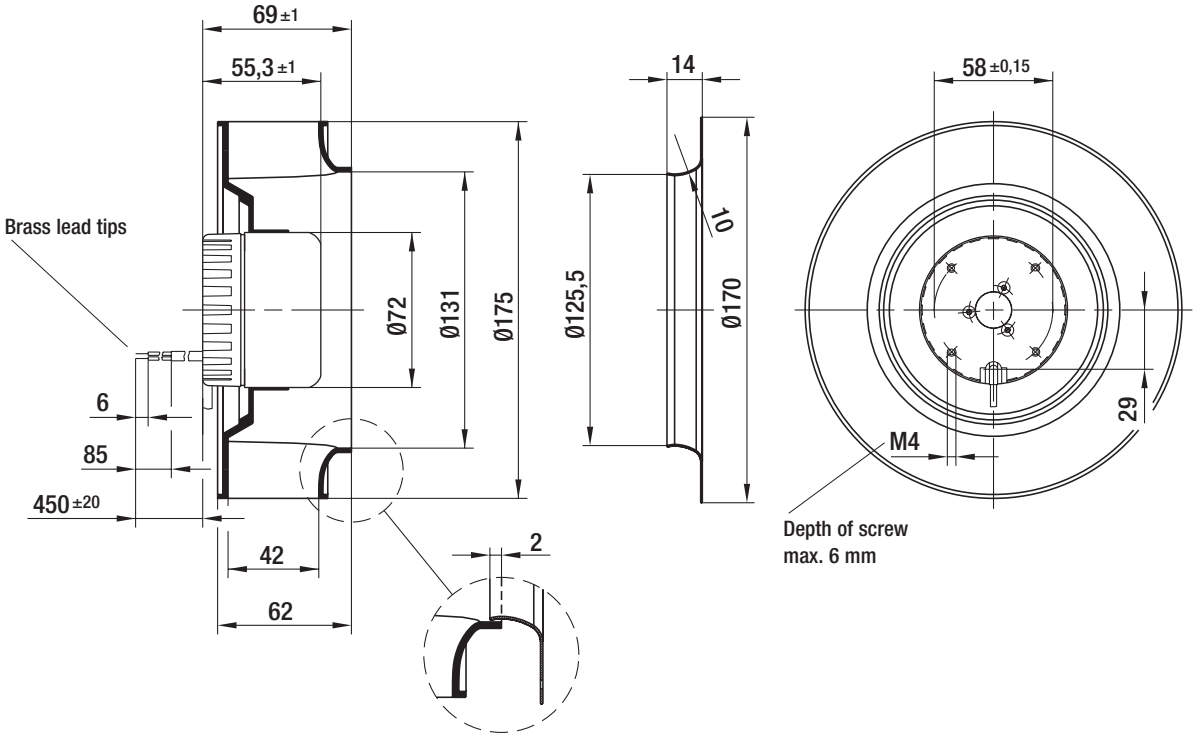
- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
  - Reverse polarity and locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA, Ⓐ (48 VDC) with VDE, CCC



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| **R1G 175-AB63 -02** | 0.7 | 09576-2-4013 |
| **R1G 175-AB41 -02** | 0.7 | 09576-2-4013 |



# EC centrifugal fan

backward curved, Ø 175

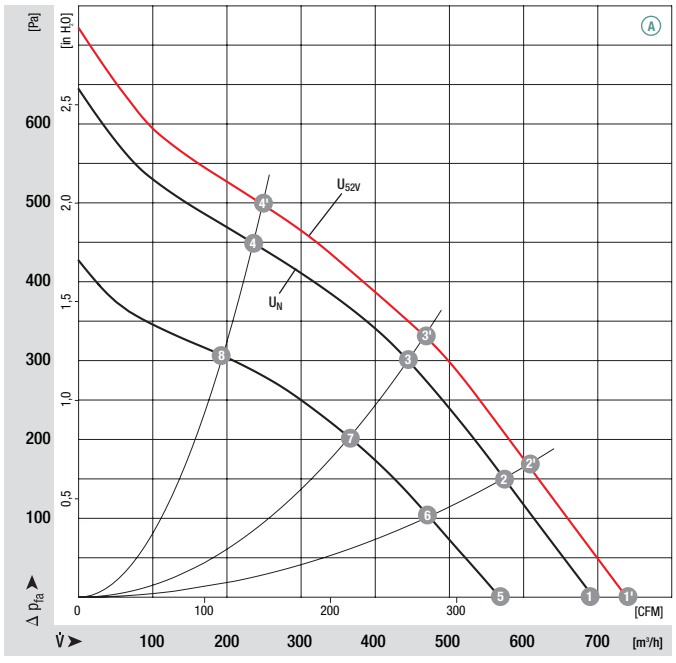
- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Coated in black, with cooling holes
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

## Nominal data

| Type | Motor | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | VDC | VDC | m³/h | rpm | W | A | dB(A) | °C | p. 600 |
| **R1G 175** | M1G 055-CF | Ⓐ | 48 | 36-52 | 695 | 4000 | 75 | 1.75 | 72 | -25 to +40 | G) |

subject to alterations

## Curves




| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 4250 | 88 | 73 | — |
| Ⓐ 2' | 4130 | 93 | 71 | 39 |
| Ⓐ 3' | 4050 | 96 | 67 | 55 |
| Ⓐ 4' | 4130 | 93 | 72 | 43 |
| Ⓐ 1 | 4000 | 75 | 72 | — |
| Ⓐ 2 | 3920 | 80 | 69 | 39 |
| Ⓐ 3 | 3880 | 83 | 66 | 55 |
| Ⓐ 4 | 3920 | 80 | 71 | 43 |
| Ⓐ 5 | 3290 | 42 | 67 | — |
| Ⓐ 6 | 3250 | 45 | 64 | 39 |
| Ⓐ 7 | 3160 | 47 | 62 | 55 |
| Ⓐ 8 | 3250 | 46 | 66 | 43 |



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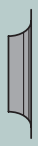
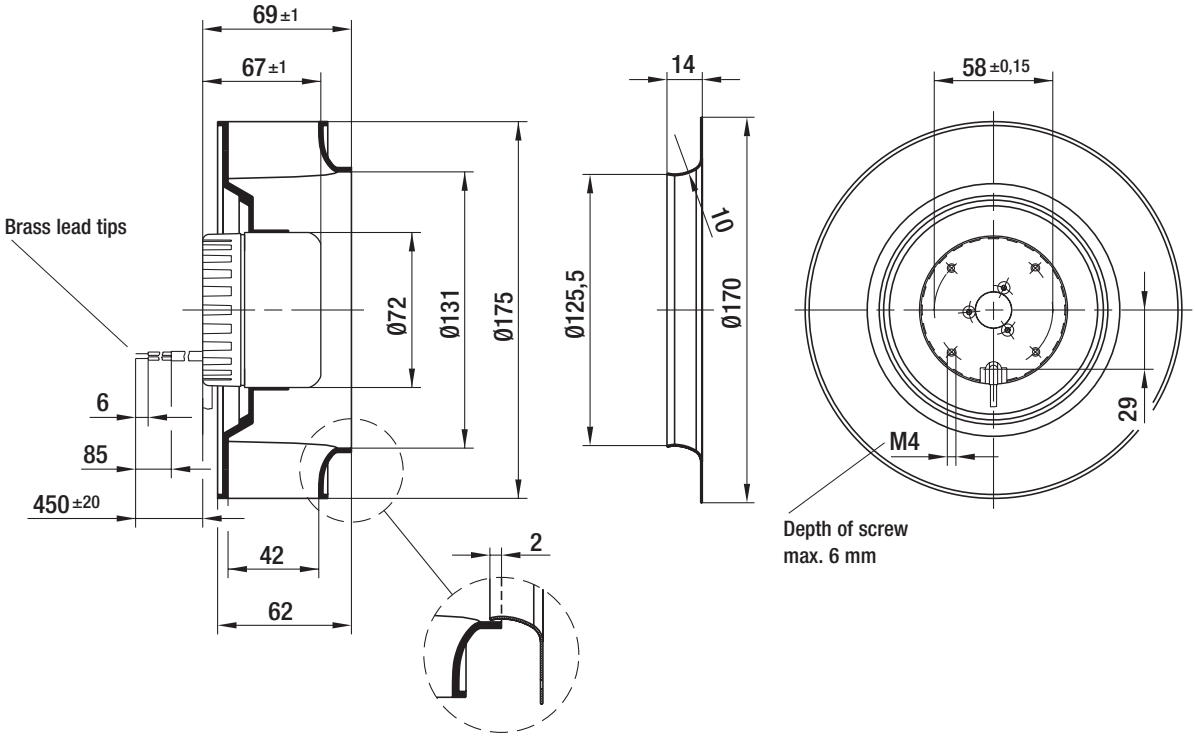
- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
  - Reverse polarity and locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** CCC



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| **R1G 175-AF29 -04** | 1.0 | 09576-2-4013 |



# EC centrifugal fans

## backward curved, Ø 190

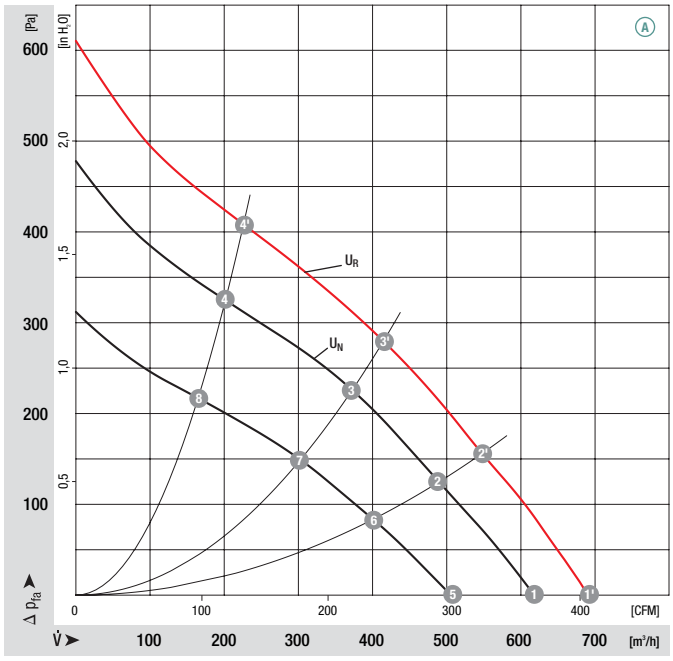
- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Coated in black
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** Ⓐ (24 VDC) IP 20, Ⓐ (48 VDC) IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

**Nominal data**

| Type | Motor | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | VDC | VDC | m³/h | rpm | W | A | dB(A) | °C | p. 600 |
| **R1G 190** | M1G 055-CF | Ⓐ | 24 | 16-28 | 620 | 2950 | 51 | 2.30 | 68 | -25 to +40 | G) |
| **R1G 190** | M1G 055-CF | Ⓐ | 48 | 36-57 | 620 | 2950 | 51 | 1.20 | 68 | -25 to +40 | G) |

subject to alterations

**Curves**




| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 3300 | 71 | 70 | — |
| Ⓐ 2' | 3200 | 75 | 66 | 45 |
| Ⓐ 3' | 3160 | 77 | 63 | 53 |
| Ⓐ 4' | 3290 | 72 | 67 | 42 |
| Ⓐ 1 | 2950 | 51 | 68 | — |
| Ⓐ 2 | 2870 | 54 | 63 | 45 |
| Ⓐ 3 | 2830 | 56 | 60 | 53 |
| Ⓐ 4 | 2940 | 51 | 63 | 42 |
| Ⓐ 5 | 2390 | 28 | 62 | — |
| Ⓐ 6 | 2340 | 30 | 58 | 45 |
| Ⓐ 7 | 2320 | 31 | 54 | 53 |
| Ⓐ 8 | 2390 | 28 | 58 | 42 |



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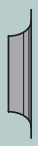
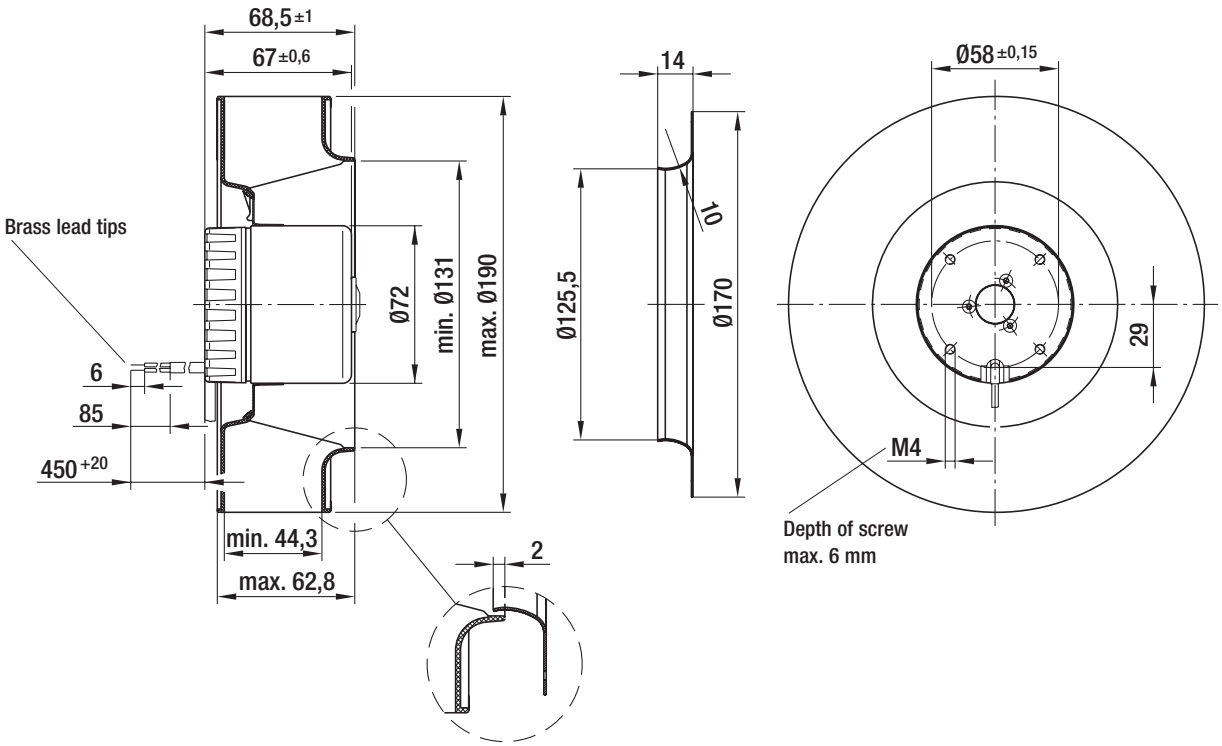
- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
  - Reverse polarity and locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA, Ⓐ (48 VDC) with CCC



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| **R1G 190-AB27 -02** | 1.0 | 09576-2-4013 |
| **R1G 190-AB25 -02** | 1.0 | 09576-2-4013 |



# EC centrifugal fans

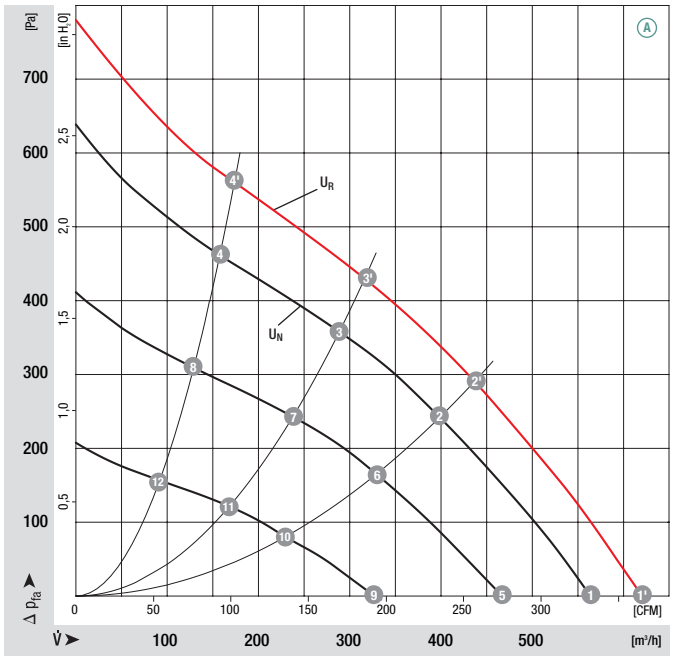
## backward curved, Ø 190

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Coated in black
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

| Nominal data | | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VDC** | **VDC** | **m³/h** | **rpm** | **W** | **A** | **dB(A)** | **°C** | p. 600 |
| **R1G 190** | M1G 074-BF | Ⓐ | 24 | 16-28 | 560 | 3250 | 80 | 3.70 | 68 | -25 to +60 | G) |
| **R1G 190** | M1G 074-BF | Ⓐ | 48 | 36-57 | 545 | 3200 | 71 | 1.65 | 68 | -25 to +60 | G) |

subject to alterations

**Curves** (established at 24 VDC)

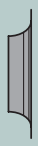



| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 3580 | 106 | 71 | — |
| Ⓐ 2' | 3590 | 105 | 66 | 41 |
| Ⓐ 3' | 3630 | 103 | 65 | 45 |
| Ⓐ 4' | 3770 | 97 | 69 | 33 |
| Ⓐ 1 | 3250 | 80 | 68 | — |
| Ⓐ 2 | 3275 | 80 | 64 | 42 |
| Ⓐ 3 | 3300 | 79 | 63 | 45 |
| Ⓐ 4 | 3400 | 74 | 66 | 34 |
| Ⓐ 5 | 2700 | 47 | 65 | — |
| Ⓐ 6 | 2710 | 47 | 59 | 41 |
| Ⓐ 7 | 2740 | 45 | 58 | 44 |
| Ⓐ 8 | 2795 | 42 | 61 | 33 |
| Ⓐ 9 | 1910 | 19 | 60 | — |
| Ⓐ 10 | 1910 | 20 | 51 | 39 |
| Ⓐ 11 | 1940 | 19 | 49 | 43 |
| Ⓐ 12 | 1985 | 18 | 52 | 33 |

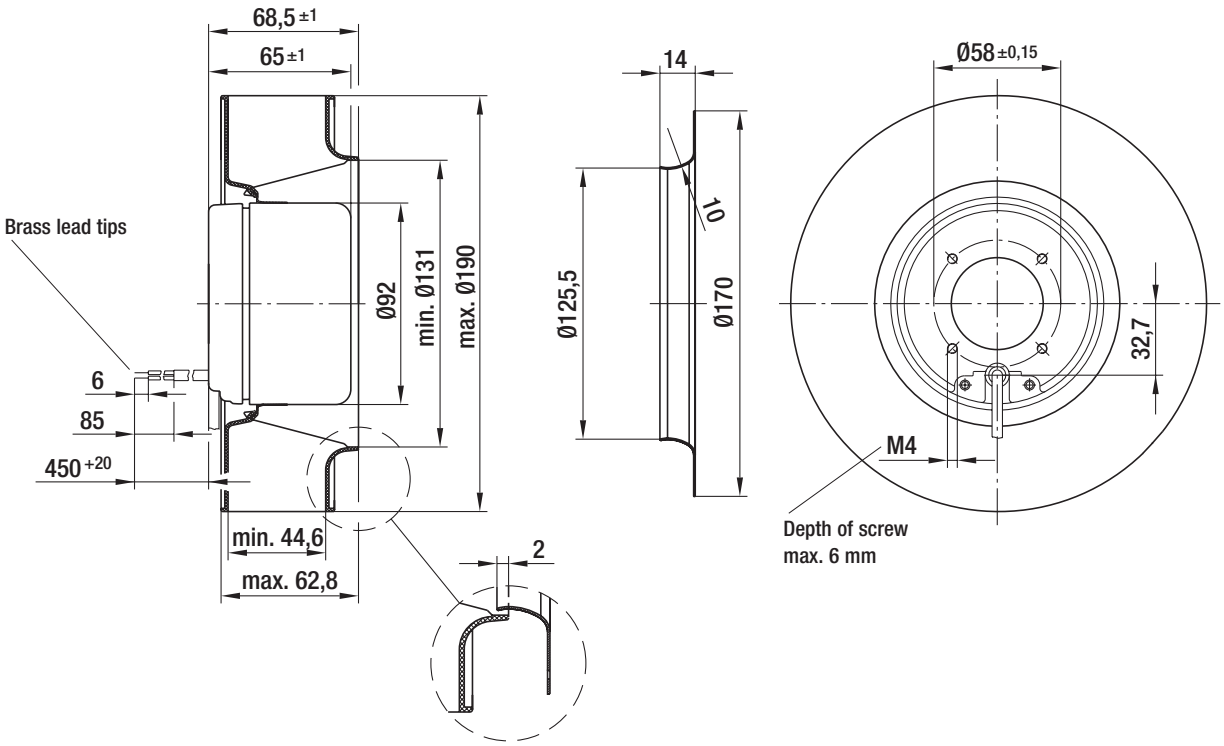


ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
  - Reverse polarity and locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA, Ⓐ (48 VDC) with CCC



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| **R1G 190-AC37 -52** | 1.3 | 09576-2-4013 |
| **R1G 190-AC11 -52** | 1.3 | 09576-2-4013 |



# EC centrifugal fans

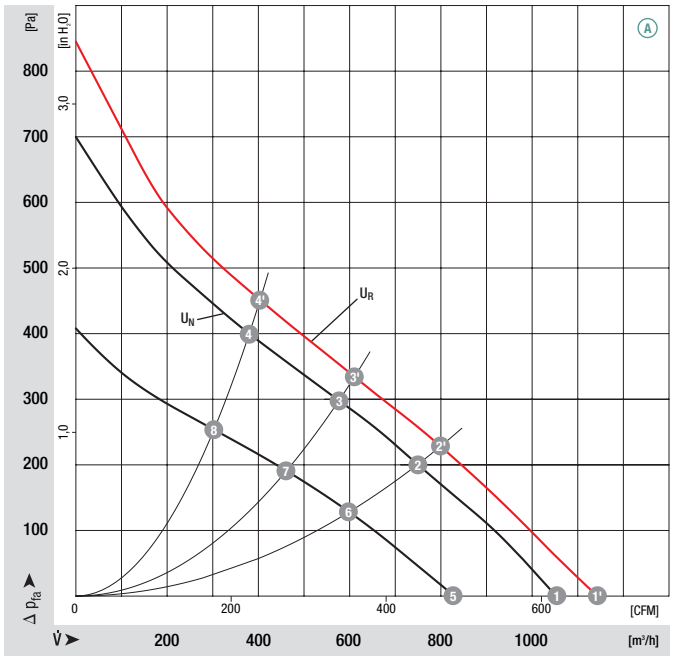
## backward curved, Ø 220

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Coated in black
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

| Nominal data | | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VDC** | **VDC** | **m³/h** | **rpm** | **W** | **A** | **dB(A)** | **°C** | p. 600 |
| **R1G 220** | M1G 074-BF | Ⓐ | 24 | 16-28 | 1055 | 3150 | 106 | 5.00 | 76 | -25 to +60 | G) |
| **R1G 220** | M1G 074-BF | Ⓐ | 48 | 36-57 | 1015 | 3100 | 100 | 2.40 | 73 | -25 to +60 | G) |

subject to alterations

**Curves** (established at 24 VDC)

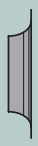



| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 3400 | 128 | 78 | — |
| Ⓐ 2' | 3200 | 132 | 69 | 53 |
| Ⓐ 3' | 3050 | 135 | 67 | 55 |
| Ⓐ 4' | 3000 | 137 | 71 | 46 |
| Ⓐ 1 | 3150 | 106 | 76 | — |
| Ⓐ 2 | 3010 | 110 | 68 | 53 |
| Ⓐ 3 | 2870 | 112 | 65 | 55 |
| Ⓐ 4 | 2800 | 113 | 69 | 46 |
| Ⓐ 5 | 2470 | 50 | 70 | — |
| Ⓐ 6 | 2360 | 54 | 63 | 53 |
| Ⓐ 7 | 2300 | 57 | 59 | 55 |
| Ⓐ 8 | 2250 | 59 | 63 | 46 |

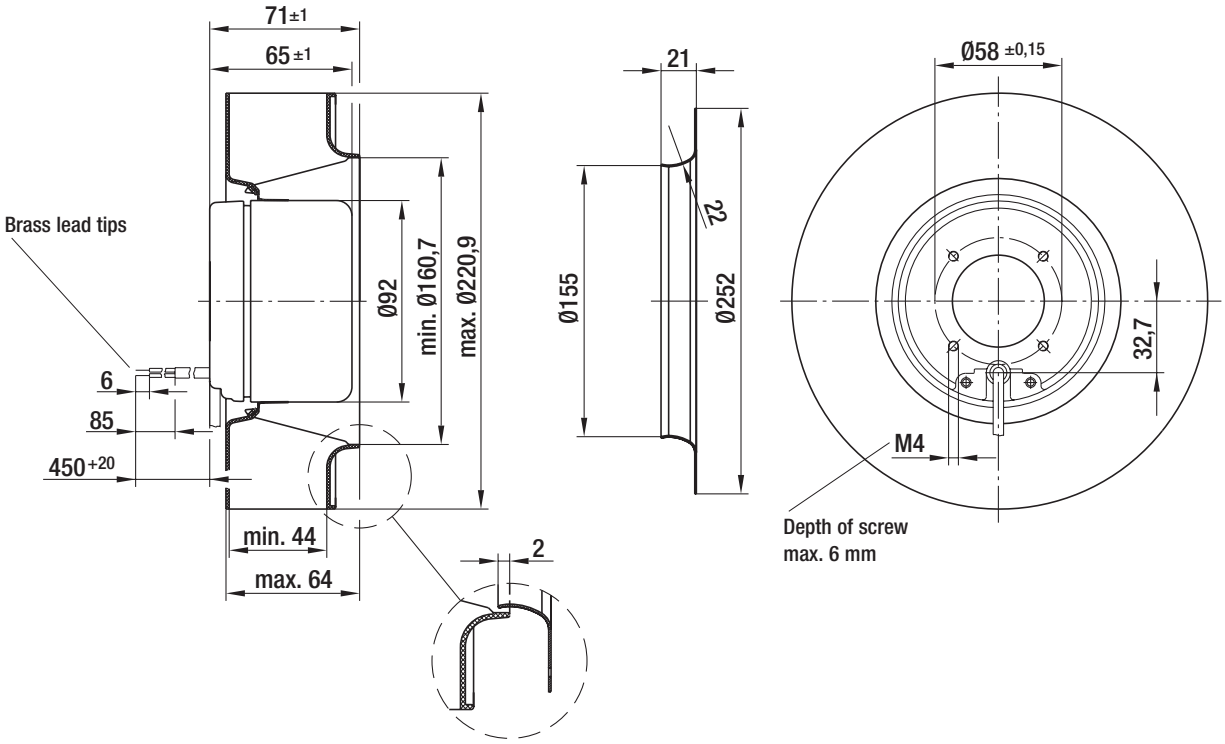


ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
  - Reverse polarity and locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA, Ⓐ (48 VDC) with CCC



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| **R1G 220-AB35 -52** | 1.4 | 09609-2-4013 |
| **R1G 220-AB73 -52** | 1.4 | 09609-2-4013 |



# EC centrifugal fans

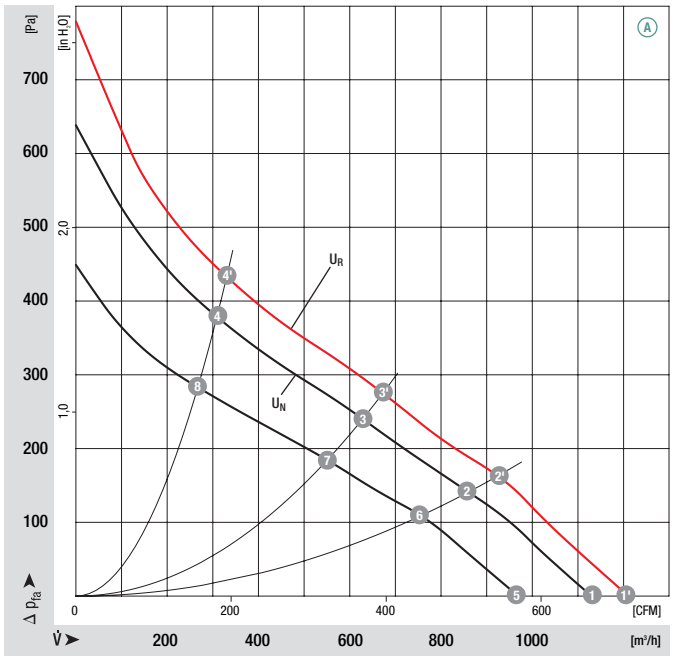
## backward curved, Ø 225

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Coated in black
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

| Nominal data | | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VDC** | **VDC** | **m³/h** | **rpm** | **W** | **A** | **dB(A)** | **°C** | p. 600 |
| **R1G 225** | M1G 074-BF | Ⓐ | 24 | 16-28 | 1125 | 2600 | 100 | 4.60 | 67 | -25 to +60 | G) |
| **R1G 225** | M1G 074-BF | Ⓐ | 48 | 36-57 | 1130 | 2700 | 95 | 2.20 | 67 | -25 to +60 | G) |

subject to alterations

**Curves** (established at 48 VDC)

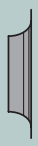



| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 2780 | 112 | 69 | — |
| Ⓐ 2' | 2610 | 116 | 64 | 48 |
| Ⓐ 3' | 2570 | 117 | 62 | 57 |
| Ⓐ 4' | 2780 | 112 | 66 | 42 |
| Ⓐ 1 | 2700 | 95 | 67 | — |
| Ⓐ 2 | 2450 | 93 | 63 | 48 |
| Ⓐ 3 | 2400 | 94 | 60 | 57 |
| Ⓐ 4 | 2610 | 91 | 64 | 42 |
| Ⓐ 5 | 2230 | 59 | 63 | — |
| Ⓐ 6 | 2150 | 63 | 58 | 48 |
| Ⓐ 7 | 2100 | 64 | 56 | 57 |
| Ⓐ 8 | 2230 | 58 | 58 | 42 |

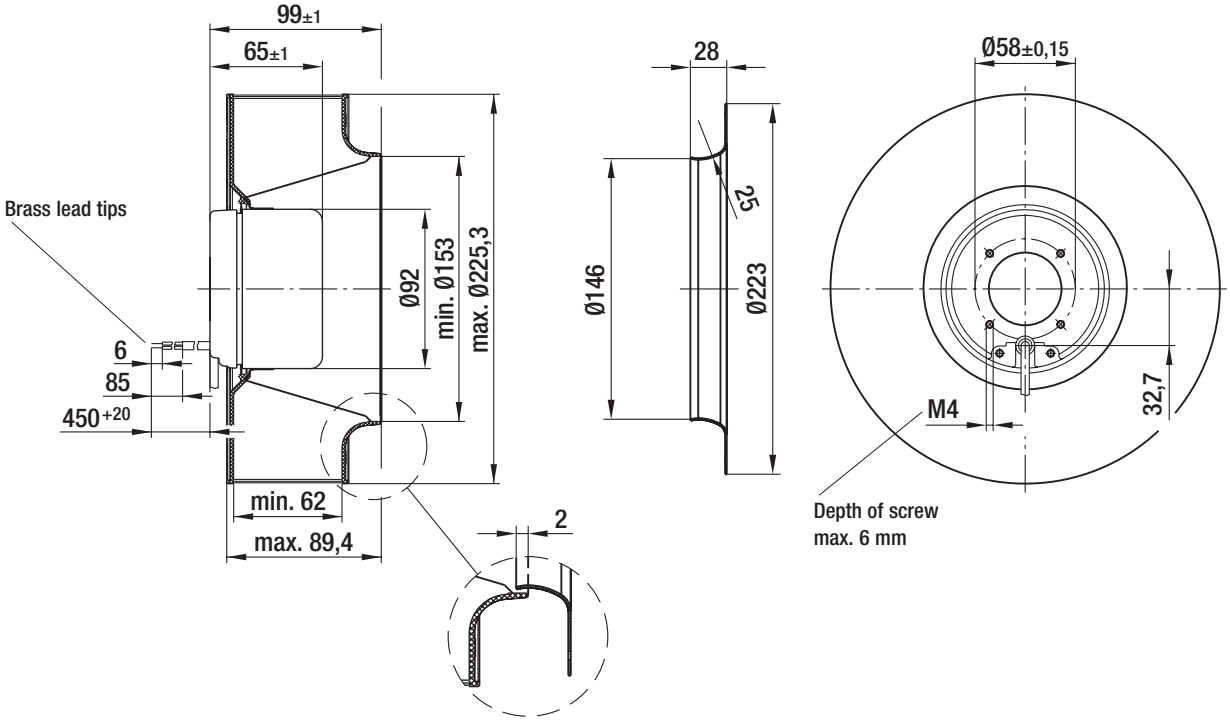


ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
  - Reverse polarity and locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA, Ⓐ (48 VDC) with CCC



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| **R1G 225-AF07 -52** | 1.5 | 96358-2-4013 |
| **R1G 225-AF11 -52** | 1.5 | 96358-2-4013 |



# EC centrifugal fans

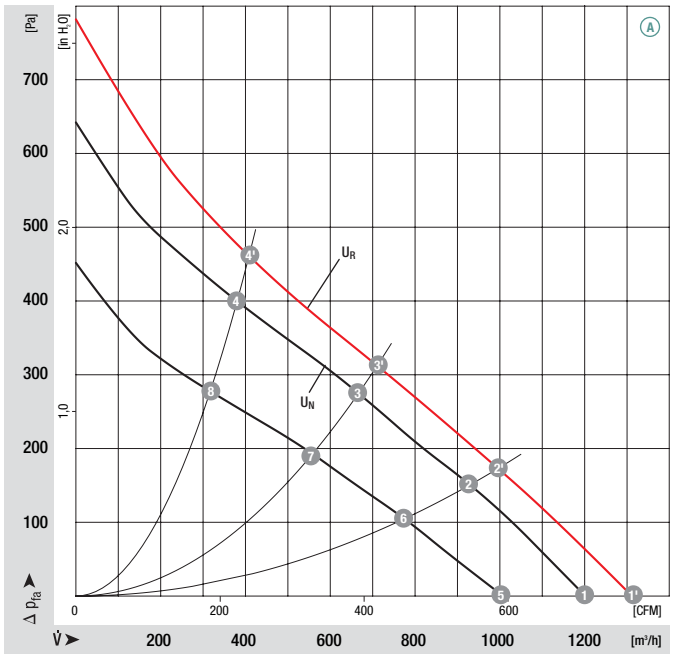
## backward curved, Ø 250

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Coated in black
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

| Nominal data | | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VDC** | **VDC** | **m³/h** | **rpm** | **W** | **A** | **dB(A)** | **°C** | p. 600 |
| **R1G 250** | M1G 074-CF | Ⓐ | 24 | 16-28 | 1140 | 2540 | 93 | 4.30 | 73 | -25 to +60 | G) |
| **R1G 250** | M1G 074-CF | Ⓐ | 48 | 36-57 | 1200 | 2600 | 105 | 2.55 | 72 | -25 to +60 | G) |

subject to alterations

**Curves** (established at 48 VDC)

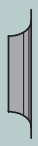



| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 2870 | 134 | 75 | — |
| Ⓐ 2' | 2610 | 139 | 68 | 55 |
| Ⓐ 3' | 2530 | 140 | 63 | 58 |
| Ⓐ 4' | 2650 | 138 | 66 | 48 |
| Ⓐ 1 | 2600 | 105 | 72 | — |
| Ⓐ 2 | 2440 | 114 | 66 | 55 |
| Ⓐ 3 | 2360 | 116 | 62 | 58 |
| Ⓐ 4 | 2490 | 112 | 64 | 48 |
| Ⓐ 5 | 2190 | 59 | 68 | — |
| Ⓐ 6 | 2020 | 67 | 62 | 55 |
| Ⓐ 7 | 2020 | 70 | 57 | 58 |
| Ⓐ 8 | 2070 | 66 | 59 | 48 |

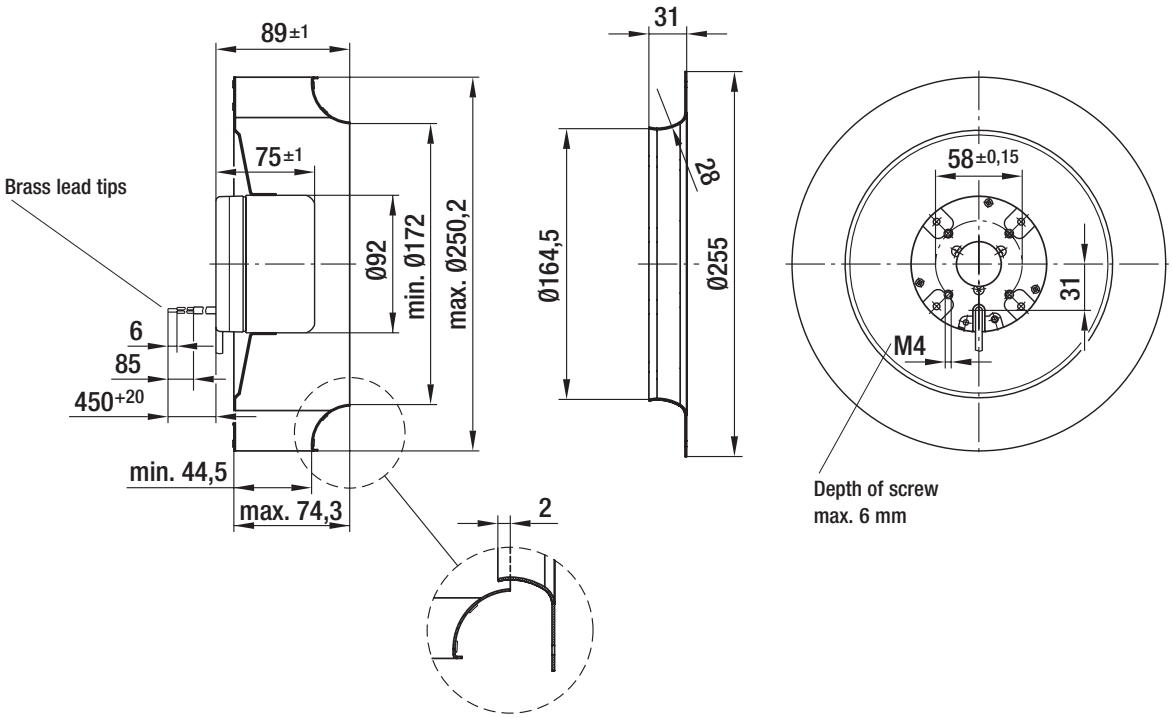


ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
  - Reverse polarity and locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA, Ⓐ (48 VDC) with CCC



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| **R1G 250-AQ21 -52** | 2.0 | 96359-2-4013 |
| **R1G 250-AQ37 -52** | 2.0 | 96359-2-4013 |



# EC centrifugal fan

backward curved, Ø 250

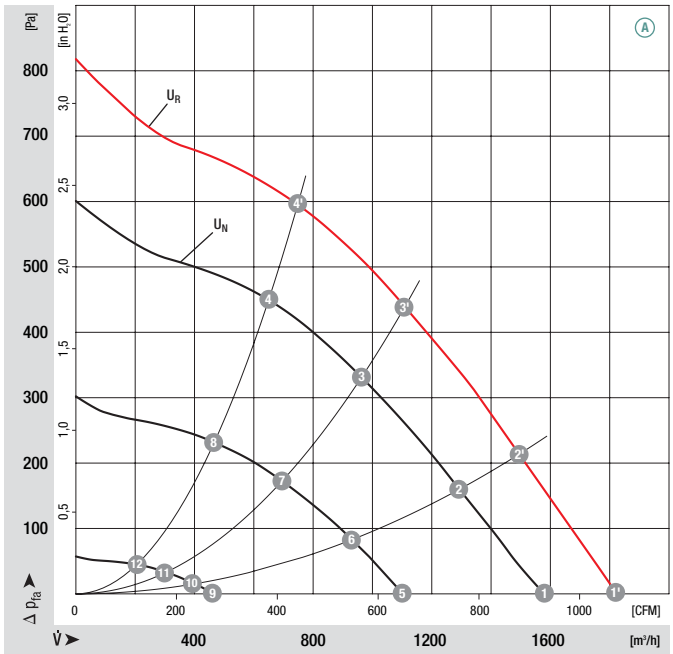
- **Material:** Impeller: Sheet steel
  Rotor: Coated in black
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

## Nominal data

| Type | Motor | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | VDC | VDC | m³/h | rpm | W | A | dB(A) | °C | p. 600 |
| **R3G 250** | M3G 084-CA | Ⓐ | 48 | 36-57 | 1580 | 2645 | 135 | 2.80 | 72 | -25 to +60 | G) |

subject to alterations

## Curves



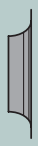

| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 3055 | 207 | 75 | — |
| Ⓐ 2' | 2990 | 256 | 70 | 45 |
| Ⓐ 3' | 2970 | 274 | 68 | 60 |
| Ⓐ 4' | 2980 | 270 | 71 | 55 |
| Ⓐ 1 | 2645 | 135 | 72 | — |
| Ⓐ 2 | 2600 | 166 | 67 | 45 |
| Ⓐ 3 | 2580 | 182 | 64 | 60 |
| Ⓐ 4 | 2590 | 177 | 66 | 55 |
| Ⓐ 5 | 1900 | 56 | 66 | — |
| Ⓐ 6 | 1875 | 69 | 59 | 45 |
| Ⓐ 7 | 1870 | 73 | 56 | 60 |
| Ⓐ 8 | 1870 | 72 | 58 | 55 |
| Ⓐ 9 | 835 | 9 | 48 | — |
| Ⓐ 10 | 830 | 10 | 44 | 45 |
| Ⓐ 11 | 830 | 11 | 43 | 60 |
| Ⓐ 12 | 830 | 10 | 35 | 55 |



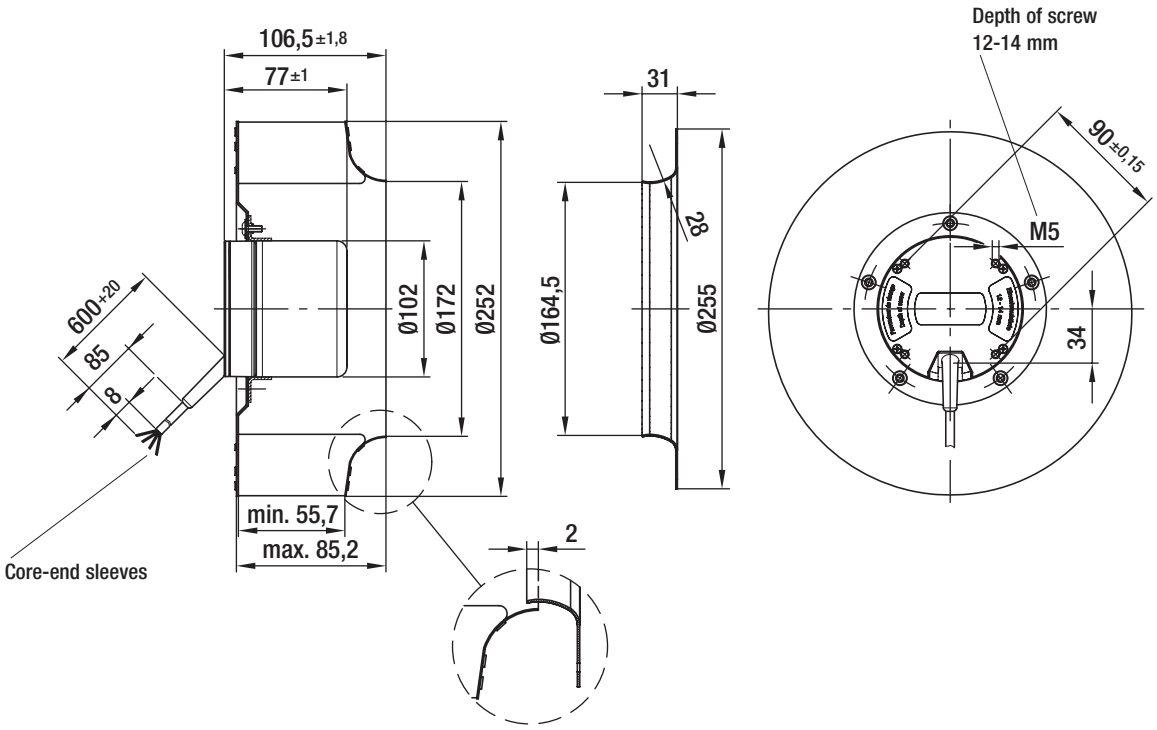
ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA, CCC
  - Over-temperature protected motor
  - Reverse polarity and locked-rotor protection

Mass of centrifugal fan

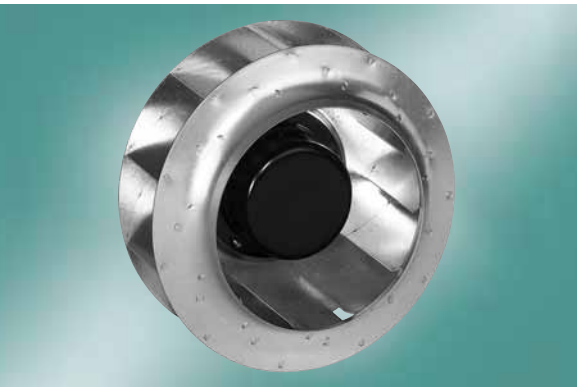


| Centrifugal fan | kg | Inlet nozzle (long) |
|---|---|---|
| **R3G 250-AD62 -30** | 3.0 | 96359-2-4013 |



# EC centrifugal fans

## backward curved, Ø 280

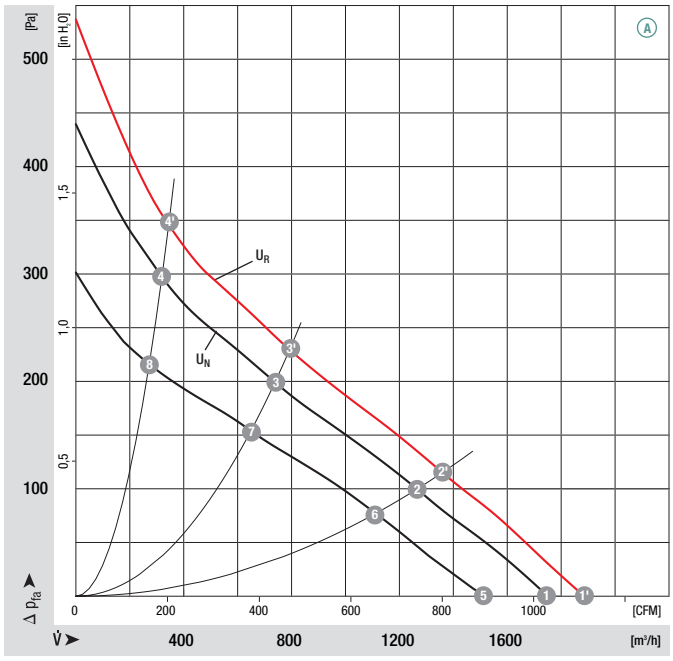


- **Material:** Impeller: Sheet steel
  Rotor: Coated in black
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

| Nominal data | | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VDC** | **VDC** | **m³/h** | **rpm** | **W** | **A** | **dB(A)** | **°C** | p. 600 |
| **R1G 280** | M1G 074-CF | Ⓐ | 24 | 16-28 | 1750 | 1710 | 95 | 4.60 | 71 | -25 to +60 | G) |
| **R1G 280** | M1G 074-CF | Ⓐ | 48 | 36-57 | 1750 | 1710 | 95 | 2.30 | 71 | -25 to +60 | G) |

subject to alterations

## Curves

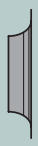



| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 1840 | 118 | 72 | — |
| Ⓐ 2' | 1650 | 127 | 64 | 55 |
| Ⓐ 3' | 1670 | 126 | 62 | 55 |
| Ⓐ 4' | 1950 | 114 | 67 | 31 |
| Ⓐ 1 | 1710 | 95 | 71 | — |
| Ⓐ 2 | 1550 | 100 | 63 | 55 |
| Ⓐ 3 | 1560 | 100 | 59 | 55 |
| Ⓐ 4 | 1810 | 91 | 64 | 31 |
| Ⓐ 5 | 1470 | 60 | 67 | — |
| Ⓐ 6 | 1360 | 68 | 60 | 55 |
| Ⓐ 7 | 1370 | 67 | 55 | 55 |
| Ⓐ 8 | 1530 | 56 | 59 | 31 |

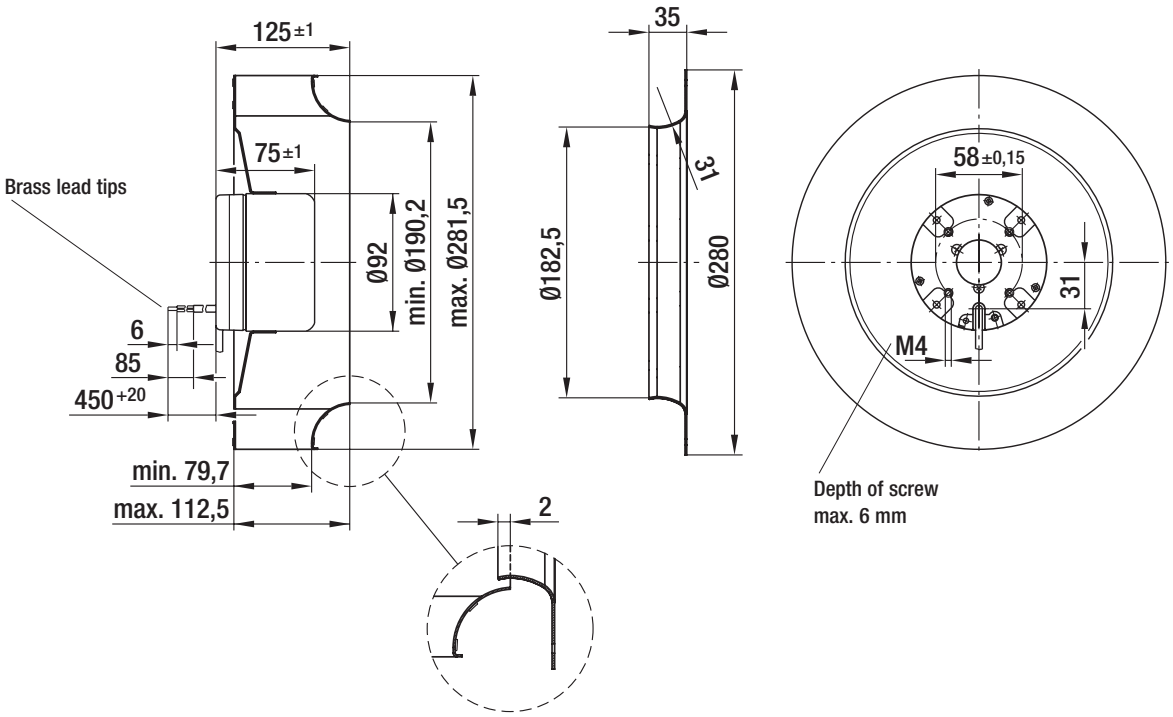


ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
  - Reverse polarity and locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA, Ⓐ (48 VDC) with CCC

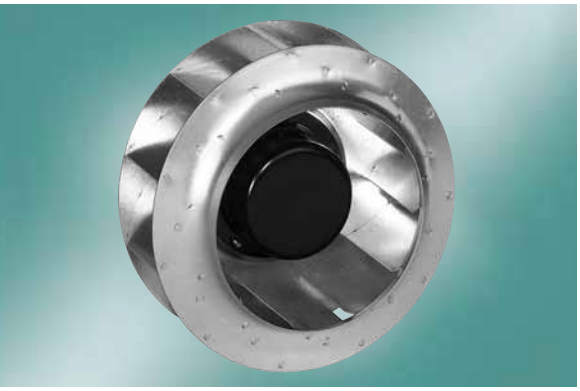


| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| **R1G 280-AE45 -52** | 2.8 | 96360-2-4013 |
| **R1G 280-AE47 -52** | 2.8 | 96360-2-4013 |



# EC centrifugal fan

backward curved, Ø 280



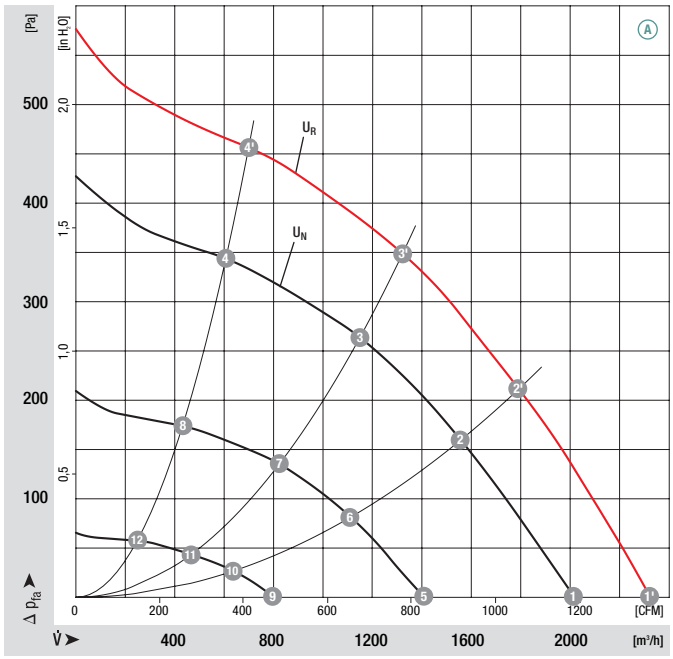
- **Material:** Impeller: Sheet steel
  Rotor: Coated in black
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

## Nominal data

| Type | Motor | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | VDC | VDC | m³/h | rpm | W | A | dB(A) | °C | p. 600 |
| **R3G 280** | M3G 084-CA | Ⓐ | 48 | 36-57 | 2020 | 1965 | 123 | 2.60 | 70 | -25 to +60 | G) |

subject to alterations

## Curves

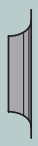



| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 2265 | 187 | 72 | — |
| Ⓐ 2' | 2185 | 243 | 68 | 53 |
| Ⓐ 3' | 2165 | 258 | 65 | 60 |
| Ⓐ 4' | 2230 | 213 | 69 | 50 |
| Ⓐ 1 | 1965 | 123 | 70 | — |
| Ⓐ 2 | 1905 | 160 | 65 | 53 |
| Ⓐ 3 | 1885 | 171 | 61 | 60 |
| Ⓐ 4 | 1940 | 140 | 66 | 50 |
| Ⓐ 5 | 1390 | 46 | 63 | — |
| Ⓐ 6 | 1365 | 61 | 58 | 53 |
| Ⓐ 7 | 1360 | 65 | 53 | 60 |
| Ⓐ 8 | 1380 | 53 | 55 | 50 |
| Ⓐ 9 | 800 | 12 | 53 | — |
| Ⓐ 10 | 790 | 15 | 48 | 53 |
| Ⓐ 11 | 785 | 15 | 42 | 60 |
| Ⓐ 12 | 795 | 13 | 41 | 50 |

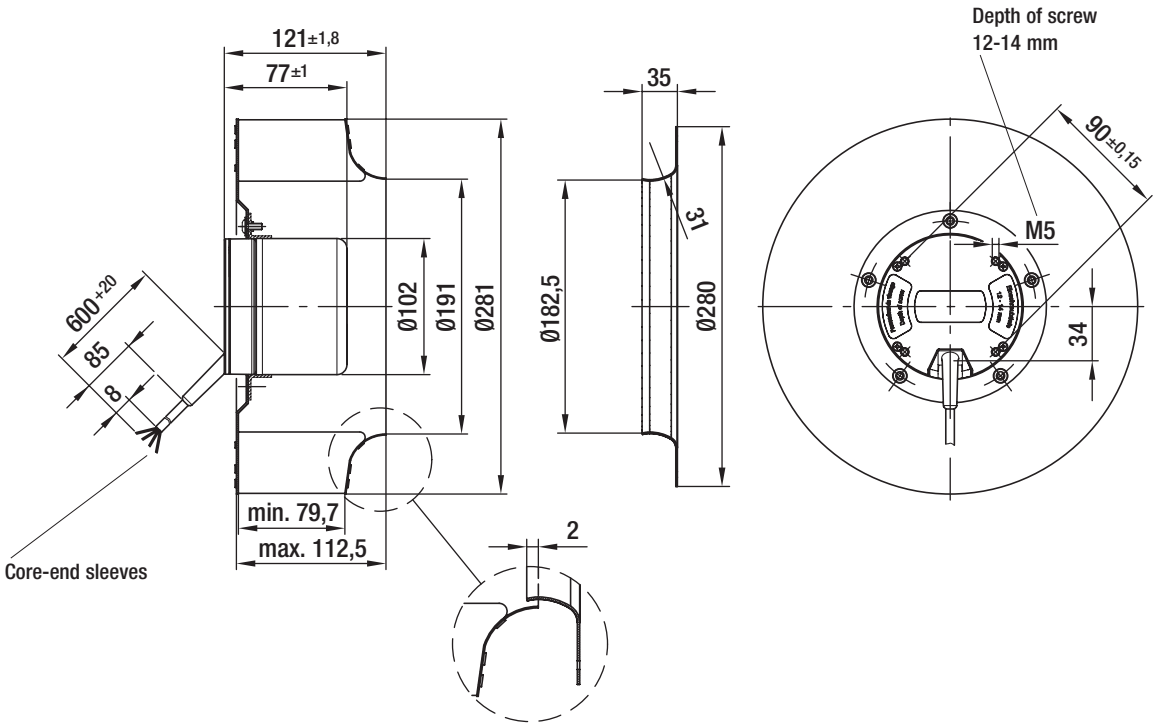


ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
  - Over-temperature protected motor
  - Reverse polarity and locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA

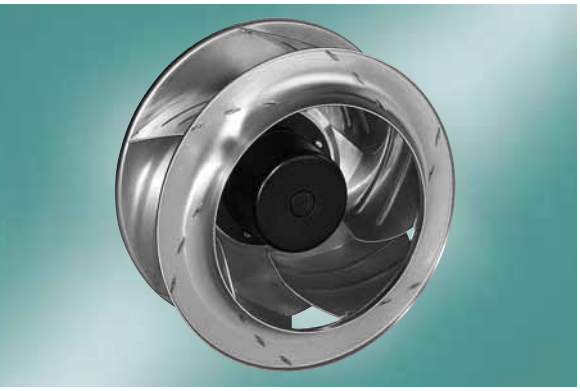


| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| **R3G 280-AC66 -30** | 3.3 | 96360-2-4013 |



# EC centrifugal fans

## backward curved, 3-D, Ø 310

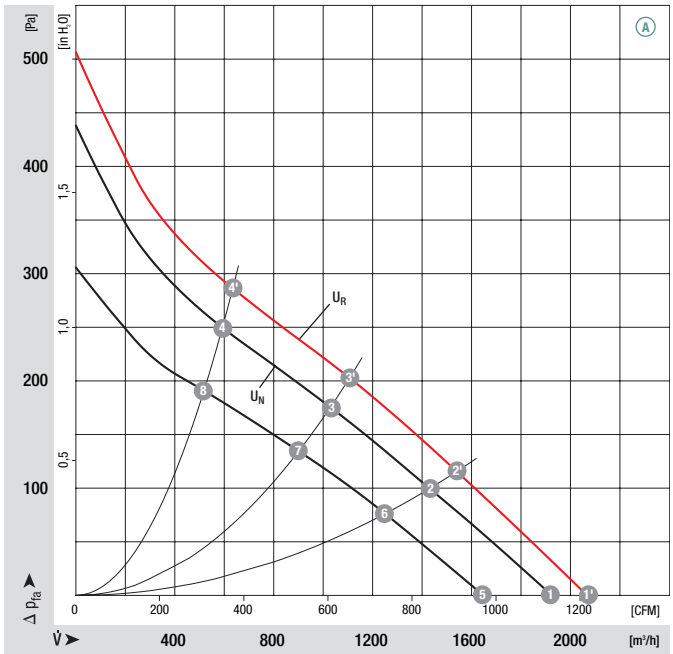


- **Material:** Impeller: Sheet aluminium, laser-welded
  Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

| Nominal data | | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VDC** | **VDC** | **m³/h** | **rpm** | **W** | **A** | **dB(A)** | **°C** | p. 600 |
| **R1G 310** | M1G 074-CF | Ⓐ | 24 | 16-28 | 1910 | 1600 | 90 | 4.20 | 64 | -25 to +45 | G) |
| **R1G 310** | M1G 074-CF | Ⓐ | 48 | 36-57 | 1910 | 1600 | 90 | 2.20 | 64 | -25 to +45 | G) |

subject to alterations

**Curves** (established with long inlet nozzle)

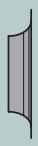



| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 1720 | 113 | 66 | — |
| Ⓐ 2' | 1540 | 122 | 60 | 62 |
| Ⓐ 3' | 1490 | 124 | 59 | 67 |
| Ⓐ 4' | 1560 | 121 | 63 | 50 |
| Ⓐ 1 | 1600 | 90 | 64 | — |
| Ⓐ 2 | 1430 | 96 | 58 | 62 |
| Ⓐ 3 | 1390 | 99 | 58 | 67 |
| Ⓐ 4 | 1450 | 96 | 61 | 50 |
| Ⓐ 5 | 1150 | 69 | 60 | — |
| Ⓐ 6 | 1260 | 65 | 55 | 62 |
| Ⓐ 7 | 1230 | 67 | 54 | 67 |
| Ⓐ 8 | 1270 | 65 | 58 | 50 |

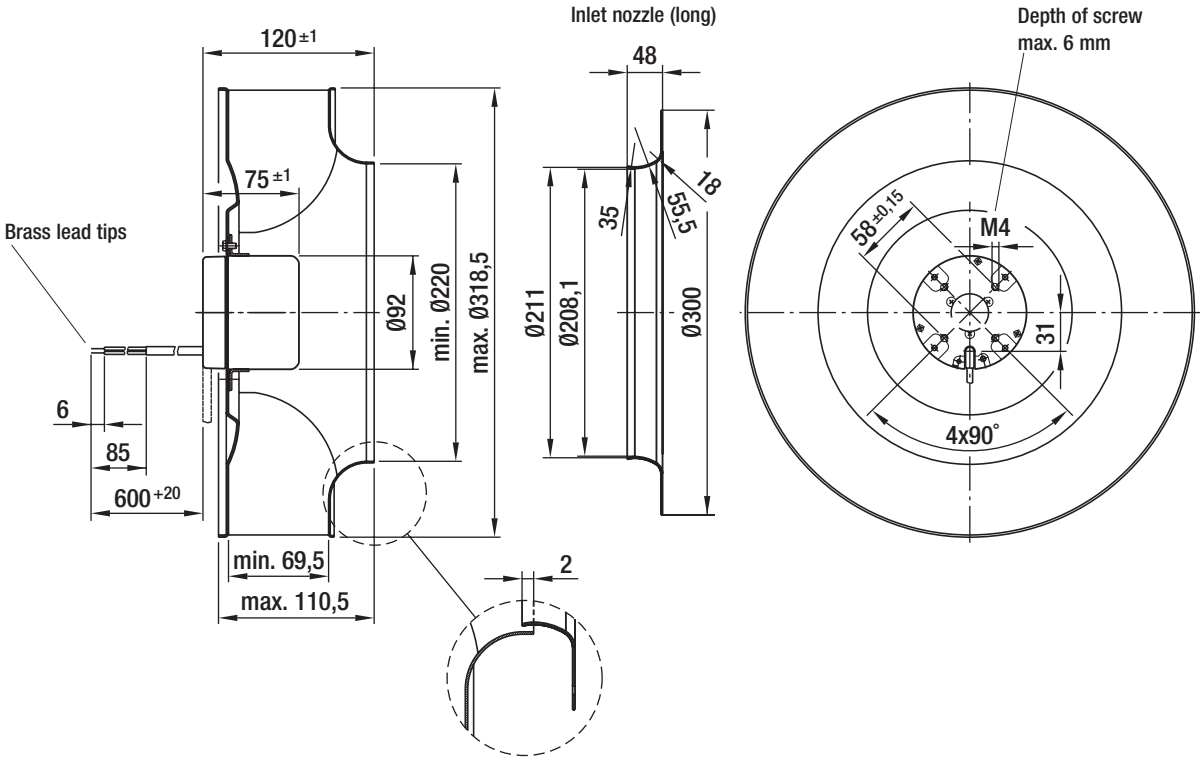


ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
  - Reverse polarity and locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA, Ⓐ (48 VDC) with CCC

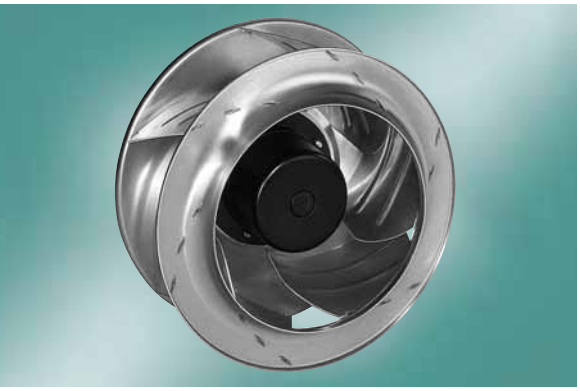




| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Inlet nozzle (short) |
|---|---|---|---|
| **R1G 310-AD19 -52** | 2.6 | 31050-2-4013 | 31051-2-4013 |
| **R1G 310-AD33 -52** | 2.6 | 31050-2-4013 | 31051-2-4013 |



# EC centrifugal fan

backward curved, 3-D, Ø 310

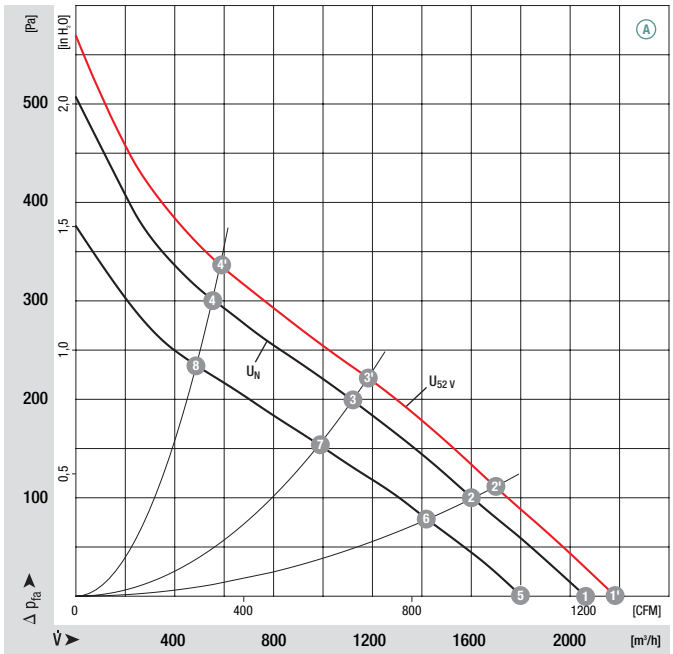


- **Material:** Impeller: Sheet aluminium, laser-welded
  Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

| Nominal data | | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VDC** | **VDC** | **m³/h** | **rpm** | **W** | **A** | **dB(A)** | **°C** | p. 600 |
| **R1G 310** | M1G 074-CF | Ⓐ | 48 | 36-52 | 2100 | 1800 | 120 | 3.00 | 67 | -25 to +40 | G) |

subject to alterations

**Curves** (established with long inlet nozzle)

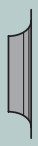



| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 1895 | 130 | 67 | — |
| Ⓐ 2' | 1720 | 140 | 64 | 59 |
| Ⓐ 3' | 1610 | 147 | 60 | 67 |
| Ⓐ 4' | 1635 | 146 | 65 | 48 |
| Ⓐ 1 | 1800 | 120 | 67 | — |
| Ⓐ 2 | 1610 | 118 | 62 | 59 |
| Ⓐ 3 | 1530 | 122 | 58 | 67 |
| Ⓐ 4 | 1570 | 120 | 63 | 48 |
| Ⓐ 5 | 1570 | 74 | 63 | — |
| Ⓐ 6 | 1430 | 80 | 58 | 59 |
| Ⓐ 7 | 1350 | 82 | 54 | 67 |
| Ⓐ 8 | 1400 | 80 | 60 | 48 |

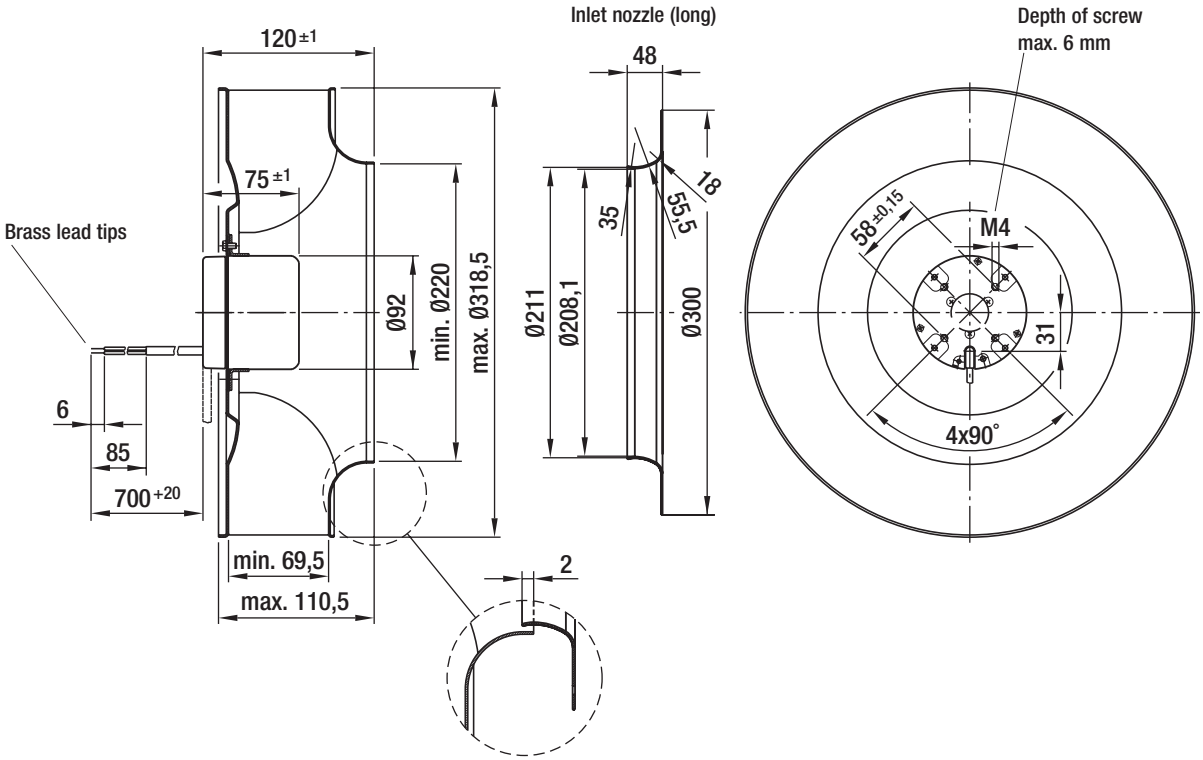


ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
  - Reverse polarity and locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA, CCC

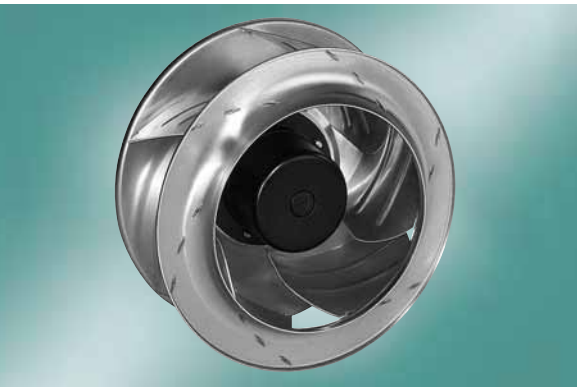


| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Inlet nozzle (short) |
|---|---|---|---|
| R1G 310-AD17 -11 | 2.6 | 31050-2-4013 | 31051-2-4013 |



# EC centrifugal fan

backward curved, 3-D, Ø 310

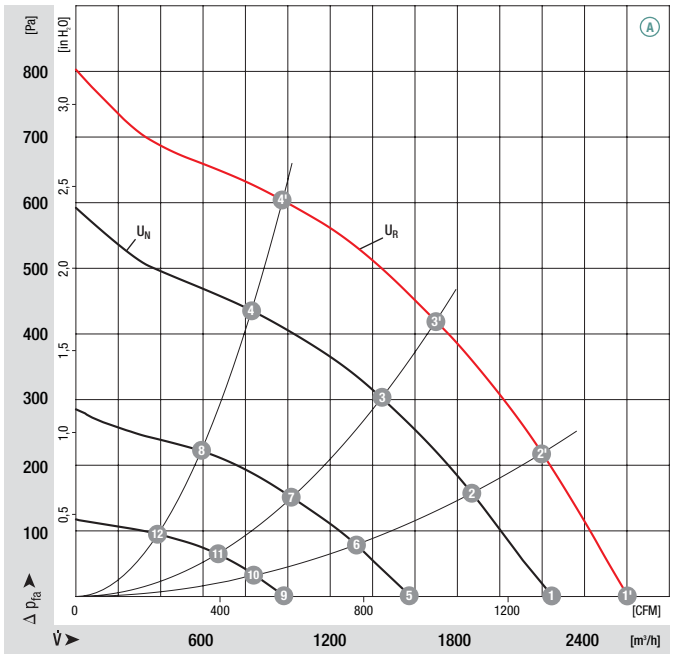


- **Material:** Impeller: Sheet aluminium, laser-welded
  Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

| Nominal data | | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VDC** | **VDC** | **m³/h** | **rpm** | **W** | **A** | **dB(A)** | **°C** | p. 600 |
| **R3G 310** | M3G 084-FA | Ⓐ | 48 | 36-57 | 2230 | 2000 | 190 | 4.00 | 71 | -25 to +60 | G) |

subject to alterations

**Curves** (established with long inlet nozzle)



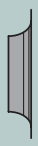

| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 2395 | 271 | 74 | — |
| Ⓐ 2' | 2345 | 325 | 71 | 47 |
| Ⓐ 3' | 2320 | 362 | 70 | 60 |
| Ⓐ 4' | 2330 | 350 | 74 | 54 |
| Ⓐ 1 | 2070 | 178 | 71 | — |
| Ⓐ 2 | 2035 | 211 | 67 | 47 |
| Ⓐ 3 | 2015 | 234 | 65 | 60 |
| Ⓐ 4 | 2025 | 227 | 70 | 54 |
| Ⓐ 5 | 1445 | 66 | 61 | — |
| Ⓐ 6 | 1430 | 79 | 59 | 47 |
| Ⓐ 7 | 1420 | 88 | 57 | 60 |
| Ⓐ 8 | 1420 | 85 | 62 | 54 |
| Ⓐ 9 | 930 | 23 | 50 | — |
| Ⓐ 10 | 925 | 26 | 48 | 47 |
| Ⓐ 11 | 920 | 29 | 47 | 60 |
| Ⓐ 12 | 920 | 28 | 51 | 54 |



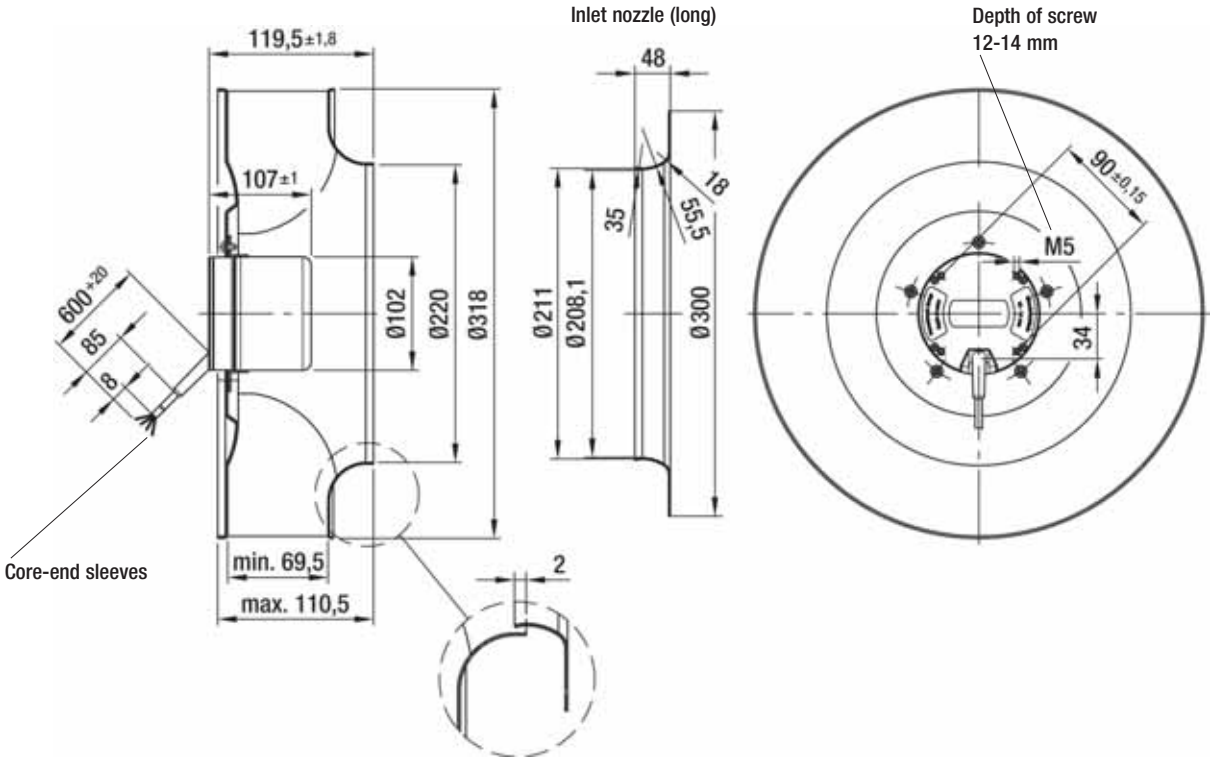
ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA, CCC

- Over-temperature protected motor
- Reverse polarity and locked-rotor protection

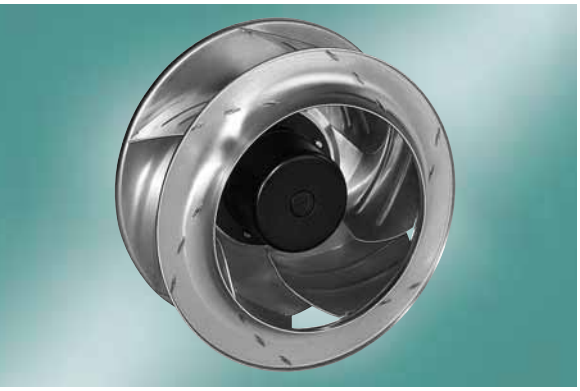




| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Inlet nozzle (short) |
|---|---|---|---|
| **R3G 310-AN12 -30** | 4.2 | 31050-2-4013 | 31051-2-4013 |



# EC centrifugal fan

## backward curved, 3-D, Ø 310



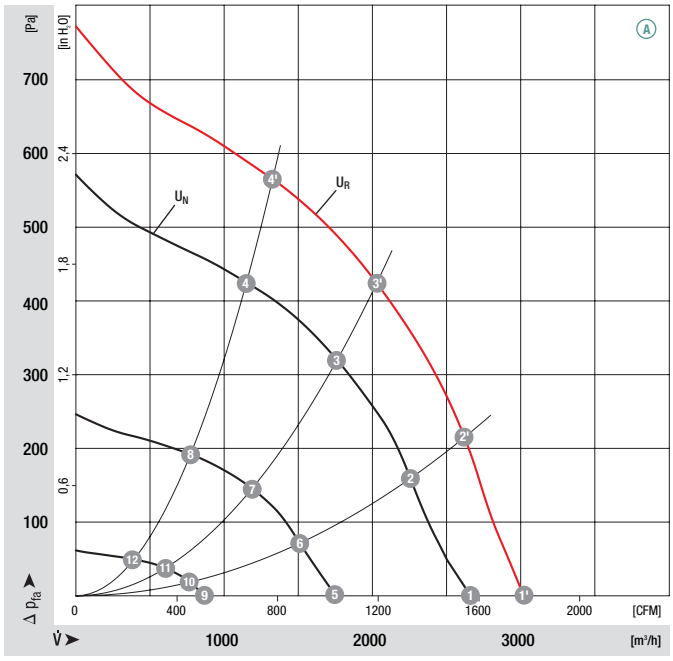
- **Material:** Impeller: Sheet aluminium, laser-welded
  Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

**Nominal data**

| Type | Motor | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | VDC | VDC | m³/h | rpm | W | A | dB(A) | °C | p. 600 |
| **R3G 310** | M3G 084-FA | Ⓐ | 48 | 36-57 | 2620 | 1930 | 208 | 4.35 | 69 | -25 to +60 | G) |

subject to alterations

**Curves** (established with long inlet nozzle)



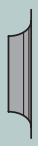

| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 2230 | 317 | 72 | — |
| Ⓐ 2' | 2190 | 373 | 69 | 50 |
| Ⓐ 3' | 2150 | 415 | 66 | 66 |
| Ⓐ 4' | 2175 | 390 | 67 | 63 |
| Ⓐ 1 | 1930 | 208 | 69 | — |
| Ⓐ 2 | 1900 | 248 | 65 | 50 |
| Ⓐ 3 | 1870 | 274 | 62 | 66 |
| Ⓐ 4 | 1890 | 257 | 61 | 63 |
| Ⓐ 5 | 1290 | 69 | 59 | — |
| Ⓐ 6 | 1280 | 80 | 57 | 50 |
| Ⓐ 7 | 1270 | 90 | 55 | 66 |
| Ⓐ 8 | 1280 | 85 | 54 | 63 |
| Ⓐ 9 | 660 | 14 | 47 | — |
| Ⓐ 10 | 660 | 15 | 46 | 50 |
| Ⓐ 11 | 655 | 17 | 44 | 66 |
| Ⓐ 12 | 655 | 16 | 44 | 63 |



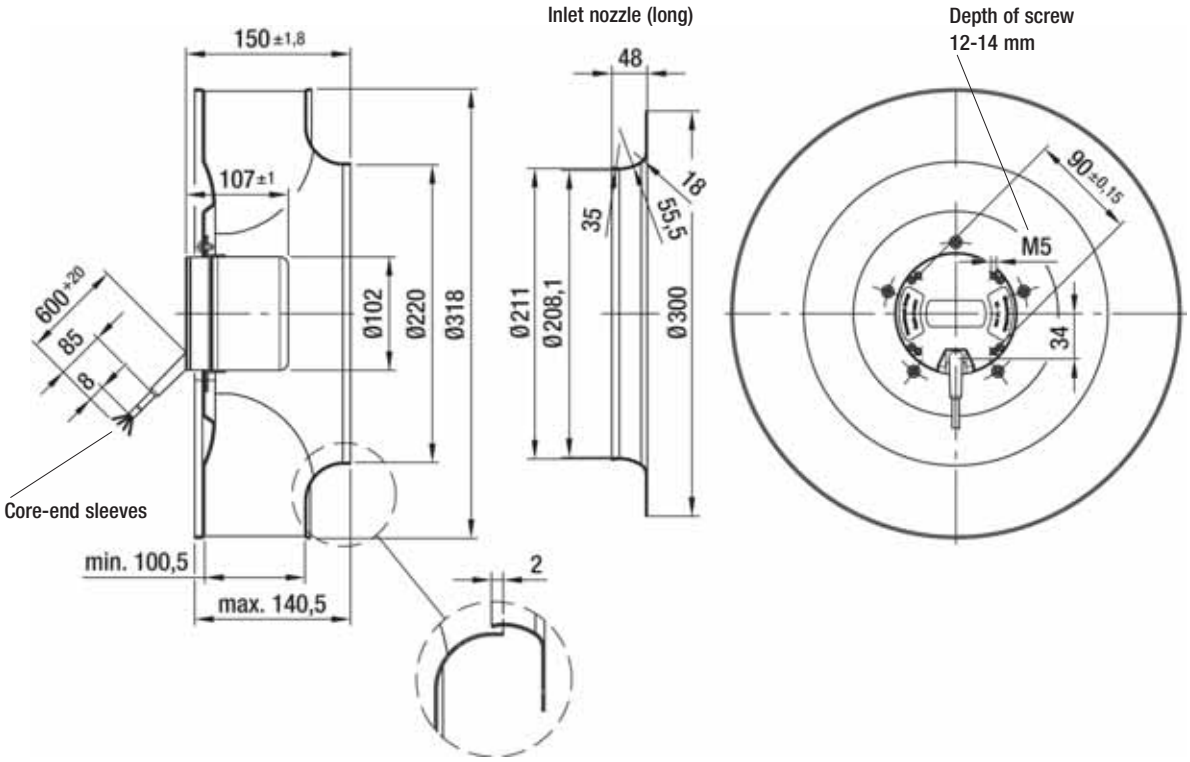
ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA, CCC

- Over-temperature protected motor
- Reverse polarity and locked-rotor protection


| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Inlet nozzle (short) |
|---|---|---|---|
| **R3G 310-AL09 -30** | 4.4 | 31050-2-4013 | 31051-2-4013 |



# EC centrifugal fan

backward curved, 3-D, Ø 355

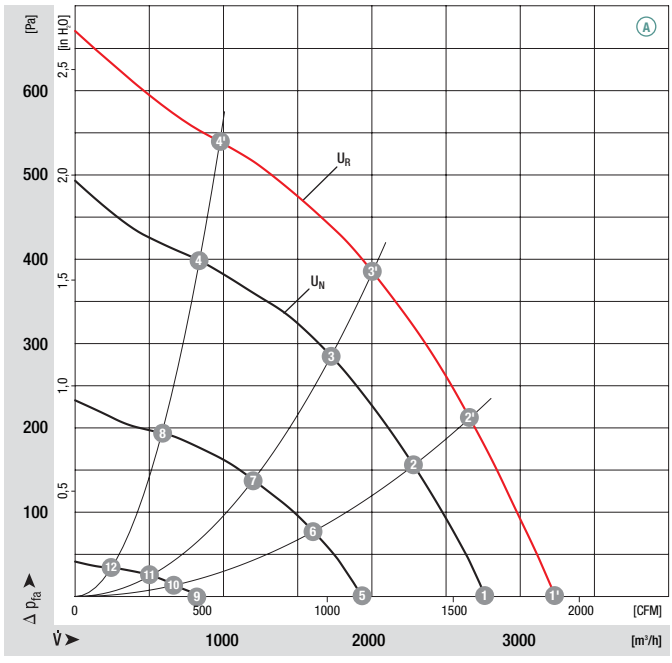
- **Material:** Impeller: Sheet aluminium, laser-welded
  Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

**Nominal data**

| Type | Motor | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | VDC | VDC | m³/h | rpm | W | A | dB(A) | °C | p. 600 |
| **R3G 355** | M3G 084-FA | Ⓐ | 48 | 36-57 | 2790 | 1560 | 178 | 3.70 | 69 | -25 to +60 | G) |

subject to alterations

**Curves** (established with long inlet nozzle)



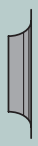

| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 1800 | 272 | 73 | — |
| Ⓐ 2' | 1740 | 333 | 67 | 53 |
| Ⓐ 3' | 1725 | 355 | 67 | 65 |
| Ⓐ 4' | 1770 | 307 | 70 | 49 |
| Ⓐ 1 | 1560 | 178 | 69 | — |
| Ⓐ 2 | 1515 | 220 | 63 | 53 |
| Ⓐ 3 | 1500 | 236 | 63 | 65 |
| Ⓐ 4 | 1530 | 208 | 65 | 49 |
| Ⓐ 5 | 1088 | 64 | 60 | — |
| Ⓐ 6 | 1065 | 79 | 56 | 53 |
| Ⓐ 7 | 1055 | 85 | 54 | 65 |
| Ⓐ 8 | 1070 | 75 | 56 | 49 |
| Ⓐ 9 | 470 | 9 | 44 | — |
| Ⓐ 10 | 450 | 10 | 42 | 53 |
| Ⓐ 11 | 450 | 11 | 40 | 65 |
| Ⓐ 12 | 455 | 10 | 40 | 49 |



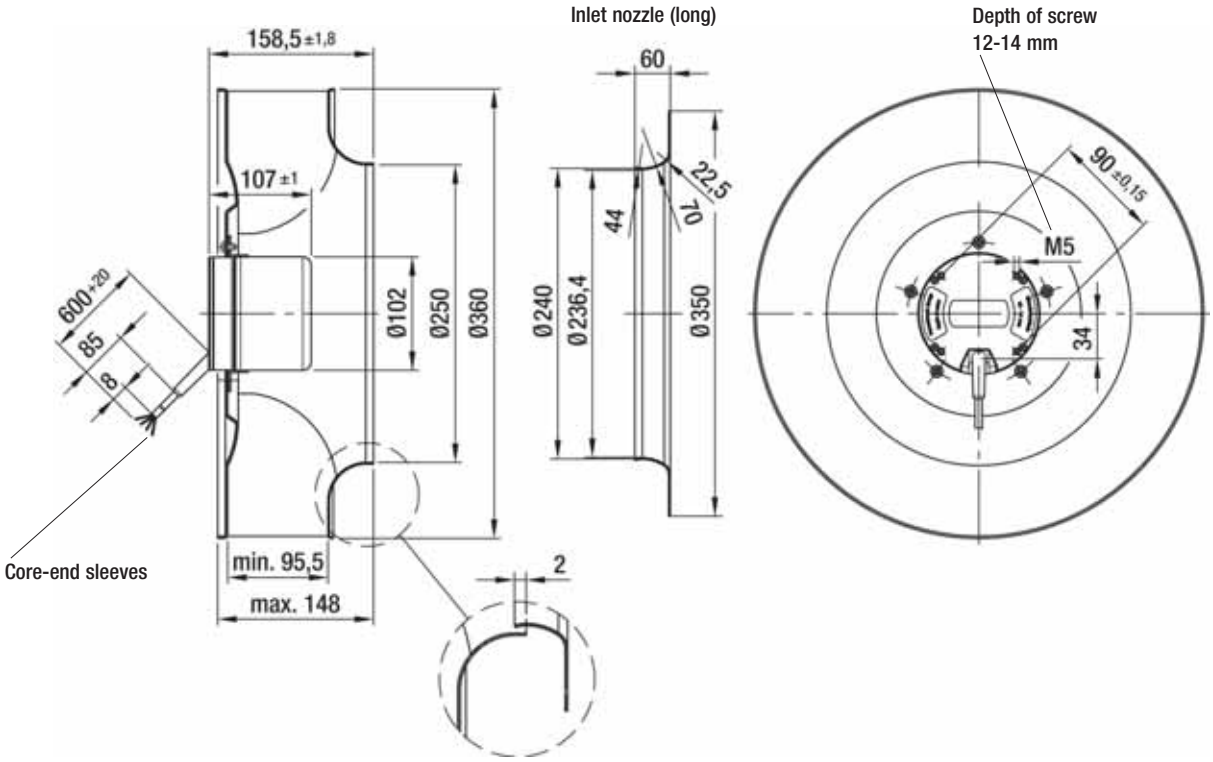
ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA, CCC

- Over-temperature protected motor
- Reverse polarity and locked-rotor protection


| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Inlet nozzle (short) |
|---|---|---|---|
| **R3G 355-AM08-30** | 4.6 | 35560-2-4013 | 35561-2-4013 |



# EC centrifugal fan

## backward curved, 3-D, Ø 355

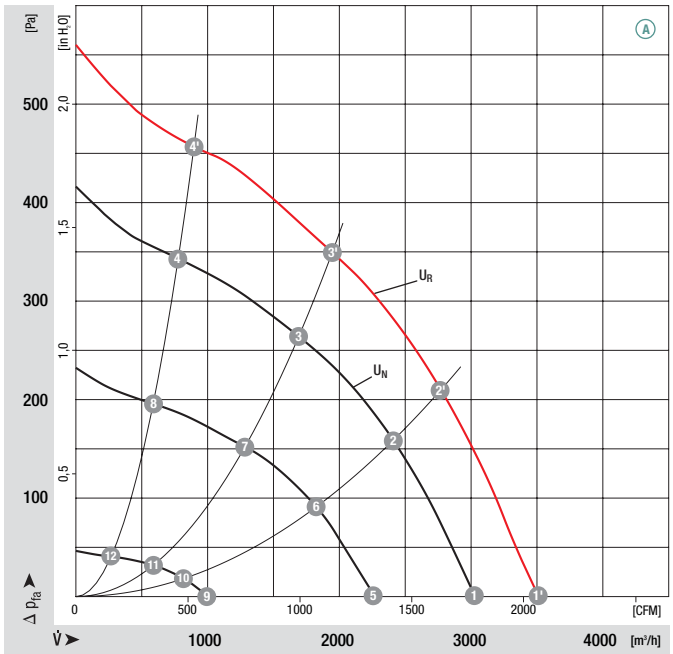
- **Material:** Impeller: Sheet aluminium, laser-welded
  Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

**Nominal data**

| Type | Motor | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | VDC | VDC | m³/h | rpm | W | A | dB(A) | °C | p. 600 |
| **R3G 355** | M3G 084-FA | Ⓐ | 48 | 36-57 | 3030 | 1410 | 168 | 3.50 | 66 | -25 to +60 | G) |

subject to alterations

**Curves** (established with long inlet nozzle)



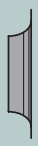

| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 1630 | 257 | 70 | — |
| Ⓐ 2' | 1575 | 317 | 64 | 62 |
| Ⓐ 3' | 1570 | 321 | 63 | 66 |
| Ⓐ 4' | 1610 | 270 | 67 | 47 |
| Ⓐ 1 | 1410 | 168 | 66 | — |
| Ⓐ 2 | 1370 | 207 | 60 | 62 |
| Ⓐ 3 | 1365 | 212 | 59 | 66 |
| Ⓐ 4 | 1400 | 177 | 63 | 47 |
| Ⓐ 5 | 1065 | 75 | 58 | — |
| Ⓐ 6 | 1045 | 93 | 55 | 62 |
| Ⓐ 7 | 1040 | 96 | 55 | 66 |
| Ⓐ 8 | 1060 | 79 | 56 | 47 |
| Ⓐ 9 | 485 | 11 | 37 | — |
| Ⓐ 10 | 480 | 12 | 35 | 62 |
| Ⓐ 11 | 480 | 13 | 34 | 66 |
| Ⓐ 12 | 480 | 11 | 35 | 47 |



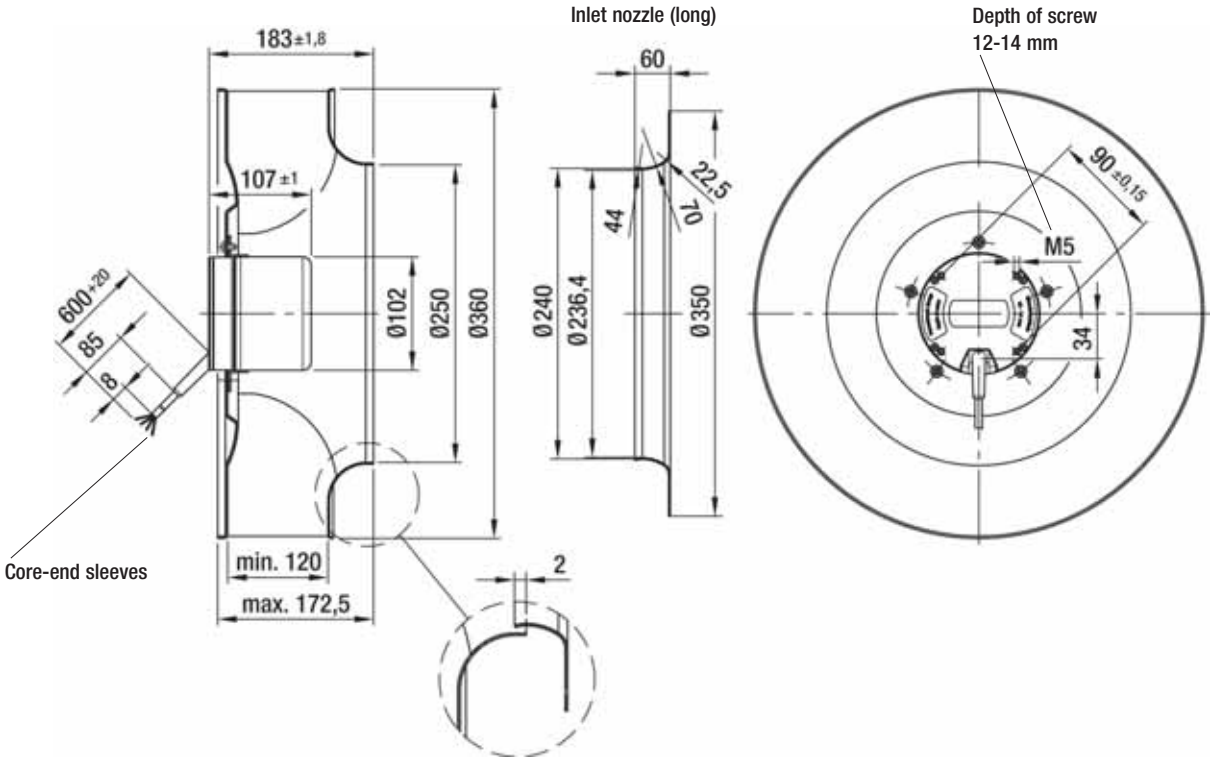
ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA, CCC

- Over-temperature protected motor
- Reverse polarity and locked-rotor protection


| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Inlet nozzle (short) |
|---|---|---|---|
| **R3G 355-AN18 -30** | 4.8 | 35560-2-4013 | 35561-2-4013 |



# EC centrifugal fan

backward curved, 3-D, Ø 400

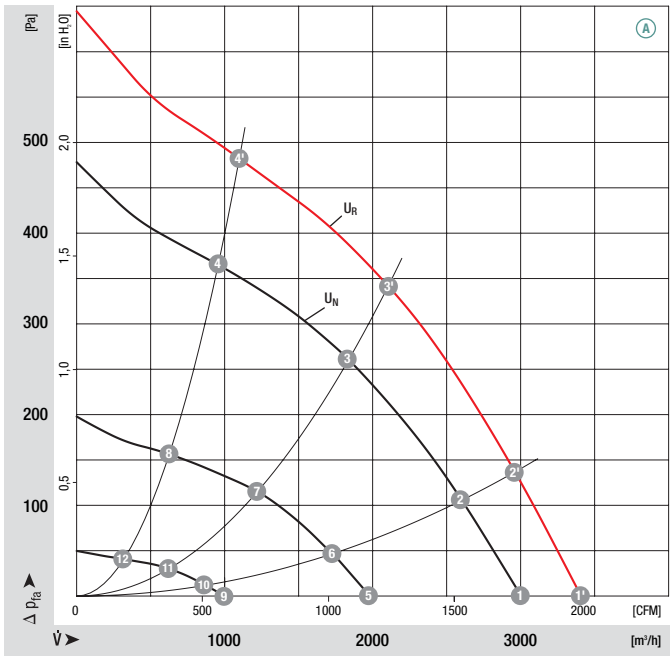
- **Material:** Impeller: Sheet aluminium, joined by tabs
  Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

## Nominal data

| Type | Motor | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | VDC | VDC | m³/h | rpm | W | A | dB(A) | °C | p. 600 |
| **R3G 400** | M3G 084-FA | Ⓐ | 48 | 36-57 | 3000 | 1290 | 200 | 4.20 | 65 | -25 to +60 | G) |

subject to alterations

## Curves



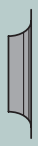

| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 1480 | 307 | 69 | — |
| Ⓐ 2' | 1450 | 340 | 68 | 44 |
| Ⓐ 3' | 1440 | 353 | 62 | 68 |
| Ⓐ 4' | 1480 | 309 | 67 | 55 |
| Ⓐ 1 | 1290 | 200 | 65 | — |
| Ⓐ 2 | 1270 | 224 | 64 | 44 |
| Ⓐ 3 | 1260 | 234 | 59 | 68 |
| Ⓐ 4 | 1285 | 204 | 62 | 55 |
| Ⓐ 5 | 850 | 59 | 56 | — |
| Ⓐ 6 | 840 | 67 | 54 | 44 |
| Ⓐ 7 | 835 | 71 | 51 | 68 |
| Ⓐ 8 | 850 | 62 | 53 | 55 |
| Ⓐ 9 | 435 | 11 | 43 | — |
| Ⓐ 10 | 435 | 12 | 41 | 44 |
| Ⓐ 11 | 430 | 13 | 38 | 68 |
| Ⓐ 12 | 435 | 12 | 39 | 55 |



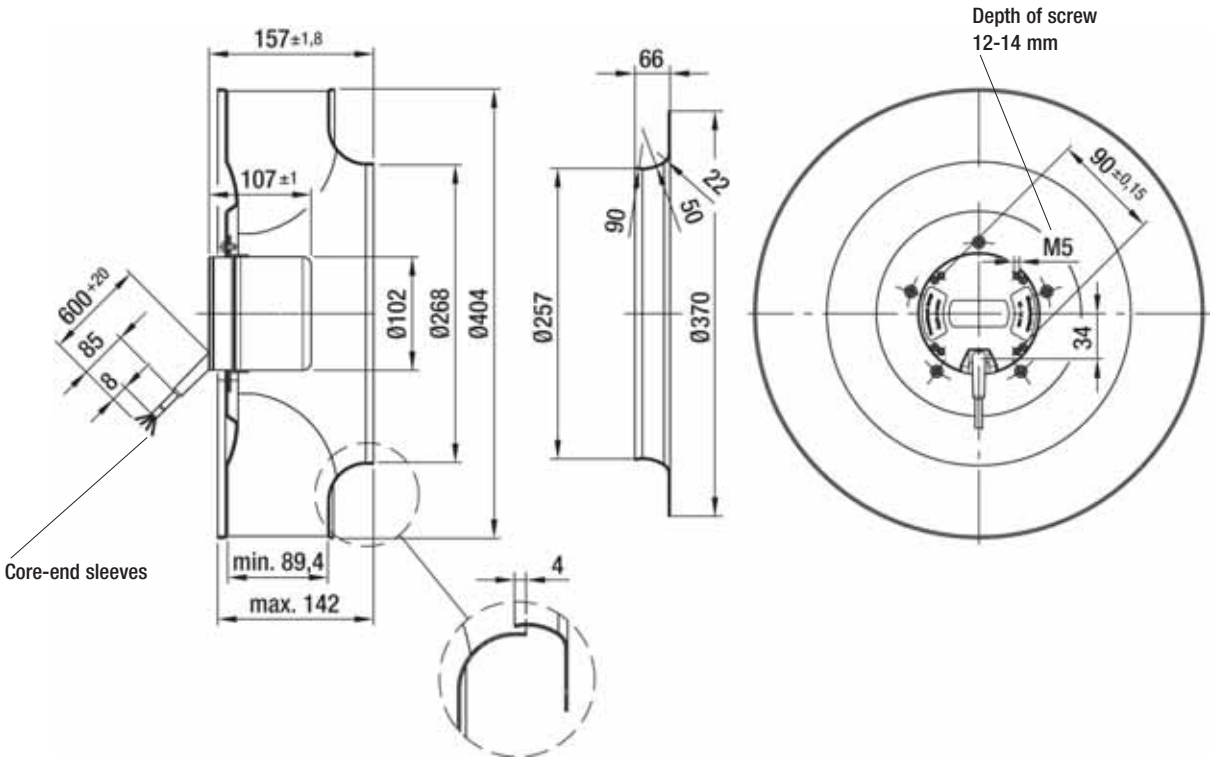
ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA, CCC

- Over-temperature protected motor
- Reverse polarity and locked-rotor protection



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 400-AD20 -30 | 5.0 | 54476-2-4013 |



# EC centrifugal fan

backward curved, 3-D, Ø 400

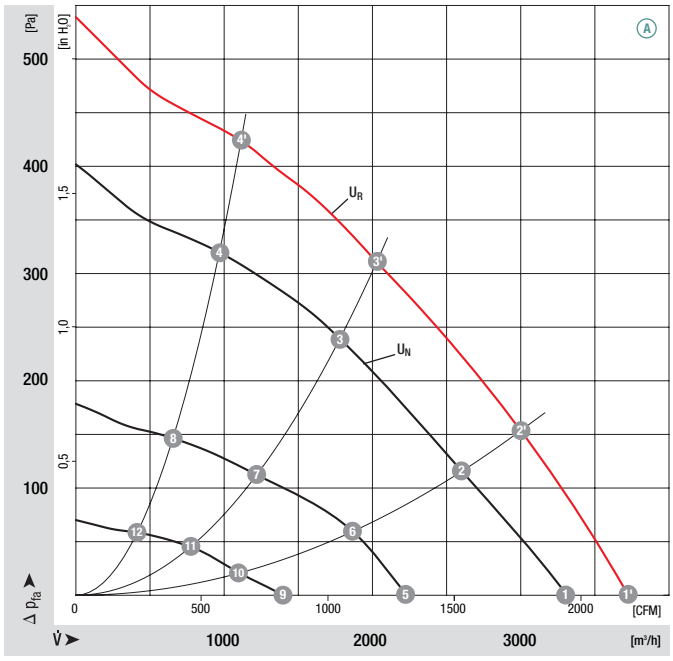
- **Material:** Impeller: Sheet aluminium, joined by tabs
  Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

## Nominal data

| Type | Motor | Curve | Nominal voltage | Voltage range | Air flow | Speed/rpm | Power input | Current draw | Sound pressure level | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | VDC | VDC | m³/h | rpm | W | A | dB(A) | °C | p. 600 |
| **R3G 400** | M3G 084-FA | Ⓐ | 48 | 36-57 | 3300 | 1160 | 192 | 3.90 | 63 | -25 to +60 | G) |

subject to alterations

## Curves



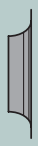

| | n [rpm] | $P_1$ [W] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|
| Ⓐ 1' | 1325 | 287 | 69 | — |
| Ⓐ 2' | 1300 | 340 | 66 | 43 |
| Ⓐ 3' | 1300 | 335 | 64 | 62 |
| Ⓐ 4' | 1345 | 268 | 68 | 53 |
| Ⓐ 1 | 1160 | 192 | 63 | — |
| Ⓐ 2 | 1140 | 227 | 62 | 43 |
| Ⓐ 3 | 1140 | 210 | 59 | 62 |
| Ⓐ 4 | 1170 | 177 | 63 | 53 |
| Ⓐ 5 | 795 | 62 | 57 | — |
| Ⓐ 6 | 784 | 74 | 56 | 43 |
| Ⓐ 7 | 780 | 69 | 56 | 62 |
| Ⓐ 8 | 795 | 59 | 56 | 53 |
| Ⓐ 9 | 500 | 15 | 49 | — |
| Ⓐ 10 | 500 | 19 | 48 | 43 |
| Ⓐ 11 | 500 | 21 | 48 | 62 |
| Ⓐ 12 | 505 | 18 | 49 | 53 |



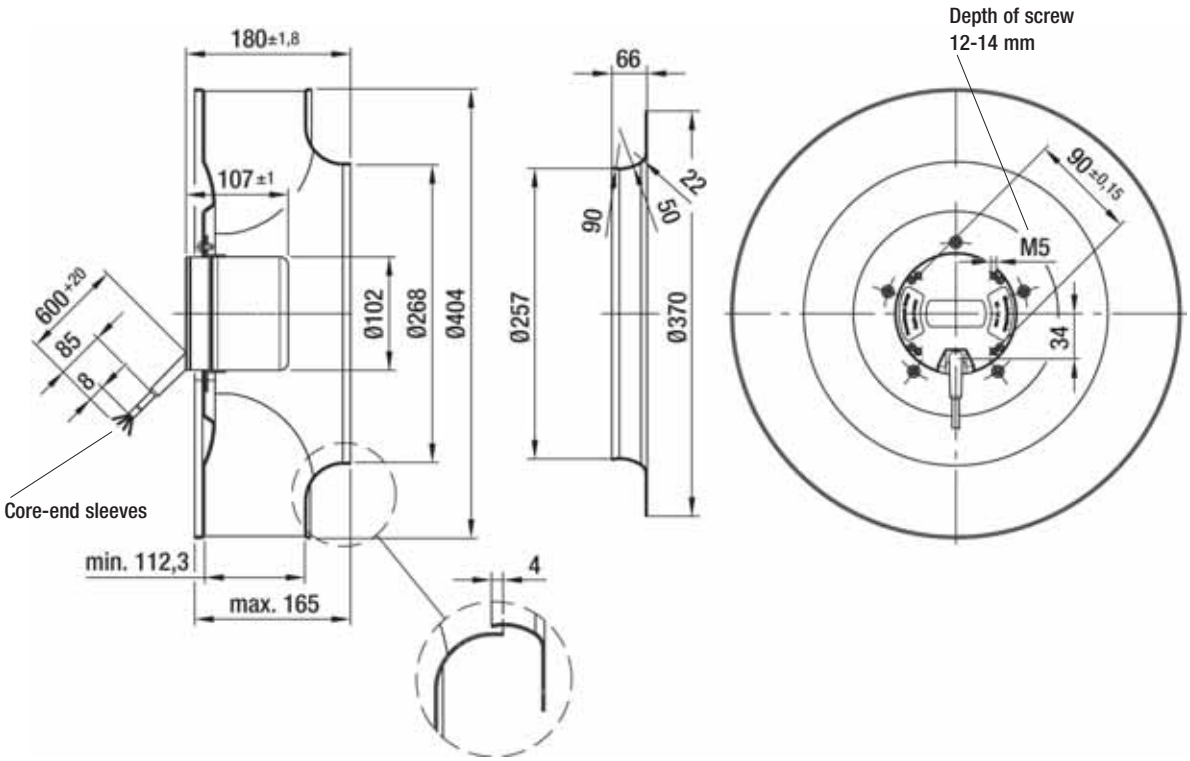
ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA, CCC

- Over-temperature protected motor
- Reverse polarity and locked-rotor protection



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 400-AC13 -30 | 5.3 | 54476-2-4013 |



# EC centrifugal fan

backward curved, Ø 133

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

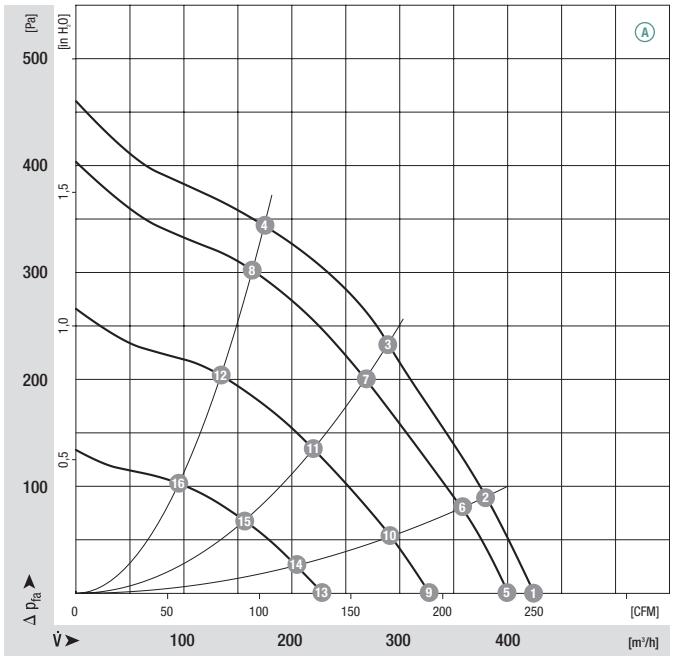
## Nominal data

| Type | Motor | Curve | Nominal voltage | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 601 |
| **R3G 133** | M3G 055-BD | Ⓐ | 1~ 115 | 50/60 | 4350 | 50 | 0.80 | -25 to +60 | H1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

## Curves

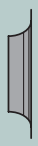



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 4350 | 37 | 0.55 | 75 | — |
| Ⓐ 2 | 4310 | 41 | 0.60 | 74 | 39 |
| Ⓐ 3 | 4260 | 46 | 0.70 | 61 | 61 |
| Ⓐ 4 | 4340 | 41 | 0.60 | 60 | 45 |
| Ⓐ 5 | 4150 | 34 | 0.60 | 78 | — |
| Ⓐ 6 | 4090 | 36 | 0.60 | 69 | 31 |
| Ⓐ 7 | 4010 | 39 | 0.60 | 58 | 52 |
| Ⓐ 8 | 4080 | 34 | 0.60 | 58 | 47 |
| Ⓐ 9 | 3390 | 20 | 0.40 | 67 | — |
| Ⓐ 10 | 3350 | 22 | 0.40 | 58 | 30 |
| Ⓐ 11 | 3300 | 23 | 0.40 | 53 | 53 |
| Ⓐ 12 | 3350 | 22 | 0.40 | 53 | 46 |
| Ⓐ 13 | 2370 | 10 | 0.20 | 52 | — |
| Ⓐ 14 | 2360 | 11 | 0.20 | 49 | 30 |
| Ⓐ 15 | 2350 | 11 | 0.20 | 45 | 56 |
| Ⓐ 16 | 2370 | 11 | 0.20 | 44 | 46 |

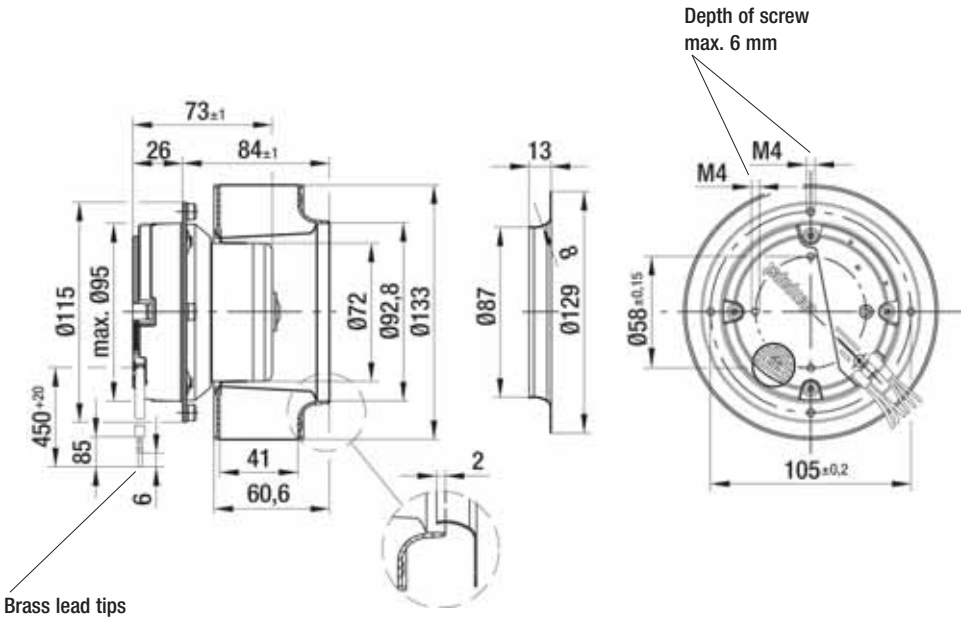


ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** GOST; VDE, UL, CSA, CCC are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 133-AE17 -02 | 1.0 | 09566-2-4013 |



# EC centrifugal fan

backward curved, Ø 133

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

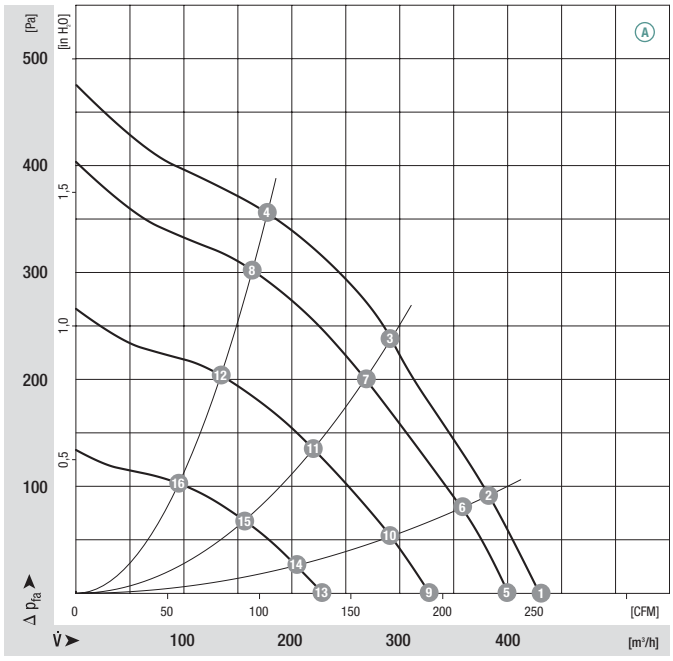
## Nominal data

| Type | Motor | Curve | Nominal voltage | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 601 |
| **R3G 133** | M3G 055-BD | Ⓐ | 1~ 230 | 50/60 | 4480 | 52 | 0.40 | -25 to +60 | H1) |

subject to alterations

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

## Curves

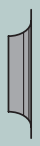



| | | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|---|
| Ⓐ | 1 | 4480 | 43 | 0.30 | 75 | — |
| Ⓐ | 2 | 4450 | 46 | 0.35 | 74 | 31 |
| Ⓐ | 3 | 4390 | 49 | 0.40 | 61 | 51 |
| Ⓐ | 4 | 4460 | 45 | 0.35 | 60 | 46 |
| Ⓐ | 5 | 4150 | 34 | 0.30 | 78 | — |
| Ⓐ | 6 | 4090 | 36 | 0.30 | 69 | 31 |
| Ⓐ | 7 | 4010 | 39 | 0.30 | 58 | 52 |
| Ⓐ | 8 | 4080 | 34 | 0.30 | 58 | 47 |
| Ⓐ | 9 | 3390 | 20 | 0.20 | 67 | — |
| Ⓐ | 10 | 3350 | 22 | 0.20 | 58 | 30 |
| Ⓐ | 11 | 3300 | 23 | 0.20 | 53 | 53 |
| Ⓐ | 12 | 3350 | 22 | 0.20 | 53 | 46 |
| Ⓐ | 13 | 2370 | 10 | 0.10 | 52 | — |
| Ⓐ | 14 | 2360 | 11 | 0.10 | 49 | 30 |
| Ⓐ | 15 | 2350 | 11 | 0.10 | 45 | 56 |
| Ⓐ | 16 | 2370 | 11 | 0.10 | 44 | 46 |

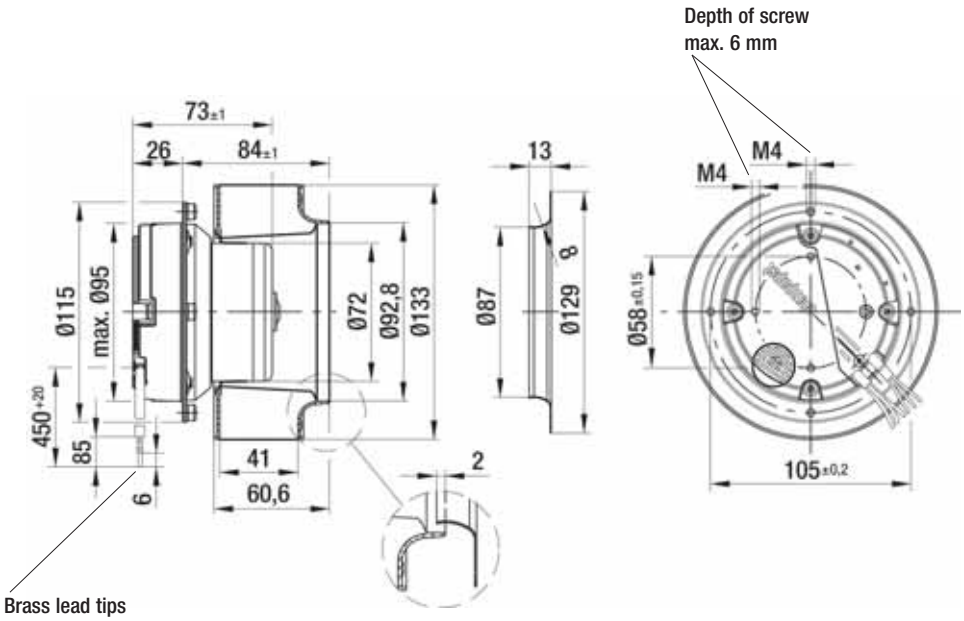


ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** GOST; VDE, UL, CSA, CCC are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 133-AE07 -02 | 1.0 | 09566-2-4013 |



# EC centrifugal fan

backward curved, Ø 175

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

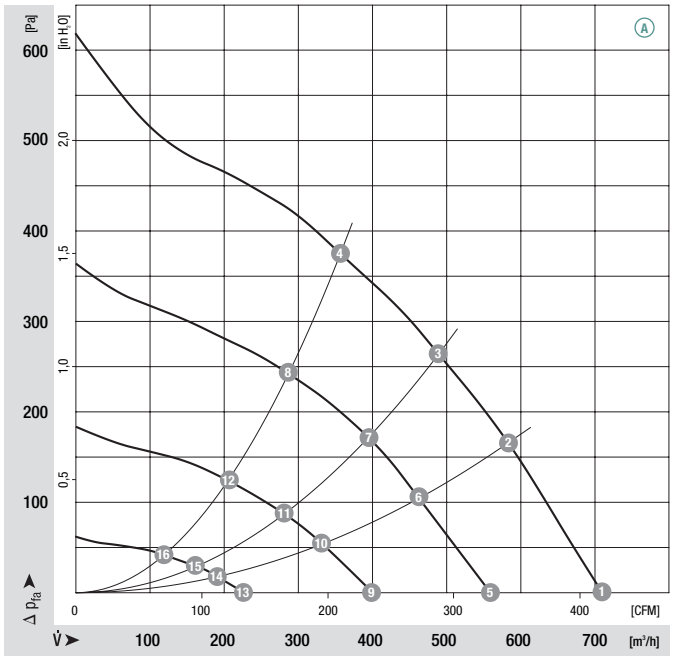
## Nominal data

| Type | Motor | Curve | Nominal voltage | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 601 |
| **R3G 175** | M3G 055-CF | Ⓐ | 1~ 115 | 50/60 | 3970 | 90 | 1.30 | -25 to +60 | H1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

## Curves

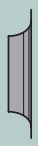



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 3970 | 72 | 1.10 | 72 | — |
| Ⓐ 2 | 3870 | 81 | 1.20 | 67 | 45 |
| Ⓐ 3 | 3810 | 85 | 1.20 | 66 | 57 |
| Ⓐ 4 | 3790 | 88 | 1.30 | 65 | 52 |
| Ⓐ 5 | 3180 | 38 | 0.60 | 65 | — |
| Ⓐ 6 | 3110 | 45 | 0.70 | 61 | 39 |
| Ⓐ 7 | 3120 | 46 | 0.70 | 58 | 53 |
| Ⓐ 8 | 3110 | 47 | 0.70 | 56 | 51 |
| Ⓐ 9 | 2270 | 17 | 0.30 | 59 | — |
| Ⓐ 10 | 2240 | 20 | 0.35 | 54 | 38 |
| Ⓐ 11 | 2240 | 20 | 0.35 | 50 | 51 |
| Ⓐ 12 | 2240 | 21 | 0.35 | 50 | 50 |
| Ⓐ 13 | 1310 | 6 | 0.10 | 45 | — |
| Ⓐ 14 | 1295 | 7 | 0.10 | 40 | 40 |
| Ⓐ 15 | 1285 | 7 | 0.10 | 37 | 53 |
| Ⓐ 16 | 1290 | 7 | 0.10 | 35 | 54 |

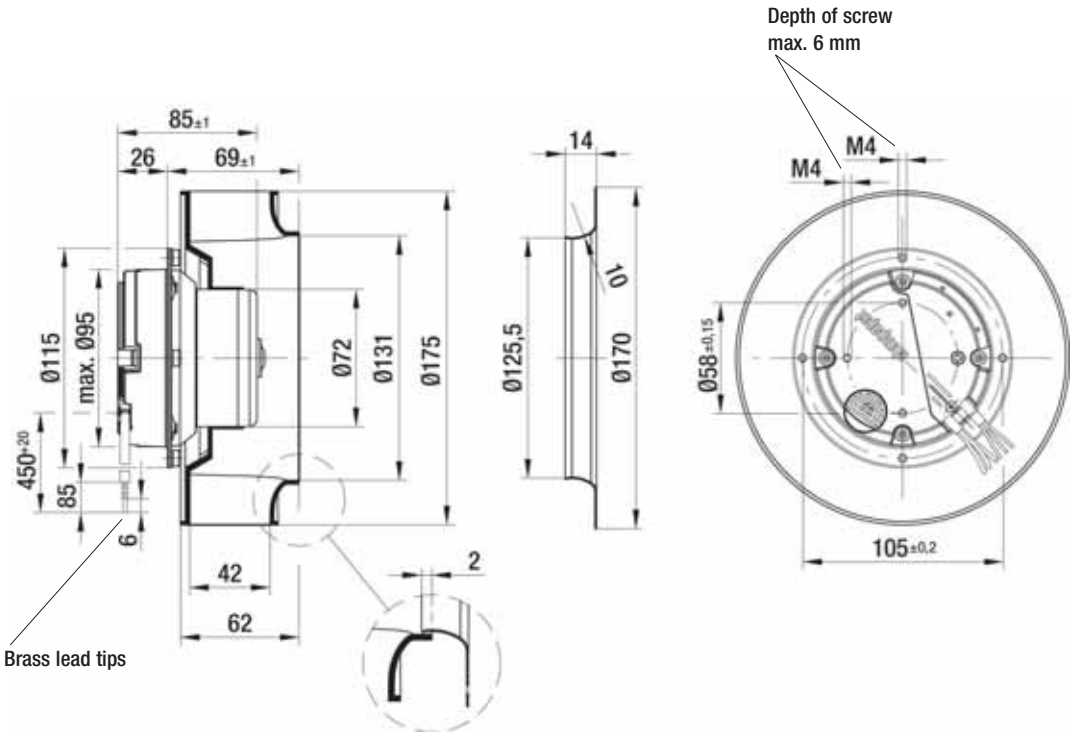


ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** GOST; VDE, UL, CSA, CCC are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 175-AF25 -02 | 1.2 | 09576-2-4013 |



# EC centrifugal fan

backward curved, Ø 175

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

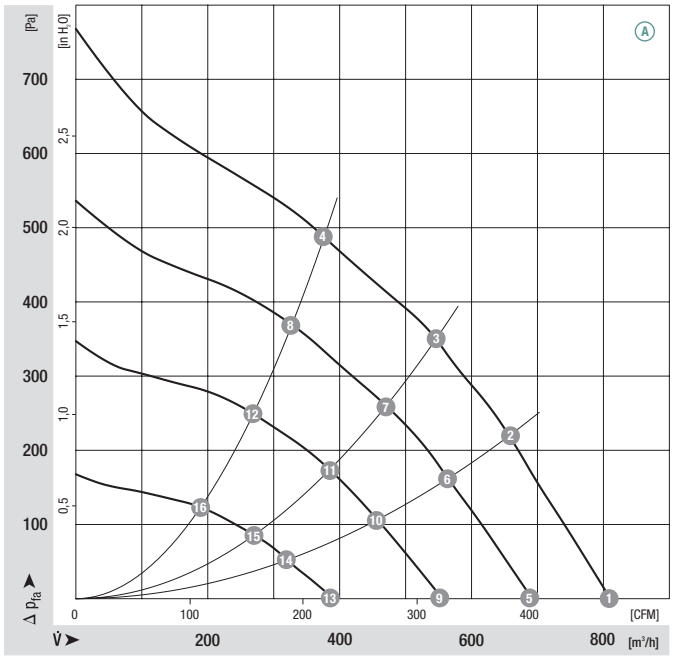
## Nominal data

| Type | Motor | Curve | Nominal voltage | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 601 |
| **R3G 175** | M3G 055-CF | Ⓐ | 1~ 230 | 50/60 | 4460 | 120 | 1.00 | -25 to +60 | H1) |

subject to alterations

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

## Curves

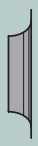



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 4460 | 100 | 0.75 | 76 | — |
| Ⓐ 2 | 4350 | 112 | 0.80 | 69 | 57 |
| Ⓐ 3 | 4300 | 115 | 0.85 | 66 | 68 |
| Ⓐ 4 | 4260 | 118 | 0.85 | 68 | 60 |
| Ⓐ 5 | 3800 | 65 | 0.50 | 71 | — |
| Ⓐ 6 | 3730 | 72 | 0.55 | 65 | 56 |
| Ⓐ 7 | 3710 | 76 | 0.55 | 74 | 66 |
| Ⓐ 8 | 3710 | 78 | 0.60 | 64 | 60 |
| Ⓐ 9 | 3110 | 37 | 0.30 | 66 | — |
| Ⓐ 10 | 3070 | 42 | 0.30 | 60 | 51 |
| Ⓐ 11 | 3060 | 44 | 0.35 | 58 | 61 |
| Ⓐ 12 | 3040 | 45 | 0.35 | 59 | 58 |
| Ⓐ 13 | 2170 | 17 | 0.15 | 59 | — |
| Ⓐ 14 | 2150 | 18 | 0.15 | 54 | 40 |
| Ⓐ 15 | 2150 | 18 | 0.15 | 50 | 51 |
| Ⓐ 16 | 2130 | 19 | 0.15 | 50 | 48 |

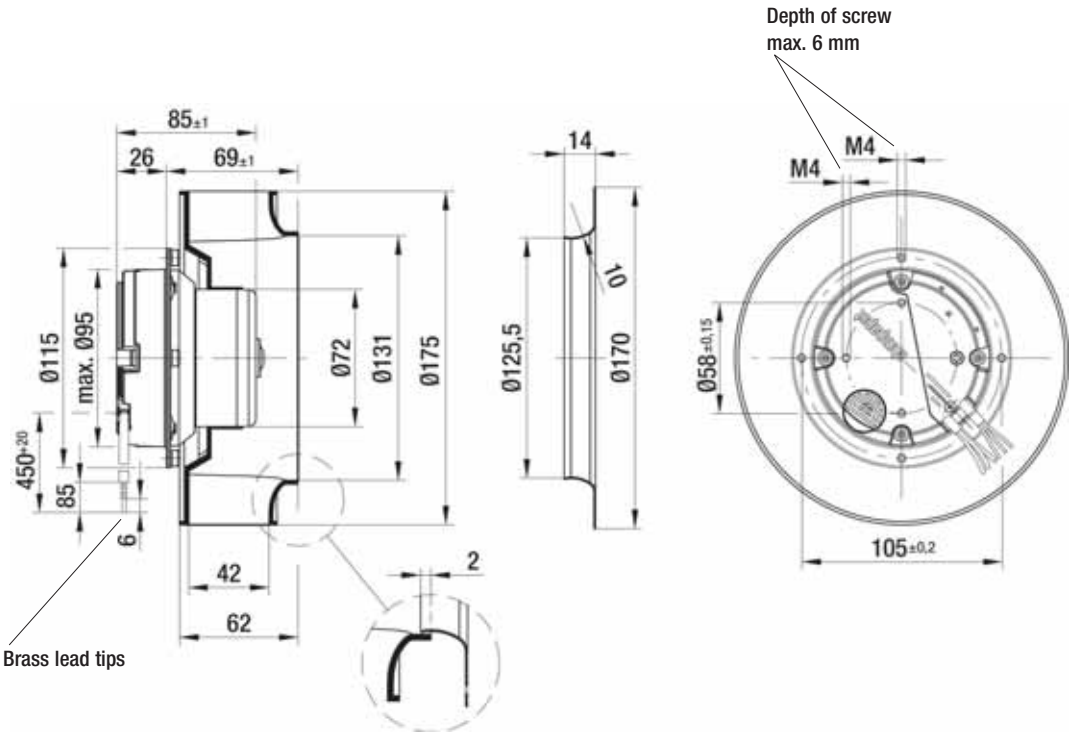


ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** VDE, UL, CSA, CCC, GOST are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 175-AF19 -02 | 1.2 | 09576-2-4013 |



# EC centrifugal fan

backward curved, Ø 190

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

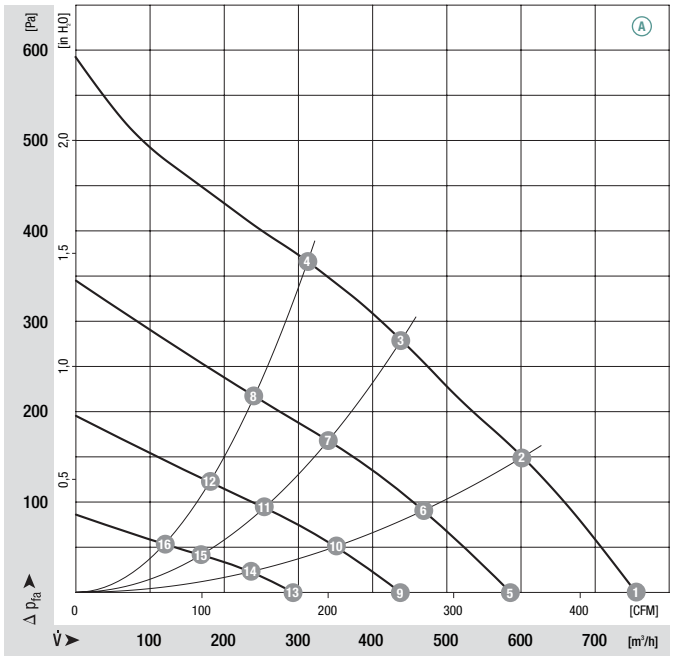
## Nominal data

| Type | Motor | Curve | Nominal voltage | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 601 |
| **R3G 190** | M3G 055-CF | Ⓐ | 1~ 115 | 50/60 | 3370 | 87 | 1.40 | -25 to +60 | H1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

## Curves

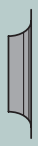



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 3370 | 76 | 1.10 | 70 | — |
| Ⓐ 2 | 3250 | 81 | 1.20 | 64 | 44 |
| Ⓐ 3 | 3220 | 84 | 1.20 | 63 | 55 |
| Ⓐ 4 | 3190 | 85 | 1.30 | 60 | 55 |
| Ⓐ 5 | 2715 | 42 | 0.70 | 64 | — |
| Ⓐ 6 | 2690 | 46 | 0.70 | 63 | 43 |
| Ⓐ 7 | 2670 | 48 | 0.80 | 58 | 54 |
| Ⓐ 8 | 2655 | 49 | 0.80 | 56 | 56 |
| Ⓐ 9 | 2310 | 27 | 0.40 | 61 | — |
| Ⓐ 10 | 2285 | 29 | 0.50 | 56 | 42 |
| Ⓐ 11 | 2265 | 31 | 0.50 | 55 | 52 |
| Ⓐ 12 | 2260 | 32 | 0.50 | 52 | 53 |
| Ⓐ 13 | 1780 | 15 | 0.20 | 58 | — |
| Ⓐ 14 | 1760 | 16 | 0.30 | 52 | 35 |
| Ⓐ 15 | 1750 | 17 | 0.30 | 48 | 43 |
| Ⓐ 16 | 1745 | 17 | 0.30 | 45 | 44 |

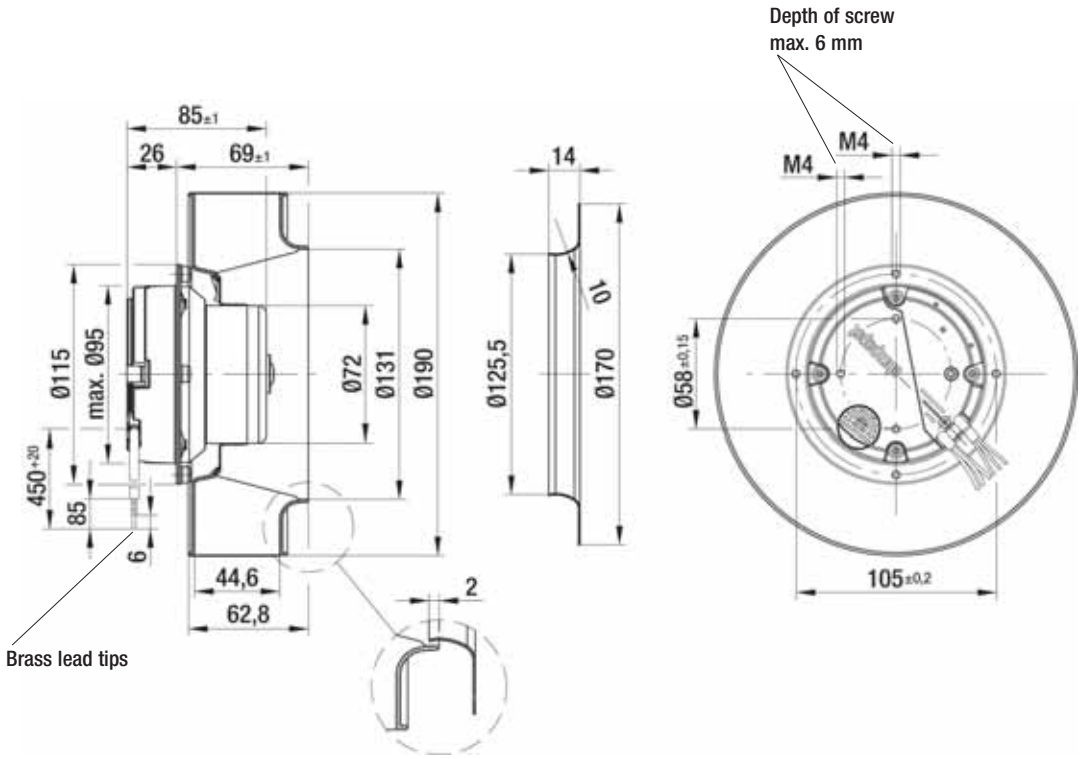


ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** VDE, UL, CSA, CCC, GOST are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 190-AB15 -02 | 1.3 | 09576-2-4013 |



# EC centrifugal fan

backward curved, Ø 190

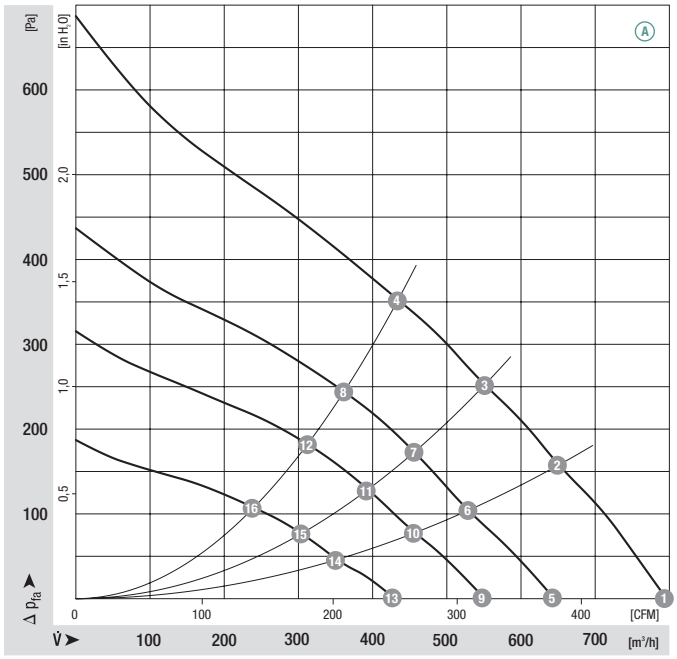
- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

| Nominal data | | Curve | Nominal voltage | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **W** | **A** | **°C** | p. 601 |
| **R3G 190** | M3G 055-CF | Ⓐ | 1~ 230 | 50/60 | 3570 | 105 | 0.90 | -25 to +60 | H1) |

subject to alterations

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

## Curves

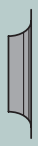



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 3570 | 90 | 0.65 | 72 | — |
| Ⓐ 2 | 3490 | 96 | 0.70 | 66 | 47 |
| Ⓐ 3 | 3440 | 101 | 0.75 | 64 | 57 |
| Ⓐ 4 | 3410 | 102 | 0.75 | 62 | 59 |
| Ⓐ 5 | 2950 | 51 | 0.40 | 65 | — |
| Ⓐ 6 | 2880 | 55 | 0.40 | 62 | 44 |
| Ⓐ 7 | 2860 | 58 | 0.45 | 60 | 55 |
| Ⓐ 8 | 2840 | 60 | 0.45 | 57 | 58 |
| Ⓐ 9 | 2510 | 33 | 0.25 | 62 | — |
| Ⓐ 10 | 2480 | 36 | 0.30 | 58 | 43 |
| Ⓐ 11 | 2470 | 39 | 0.30 | 57 | 53 |
| Ⓐ 12 | 2450 | 40 | 0.30 | 54 | 56 |
| Ⓐ 13 | 1940 | 18 | 0.15 | 57 | — |
| Ⓐ 14 | 1920 | 19 | 0.15 | 54 | 37 |
| Ⓐ 15 | 1900 | 20 | 0.15 | 51 | 46 |
| Ⓐ 16 | 1890 | 22 | 0.15 | 47 | 48 |

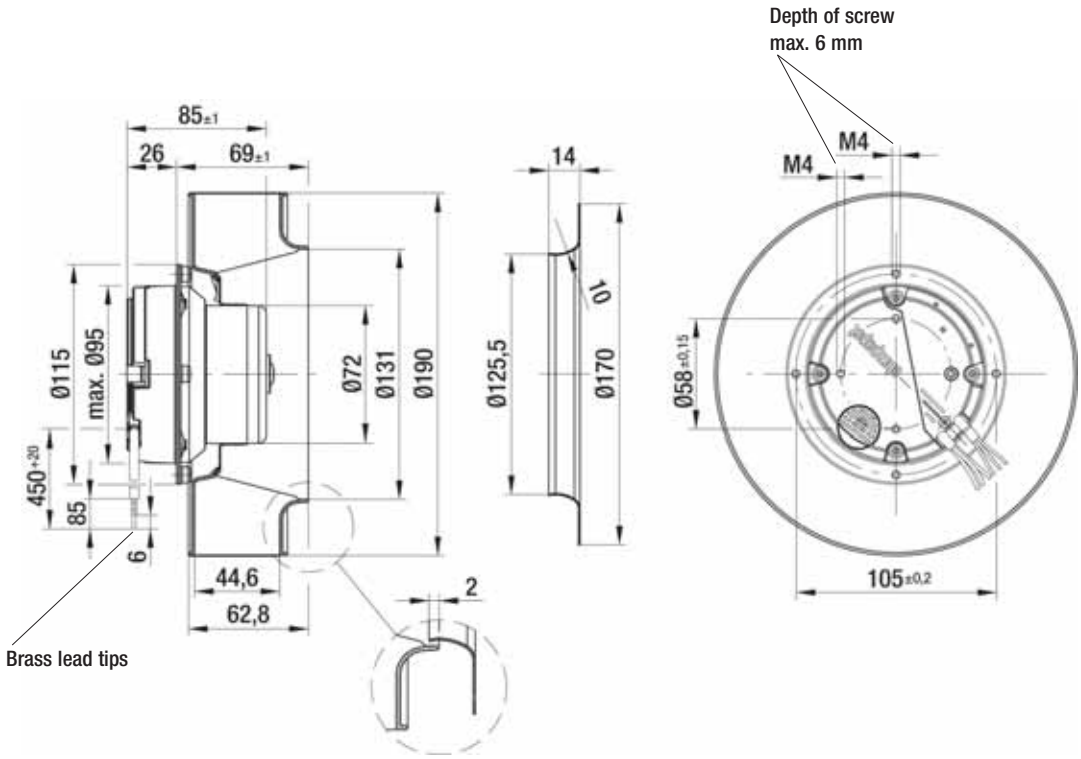


ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** VDE, UL, CSA, CCC, GOST are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 190-AB23 -02 | 1.3 | 09576-2-4013 |



# EC centrifugal fan

backward curved, Ø 190

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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

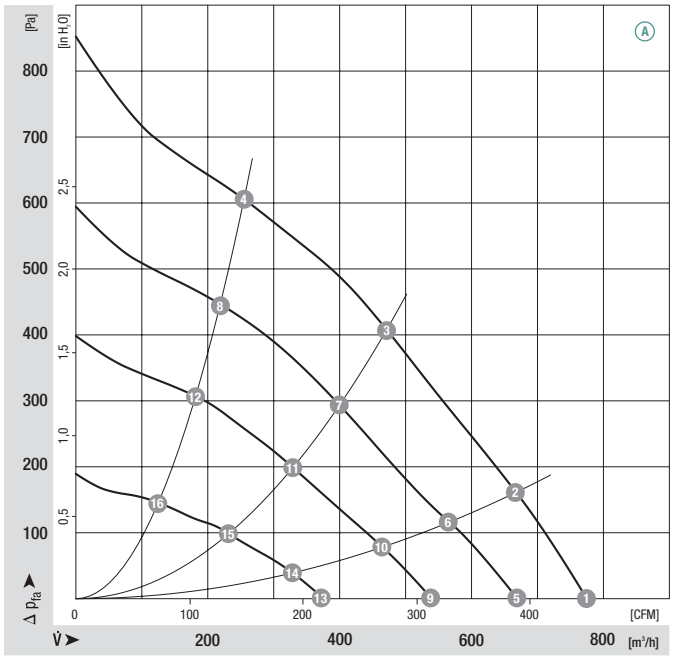
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 603 |
| **R3G 190** | M3G 074-BF | Ⓐ | 1~ 100-130 | 50/60 | 3960 | 170 | 2.50 | -25 to +60 | J1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

## Curves

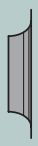



| | | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|---|
| Ⓐ | 1 | 3960 | 146 | 1.80 | 73 | — |
| Ⓐ | 2 | 3940 | 149 | 1.90 | 71 | 32 |
| Ⓐ | 3 | 3900 | 156 | 2.00 | 68 | 48 |
| Ⓐ | 4 | 4000 | 147 | 1.90 | 69 | 43 |
| Ⓐ | 5 | 3430 | 94 | 1.20 | 70 | — |
| Ⓐ | 6 | 3370 | 95 | 1.30 | 66 | 31 |
| Ⓐ | 7 | 3310 | 99 | 1.30 | 64 | 47 |
| Ⓐ | 8 | 3420 | 95 | 1.30 | 64 | 41 |
| Ⓐ | 9 | 2830 | 58 | 0.80 | 64 | — |
| Ⓐ | 10 | 2790 | 59 | 0.80 | 62 | 28 |
| Ⓐ | 11 | 2720 | 58 | 0.80 | 58 | 45 |
| Ⓐ | 12 | 2830 | 57 | 0.80 | 60 | 39 |
| Ⓐ | 13 | 1960 | 24 | 0.40 | 58 | — |
| Ⓐ | 14 | 1950 | 25 | 0.40 | 56 | 23 |
| Ⓐ | 15 | 1910 | 25 | 0.40 | 50 | 37 |
| Ⓐ | 16 | 1940 | 24 | 0.40 | 50 | 31 |

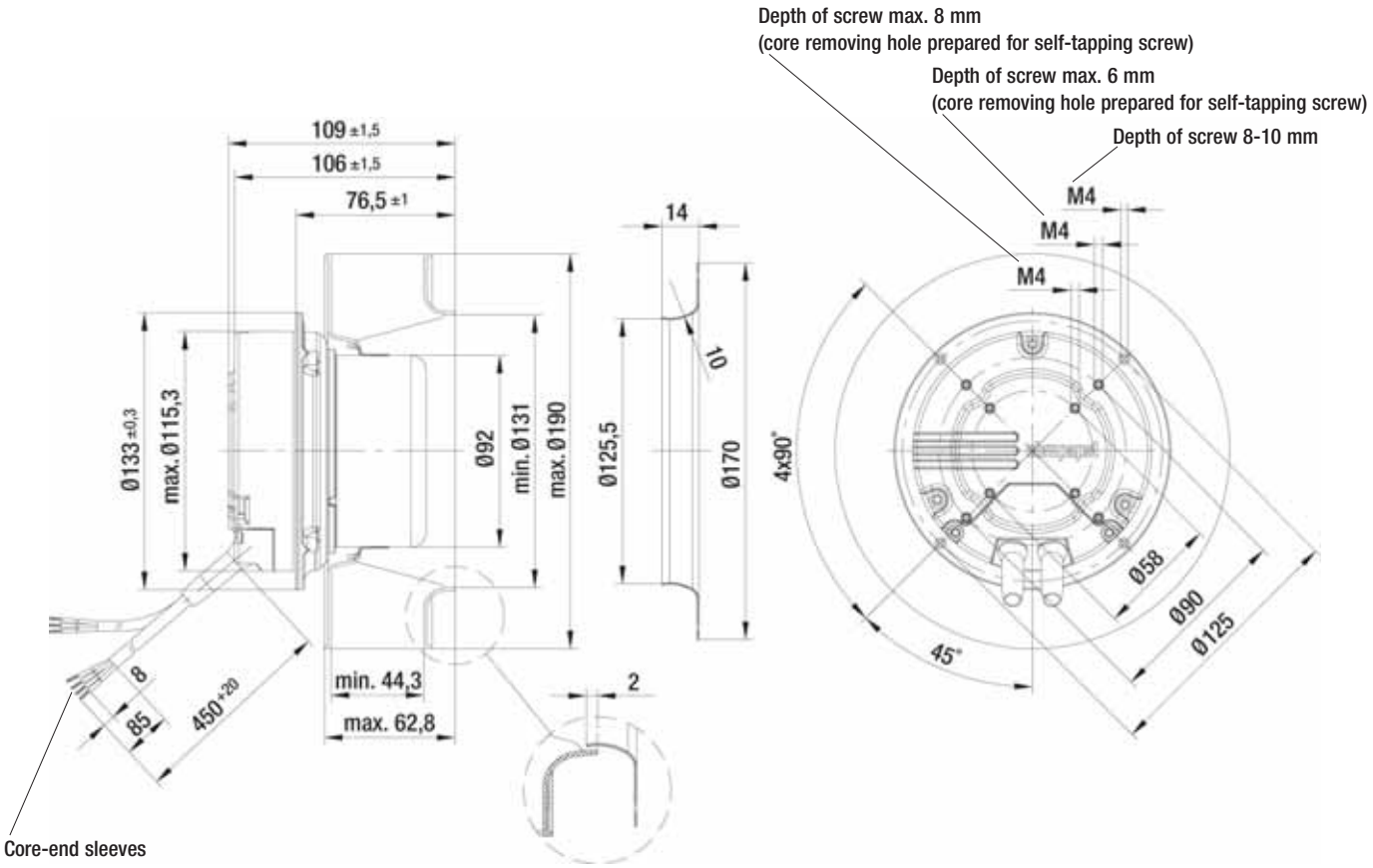


ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA, CCC, GOST are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 190-AF60 -01 | 1.8 | 09576-2-4013 |



# EC centrifugal fan

backward curved, Ø 190

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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

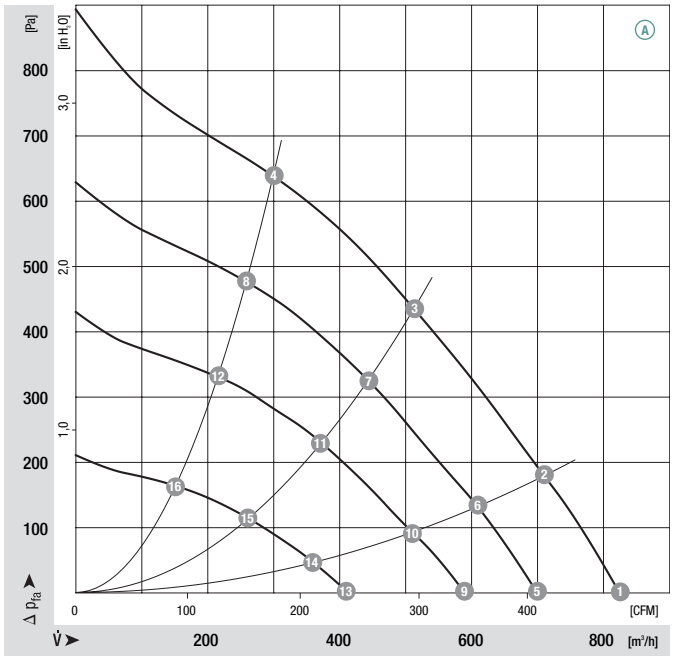
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 603 |
| **R3G 190** | M3G 074-BF | Ⓐ | 1~ 200-277 | 50/60 | 4050 | 156 | 1.15 | -25 to +60 | J1) |

subject to alterations

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

## Curves

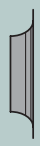



| | | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|---|
| Ⓐ | 1 | 4050 | 149 | 1.10 | 74 | — |
| Ⓐ | 2 | 4040 | 156 | 1.10 | 72 | 35 |
| Ⓐ | 3 | 4010 | 155 | 1.10 | 69 | 52 |
| Ⓐ | 4 | 4090 | 142 | 1.00 | 69 | 43 |
| Ⓐ | 5 | 3490 | 101 | 0.70 | 70 | — |
| Ⓐ | 6 | 3460 | 104 | 0.70 | 68 | 33 |
| Ⓐ | 7 | 3250 | 103 | 0.70 | 65 | 51 |
| Ⓐ | 8 | 3535 | 96 | 0.70 | 65 | 41 |
| Ⓐ | 9 | 2925 | 62 | 0.50 | 66 | — |
| Ⓐ | 10 | 2915 | 63 | 0.50 | 64 | 33 |
| Ⓐ | 11 | 2900 | 63 | 0.50 | 60 | 52 |
| Ⓐ | 12 | 2930 | 60 | 0.50 | 61 | 42 |
| Ⓐ | 13 | 2040 | 27 | 0.20 | 59 | — |
| Ⓐ | 14 | 2050 | 27 | 0.20 | 56 | 33 |
| Ⓐ | 15 | 2040 | 27 | 0.20 | 51 | 51 |
| Ⓐ | 16 | 2060 | 26 | 0.20 | 51 | 39 |

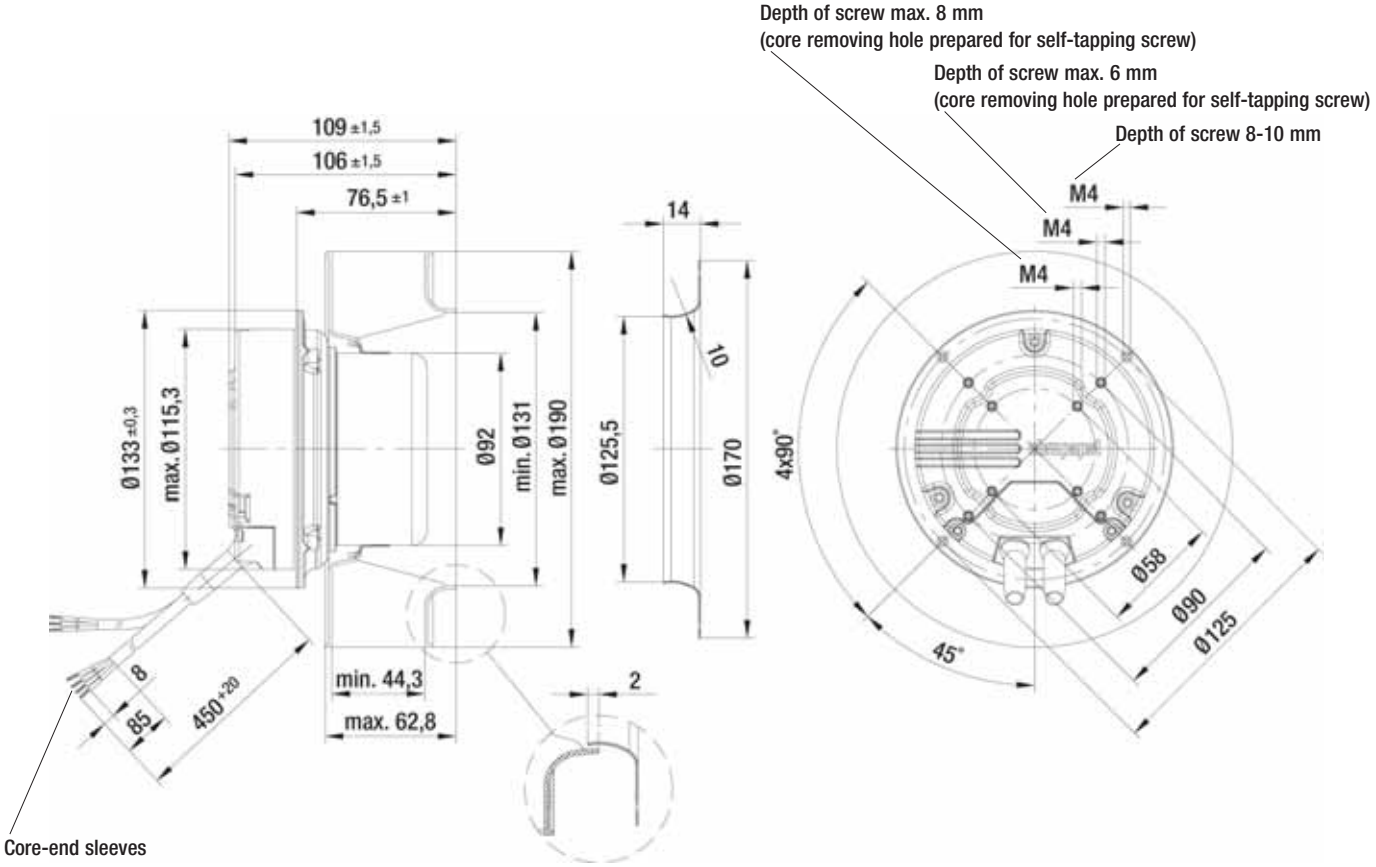


ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA; CCC, GOST are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 190-AF50 -01 | 1.8 | 09576-2-4013 |



# EC centrifugal fan

backward curved, Ø 220

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

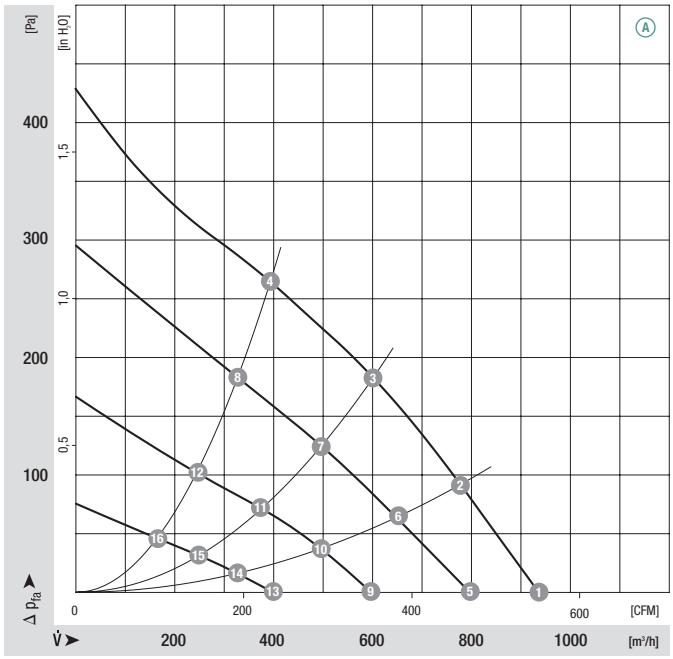
## Nominal data

| Type | Motor | Curve | Nominal voltage | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 601 |
| **R3G 220** | M3G 055-CF | Ⓐ | 1~ 115 | 50/60 | 2620 | 75 | 1.10 | -25 to +60 | H1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

## Curves

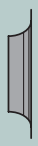



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2620 | 55 | 0.80 | 69 | — |
| Ⓐ 2 | 2480 | 64 | 1.00 | 67 | 55 |
| Ⓐ 3 | 2370 | 71 | 1.00 | 59 | 63 |
| Ⓐ 4 | 2450 | 66 | 1.00 | 63 | 47 |
| Ⓐ 5 | 2340 | 40 | 0.60 | 67 | — |
| Ⓐ 6 | 2260 | 48 | 0.70 | 64 | 53 |
| Ⓐ 7 | 2200 | 53 | 0.80 | 57 | 62 |
| Ⓐ 8 | 2250 | 51 | 0.80 | 59 | 47 |
| Ⓐ 9 | 1890 | 22 | 0.40 | 64 | — |
| Ⓐ 10 | 1820 | 27 | 0.40 | 60 | 48 |
| Ⓐ 11 | 1790 | 30 | 0.50 | 52 | 60 |
| Ⓐ 12 | 1820 | 28 | 0.40 | 55 | 45 |
| Ⓐ 13 | 1180 | 8 | 0.20 | 56 | — |
| Ⓐ 14 | 1150 | 9 | 0.20 | 52 | 34 |
| Ⓐ 15 | 1130 | 10 | 0.20 | 42 | 44 |
| Ⓐ 16 | 1150 | 10 | 0.20 | 43 | 33 |

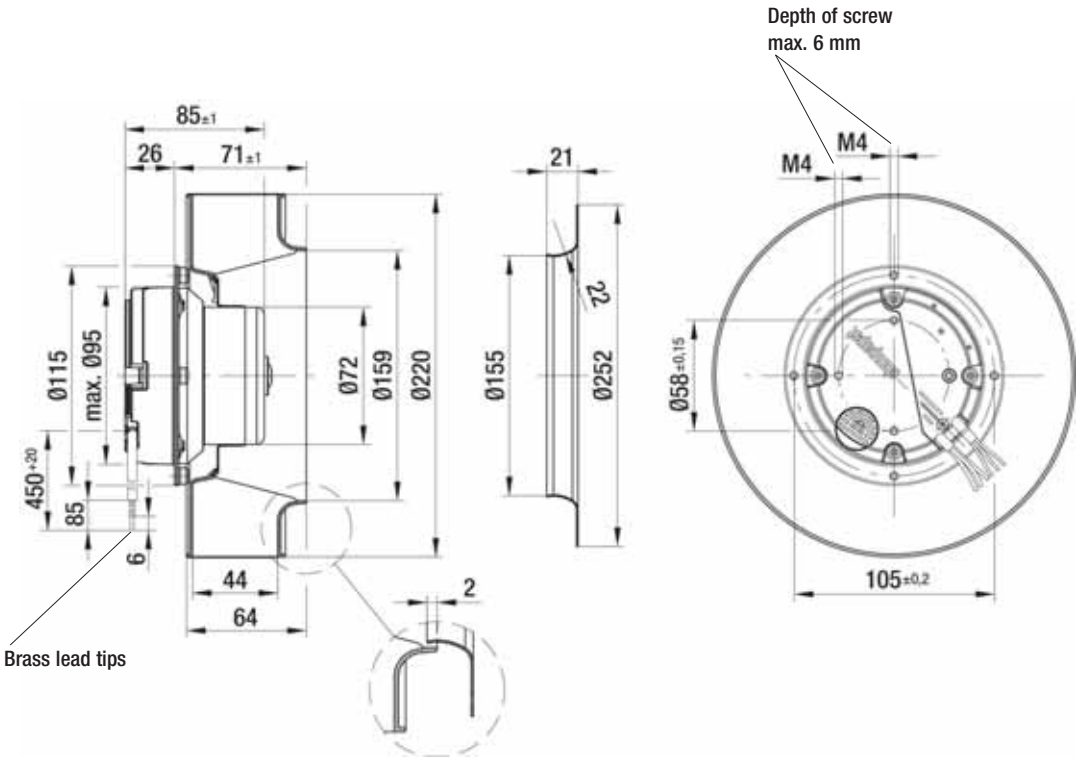


ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** VDE, UL, CSA, CCC, GOST are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 220-AD21 -02 | 1.4 | 09609-2-4013 |



# EC centrifugal fan

backward curved, Ø 220

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

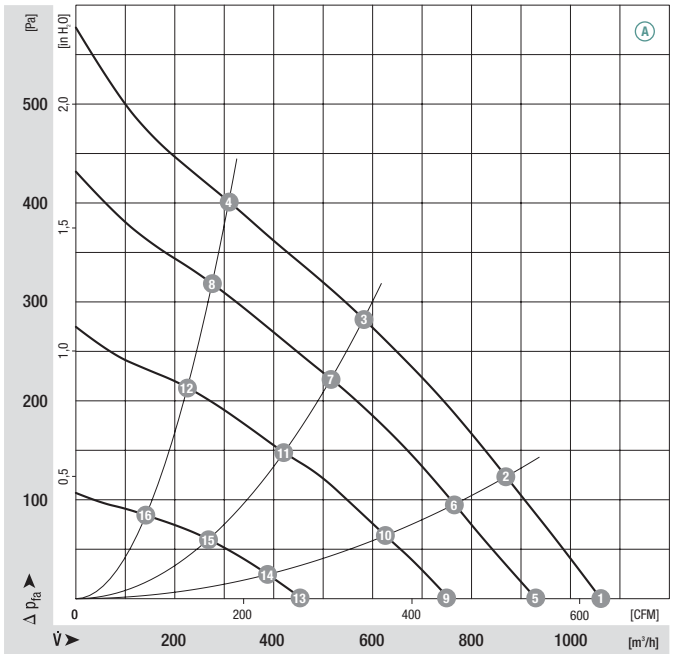
## Nominal data

| Type | Motor | Curve | Nominal voltage | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 601 |
| **R3G 220** | M3G 055-CF | Ⓐ | 1~ 230 | 50/60 | 3030 | 105 | 0.80 | -25 to +60 | H1) |

subject to alterations

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

## Curves

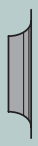



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 3030 | 80 | 0.60 | 71 | — |
| Ⓐ 2 | 2880 | 93 | 0.70 | 68 | 57 |
| Ⓐ 3 | 2750 | 102 | 0.75 | 62 | 64 |
| Ⓐ 4 | 2800 | 99 | 0.75 | 66 | 48 |
| Ⓐ 5 | 2660 | 54 | 0.40 | 69 | — |
| Ⓐ 6 | 2540 | 64 | 0.50 | 66 | 56 |
| Ⓐ 7 | 2450 | 73 | 0.55 | 59 | 64 |
| Ⓐ 8 | 2500 | 70 | 0.55 | 63 | 48 |
| Ⓐ 9 | 2150 | 30 | 0.25 | 65 | — |
| Ⓐ 10 | 2070 | 36 | 0.30 | 62 | 54 |
| Ⓐ 11 | 2010 | 41 | 0.30 | 55 | 62 |
| Ⓐ 12 | 2060 | 39 | 0.30 | 57 | 48 |
| Ⓐ 13 | 1340 | 10 | 0.10 | 58 | — |
| Ⓐ 14 | 1310 | 12 | 0.10 | 55 | 38 |
| Ⓐ 15 | 1280 | 13 | 0.10 | 48 | 48 |
| Ⓐ 16 | 1300 | 13 | 0.10 | 45 | 36 |

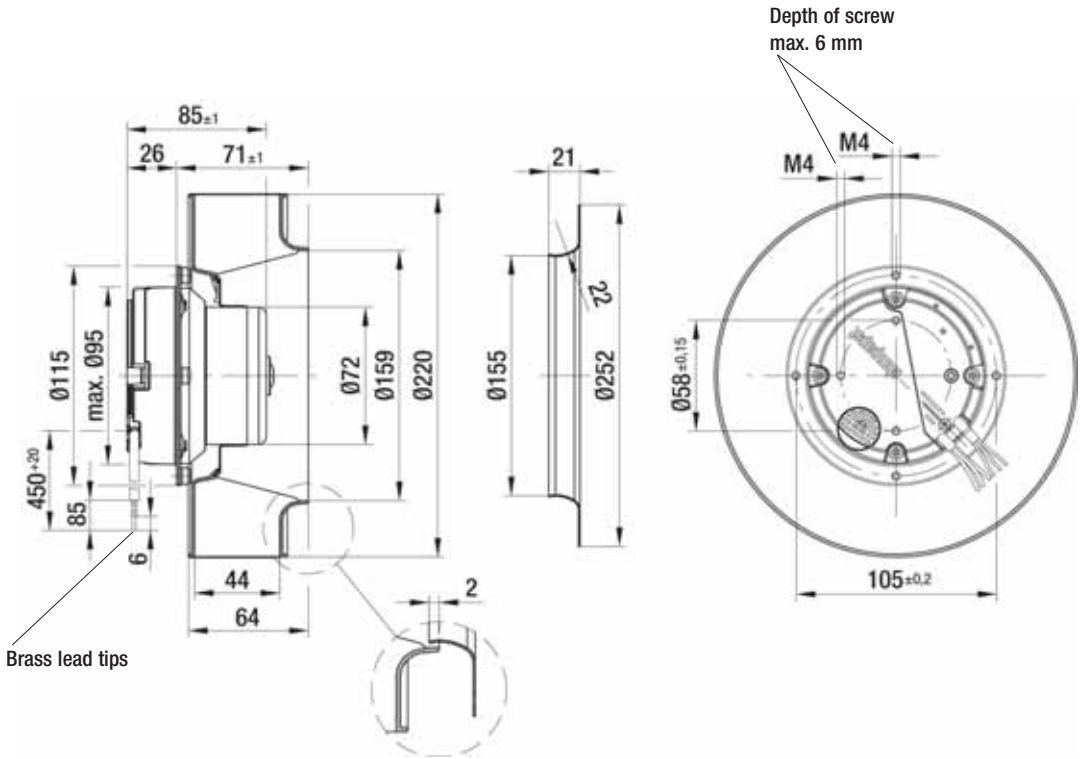


ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** UL, CSA, CCC, GOST are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 220-AD17 -02 | 1.4 | 09609-2-4013 |



# EC centrifugal fan

backward curved, Ø 220

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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

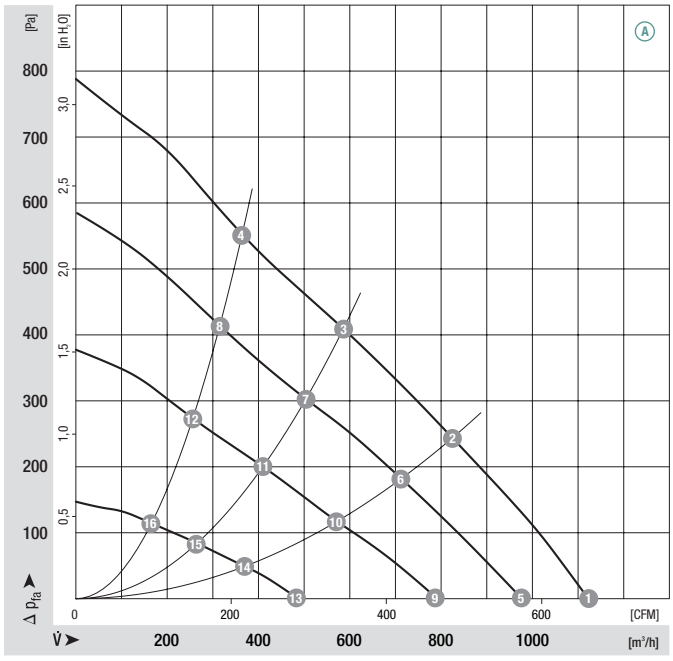
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 603 |
| **R3G 220** | M3G 074-CF | Ⓐ | 1~ 100-130 | 50/60 | 3590 | 160 | 2.50 | -25 to +60 | J1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

## Curves



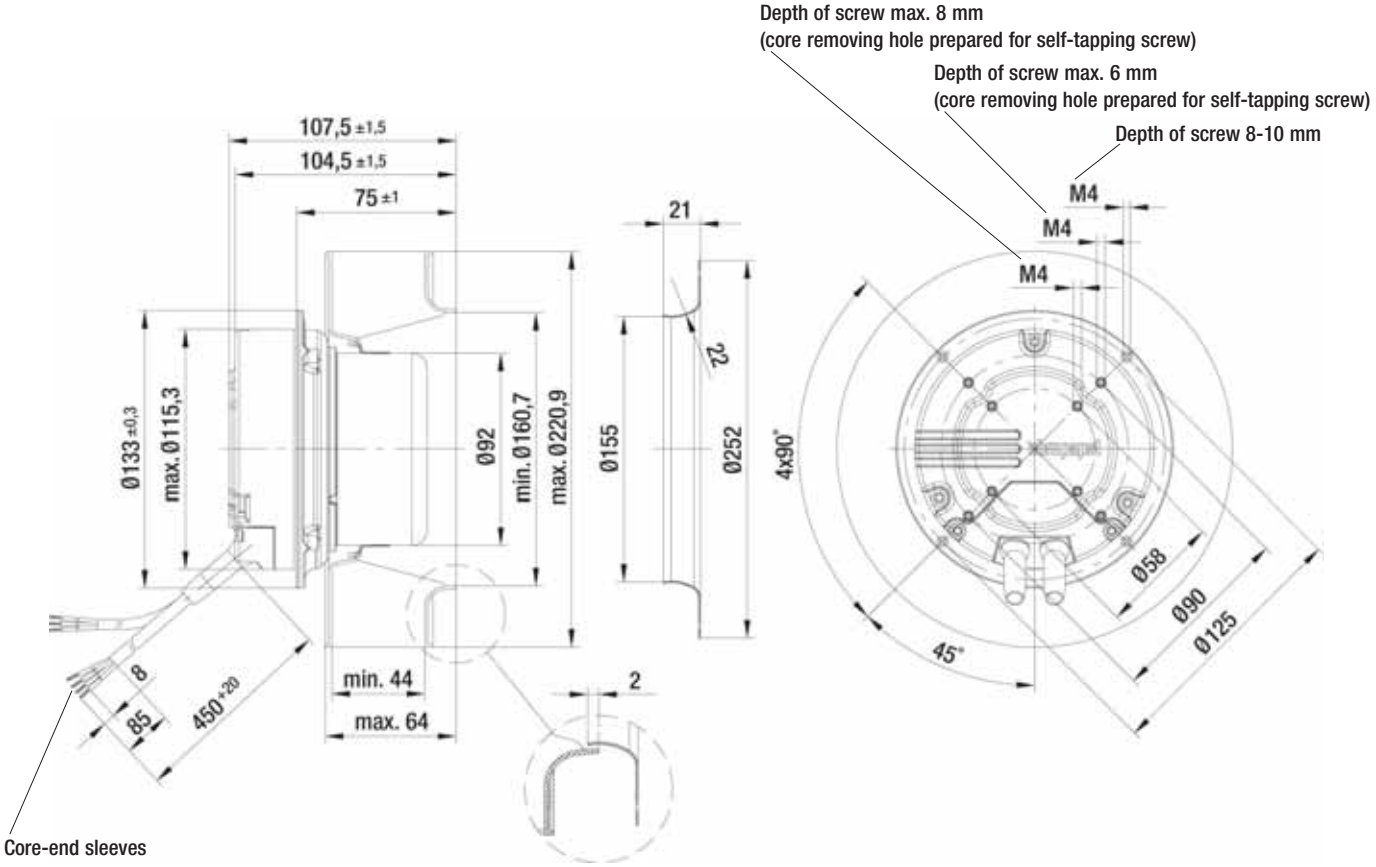

| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 3590 | 158 | 2.00 | 74 | — |
| Ⓐ 2 | 3360 | 164 | 2.10 | 70 | 47 |
| Ⓐ 3 | 3260 | 160 | 2.00 | 66 | 58 |
| Ⓐ 4 | 3330 | 164 | 2.10 | 71 | 47 |
| Ⓐ 5 | 3110 | 106 | 1.40 | 72 | — |
| Ⓐ 6 | 2890 | 110 | 1.40 | 66 | 45 |
| Ⓐ 7 | 2810 | 108 | 1.40 | 62 | 54 |
| Ⓐ 8 | 2870 | 114 | 1.50 | 66 | 44 |
| Ⓐ 9 | 2510 | 62 | 0.90 | 68 | — |
| Ⓐ 10 | 2350 | 60 | 0.80 | 62 | 43 |
| Ⓐ 11 | 2280 | 60 | 0.80 | 56 | 52 |
| Ⓐ 12 | 2330 | 61 | 0.90 | 60 | 44 |
| Ⓐ 13 | 1590 | 21 | 0.30 | 60 | — |
| Ⓐ 14 | 1520 | 23 | 0.30 | 52 | 31 |
| Ⓐ 15 | 1470 | 21 | 0.30 | 46 | 42 |
| Ⓐ 16 | 1500 | 21 | 0.30 | 50 | 34 |



ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA, CCC, GOST are applied for

| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| **R3G 220-AE70 -01** | 2.2 | 09609-2-4013 |






Inlet nozzle p. 550
Electr. connection p. 603

# EC centrifugal fan

backward curved, Ø 220

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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

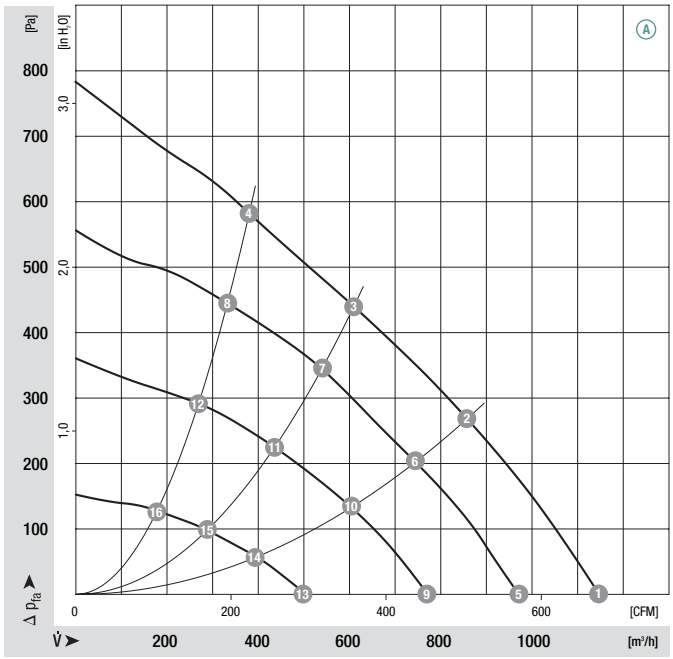
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 603 |
| **R3G 220** | M3G 074-CF | Ⓐ | 1~ 200-277 | 50/60 | 3560 | 170 | 1.20 | -25 to +60 | J1) |

subject to alterations

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

## Curves

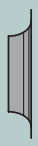



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 3560 | 151 | 1.10 | 76 | — |
| Ⓐ 2 | 3400 | 172 | 1.20 | 70 | 51 |
| Ⓐ 3 | 3320 | 166 | 1.20 | 67 | 53 |
| Ⓐ 4 | 3440 | 173 | 1.20 | 71 | 44 |
| Ⓐ 5 | 3080 | 103 | 0.80 | 71 | — |
| Ⓐ 6 | 3010 | 120 | 0.90 | 67 | 49 |
| Ⓐ 7 | 3000 | 123 | 0.90 | 63 | 53 |
| Ⓐ 8 | 3035 | 117 | 0.90 | 67 | 43 |
| Ⓐ 9 | 2500 | 62 | 0.50 | 67 | — |
| Ⓐ 10 | 2435 | 66 | 0.50 | 63 | 46 |
| Ⓐ 11 | 2430 | 69 | 0.50 | 58 | 52 |
| Ⓐ 12 | 2455 | 71 | 0.50 | 61 | 41 |
| Ⓐ 13 | 1625 | 23 | 0.20 | 60 | — |
| Ⓐ 14 | 1595 | 24 | 0.20 | 54 | 49 |
| Ⓐ 15 | 1595 | 26 | 0.20 | 48 | 52 |
| Ⓐ 16 | 1605 | 24 | 0.20 | 51 | 45 |

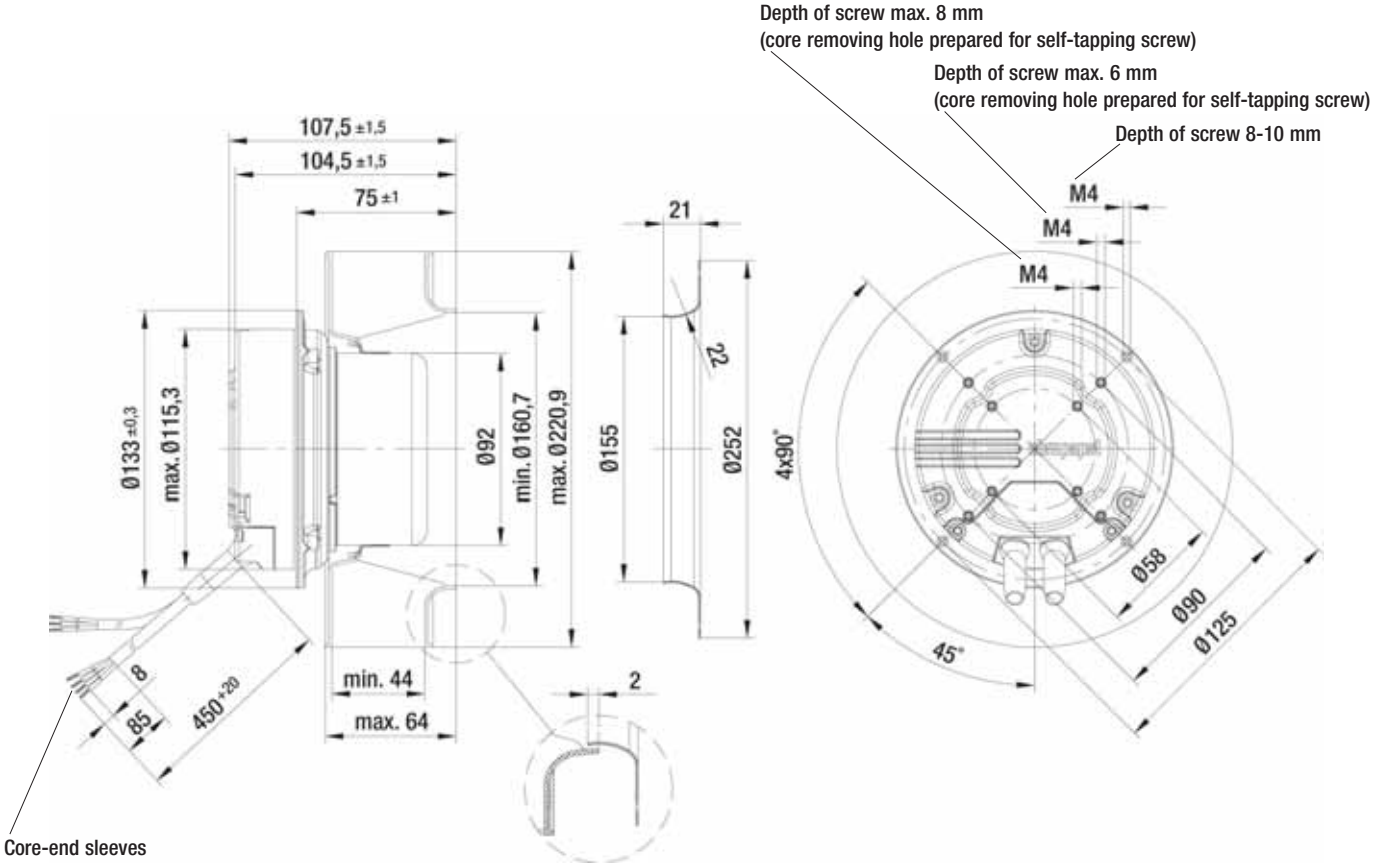


ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA; CCC, GOST are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 220-AE50 -01 | 2.2 | 09609-2-4013 |



# EC centrifugal fan

backward curved, Ø 225

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

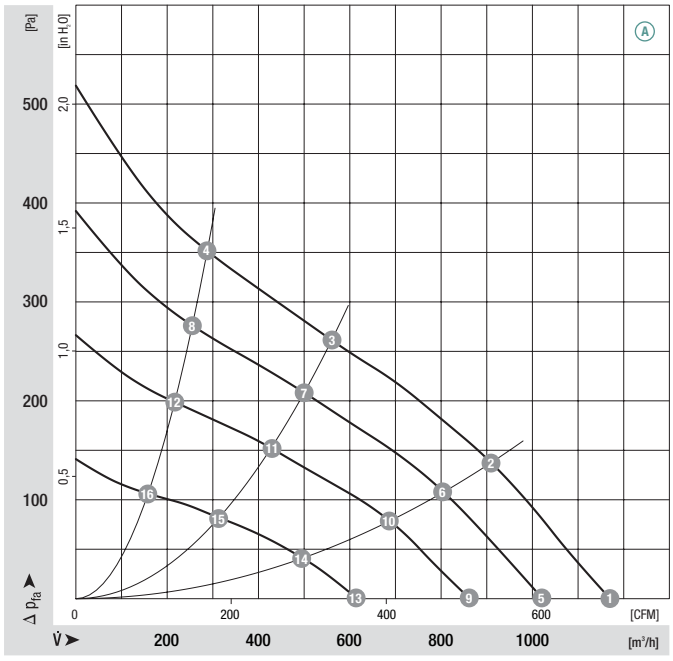
## Nominal data

| Type | Motor | Curve | Nominal voltage | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 601 |
| **R3G 225** | M3G 055-CF | Ⓐ | 1~ 230 | 50/60 | 2500 | 95 | 0.75 | -25 to +60 | H1) |

subject to alterations

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

## Curves

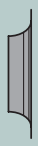



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2500 | 80 | 0.60 | 69 | — |
| Ⓐ 2 | 2380 | 88 | 0.65 | 62 | 60 |
| Ⓐ 3 | 2290 | 94 | 0.70 | 57 | 61 |
| Ⓐ 4 | 2410 | 84 | 0.65 | 62 | 45 |
| Ⓐ 5 | 2190 | 56 | 0.45 | 66 | — |
| Ⓐ 6 | 2110 | 61 | 0.45 | 60 | 61 |
| Ⓐ 7 | 2050 | 66 | 0.50 | 54 | 61 |
| Ⓐ 8 | 2140 | 60 | 0.45 | 60 | 45 |
| Ⓐ 9 | 1830 | 34 | 0.25 | 62 | — |
| Ⓐ 10 | 1790 | 38 | 0.30 | 57 | 60 |
| Ⓐ 11 | 1750 | 41 | 0.30 | 51 | 61 |
| Ⓐ 12 | 1810 | 36 | 0.30 | 54 | 44 |
| Ⓐ 13 | 1350 | 16 | 0.15 | 56 | — |
| Ⓐ 14 | 1320 | 17 | 0.15 | 50 | 50 |
| Ⓐ 15 | 1290 | 19 | 0.15 | 45 | 53 |
| Ⓐ 16 | 1330 | 16 | 0.15 | 45 | 39 |

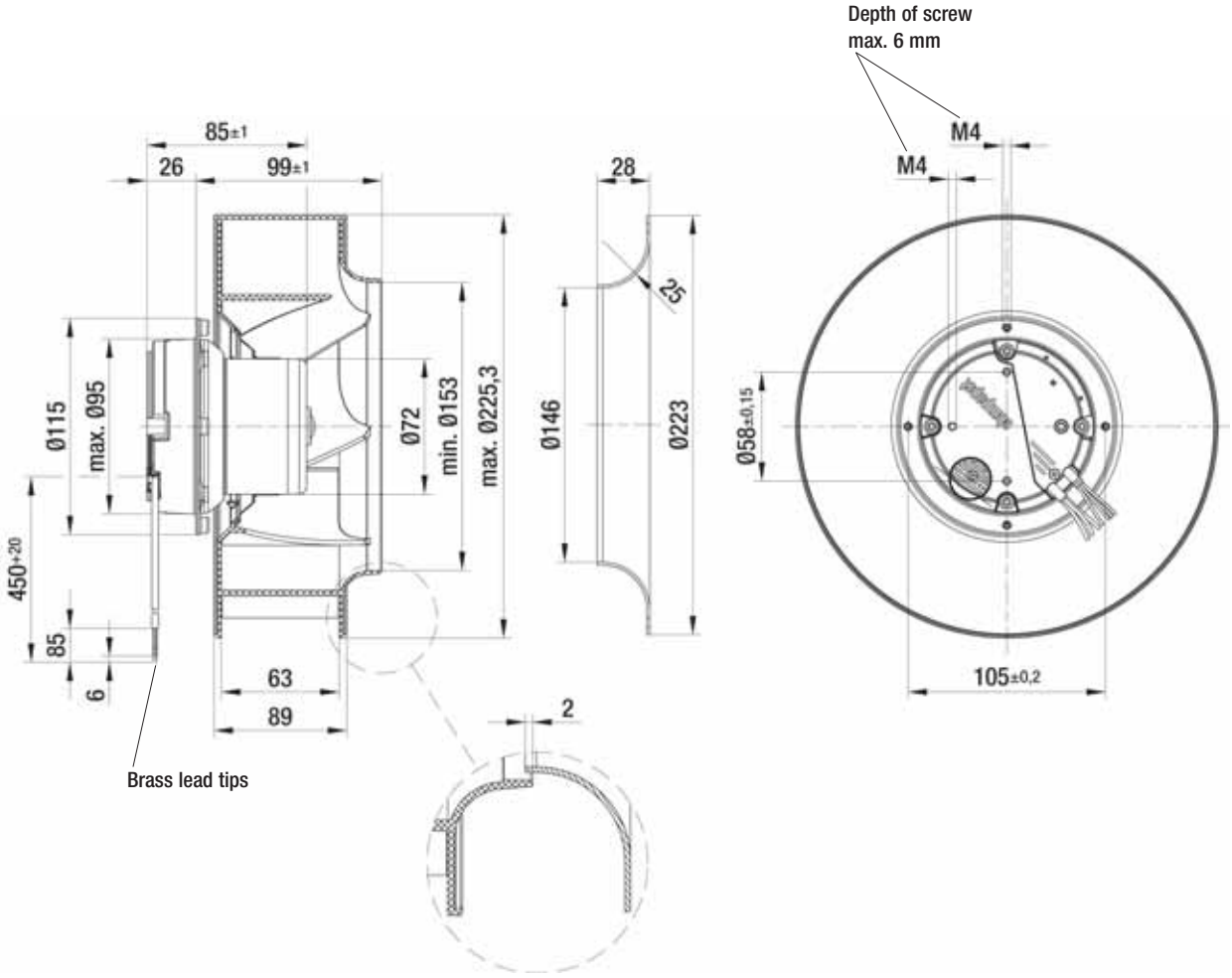


ebmpapst

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** UL, CSA, CCC, GOST are applied for

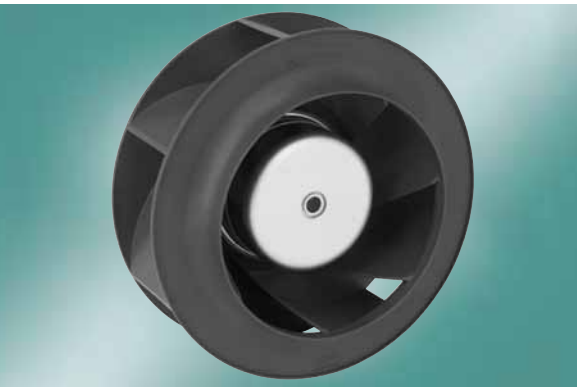


| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 225-AE11 -02 | 1.5 | 96358-2-4013 |



# EC centrifugal fan

backward curved, Ø 225



- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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

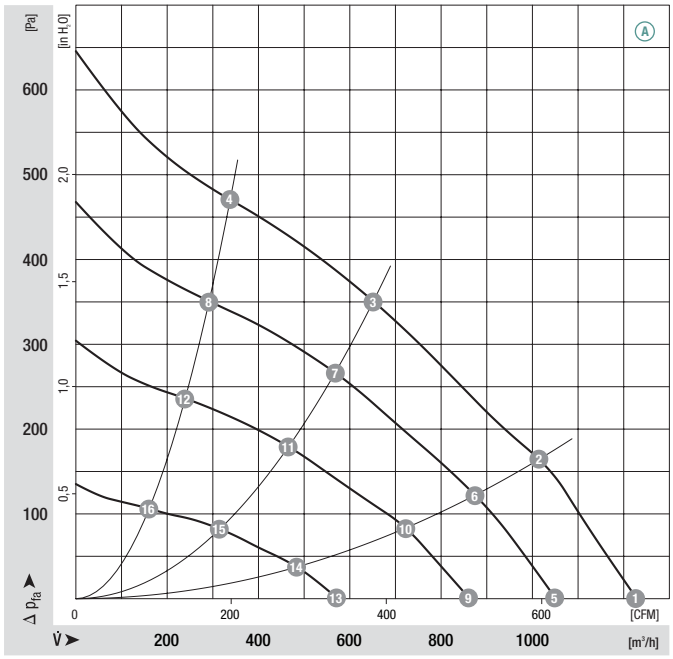
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 603 |
| **R3G 225** | M3G 074-CF | Ⓐ | 1~ 100-130 | 50/60 | 2850 | 160 | 2.20 | -25 to +60 | J1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

## Curves

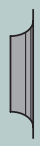



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2850 | 131 | 1.70 | 70 | — |
| Ⓐ 2 | 2800 | 149 | 1.90 | 67 | 50 |
| Ⓐ 3 | 2760 | 155 | 2.00 | 62 | 59 |
| Ⓐ 4 | 2845 | 136 | 1.70 | 66 | 45 |
| Ⓐ 5 | 2460 | 84 | 1.10 | 67 | — |
| Ⓐ 6 | 2420 | 95 | 1.30 | 63 | 50 |
| Ⓐ 7 | 2410 | 102 | 1.30 | 59 | 58 |
| Ⓐ 8 | 2460 | 91 | 1.20 | 63 | 44 |
| Ⓐ 9 | 2020 | 51 | 0.70 | 63 | — |
| Ⓐ 10 | 1990 | 58 | 0.80 | 61 | 46 |
| Ⓐ 11 | 1980 | 60 | 0.80 | 54 | 56 |
| Ⓐ 12 | 2010 | 52 | 0.70 | 57 | 42 |
| Ⓐ 13 | 1350 | 20 | 0.30 | 56 | — |
| Ⓐ 14 | 1340 | 21 | 0.30 | 52 | 37 |
| Ⓐ 15 | 1340 | 23 | 0.40 | 44 | 45 |
| Ⓐ 16 | 1350 | 21 | 0.30 | 35 | 32 |

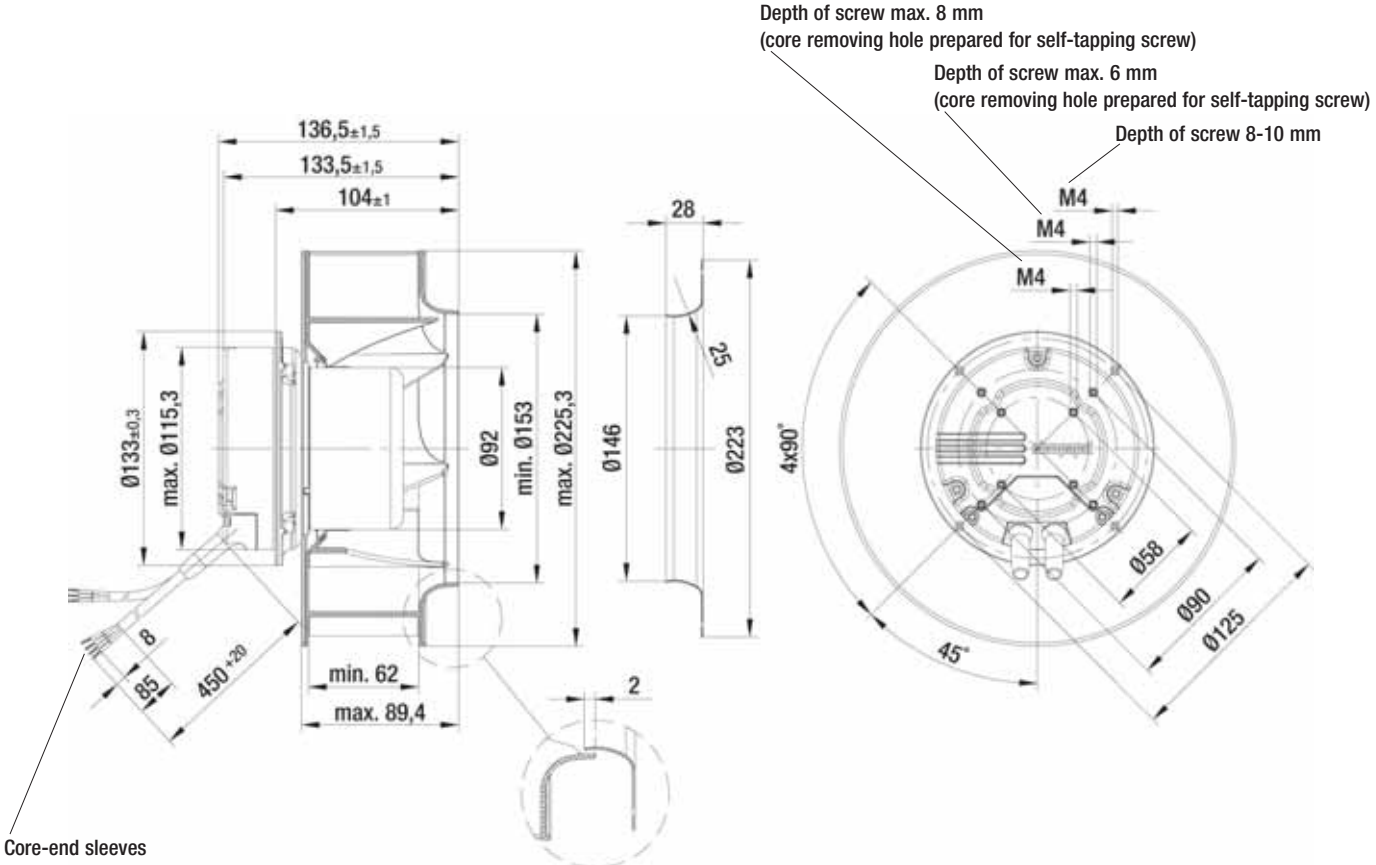


ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA, CCC, GOST are applied for

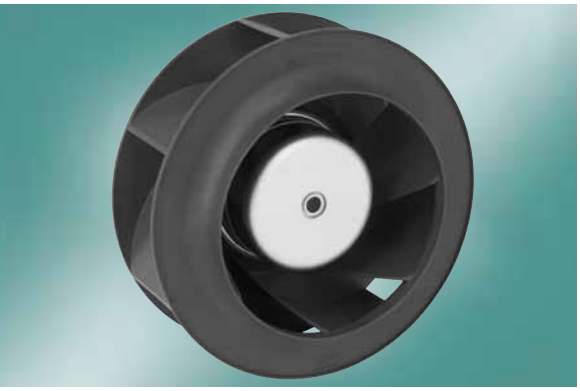


| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 225-AH71 -01 | 2.3 | 96358-2-4013 |



# EC centrifugal fan

backward curved, Ø 225



- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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

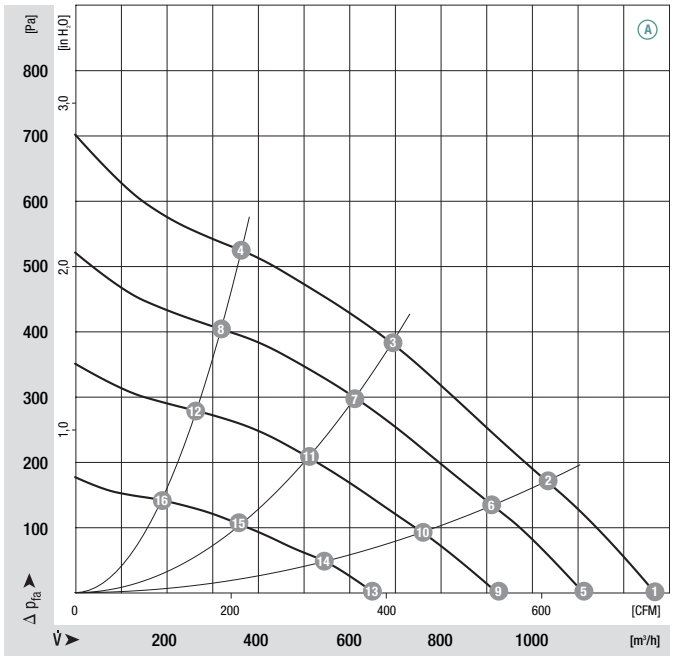
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 603 |
| **R3G 225** | M3G 074-CF | Ⓐ | 1~ 200-277 | 50/60 | 3010 | 165 | 1.20 | -25 to +60 | J1) |

subject to alterations

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

## Curves

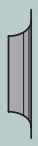



| | | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|---|
| Ⓐ | 1 | 3010 | 139 | 1.00 | 71 | — |
| Ⓐ | 2 | 2930 | 153 | 1.10 | 67 | 43 |
| Ⓐ | 3 | 2900 | 162 | 1.20 | 63 | 52 |
| Ⓐ | 4 | 2970 | 148 | 1.10 | 68 | 39 |
| Ⓐ | 5 | 2640 | 97 | 0.70 | 68 | — |
| Ⓐ | 6 | 2600 | 105 | 0.80 | 64 | 44 |
| Ⓐ | 7 | 2570 | 116 | 0.90 | 60 | 57 |
| Ⓐ | 8 | 2605 | 100 | 0.80 | 65 | 43 |
| Ⓐ | 9 | 2190 | 59 | 0.50 | 65 | — |
| Ⓐ | 10 | 2150 | 67 | 0.50 | 61 | 46 |
| Ⓐ | 11 | 2135 | 71 | 0.60 | 55 | 56 |
| Ⓐ | 12 | 2160 | 62 | 0.50 | 59 | 44 |
| Ⓐ | 13 | 1540 | 27 | 0.20 | 61 | — |
| Ⓐ | 14 | 1530 | 29 | 0.20 | 53 | 43 |
| Ⓐ | 15 | 1520 | 31 | 0.30 | 47 | 55 |
| Ⓐ | 16 | 1530 | 28 | 0.20 | 50 | 42 |

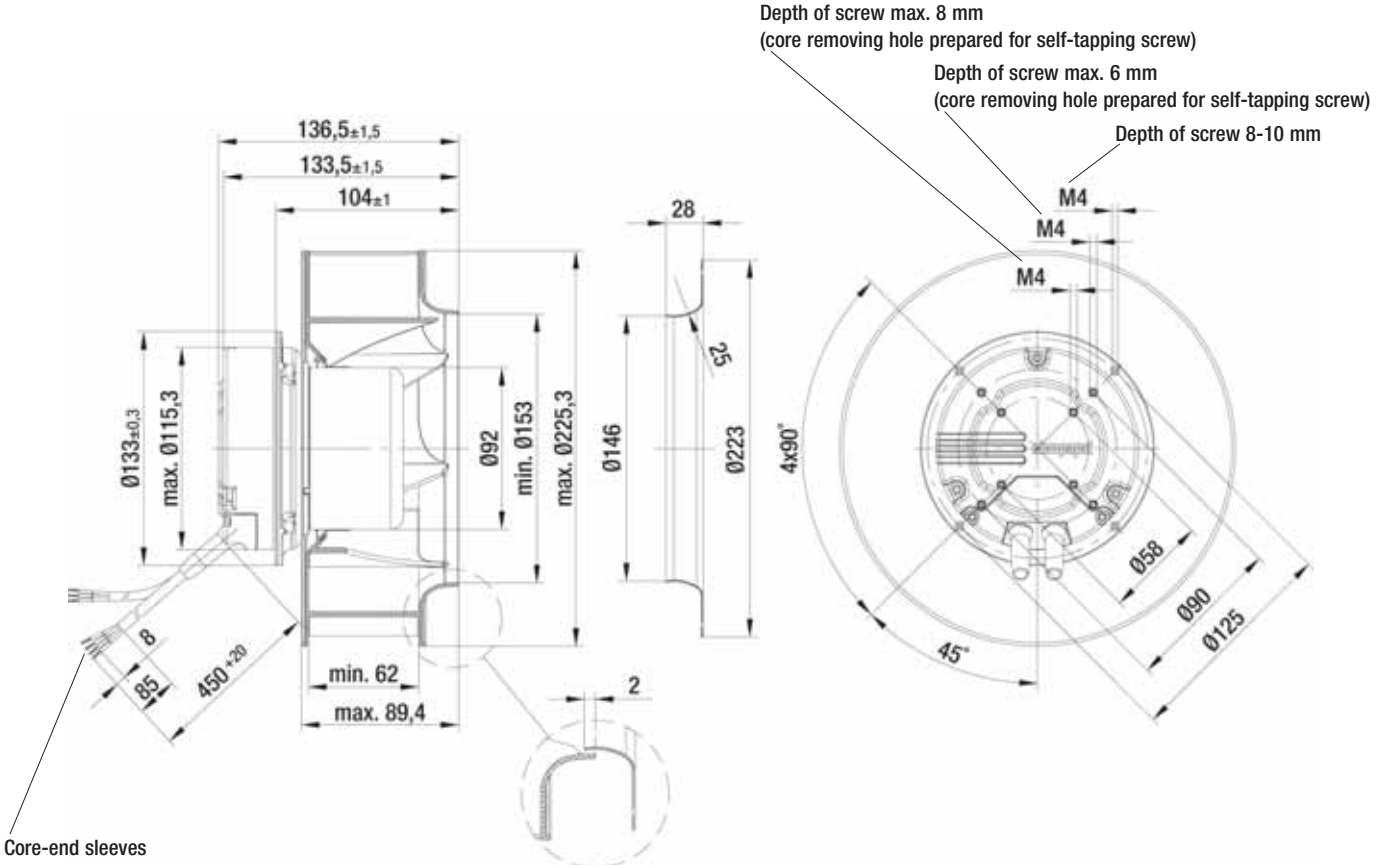


ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA; CCC, GOST are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 225-AH54 -01 | 2.3 | 96358-2-4013 |



# EC centrifugal fan

backward curved, Ø 250

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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

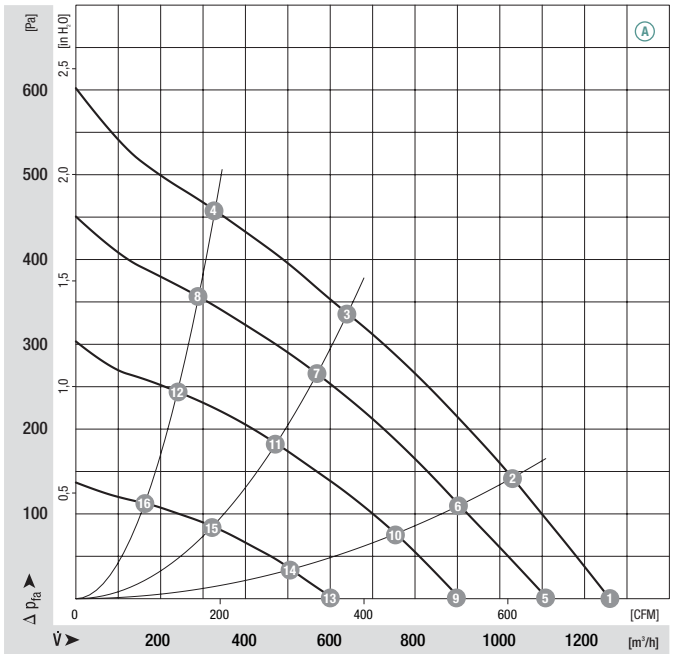
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 603 |
| **R3G 250** | M3G 074-CF | Ⓐ | 1~ 100-130 | 50/60 | 2630 | 145 | 1.90 | -25 to +60 | J1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

## Curves

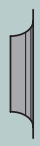



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2630 | 106 | 1.40 | 70 | — |
| Ⓐ 2 | 2540 | 127 | 1.60 | 66 | 57 |
| Ⓐ 3 | 2480 | 140 | 1.80 | 61 | 60 |
| Ⓐ 4 | 2560 | 125 | 1.60 | 67 | 47 |
| Ⓐ 5 | 2315 | 72 | 1.00 | 68 | — |
| Ⓐ 6 | 2240 | 90 | 1.20 | 63 | 54 |
| Ⓐ 7 | 2200 | 99 | 1.40 | 59 | 60 |
| Ⓐ 8 | 2260 | 87 | 1.20 | 63 | 46 |
| Ⓐ 9 | 1900 | 43 | 0.70 | 66 | — |
| Ⓐ 10 | 1870 | 55 | 0.80 | 60 | 51 |
| Ⓐ 11 | 1835 | 60 | 0.90 | 53 | 58 |
| Ⓐ 12 | 1860 | 53 | 0.80 | 58 | 43 |
| Ⓐ 13 | 1290 | 18 | 0.30 | 58 | — |
| Ⓐ 14 | 1275 | 21 | 0.40 | 52 | 40 |
| Ⓐ 15 | 1250 | 22 | 0.40 | 44 | 49 |
| Ⓐ 16 | 1270 | 19 | 0.30 | 48 | 37 |

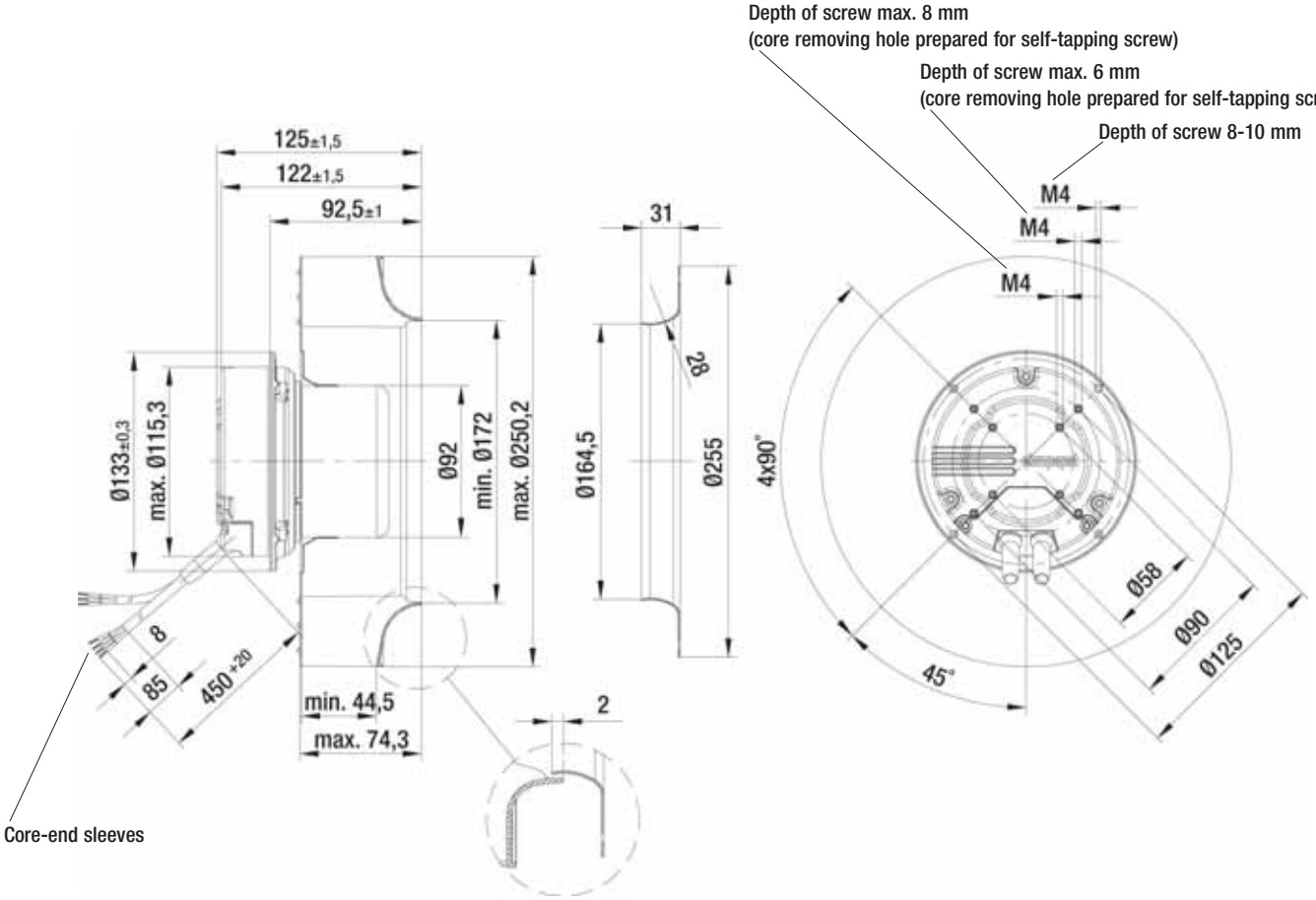


ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA, CCC, GOST are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 250-AH74 -01 | 2.5 | 96359-2-4013 |



# EC centrifugal fan

backward curved, Ø 250

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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

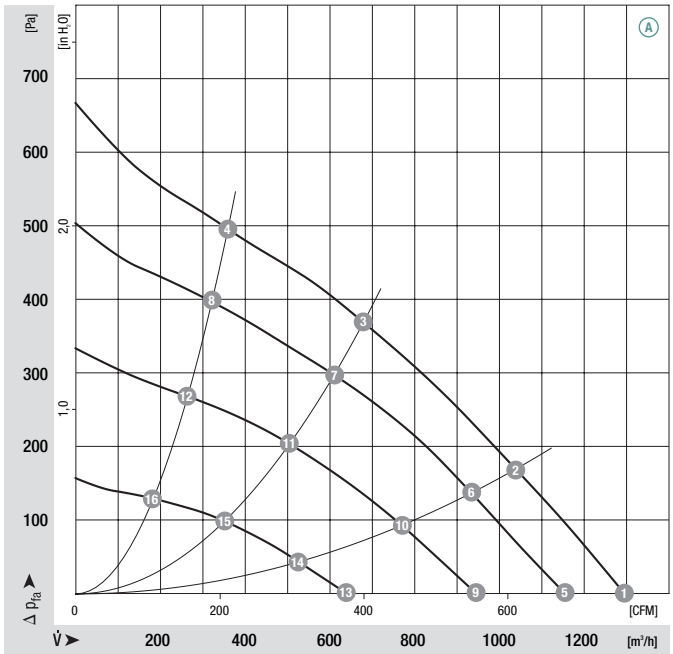
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 603 |
| **R3G 250** | M3G 074-CF | Ⓐ | 1~ 200-277 | 50/60 | 2760 | 160 | 1.20 | -25 to +60 | J1) |

subject to alterations

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

## Curves

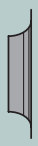



| | | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|---|
| Ⓐ | 1 | 2760 | 123 | 0.90 | 71 | — |
| Ⓐ | 2 | 2660 | 148 | 1.10 | 66 | 54 |
| Ⓐ | 3 | 2600 | 162 | 1.20 | 62 | 57 |
| Ⓐ | 4 | 2680 | 147 | 1.10 | 68 | 42 |
| Ⓐ | 5 | 2460 | 88 | 0.70 | 68 | — |
| Ⓐ | 6 | 2380 | 106 | 0.80 | 63 | 53 |
| Ⓐ | 7 | 2340 | 116 | 0.90 | 59 | 57 |
| Ⓐ | 8 | 2400 | 105 | 0.80 | 65 | 42 |
| Ⓐ | 9 | 2000 | 53 | 0.40 | 65 | — |
| Ⓐ | 10 | 1960 | 62 | 0.50 | 60 | 54 |
| Ⓐ | 11 | 1940 | 69 | 0.50 | 55 | 58 |
| Ⓐ | 12 | 1965 | 61 | 0.50 | 59 | 42 |
| Ⓐ | 13 | 1380 | 22 | 0.20 | 58 | — |
| Ⓐ | 14 | 1360 | 25 | 0.20 | 52 | 50 |
| Ⓐ | 15 | 1350 | 28 | 0.25 | 47 | 57 |
| Ⓐ | 16 | 1360 | 25 | 0.20 | 50 | 43 |

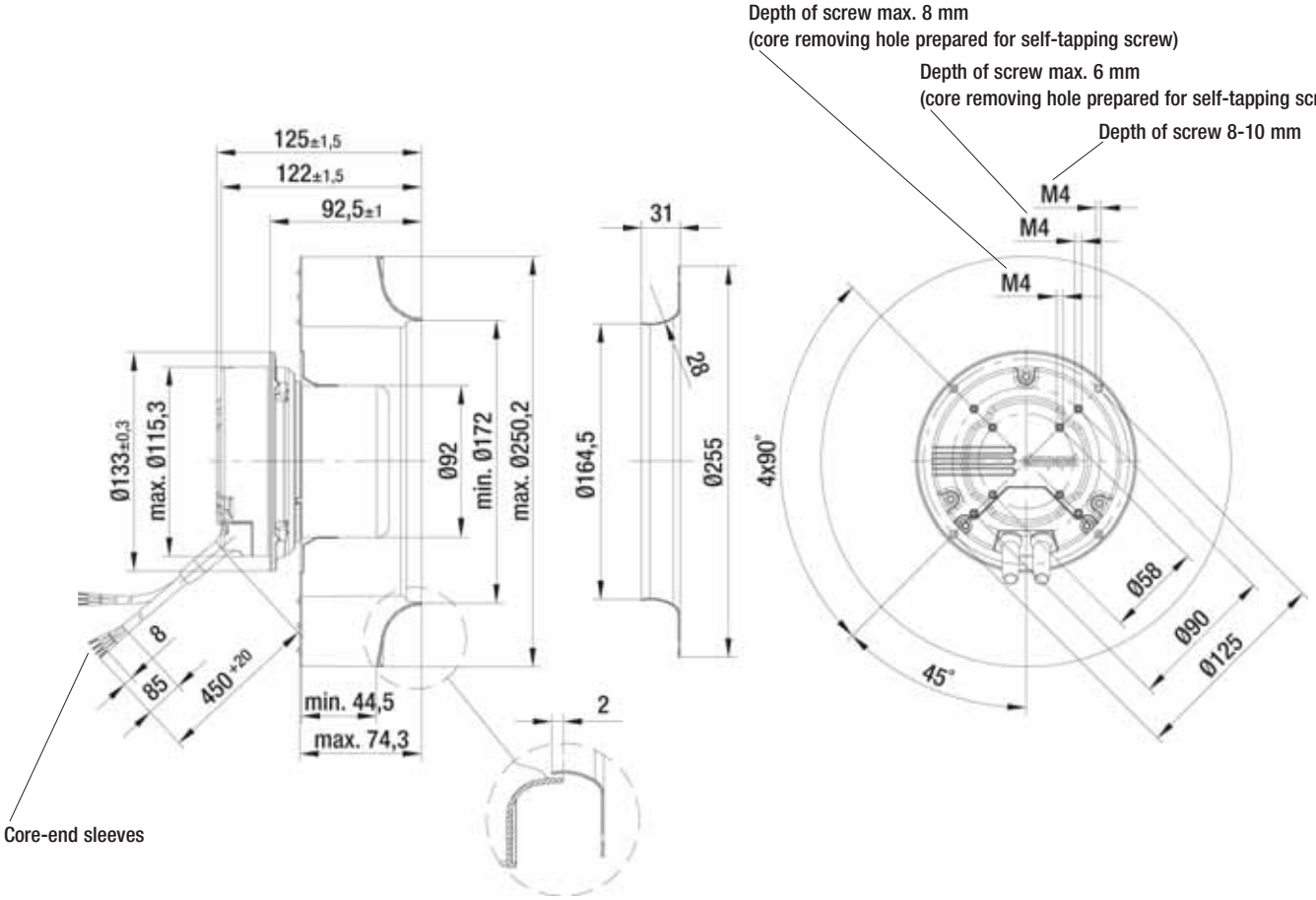


ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA; CCC, GOST are applied for

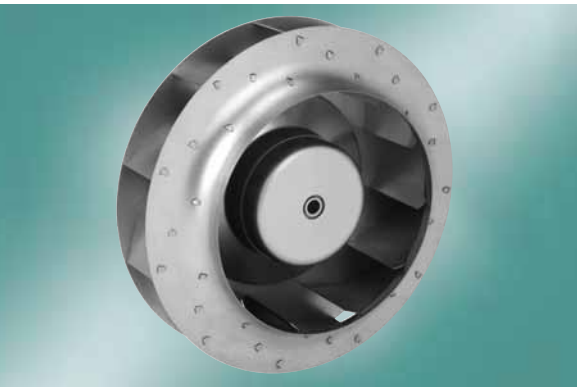


| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 250-AH52 -01 | 2.5 | 96359-2-4013 |



# EC centrifugal fan

backward curved, Ø 250



- **Material:** Impeller: Sheet steel, galvanised
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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

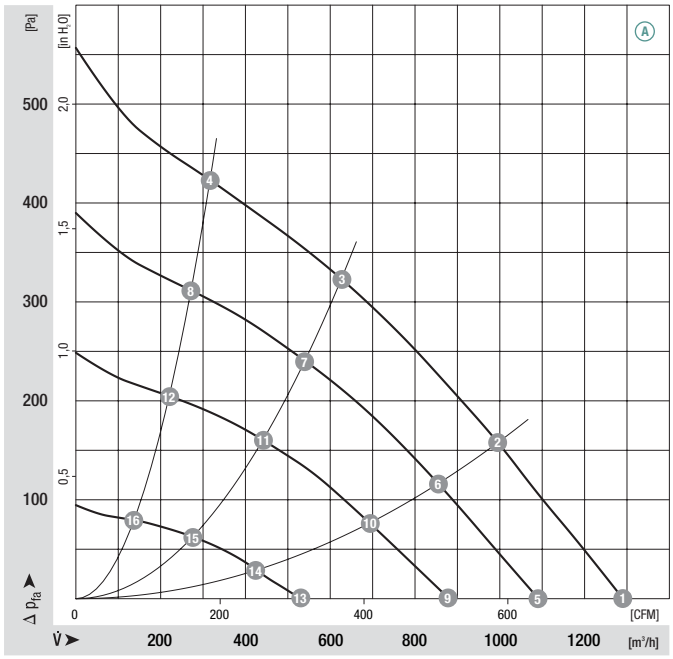
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 603 |
| **R3G 250** | M3G 074-CF | Ⓐ | 1~ 100-130 | 50/60 | 2490 | 125 | 1.80 | -25 to +60 | J1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

## Curves




| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2490 | 97 | 1.30 | 72 | — |
| Ⓐ 2 | 2380 | 119 | 1.60 | 66 | 62 |
| Ⓐ 3 | 2330 | 123 | 1.60 | 60 | 64 |
| Ⓐ 4 | 2410 | 110 | 1.40 | 67 | 47 |
| Ⓐ 5 | 2110 | 60 | 0.80 | 71 | — |
| Ⓐ 6 | 2040 | 78 | 1.00 | 63 | 58 |
| Ⓐ 7 | 2010 | 79 | 1.10 | 58 | 64 |
| Ⓐ 8 | 2070 | 71 | 1.00 | 64 | 45 |
| Ⓐ 9 | 1700 | 35 | 0.50 | 66 | — |
| Ⓐ 10 | 1660 | 44 | 0.60 | 58 | 56 |
| Ⓐ 11 | 1650 | 47 | 0.70 | 52 | 59 |
| Ⓐ 12 | 1670 | 39 | 0.60 | 58 | 43 |
| Ⓐ 13 | 1040 | 11 | 0.20 | 57 | — |
| Ⓐ 14 | 1030 | 14 | 0.20 | 50 | 40 |
| Ⓐ 15 | 1030 | 15 | 0.20 | 41 | 46 |
| Ⓐ 16 | 1040 | 13 | 0.20 | 44 | 31 |



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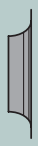
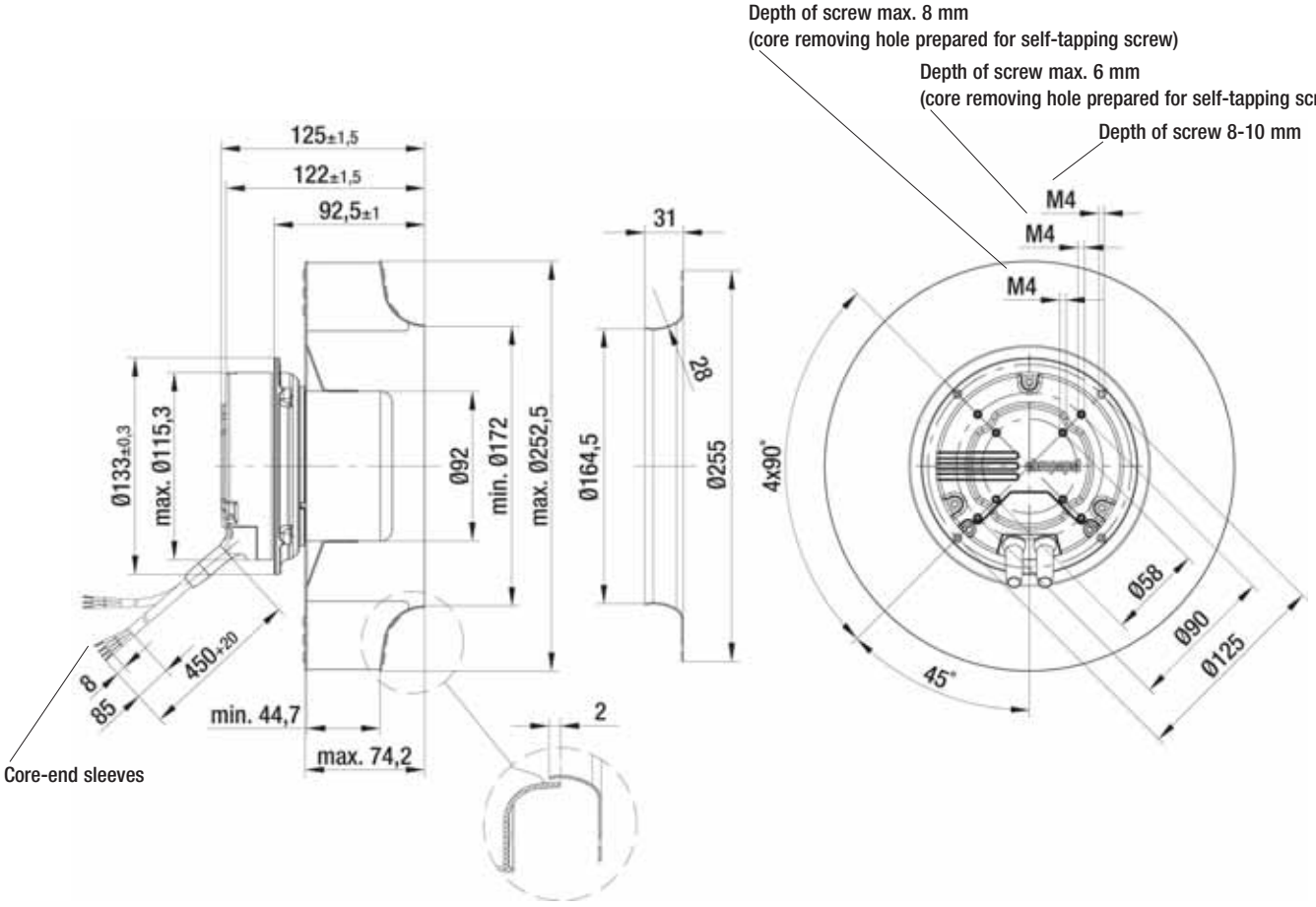
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA, CCC, GOST are applied for

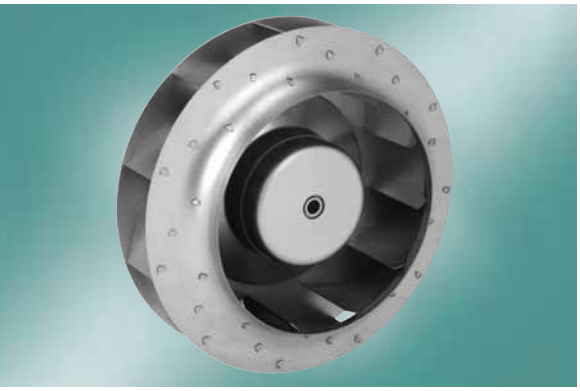


| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 250-AL75 -01 | 2.9 | 96359-2-4013 |



# EC centrifugal fan

backward curved, Ø 250



- **Material:** Impeller: Sheet steel, galvanised
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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

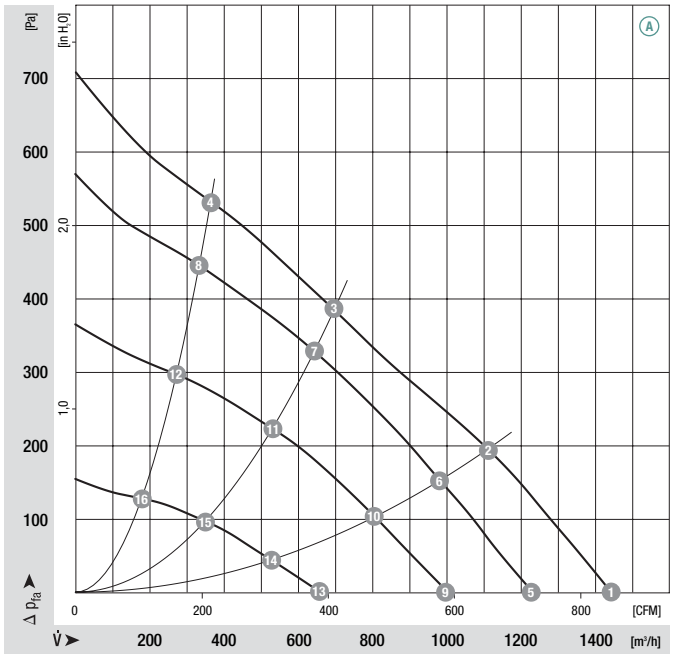
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input(1) | Max. current draw(1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 603 |
| **R3G 250** | M3G 074-CF | Ⓐ | 1~ 200-277 | 50/60 | 2800 | 175 | 1.30 | -25 to +60 | J1) |

subject to alterations

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

## Curves




| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2800 | 142 | 1.10 | 74 | — |
| Ⓐ 2 | 2650 | 164 | 1.25 | 69 | 53 |
| Ⓐ 3 | 2570 | 164 | 1.25 | 63 | 59 |
| Ⓐ 4 | 2720 | 154 | 1.20 | 72 | 44 |
| Ⓐ 5 | 2550 | 104 | 0.80 | 71 | — |
| Ⓐ 6 | 2470 | 124 | 1.00 | 66 | 53 |
| Ⓐ 7 | 2440 | 134 | 1.00 | 61 | 58 |
| Ⓐ 8 | 2510 | 123 | 0.90 | 69 | 44 |
| Ⓐ 9 | 2080 | 62 | 0.50 | 67 | — |
| Ⓐ 10 | 2025 | 74 | 0.60 | 62 | 54 |
| Ⓐ 11 | 2020 | 78 | 0.60 | 56 | 60 |
| Ⓐ 12 | 2050 | 70 | 0.60 | 62 | 43 |
| Ⓐ 13 | 1370 | 24 | 0.20 | 59 | — |
| Ⓐ 14 | 1340 | 27 | 0.20 | 53 | 51 |
| Ⓐ 15 | 1330 | 28 | 0.20 | 46 | 57 |
| Ⓐ 16 | 1340 | 25 | 0.20 | 51 | 44 |



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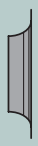
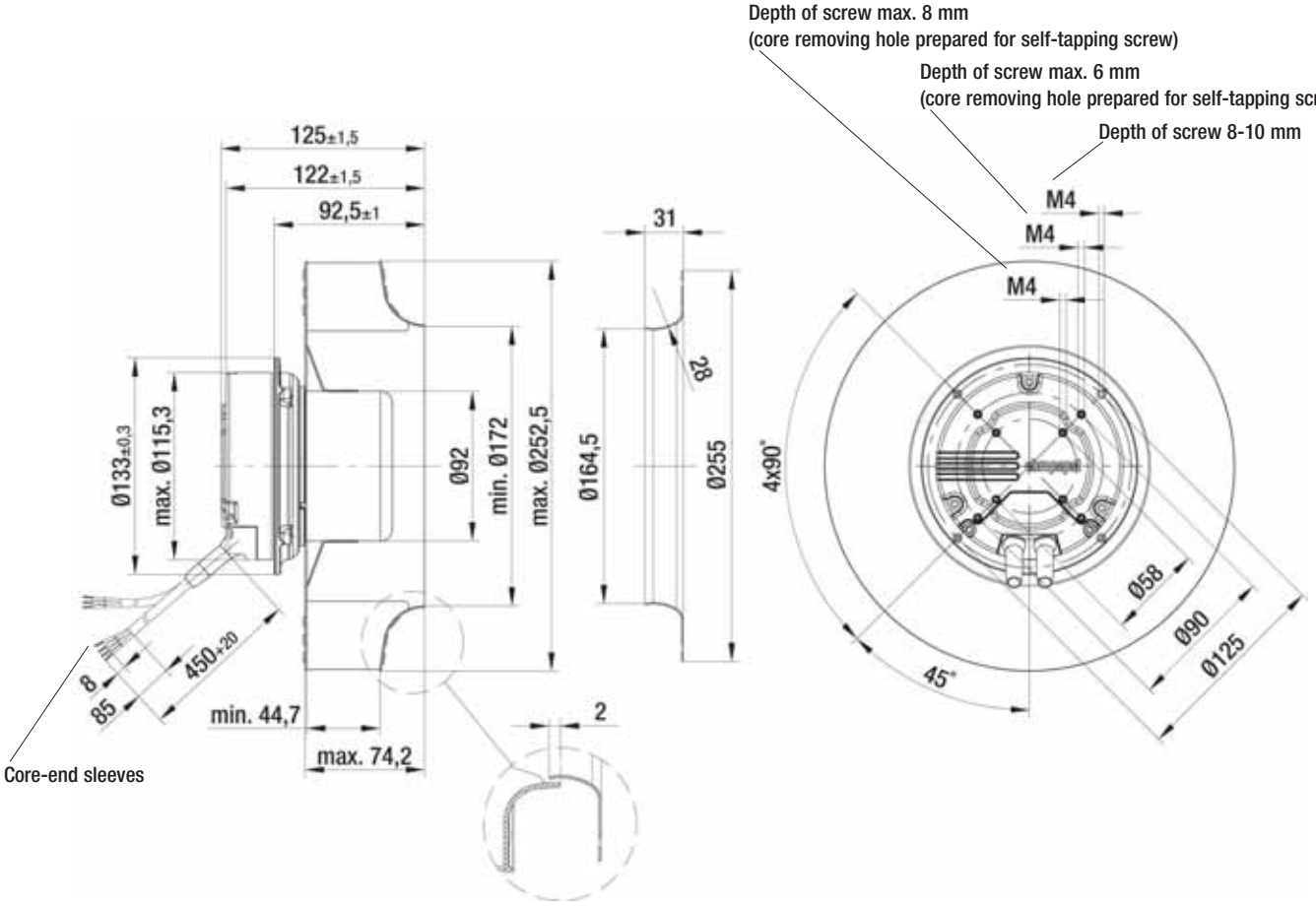
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA; CCC, GOST are applied for

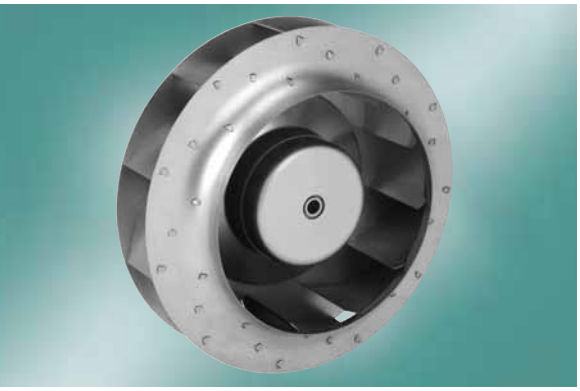


| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 250-AL54 -01 | 2.9 | 96359-2-4013 |



# EC centrifugal fan

backward curved, Ø 250



- **Material:** Impeller: Sheet steel, galvanised
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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

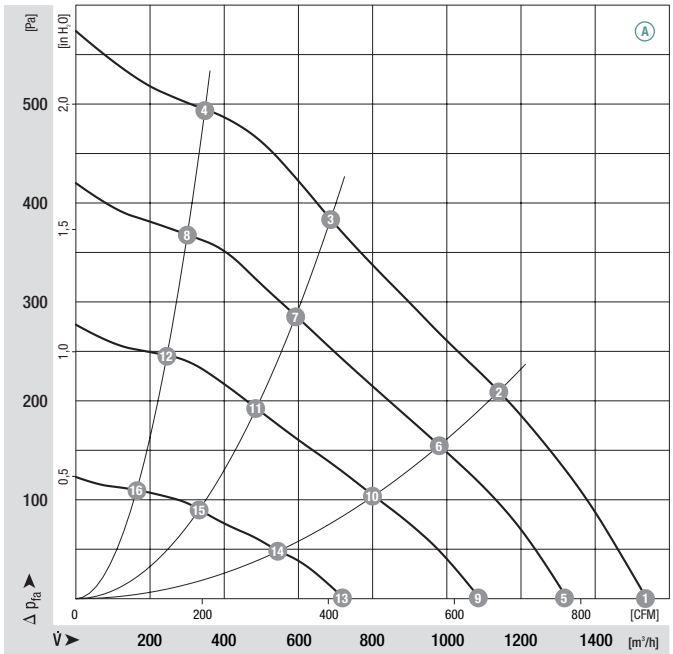
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 603 |
| **R3G 250** | M3G 074-CF | Ⓐ | 1~ 100-130 | 50/60 | 2570 | 170 | 2.20 | -25 to +60 | J1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

## Curves




| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2570 | 147 | 1.90 | 73 | — |
| Ⓐ 2 | 2440 | 167 | 2.10 | 66 | 62 |
| Ⓐ 3 | 2420 | 166 | 2.10 | 62 | 63 |
| Ⓐ 4 | 2580 | 147 | 1.90 | 69 | 44 |
| Ⓐ 5 | 2220 | 106 | 1.30 | 71 | — |
| Ⓐ 6 | 2100 | 108 | 1.40 | 64 | 60 |
| Ⓐ 7 | 2090 | 110 | 1.50 | 60 | 58 |
| Ⓐ 8 | 2220 | 93 | 1.20 | 65 | 45 |
| Ⓐ 9 | 1820 | 59 | 0.80 | 69 | — |
| Ⓐ 10 | 1730 | 67 | 0.90 | 60 | 54 |
| Ⓐ 11 | 1720 | 66 | 0.90 | 54 | 55 |
| Ⓐ 12 | 1810 | 59 | 0.80 | 60 | 39 |
| Ⓐ 13 | 1220 | 23 | 0.30 | 62 | — |
| Ⓐ 14 | 1180 | 27 | 0.40 | 52 | 43 |
| Ⓐ 15 | 1180 | 25 | 0.40 | 44 | 46 |
| Ⓐ 16 | 1210 | 23 | 0.30 | 48 | 30 |



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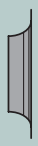
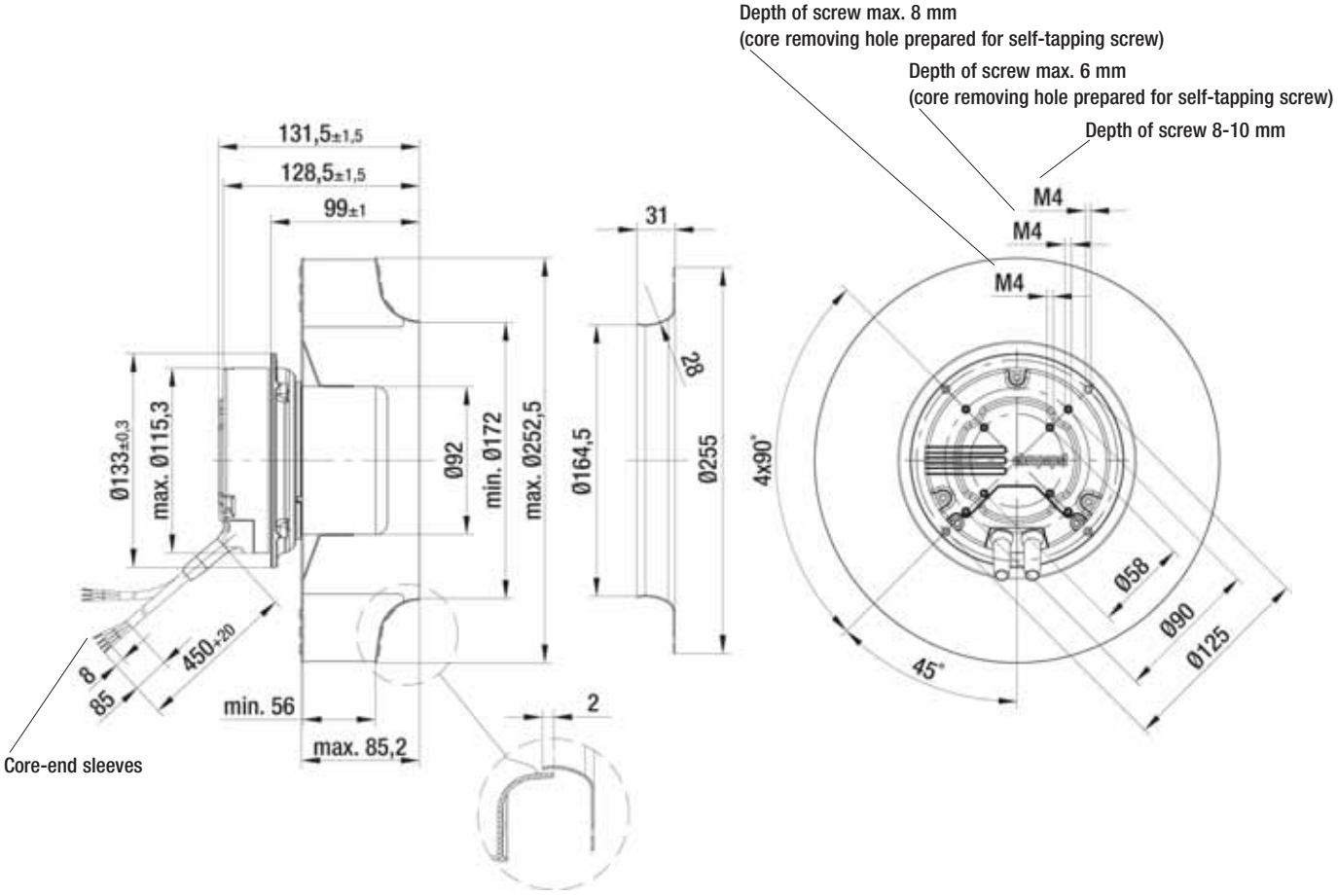
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA, CCC, GOST are applied for

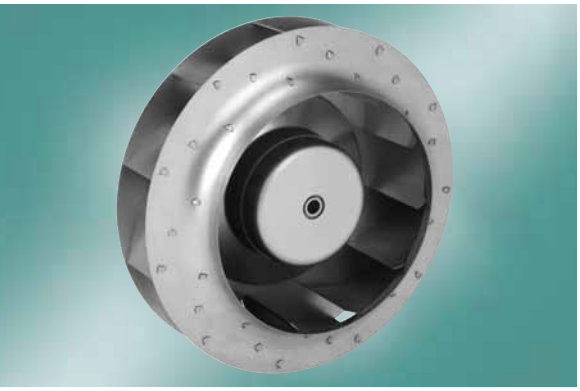


| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 250-AM70-01 | 3.0 | 96359-2-4013 |



# EC centrifugal fan

backward curved, Ø 250



- **Material:** Impeller: Sheet steel, galvanised
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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

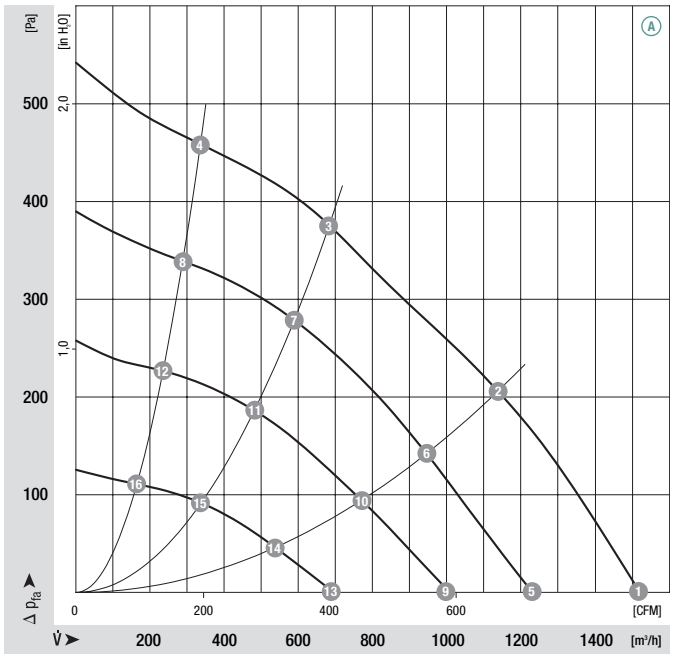
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 603 |
| **R3G 250** | M3G 074-CF | Ⓐ | 1~ 200-277 | 50/60 | 2510 | 178 | 1.40 | -25 to +60 | J1) |

subject to alterations

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

## Curves




| | | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|---|
| Ⓐ | 1 | 2510 | 140 | 1.00 | 73 | — |
| Ⓐ | 2 | 2450 | 166 | 1.20 | 66 | 53 |
| Ⓐ | 3 | 2440 | 172 | 1.20 | 62 | 56 |
| Ⓐ | 4 | 2520 | 143 | 1.00 | 68 | 41 |
| Ⓐ | 5 | 2170 | 99 | 0.75 | 69 | — |
| Ⓐ | 6 | 2140 | 112 | 0.90 | 64 | 52 |
| Ⓐ | 7 | 2130 | 115 | 0.90 | 59 | 54 |
| Ⓐ | 8 | 2170 | 95 | 0.80 | 63 | 40 |
| Ⓐ | 9 | 1770 | 55 | 0.40 | 66 | — |
| Ⓐ | 10 | 1750 | 67 | 0.50 | 58 | 52 |
| Ⓐ | 11 | 1750 | 67 | 0.50 | 54 | 53 |
| Ⓐ | 12 | 1765 | 59 | 0.50 | 59 | 39 |
| Ⓐ | 13 | 1230 | 26 | 0.20 | 59 | — |
| Ⓐ | 14 | 1240 | 27 | 0.30 | 51 | 50 |
| Ⓐ | 15 | 1220 | 29 | 0.30 | 45 | 56 |
| Ⓐ | 16 | 1240 | 27 | 0.30 | 48 | 43 |



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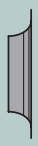
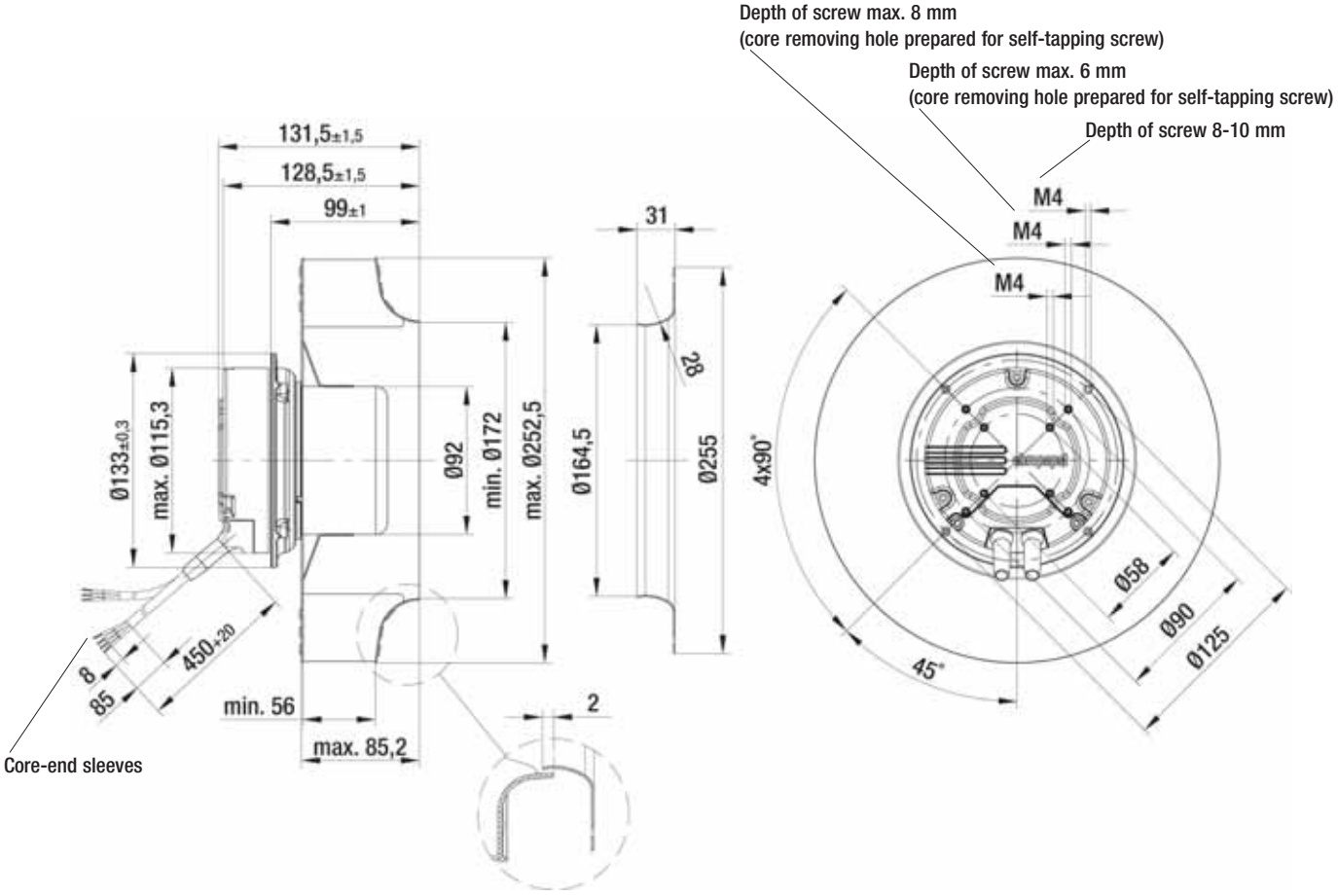
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA; CCC, GOST are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 250-AM50-01 | 3.0 | 96359-2-4013 |



# EC centrifugal fan

backward curved, Ø 250

- **Material:** Impeller: Sheet steel, galvanised
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **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

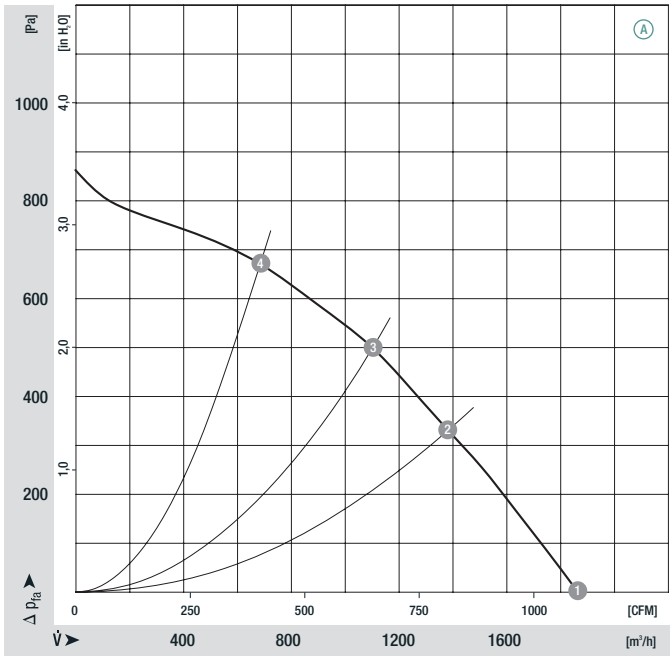
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 605 |
| **R3G 250** | M3G 084-DF | Ⓐ | 1~ 100-130 | 50/60 | 3240 | 350 | 4.20 | -25 to +60 | K1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

## Curves

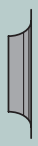



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 3240 | 267 | 3.30 | 77 | — |
| Ⓐ 2 | 3160 | 339 | 4.10 | 73 | 54 |
| Ⓐ 3 | 3165 | 350 | 4.20 | 71 | 58 |
| Ⓐ 4 | 3210 | 314 | 3.80 | 73 | 52 |

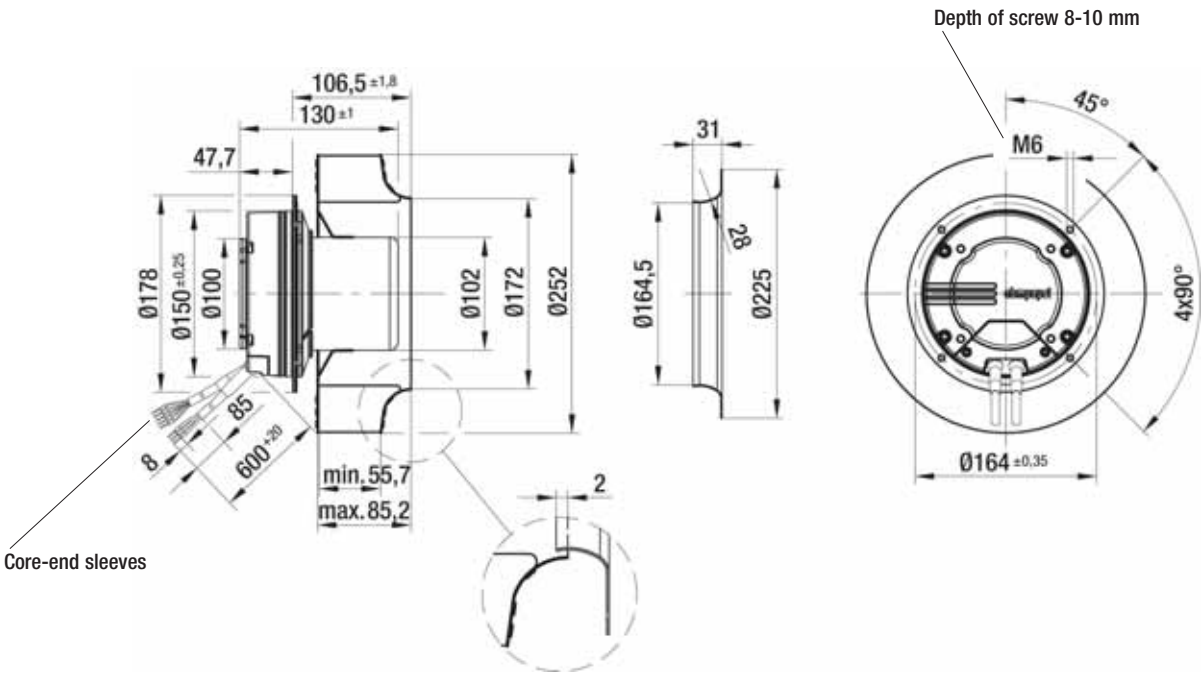


ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **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
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA, CCC, GOST are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 250-AK29 -81 | 4.5 | 96359-2-4013 |



# EC centrifugal fan

backward curved, Ø 250

- **Material:** Impeller: Sheet steel, galvanised
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **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

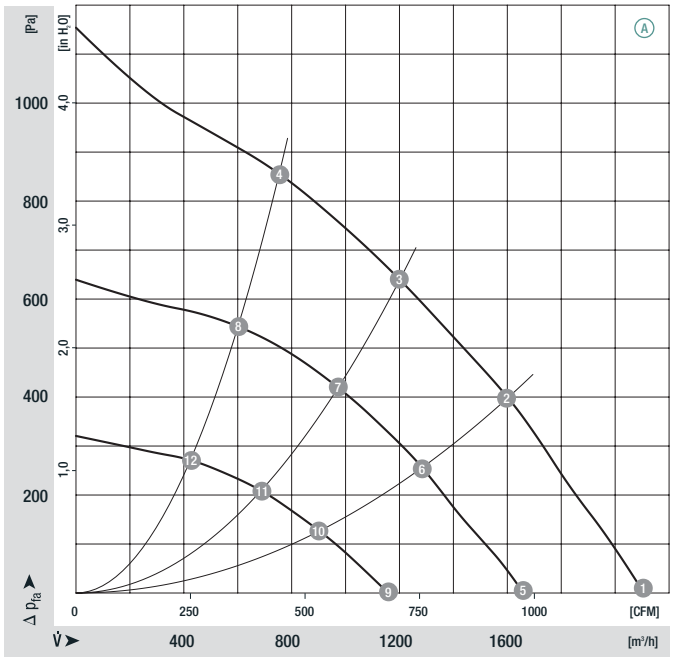
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 605 |
| **R3G 250** | M3G 084-DF | Ⓐ | 1~ 200-277 | 50/60 | 3580 | 485 | 3.00 | -25 to +60 | K1) |

subject to alterations

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

## Curves

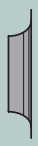



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 3580 | 380 | 2.30 | 80 | — |
| Ⓐ 2 | 3460 | 465 | 3.00 | 77 | 53 |
| Ⓐ 3 | 3460 | 485 | 3.00 | 74 | 58 |
| Ⓐ 4 | 3520 | 440 | 2.40 | 76 | 50 |
| Ⓐ 5 | 2830 | 193 | 1.20 | 75 | — |
| Ⓐ 6 | 2830 | 245 | 1.50 | 70 | 53 |
| Ⓐ 7 | 2830 | 260 | 1.60 | 69 | 58 |
| Ⓐ 8 | 2830 | 225 | 1.40 | 69 | 50 |
| Ⓐ 9 | 2000 | 80 | 0.50 | 68 | — |
| Ⓐ 10 | 2000 | 100 | 0.60 | 62 | 53 |
| Ⓐ 11 | 2000 | 106 | 0.70 | 59 | 58 |
| Ⓐ 12 | 2000 | 94 | 0.60 | 60 | 50 |

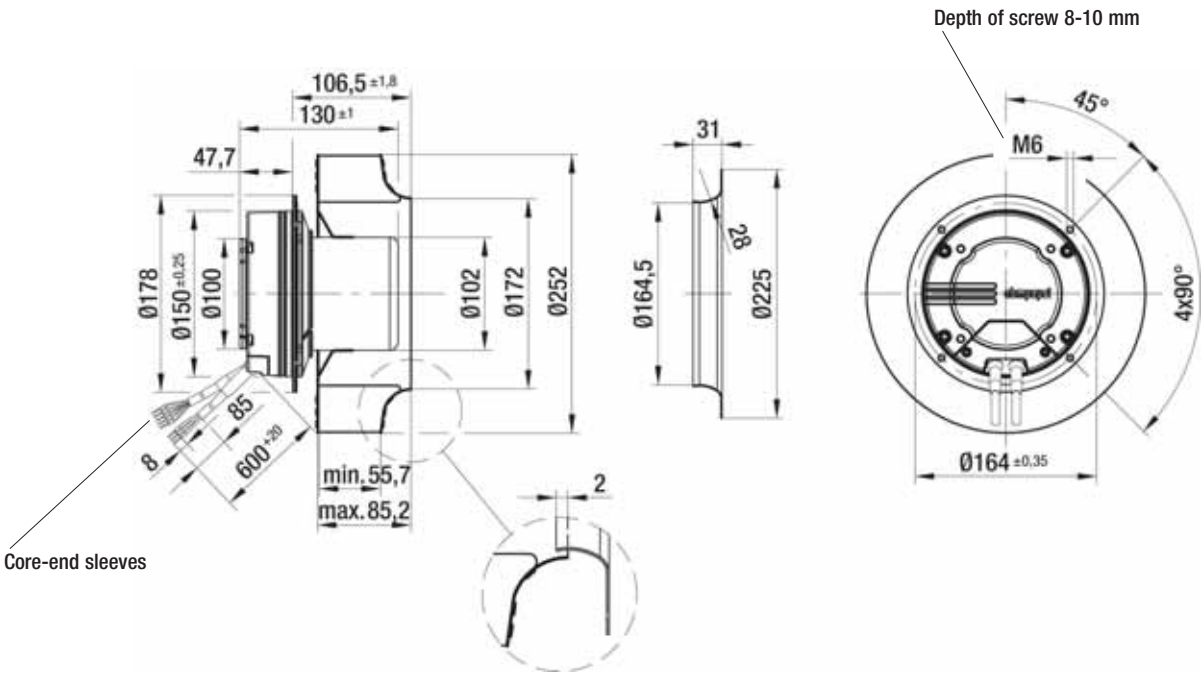


ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **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
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA; CCC, GOST are applied for

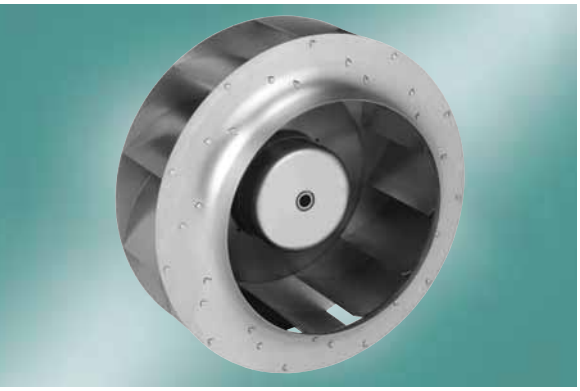


| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 250-AK41 -71 | 4.5 | 96359-2-4013 |



# EC centrifugal fan

backward curved, Ø 280



- **Material:** Impeller: Sheet steel, galvanised
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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

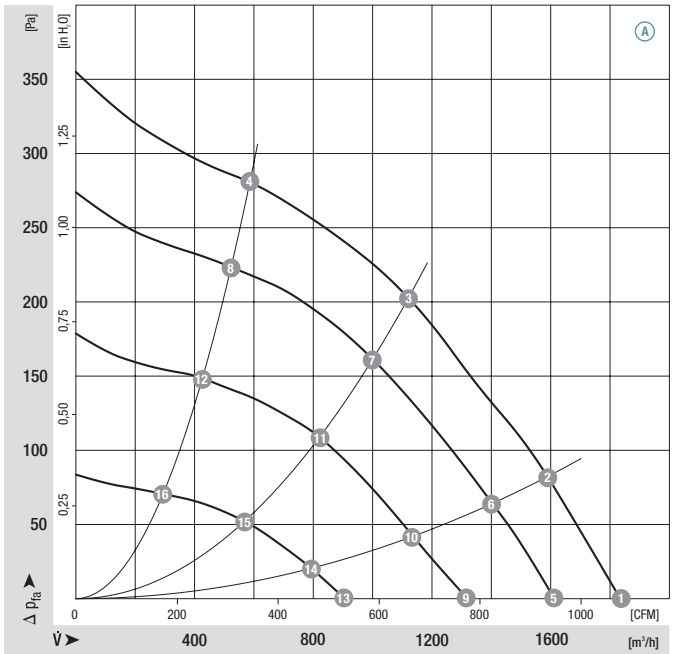
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 603 |
| **R3G 280** | M3G 074-CF | Ⓐ | 1~ 100-130 | 50/60 | 1750 | 145 | 1.90 | -25 to +60 | J1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

## Curves



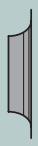

| | | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|---|
| Ⓐ | 1 | 1750 | 107 | 1.40 | 70 | — |
| Ⓐ | 2 | 1710 | 123 | 1.60 | 63 | 51 |
| Ⓐ | 3 | 1675 | 138 | 1.80 | 59 | 67 |
| Ⓐ | 4 | 1720 | 119 | 1.50 | 60 | 53 |
| Ⓐ | 5 | 1550 | 73 | 1.00 | 66 | — |
| Ⓐ | 6 | 1530 | 89 | 1.20 | 61 | 49 |
| Ⓐ | 7 | 1500 | 99 | 1.30 | 56 | 66 |
| Ⓐ | 8 | 1540 | 86 | 1.10 | 57 | 52 |
| Ⓐ | 9 | 1280 | 45 | 0.60 | 62 | — |
| Ⓐ | 10 | 1250 | 51 | 0.70 | 55 | 45 |
| Ⓐ | 11 | 1230 | 58 | 0.80 | 51 | 62 |
| Ⓐ | 12 | 1260 | 50 | 0.70 | 52 | 49 |
| Ⓐ | 13 | 880 | 18 | 0.30 | 57 | — |
| Ⓐ | 14 | 870 | 21 | 0.30 | 51 | 36 |
| Ⓐ | 15 | 870 | 23 | 0.40 | 46 | 51 |
| Ⓐ | 16 | 880 | 20 | 0.30 | 40 | 39 |



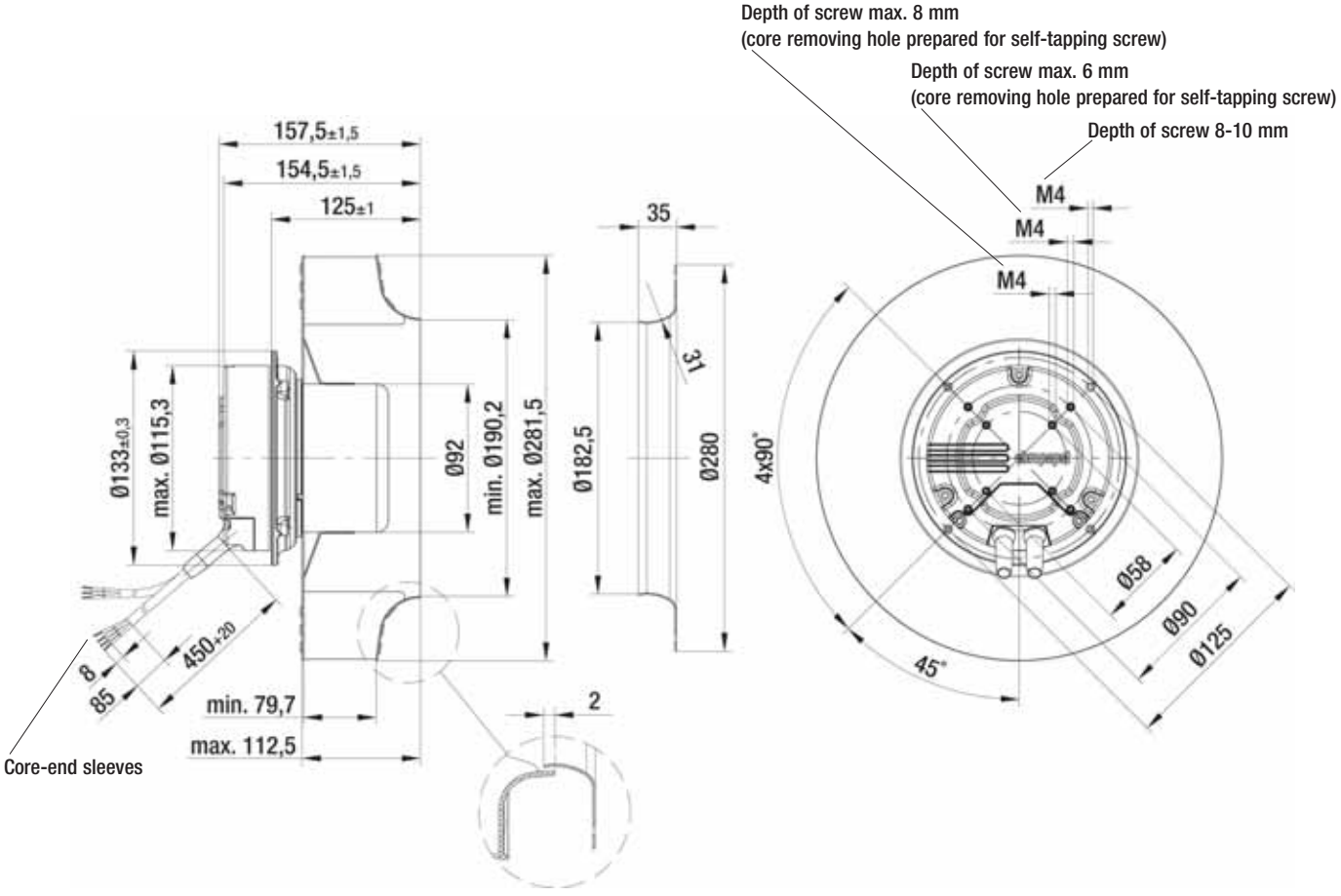
ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA, CCC, GOST are applied for

Mass of centrifugal fan

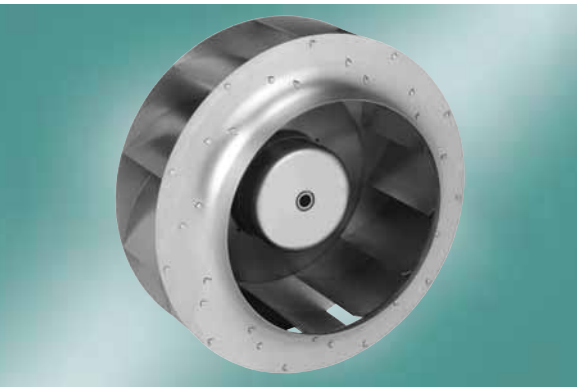


| Centrifugal fan | kg | Inlet nozzle (long) |
|---|---|---|
| R3G 280-AA75 -01 | 3.2 | 96360-2-4013 |



# EC centrifugal fan

backward curved, Ø 280



- **Material:** Impeller: Sheet steel, galvanised
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **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

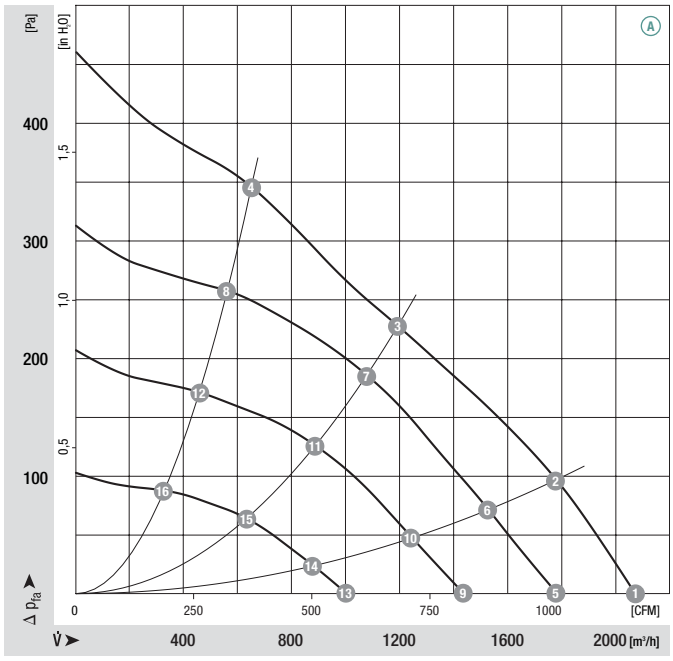
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 603 |
| **R3G 280** | M3G 074-CF | Ⓐ | 1~ 200-277 | 50/60 | 2000 | 170 | 1.30 | -25 to +60 | J1) |

subject to alterations

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

## Curves

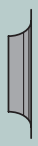



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2000 | 145 | 1.10 | 72 | — |
| Ⓐ 2 | 1920 | 168 | 1.20 | 67 | 48 |
| Ⓐ 3 | 1790 | 170 | 1.20 | 61 | 60 |
| Ⓐ 4 | 1930 | 161 | 1.10 | 62 | 50 |
| Ⓐ 5 | 1680 | 89 | 0.70 | 69 | — |
| Ⓐ 6 | 1660 | 113 | 0.90 | 64 | 46 |
| Ⓐ 7 | 1625 | 123 | 1.00 | 57 | 61 |
| Ⓐ 8 | 1660 | 104 | 0.80 | 58 | 50 |
| Ⓐ 9 | 1380 | 55 | 0.50 | 65 | — |
| Ⓐ 10 | 1350 | 61 | 0.50 | 60 | 49 |
| Ⓐ 11 | 1340 | 72 | 0.60 | 53 | 60 |
| Ⓐ 12 | 1360 | 61 | 0.50 | 53 | 50 |
| Ⓐ 13 | 980 | 24 | 0.20 | 58 | — |
| Ⓐ 14 | 970 | 28 | 0.30 | 54 | 47 |
| Ⓐ 15 | 960 | 32 | 0.30 | 48 | 60 |
| Ⓐ 16 | 970 | 27 | 0.30 | 44 | 51 |

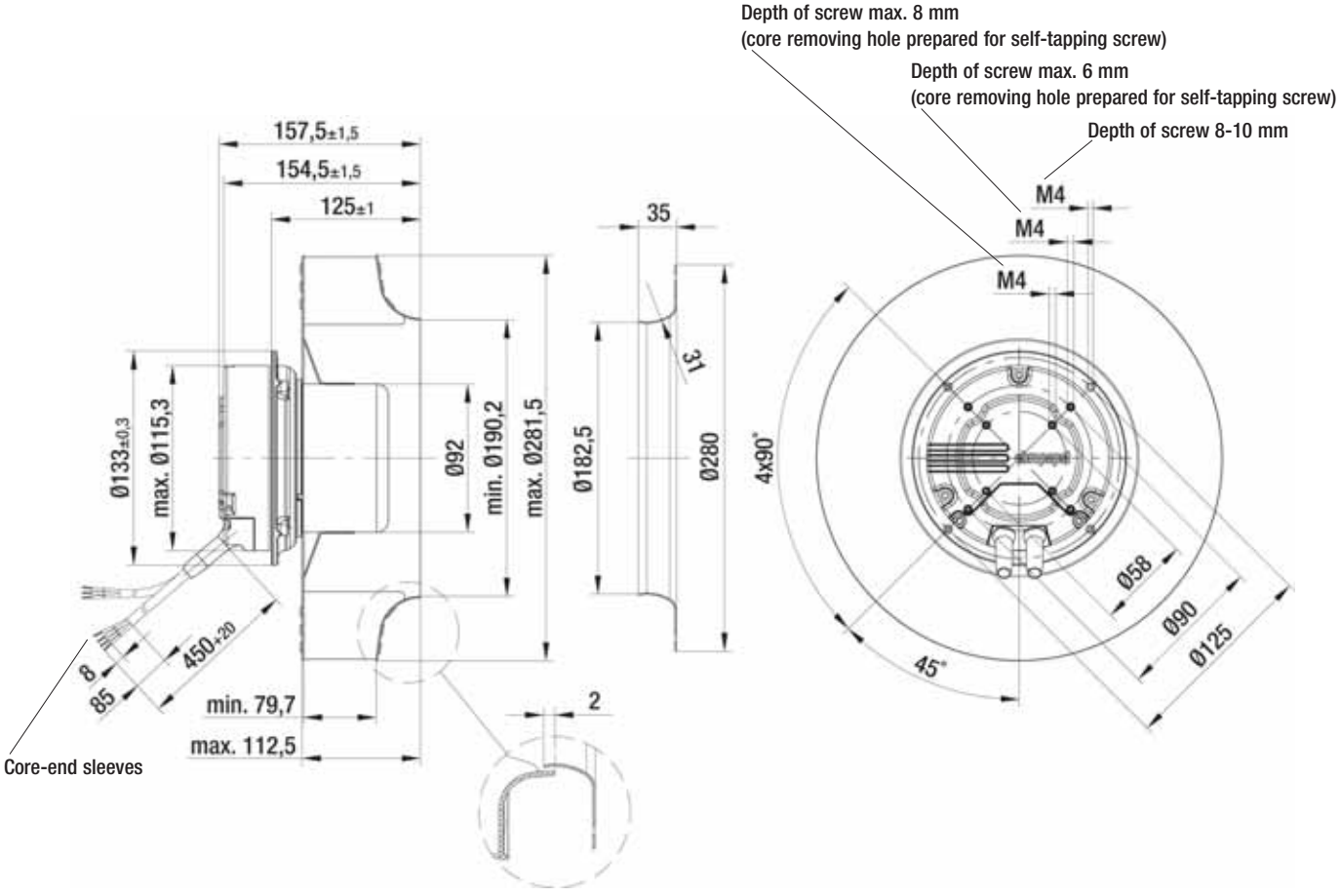


ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA; CCC, GOST are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 280-AA52 -01 | 3.2 | 96360-2-4013 |





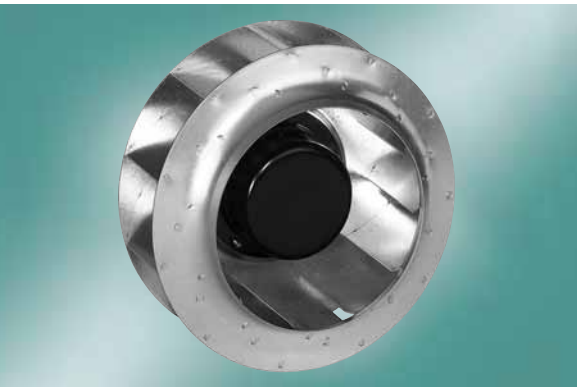




Inlet nozzle p. 550 f.
Electr. connection p. 603

# EC centrifugal fan

backward curved, Ø 280



- **Material:** Impeller: Sheet steel, galvanised
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **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

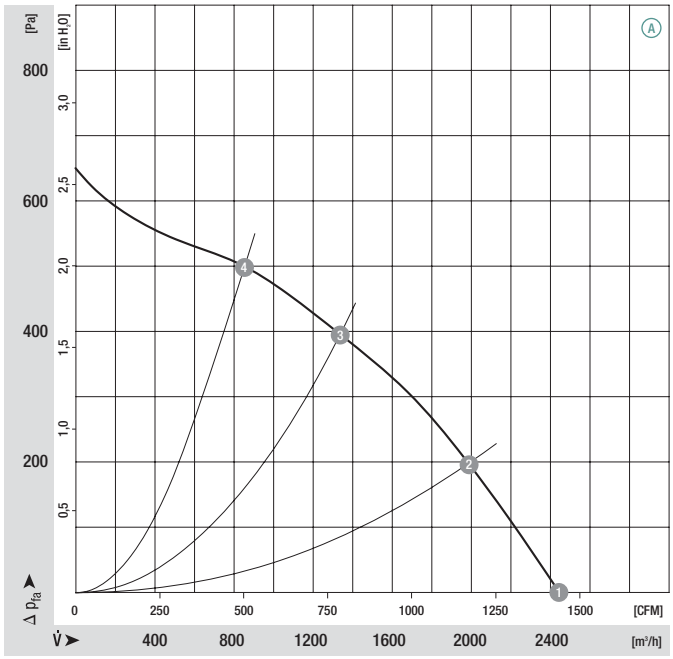
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 605 |
| **R3G 280** | M3G 084-DF | Ⓐ | 1~ 100-130 | 50/60 | 2420 | 350 | 4.20 | -25 to +60 | K1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

## Curves

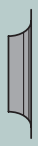



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2420 | 270 | 3.30 | 77 | — |
| Ⓐ 2 | 2360 | 324 | 3.90 | 73 | 50 |
| Ⓐ 3 | 2320 | 350 | 4.20 | 69 | 60 |
| Ⓐ 4 | 2395 | 298 | 3.70 | 71 | 48 |

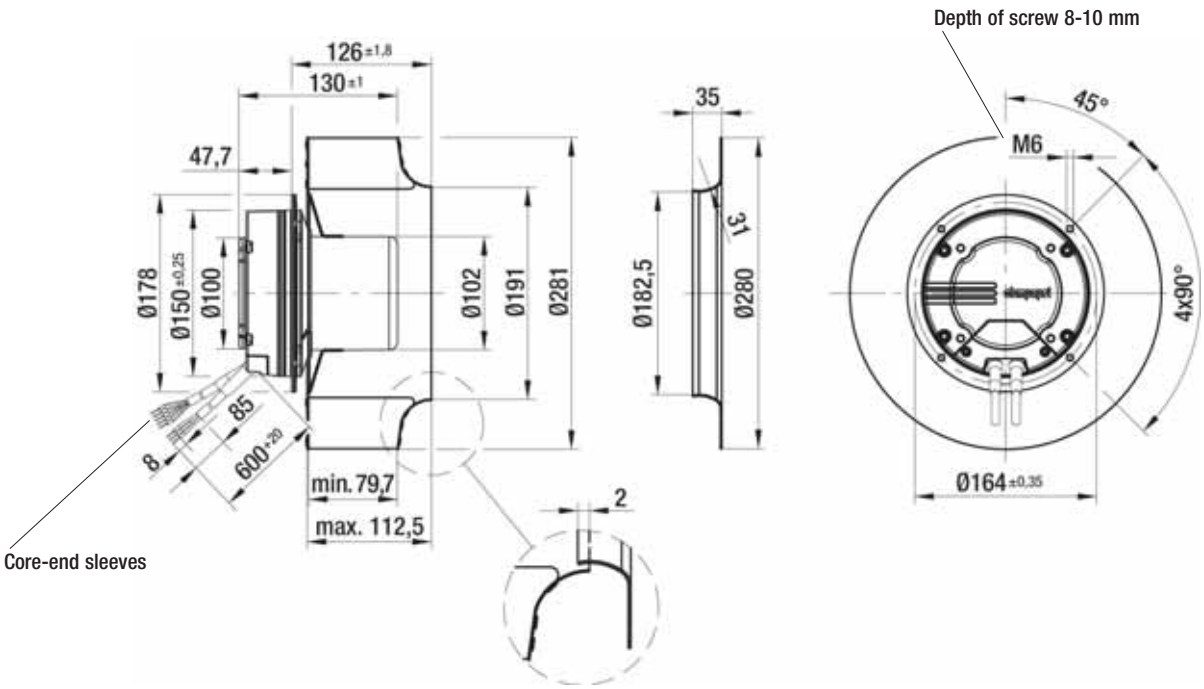


ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **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
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA

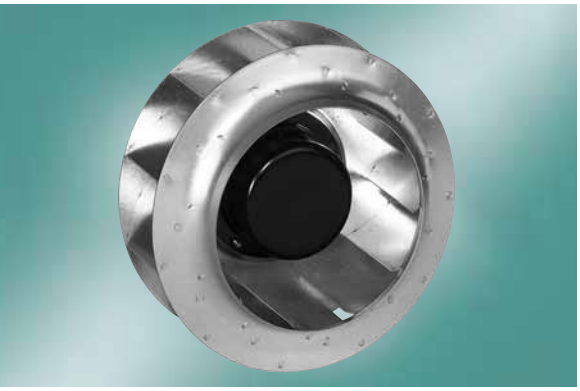


| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| **R3G 280-AF23 -81** | 5.0 | 96360-2-4013 |



# EC centrifugal fan

backward curved, Ø 280



- **Material:** Impeller: Sheet steel, galvanised
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **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

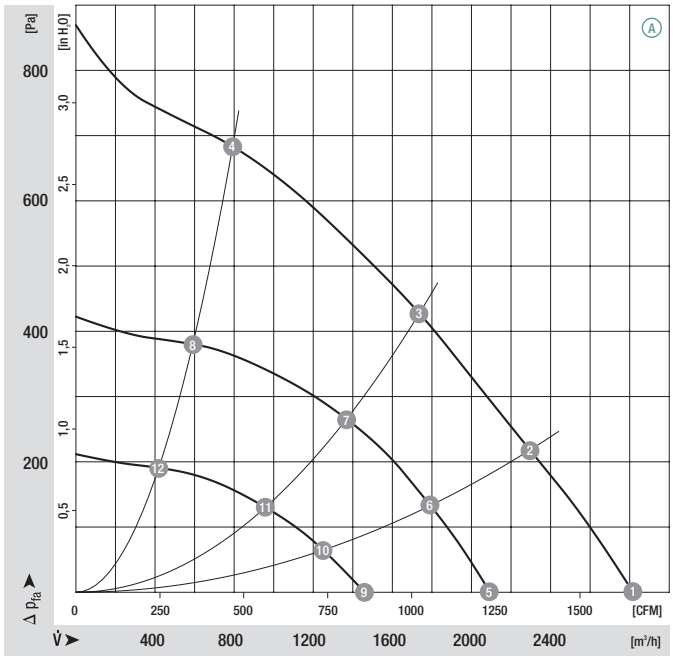
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 605 |
| **R3G 280** | M3G 084-DF | Ⓐ | 1~ 200-277 | 50/60 | 2600 | 455 | 2.80 | -25 to +40 | K1) |

subject to alterations

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

## Curves



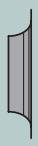

| | | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|---|
| Ⓐ | 1 | 2760 | 355 | 2.20 | 80 | — |
| Ⓐ | 2 | 2670 | 400 | 2.50 | 77 | 48 |
| Ⓐ | 3 | 2660 | 425 | 2.60 | 73 | 60 |
| Ⓐ | 4 | 2740 | 386 | 2.30 | 75 | 45 |
| Ⓐ | 5 | 2050 | 150 | 1.00 | 74 | — |
| Ⓐ | 6 | 2050 | 206 | 1.10 | 71 | 48 |
| Ⓐ | 7 | 2050 | 232 | 1.40 | 67 | 60 |
| Ⓐ | 8 | 2050 | 196 | 1.20 | 67 | 45 |
| Ⓐ | 9 | 1460 | 65 | 0.40 | 67 | — |
| Ⓐ | 10 | 1460 | 80 | 0.50 | 64 | 48 |
| Ⓐ | 11 | 1460 | 88 | 0.60 | 58 | 60 |
| Ⓐ | 12 | 1460 | 70 | 0.50 | 57 | 45 |



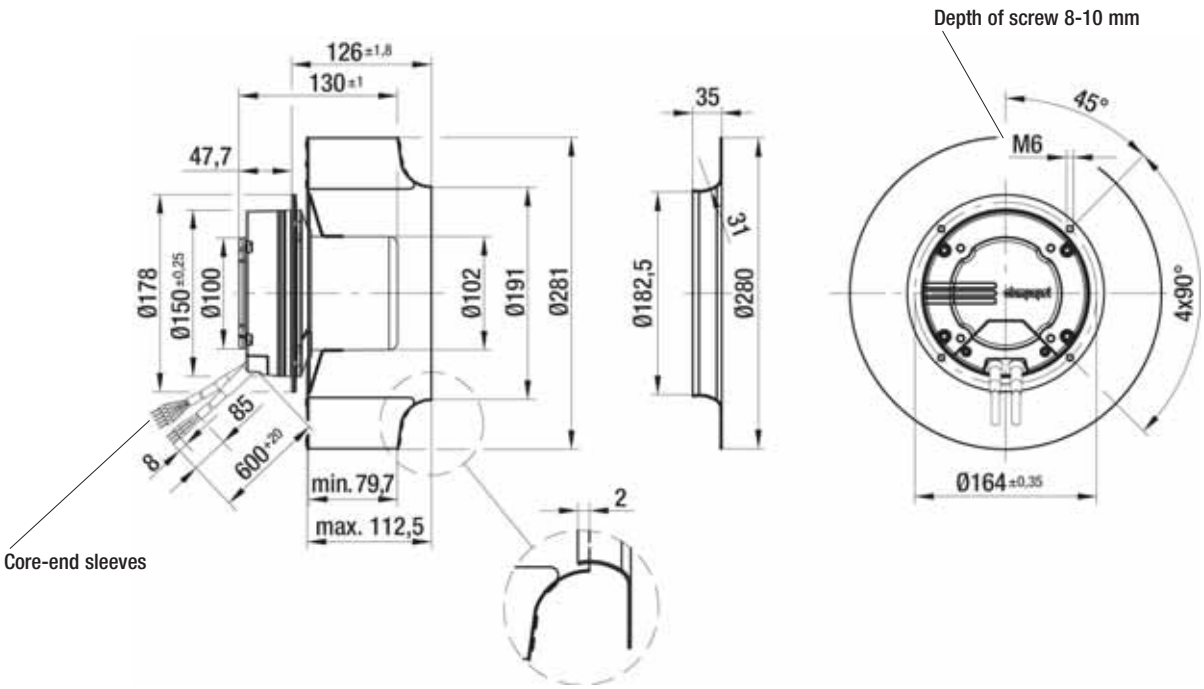
ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **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
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** VDE, UL, CSA; CCC, GOST are applied for

Mass of centrifugal fan

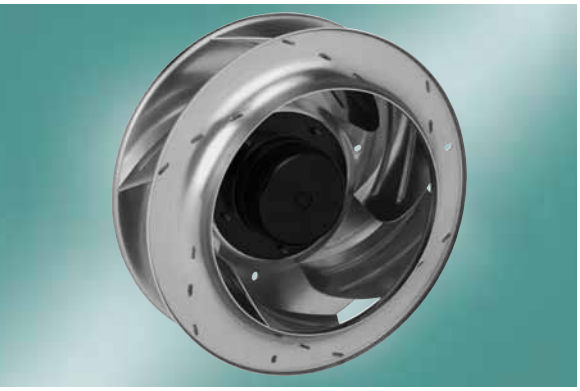


| Centrifugal fan | kg | Inlet nozzle (long) |
|---|---|---|
| **R3G 280-AF35 -71** | 5.0 | 96360-2-4013 |



# EC centrifugal fan

backward curved, 3-D, Ø 310



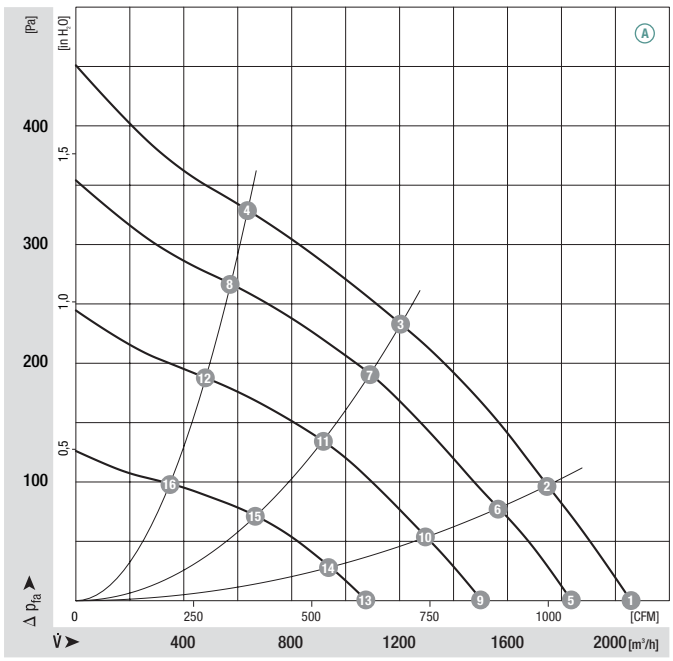
- **Material:** Impeller: Sheet aluminium, laser-welded
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal 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 | | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **W** | **A** | **°C** | p. 603 |
| **R3G 310** | M3G 074-CF | Ⓐ | 1~ 100-130 | 50/60 | 1700 | 160 | 2.10 | -25 to +60 | J1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

**Curves** (established with long inlet nozzle)

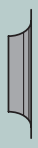



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1700 | 111 | 1.50 | 65 | — |
| Ⓐ 2 | 1640 | 133 | 1.70 | 62 | 64 |
| Ⓐ 3 | 1600 | 152 | 1.90 | 58 | 75 |
| Ⓐ 4 | 1630 | 140 | 1.80 | 60 | 55 |
| Ⓐ 5 | 1530 | 80 | 1.10 | 62 | — |
| Ⓐ 6 | 1480 | 98 | 1.30 | 60 | 63 |
| Ⓐ 7 | 1450 | 110 | 1.50 | 55 | 75 |
| Ⓐ 8 | 1470 | 103 | 1.40 | 58 | 58 |
| Ⓐ 9 | 1270 | 50 | 0.70 | 58 | — |
| Ⓐ 10 | 1240 | 61 | 0.80 | 55 | 57 |
| Ⓐ 11 | 1220 | 68 | 0.90 | 52 | 73 |
| Ⓐ 12 | 1230 | 64 | 0.90 | 53 | 54 |
| Ⓐ 13 | 920 | 22 | 0.40 | 49 | — |
| Ⓐ 14 | 900 | 26 | 0.40 | 46 | 49 |
| Ⓐ 15 | 890 | 30 | 0.50 | 43 | 64 |
| Ⓐ 16 | 900 | 28 | 0.40 | 45 | 48 |

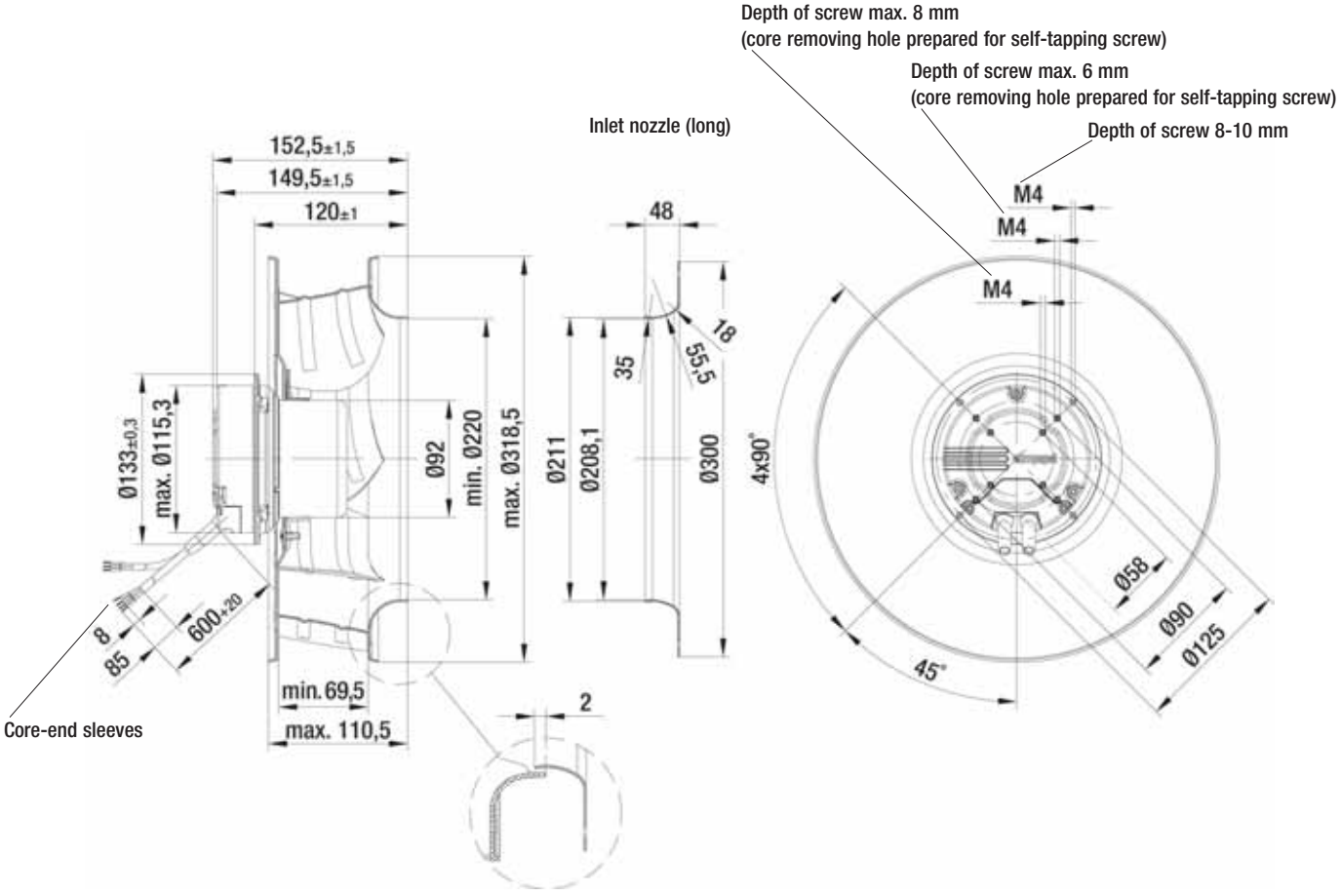


ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA, CCC, GOST are applied for

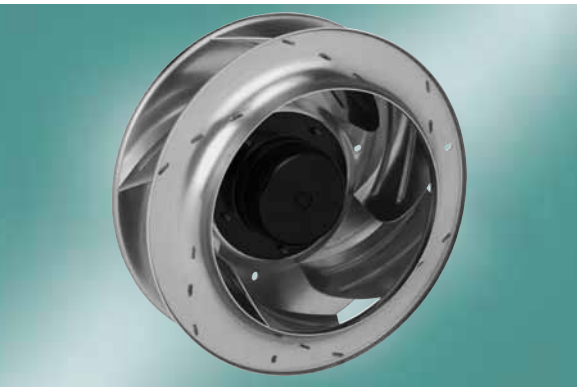


| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Inlet nozzle (short) |
|---|---|---|---|
| R3G 310-A075 -01 | 3.1 | 31050-2-4013 | 31051-2-4013 |



# EC centrifugal fan

backward curved, 3-D, Ø 310



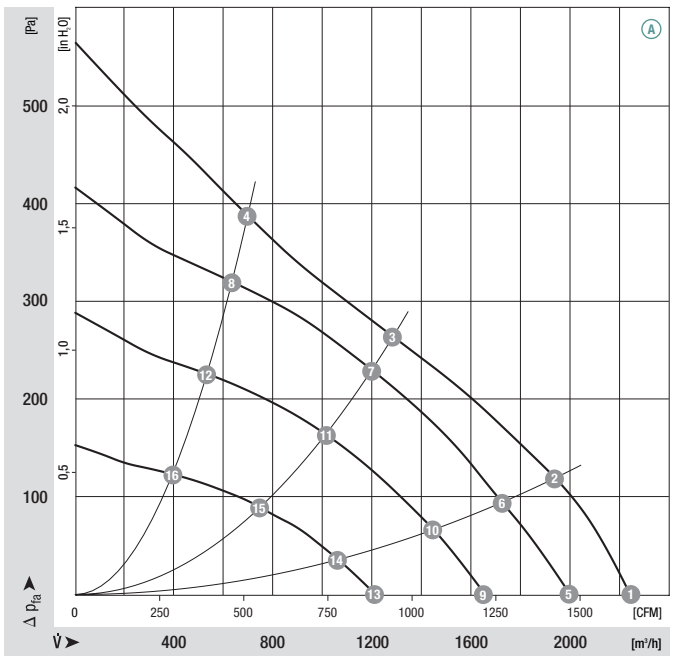
- **Material:** Impeller: Sheet aluminium, laser-welded
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal 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 | | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **W** | **A** | **°C** | p. 603 |
| **R3G 310** | M3G 074-CF | Ⓐ | 1~ 200-277 | 50/60 | 1925 | 173 | 1.30 | -25 to +60 | J1) |

subject to alterations

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

**Curves** (established with long inlet nozzle)




| | | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|---|
| Ⓐ | 1 | 1925 | 150 | 1.10 | 67 | — |
| Ⓐ | 2 | 1840 | 174 | 1.20 | 65 | 61 |
| Ⓐ | 3 | 1700 | 172 | 1.20 | 59 | 71 |
| Ⓐ | 4 | 1790 | 174 | 1.20 | 62 | 55 |
| Ⓐ | 5 | 1670 | 100 | 0.80 | 64 | — |
| Ⓐ | 6 | 1615 | 128 | 1.00 | 61 | 60 |
| Ⓐ | 7 | 1590 | 139 | 1.00 | 55 | 71 |
| Ⓐ | 8 | 1610 | 134 | 1.00 | 60 | 53 |
| Ⓐ | 9 | 1400 | 60 | 0.50 | 59 | — |
| Ⓐ | 10 | 1360 | 76 | 0.60 | 57 | 60 |
| Ⓐ | 11 | 1340 | 85 | 0.70 | 54 | 73 |
| Ⓐ | 12 | 1355 | 81 | 0.70 | 56 | 54 |
| Ⓐ | 13 | 1030 | 28 | 0.30 | 51 | — |
| Ⓐ | 14 | 1010 | 35 | 0.30 | 49 | 59 |
| Ⓐ | 15 | 990 | 40 | 0.30 | 45 | 72 |
| Ⓐ | 16 | 1000 | 38 | 0.30 | 47 | 53 |



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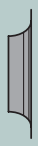
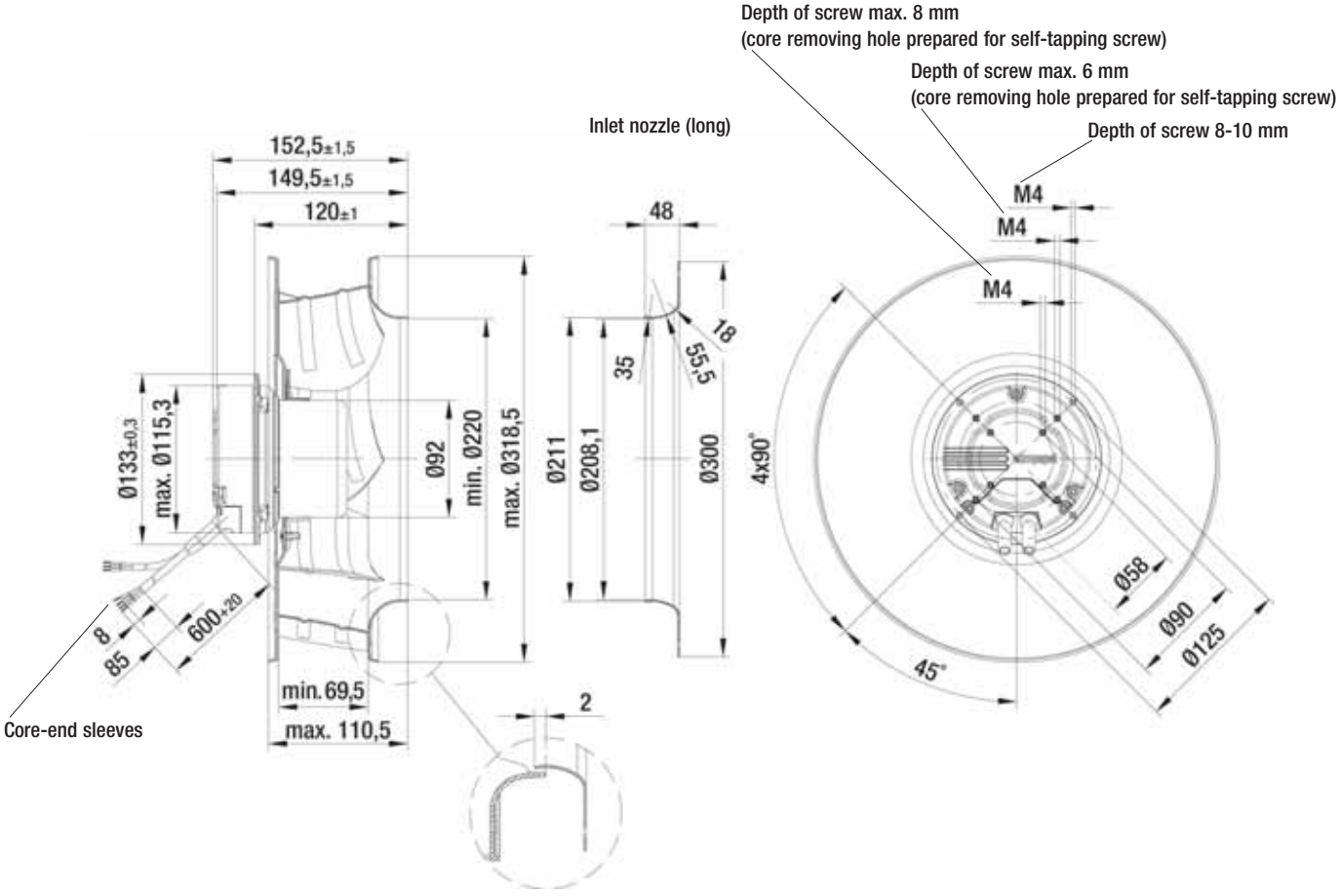
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA; CCC, GOST are applied for


| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Inlet nozzle (short) |
|---|---|---|---|
| R3G 310-A052 -01 | 3.1 | 31050-2-4013 | 31051-2-4013 |



# EC centrifugal fan

backward curved, 3-D, Ø 310

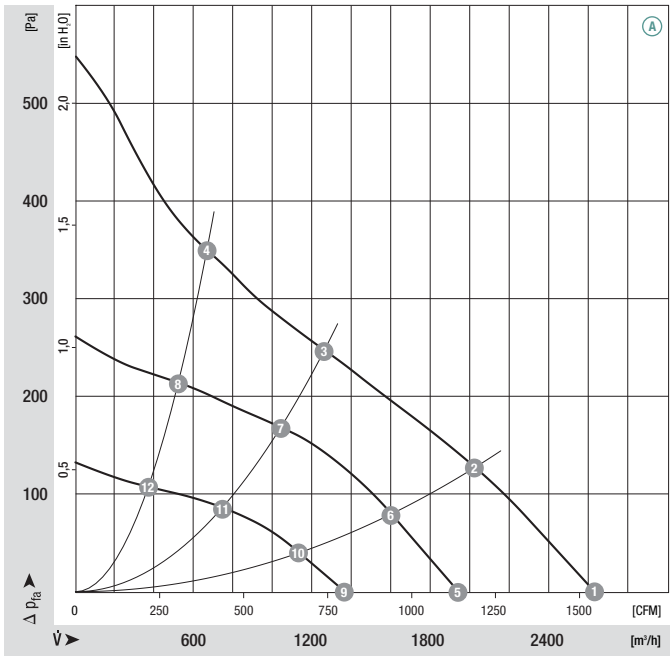
- **Material:** Impeller: Sheet aluminium, laser-welded
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal 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 | | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **W** | **A** | **°C** | p. 603 |
| **R3G 310** | M3G 074-CF | Ⓐ | 1~ 200-277 | 50/60 | 1770 | 175 | 1.30 | -25 to +60 | J1) |

subject to alterations

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

**Curves** (established with long inlet nozzle)




| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1770 | 170 | 1.25 | 65 | — |
| Ⓐ 2 | 1570 | 170 | 1.30 | 60 | 59 |
| Ⓐ 3 | 1510 | 167 | 1.30 | 58 | 65 |
| Ⓐ 4 | 1630 | 169 | 1.20 | 62 | 49 |
| Ⓐ 5 | 1300 | 73 | 0.60 | 56 | — |
| Ⓐ 6 | 1270 | 88 | 0.70 | 54 | 59 |
| Ⓐ 7 | 1250 | 100 | 0.80 | 54 | 65 |
| Ⓐ 8 | 1280 | 84 | 0.70 | 56 | 48 |
| Ⓐ 9 | 930 | 29 | 0.30 | 48 | — |
| Ⓐ 10 | 910 | 37 | 0.30 | 45 | 56 |
| Ⓐ 11 | 900 | 40 | 0.35 | 45 | 67 |
| Ⓐ 12 | 910 | 34 | 0.30 | 46 | 47 |



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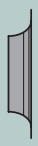
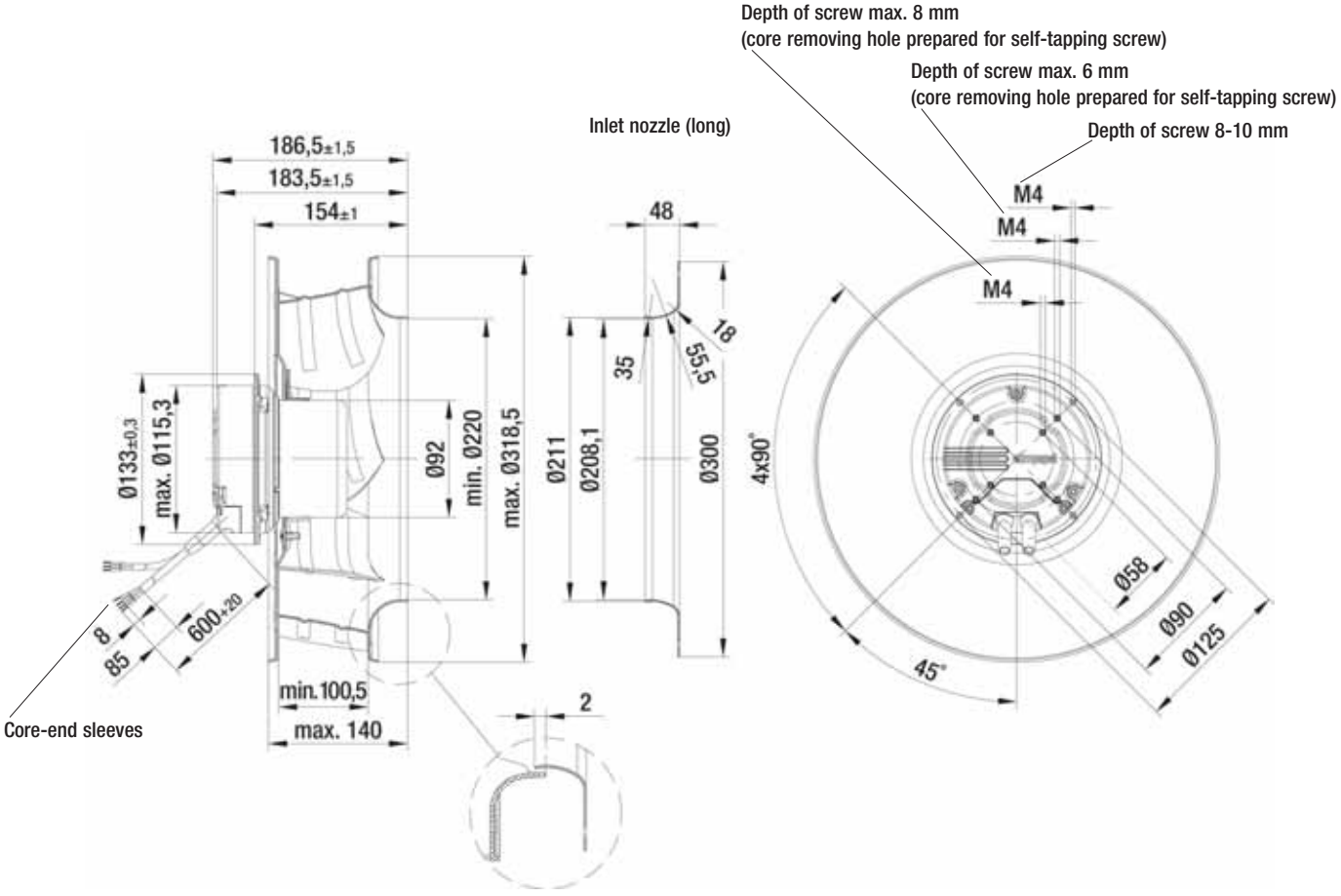
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-1
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA; CCC, GOST are applied for


| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Inlet nozzle (short) |
|---|---|---|---|
| R3G 310-AP52 -01 | 3.2 | 31050-2-4013 | 31051-2-4013 |



# EC centrifugal fans and modules

## backward curved, 3-D, Ø 310

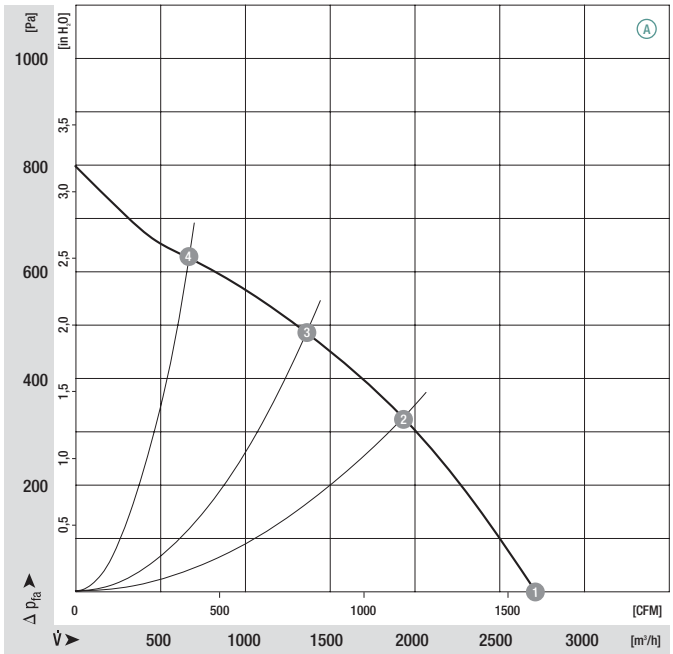
- **Material:** Support bracket: Steel, coated in black
  Support plate: Sheet aluminium, spacer profiles: Aluminium
  Impeller: Sheet aluminium, laser-welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **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 | | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **W** | **A** | **°C** | p. 605 |
| ***3G 310** | M3G 084-DF | Ⓐ | 1~ 100-130 | 50/60 | 2300 | 350 | 4.20 | -25 to +60 | K1) |

subject to alterations

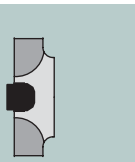
(1) Nominal data in operating point with maximum load and 115 VAC

**Curves** (established with long inlet nozzle)

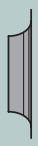


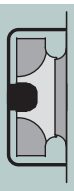

| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2300 | 262 | 3.30 | 75 | — |
| Ⓐ 2 | 2190 | 338 | 4.10 | 69 | 64 |
| Ⓐ 3 | 2180 | 350 | 4.20 | 71 | 67 |
| Ⓐ 4 | 2260 | 307 | 3.70 | 70 | 52 |

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **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
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** VDE, UL, CSA, CCC, GOST are applied for

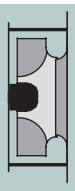


Mass of centrifugal fan



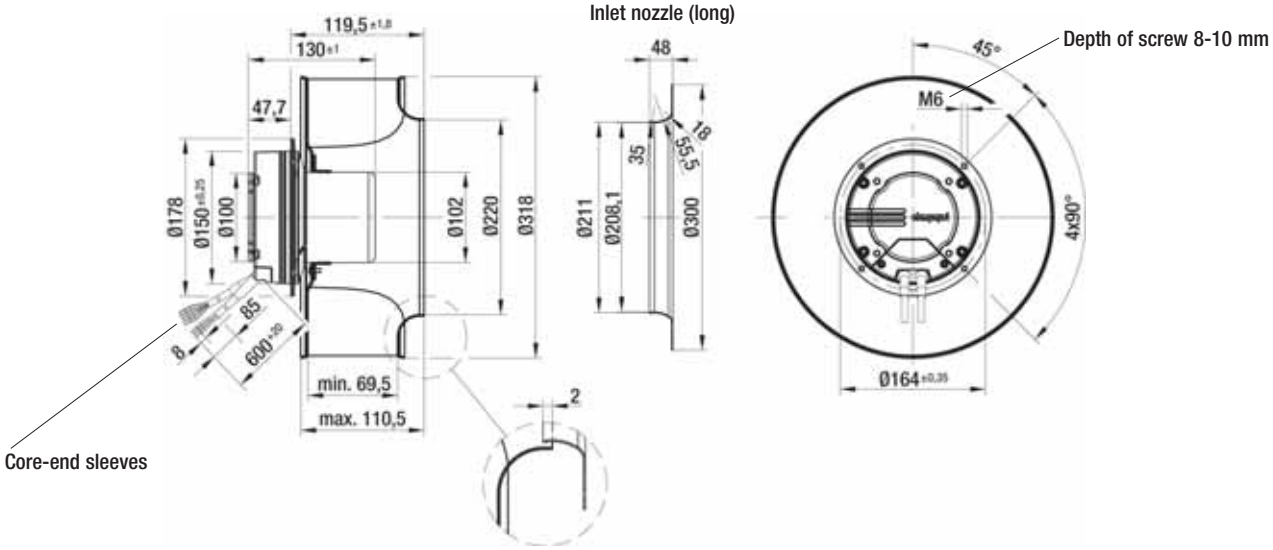


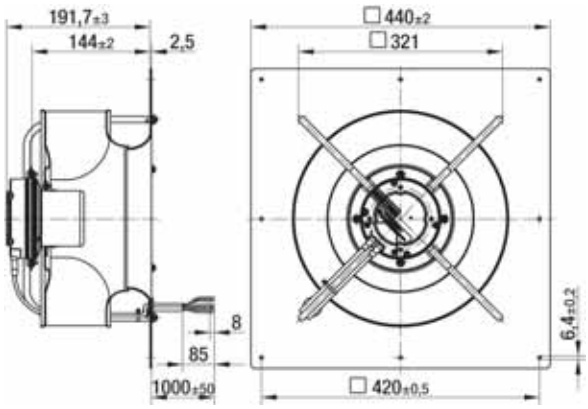
Mass of centrifugal module with support bracket

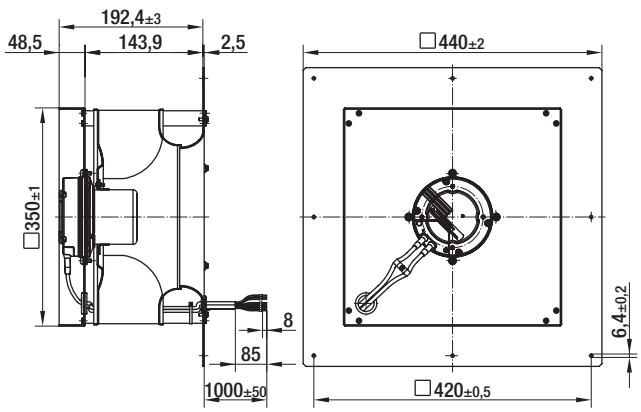


Mass of centrifugal module with support plate

| Centrifugal fan | kg | Inlet nozzle (long) | Inlet nozzle (short) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|---|
| **R3G 310-AJ23 -81** | 4.4 | 31050-2-4013 | 31051-2-4013 | **K3G 310-AJ23 -82** | 7.3 | **K3G 310-AJ23 -81** | 7.0 |









Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 605

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 310

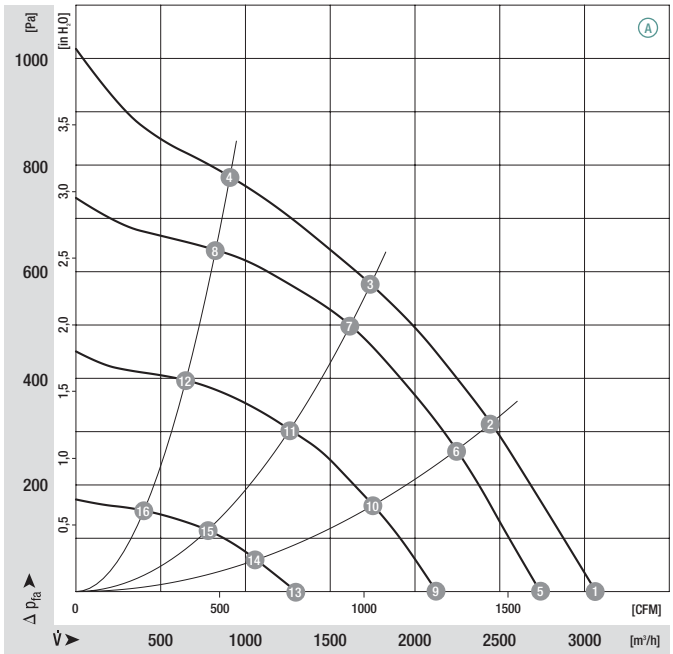
- **Material:** Support bracket: Steel, coated in black
  Support plate: Sheet aluminium, spacer profiles: Aluminium
  Impeller: Sheet aluminium, laser-welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **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 | | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **W** | **A** | **°C** | p. 605 |
| ***3G 310** | M3G 084-DF | Ⓐ | 1~ 200-277 | 50/60 | 2590 | 505 | 3.10 | -25 to +60 | K1) |

subject to alterations

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

**Curves** (established with long inlet nozzle)




| | | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|---|
| Ⓐ | 1 | 2590 | 380 | 2.30 | 78 | — |
| Ⓐ | 2 | 2500 | 470 | 2.80 | 74 | 63 |
| Ⓐ | 3 | 2470 | 505 | 3.00 | 73 | 67 |
| Ⓐ | 4 | 2530 | 460 | 2.70 | 74 | 52 |
| Ⓐ | 5 | 2320 | 274 | 1.60 | 75 | — |
| Ⓐ | 6 | 2320 | 370 | 2.20 | 71 | 63 |
| Ⓐ | 7 | 2320 | 410 | 2.40 | 71 | 67 |
| Ⓐ | 8 | 2320 | 362 | 2.10 | 71 | 52 |
| Ⓐ | 9 | 1810 | 137 | 0.90 | 69 | — |
| Ⓐ | 10 | 1810 | 175 | 1.10 | 65 | 63 |
| Ⓐ | 11 | 1810 | 198 | 1.20 | 64 | 67 |
| Ⓐ | 12 | 1810 | 180 | 1.10 | 64 | 52 |
| Ⓐ | 13 | 1110 | 42 | 0.30 | 55 | — |
| Ⓐ | 14 | 1110 | 54 | 0.40 | 52 | 63 |
| Ⓐ | 15 | 1110 | 57 | 0.40 | 52 | 67 |
| Ⓐ | 16 | 1110 | 54 | 0.40 | 52 | 52 |



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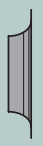
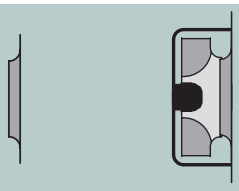
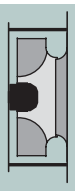
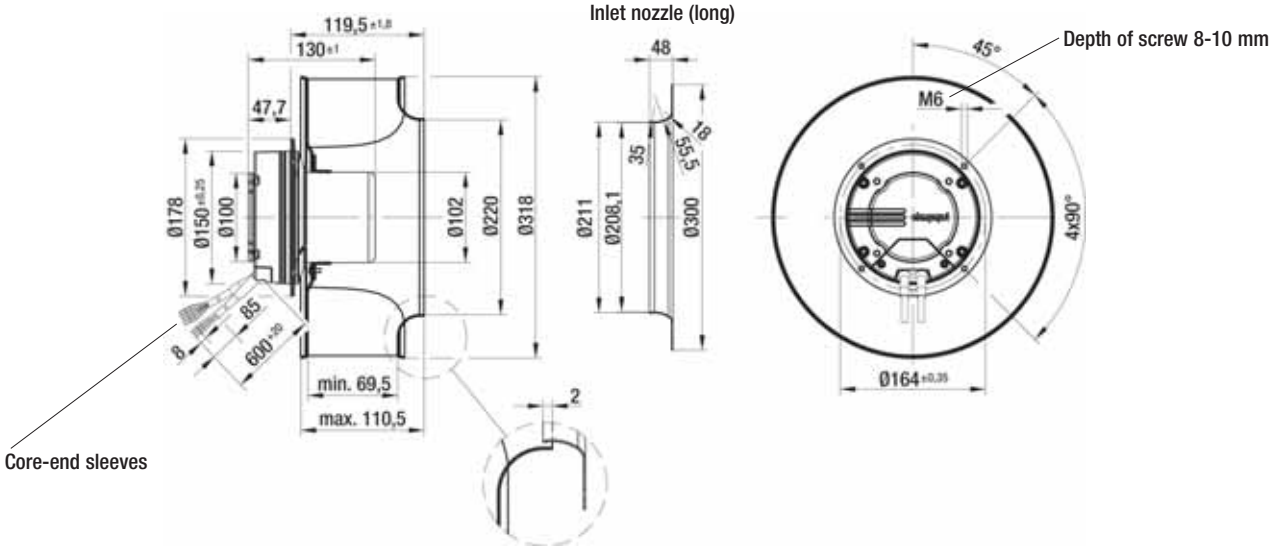
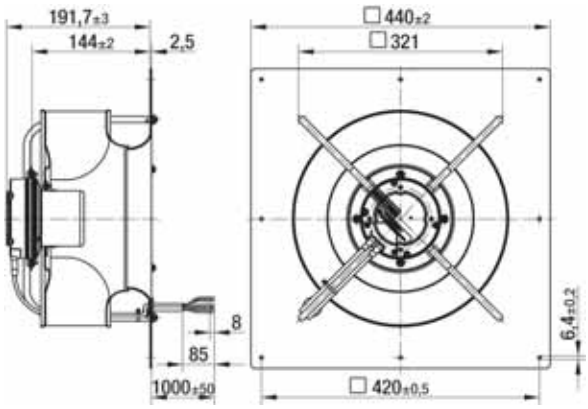
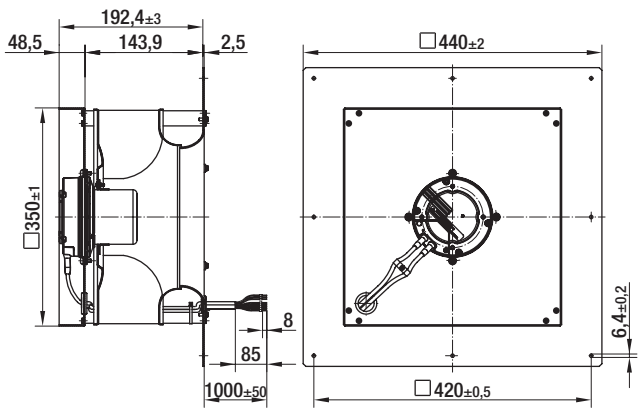
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA; VDE, CCC, GOST are applied for

| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Inlet nozzle (short) | Centrifugal module w. support bracket | Mass of centrifugal module with support bracket kg | Centrifugal module with support plate | Mass of centrifugal module with support plate kg |
|---|---|---|---|---|---|---|---|
| **R3G 310-AJ40 -71** | 4.4 | 31050-2-4013 | 31051-2-4013 | **K3G 310-AJ40 -72** | 7.3 | **K3G 310-AJ40 -71** | 7.0 |








Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 605

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 310

- **Material:** Support bracket: Steel, coated in black
  Support plate: Sheet aluminium, 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 54
- **Insulation class:** "B"
- **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

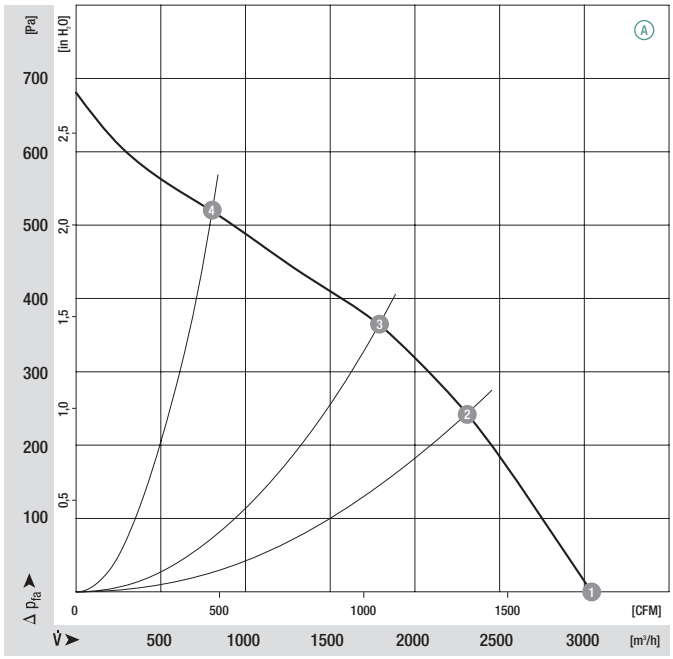
**Nominal data**

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 605 |
| *3G 310 | M3G 084-DF | Ⓐ | 1~ 100-130 | 50/60 | 2080 | 350 | 4.20 | -25 to +60 | K1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

**Curves** (established with long inlet nozzle)

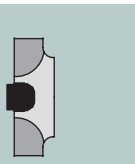



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2080 | 274 | 3.40 | 71 | — |
| Ⓐ 2 | 1980 | 338 | 4.10 | 68 | 63 |
| Ⓐ 3 | 1950 | 350 | 4.20 | 66 | 67 |
| Ⓐ 4 | 2035 | 301 | 3.70 | 69 | 52 |

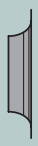


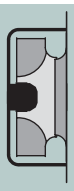
ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **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
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** VDE, UL, CSA, CCC, GOST are applied for

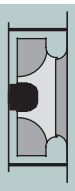


Mass of centrifugal fan





Mass of centrifugal module with support bracket

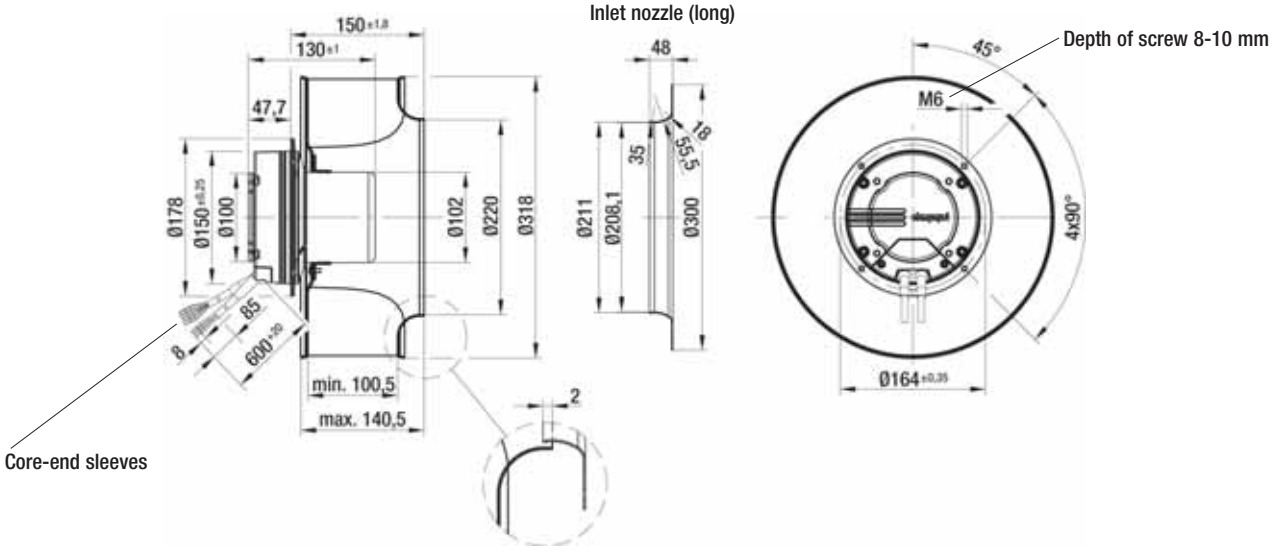


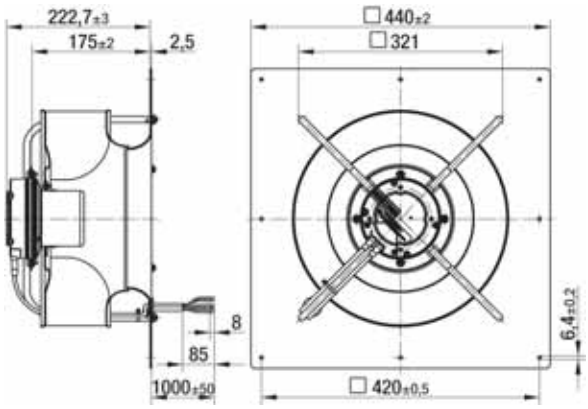
Mass of centrifugal module with support plate

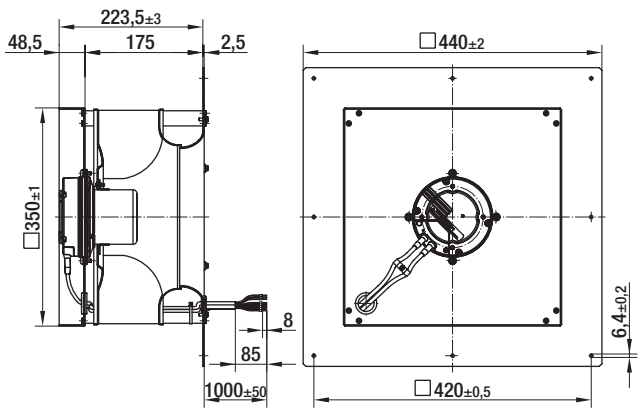
| Centrifugal fan | kg | Inlet nozzle (long) | Inlet nozzle (short) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|---|
| **R3G 310-AI01 -81** | 4.5 | 31050-2-4013 | 31051-2-4013 | **K3G 310-AI01 -82** | 7.6 | **K3G 310-AI01 -81** | 7.1 |

Inlet nozzle (long)

Depth of screw 8-10 mm









Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 605

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 310

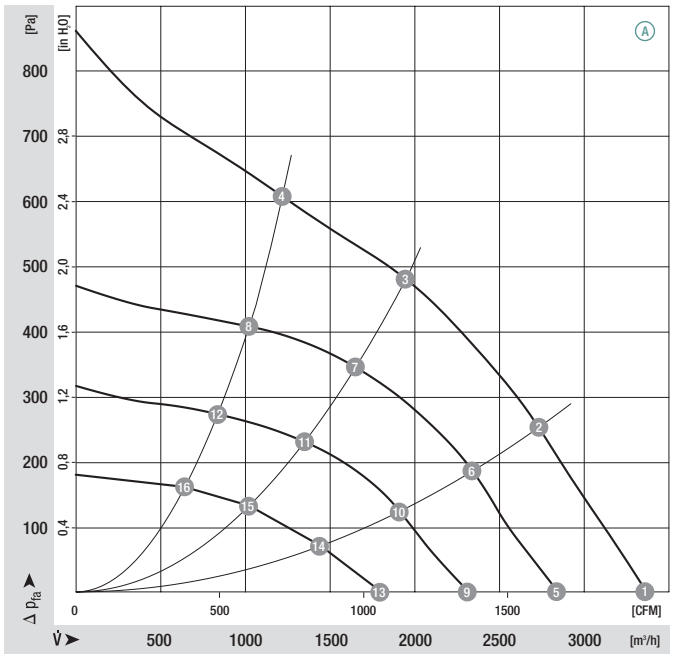
- **Material:** Support bracket: Steel, coated in black
  Support plate: Sheet aluminium, spacer profiles: Aluminium
  Impeller: Sheet aluminium, laser-welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **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 | | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **W** | **A** | **°C** | p. 605 |
| ***3G 310** | M3G 084-DF | Ⓐ | 1~ 200-277 | 50/60 | 2300 | 480 | 3.10 | -25 to +60 | K1) |

subject to alterations

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

**Curves** (established with long inlet nozzle)

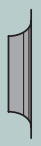
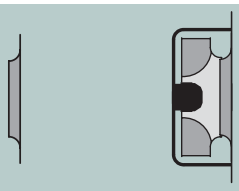
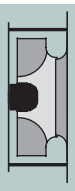



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2300 | 370 | 2.35 | 75 | — |
| Ⓐ 2 | 2215 | 445 | 2.85 | 71 | 62 |
| Ⓐ 3 | 2170 | 480 | 3.10 | 68 | 67 |
| Ⓐ 4 | 2220 | 448 | 2.85 | 70 | 56 |
| Ⓐ 5 | 1900 | 210 | 1.30 | 69 | — |
| Ⓐ 6 | 1900 | 284 | 1.70 | 66 | 62 |
| Ⓐ 7 | 1900 | 312 | 1.80 | 63 | 67 |
| Ⓐ 8 | 1900 | 278 | 1.70 | 66 | 56 |
| Ⓐ 9 | 1560 | 124 | 0.80 | 63 | — |
| Ⓐ 10 | 1560 | 158 | 1.00 | 61 | 62 |
| Ⓐ 11 | 1560 | 175 | 1.10 | 57 | 67 |
| Ⓐ 12 | 1560 | 158 | 1.00 | 61 | 56 |
| Ⓐ 13 | 1200 | 57 | 0.40 | 56 | — |
| Ⓐ 14 | 1200 | 73 | 0.50 | 54 | 62 |
| Ⓐ 15 | 1200 | 80 | 0.50 | 53 | 67 |
| Ⓐ 16 | 1200 | 70 | 0.50 | 53 | 56 |



ebmpapst

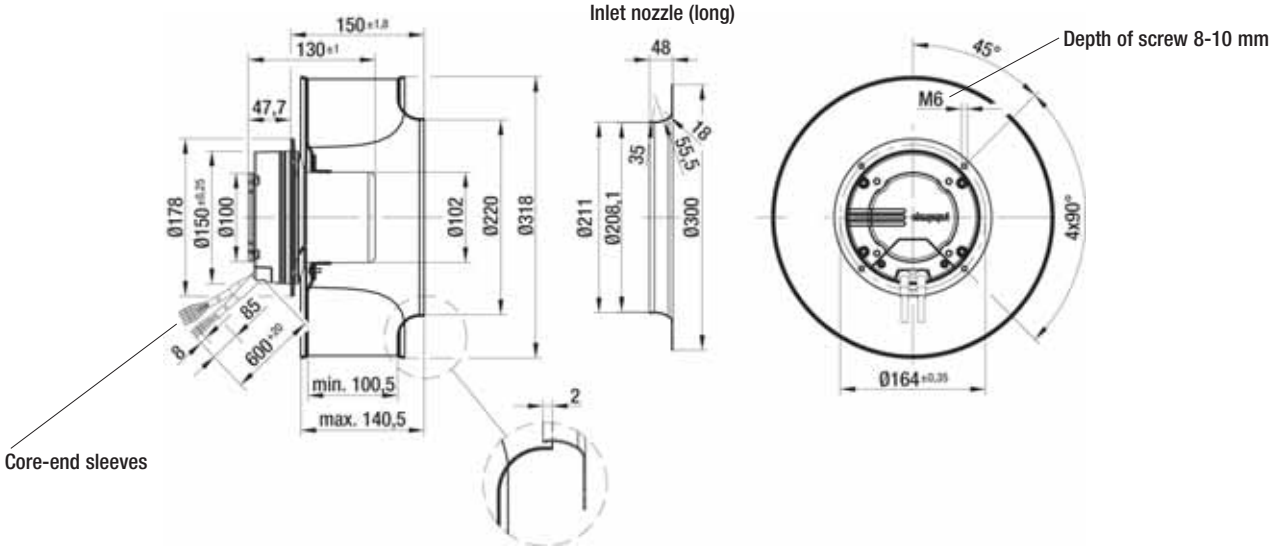
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA; VDE, CCC, GOST are applied for

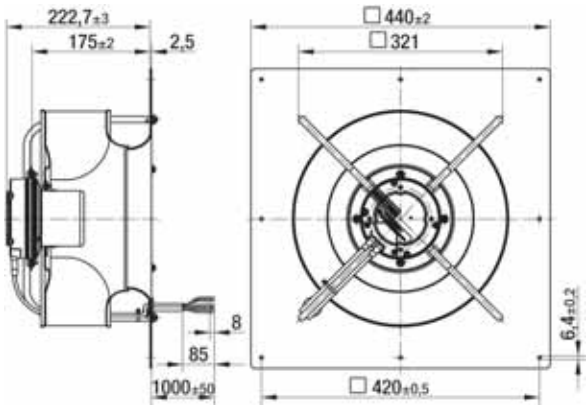





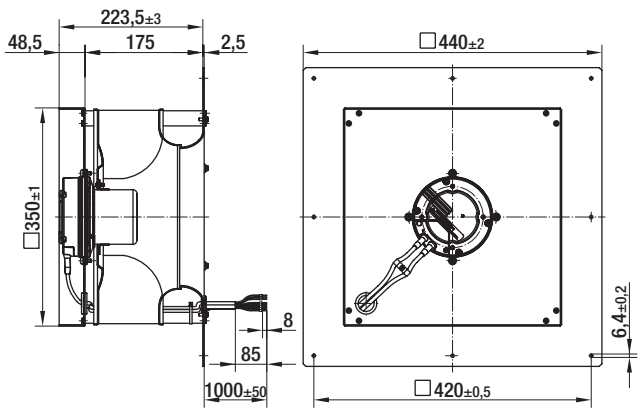
| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Inlet nozzle (short) | Centrifugal module w. support bracket | Mass of centrifugal module with support bracket kg | Centrifugal module with support plate | Mass of centrifugal module with support plate kg |
|---|---|---|---|---|---|---|---|
| **R3G 310-AI39 -71** | 4.5 | 31050-2-4013 | 31051-2-4013 | **K3G 310-AI39 -72** | 7.6 | **K3G 310-AI39 -71** | 7.1 |

Inlet nozzle (long)

Depth of screw 8-10 mm









Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 605

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 355

- **Material:** Support bracket: Steel, coated in black
  Support plate: Sheet aluminium, 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 54
- **Insulation class:** "B"
- **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

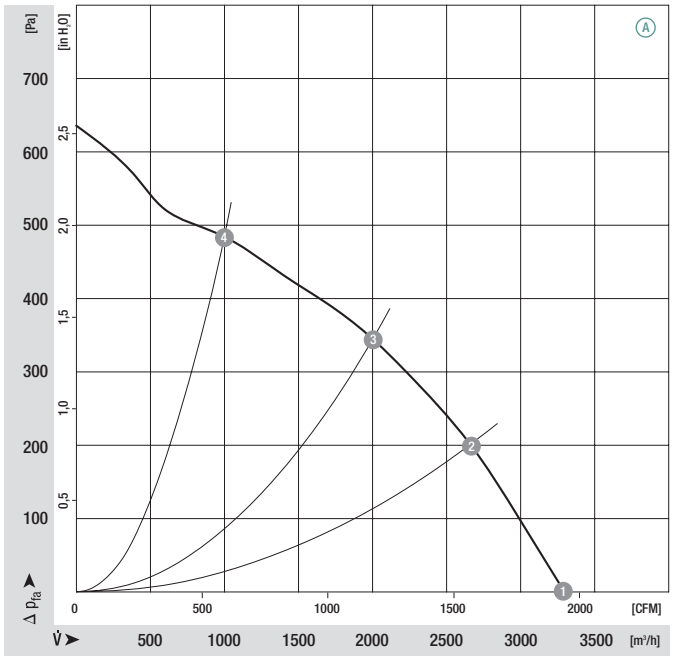
**Nominal data**

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 605 |
| *3G 355 | M3G 084-FA | Ⓐ | 1~ 100-130 | 50/60 | 1730 | 355 | 4.10 | -25 to +60 | K1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

**Curves** (established with long inlet nozzle)

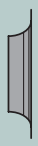


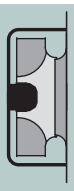
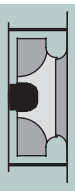

| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1730 | 278 | 3.20 | 74 | — |
| Ⓐ 2 | 1675 | 338 | 3.90 | 69 | 58 |
| Ⓐ 3 | 1650 | 355 | 4.20 | 66 | 70 |
| Ⓐ 4 | 1700 | 310 | 3.60 | 68 | 60 |



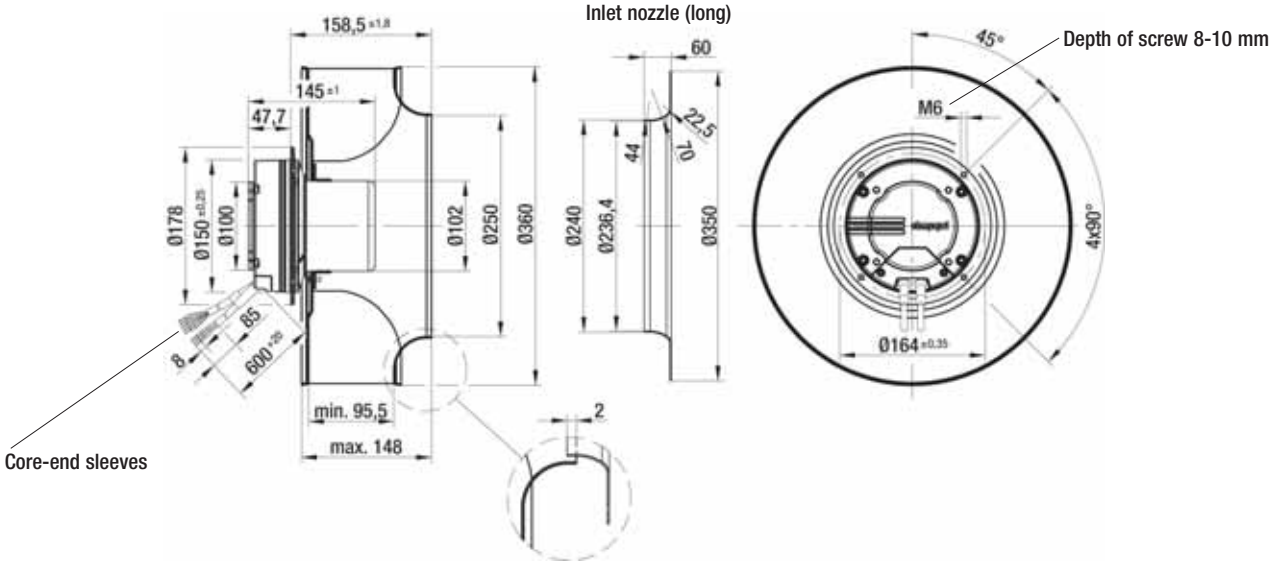
ebmpapst

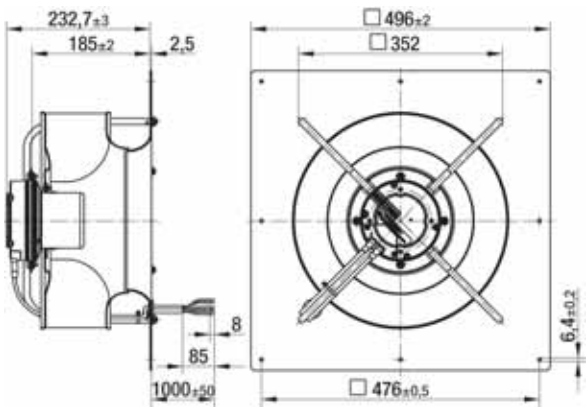
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA; VDE, CCC, GOST are applied for

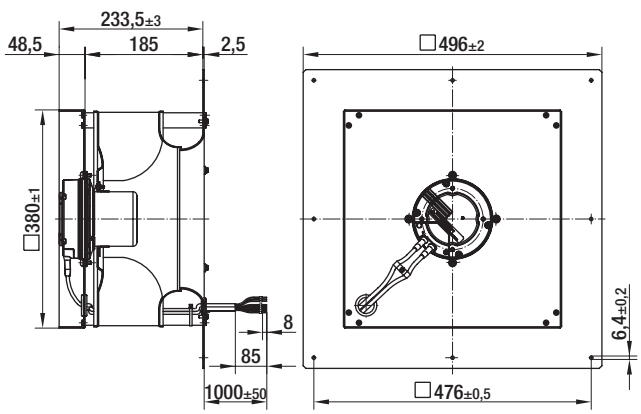



| Centrifugal fan | kg | Inlet nozzle (long) | Inlet nozzle (short) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|---|
| **R3G 355-AM36-81** | 5.7 | 35560-2-4013 | 35561-2-4013 | **K3G 355-AM36-82** | 9.2 | **K3G 355-AM36-81** | 8.8 |









Inlet nozzle p. 550 f.
Electr. connection p. 605

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 355

- **Material:** Support bracket: Steel, coated in black
  Support plate: Sheet aluminium, 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 54
- **Insulation class:** "B"
- **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

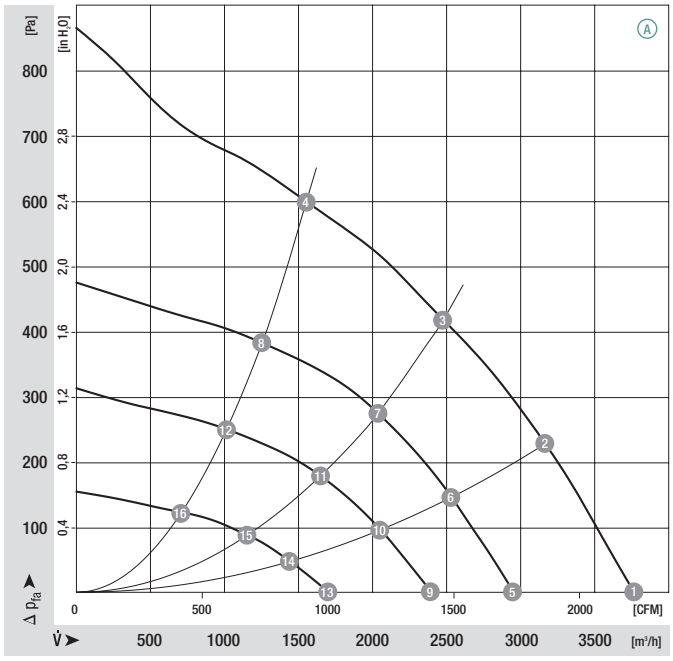
**Nominal data**

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 605 |
| *3G 355 | M3G 084-FA | Ⓐ | 1~ 200-277 | 50/60 | 1970 | 500 | 3.15 | -25 to +60 | K1) |

subject to alterations

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

**Curves** (established with long inlet nozzle)

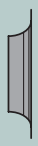


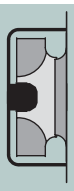
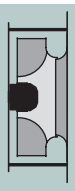

| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1970 | 390 | 2.50 | 77 | — |
| Ⓐ 2 | 1920 | 469 | 2.95 | 73 | 56 |
| Ⓐ 3 | 1880 | 500 | 3.15 | 69 | 70 |
| Ⓐ 4 | 1925 | 476 | 3.00 | 71 | 62 |
| Ⓐ 5 | 1580 | 200 | 1.20 | 71 | — |
| Ⓐ 6 | 1580 | 260 | 1.50 | 67 | 56 |
| Ⓐ 7 | 1580 | 290 | 1.70 | 64 | 70 |
| Ⓐ 8 | 1580 | 265 | 1.60 | 64 | 62 |
| Ⓐ 9 | 1280 | 110 | 0.70 | 65 | — |
| Ⓐ 10 | 1280 | 144 | 0.90 | 61 | 56 |
| Ⓐ 11 | 1280 | 157 | 1.00 | 58 | 70 |
| Ⓐ 12 | 1280 | 132 | 0.80 | 59 | 62 |
| Ⓐ 13 | 910 | 44 | 0.30 | 55 | — |
| Ⓐ 14 | 910 | 57 | 0.40 | 52 | 56 |
| Ⓐ 15 | 910 | 62 | 0.40 | 49 | 70 |
| Ⓐ 16 | 910 | 48 | 0.40 | 50 | 62 |



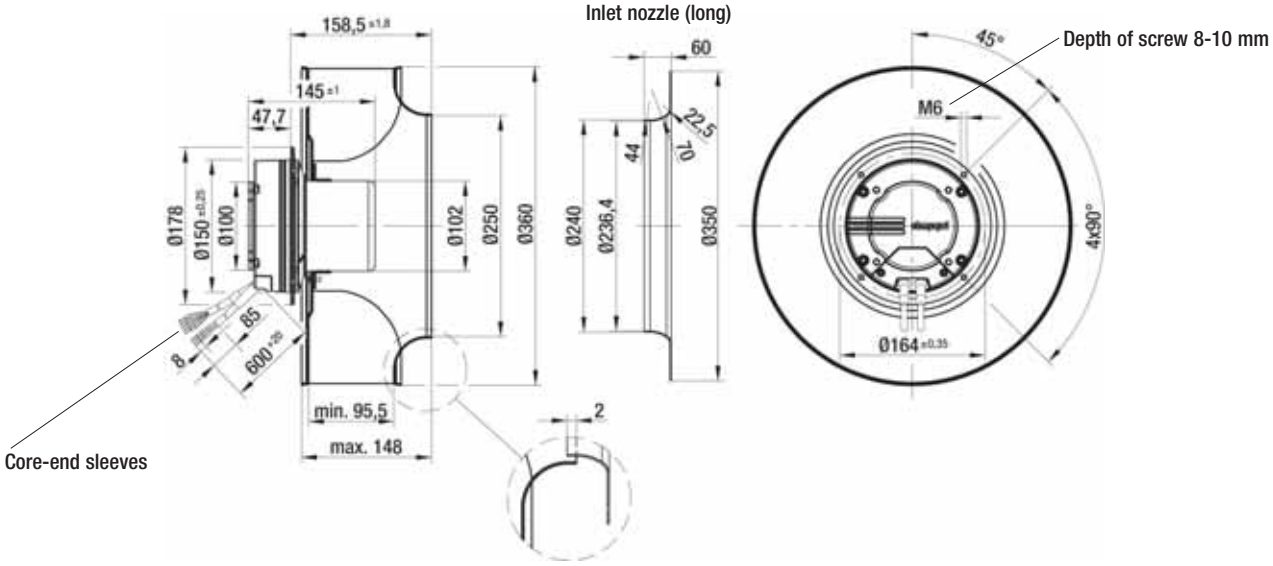
ebmpapst

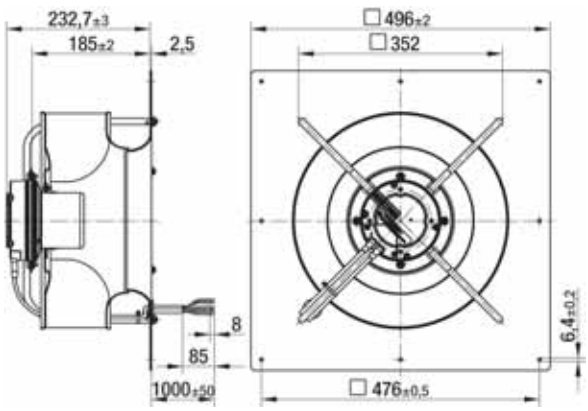
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA; VDE, CCC, GOST are applied for

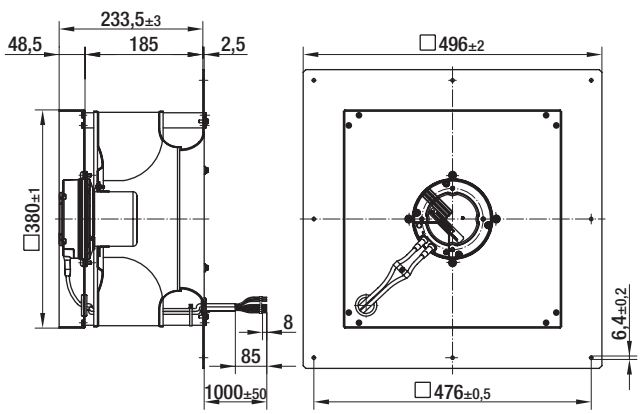



| Centrifugal fan | kg | Inlet nozzle (long) | Inlet nozzle (short) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|---|
| **R3G 355-AM29-71** | 5.7 | 35560-2-4013 | 35561-2-4013 | **K3G 355-AM29-72** | 9.2 | **K3G 355-AM29-71** | 8.8 |



# EC centrifugal fans and modules

## backward curved, 3-D, Ø 355

- **Material:** Support bracket: Steel, coated in black
  Support plate: Sheet aluminium, 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 54
- **Insulation class:** "B"
- **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

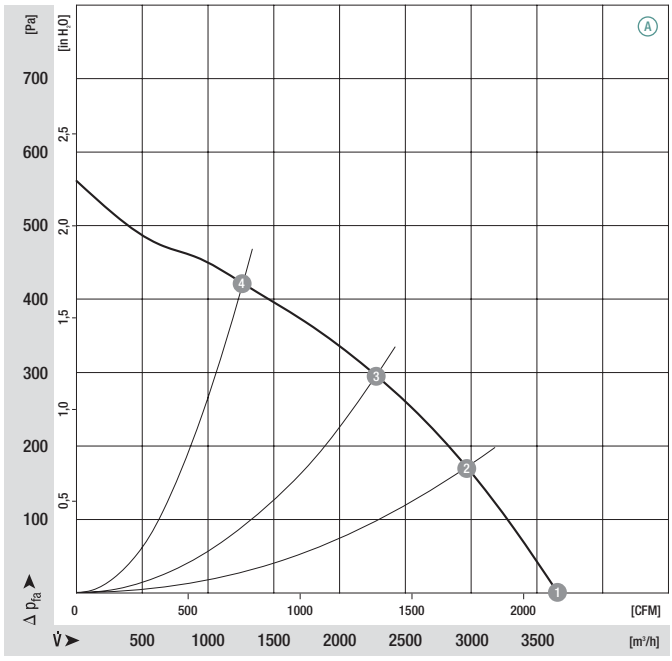
**Nominal data**

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 605 |
| *3G 355 | M3G 084-FA | Ⓐ | 1~ 100-130 | 50/60 | 1630 | 350 | 4.20 | -25 to +60 | K1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

**Curves** (established with long inlet nozzle)

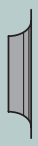


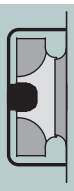
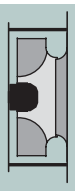

| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1630 | 283 | 3.50 | 72 | — |
| Ⓐ 2 | 1580 | 344 | 4.00 | 68 | 58 |
| Ⓐ 3 | 1570 | 350 | 4.20 | 64 | 68 |
| Ⓐ 4 | 1605 | 319 | 3.90 | 67 | 57 |



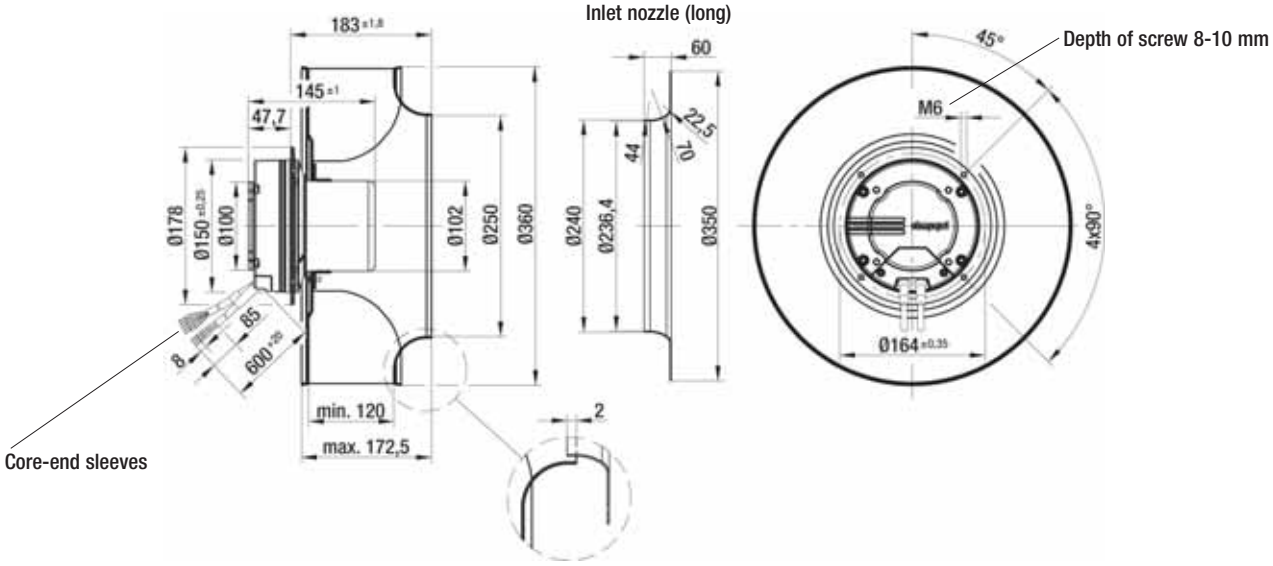
ebmpapst

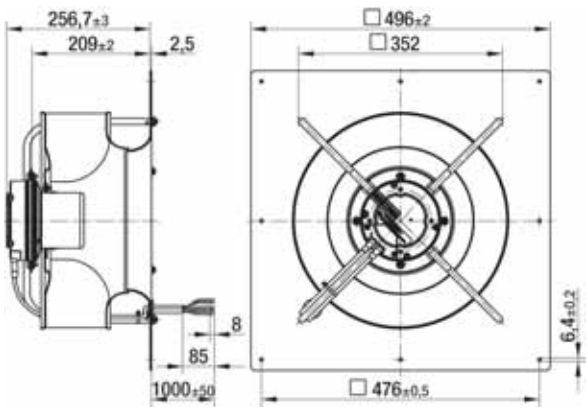
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA, VDE, CCC, GOST are applied for

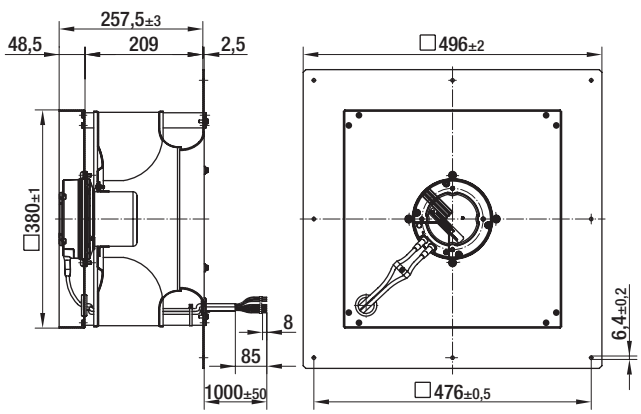



| Centrifugal fan | kg | Inlet nozzle (long) | Inlet nozzle (short) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|---|
| **R3G 355-AN37 -81** | 5.8 | 35560-2-4013 | 35561-2-4013 | **K3G 355-AN37 -82** | 10.0 | **K3G 355-AN37 -81** | 9.0 |



# EC centrifugal fans and modules

## backward curved, 3-D, Ø 355

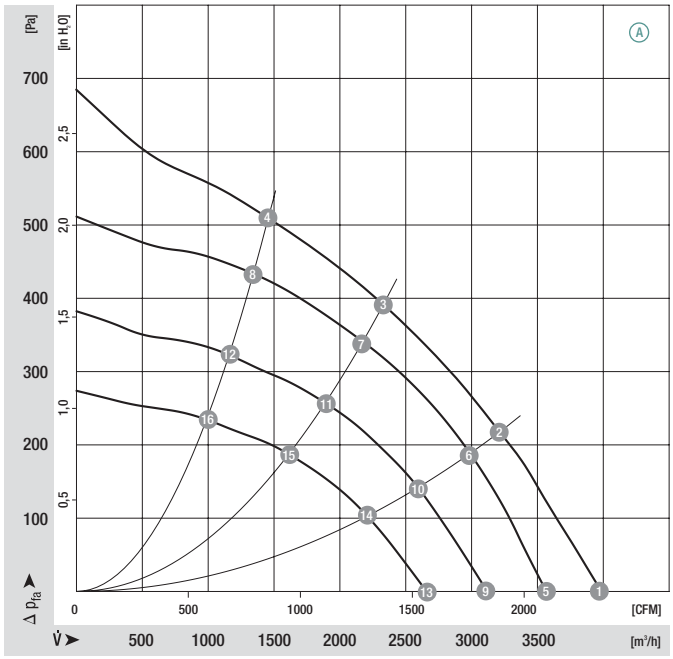
- **Material:** Support bracket: Steel, coated in black
  Support plate: Sheet aluminium, spacer profiles: Aluminium
  Impeller: Sheet aluminium, laser-welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **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 | | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **W** | **A** | **°C** | p. 605 |
| ***3G 355** | M3G 084-FA | Ⓐ | 1~ 200-277 | 50/60 | 1770 | 450 | 2.90 | -25 to +60 | K1) |

subject to alterations

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

**Curves** (established with long inlet nozzle)

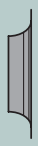


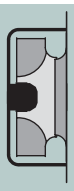
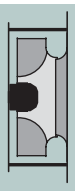

| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1770 | 362 | 2.30 | 73 | — |
| Ⓐ 2 | 1720 | 434 | 2.75 | 68 | 58 |
| Ⓐ 3 | 1710 | 450 | 2.90 | 64 | 68 |
| Ⓐ 4 | 1745 | 412 | 2.60 | 67 | 57 |
| Ⓐ 5 | 1620 | 270 | 1.60 | 73 | — |
| Ⓐ 6 | 1620 | 360 | 2.10 | 67 | 58 |
| Ⓐ 7 | 1620 | 375 | 2.20 | 63 | 68 |
| Ⓐ 8 | 1620 | 335 | 2.00 | 65 | 57 |
| Ⓐ 9 | 1400 | 182 | 1.10 | 67 | — |
| Ⓐ 10 | 1400 | 235 | 1.40 | 64 | 58 |
| Ⓐ 11 | 1400 | 247 | 1.50 | 59 | 68 |
| Ⓐ 12 | 1400 | 218 | 1.30 | 62 | 57 |
| Ⓐ 13 | 1200 | 120 | 0.80 | 62 | — |
| Ⓐ 14 | 1200 | 152 | 1.00 | 59 | 58 |
| Ⓐ 15 | 1200 | 160 | 1.00 | 56 | 68 |
| Ⓐ 16 | 1200 | 140 | 0.90 | 57 | 57 |



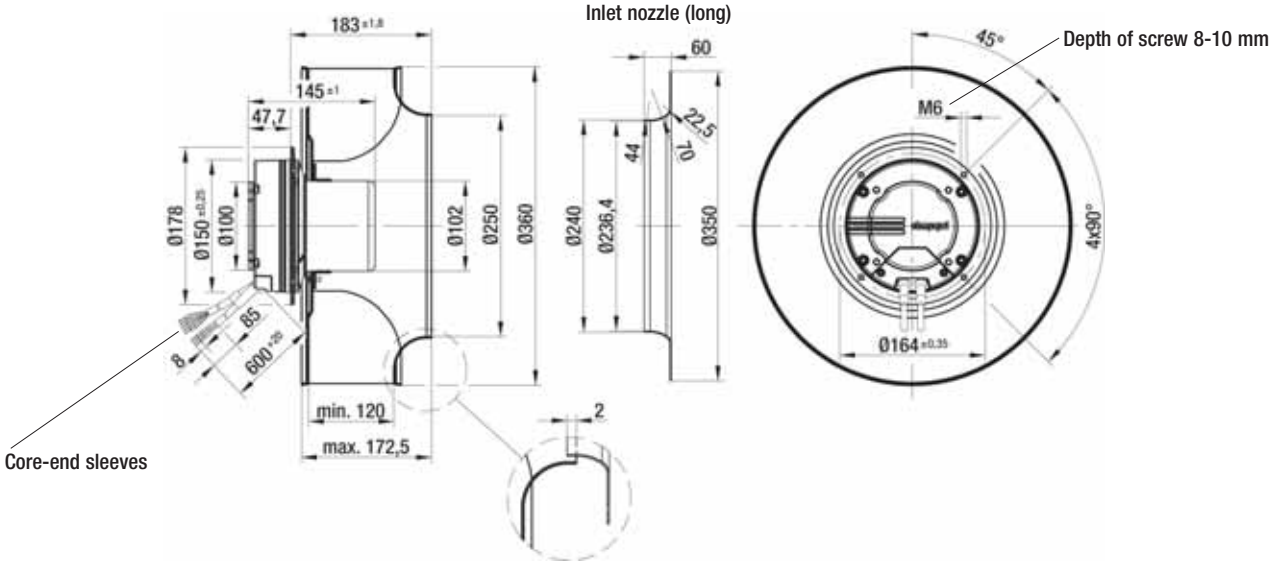
ebmpapst

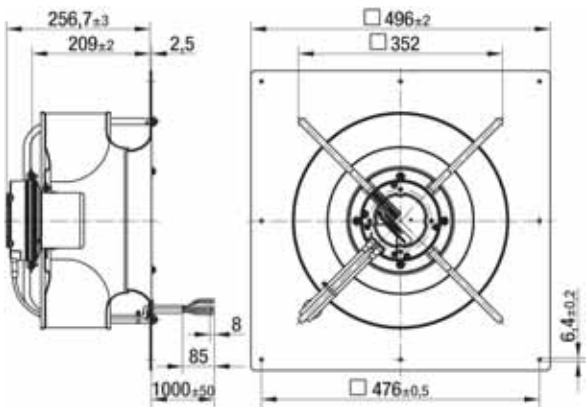
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA; VDE, CCC, GOST are applied for

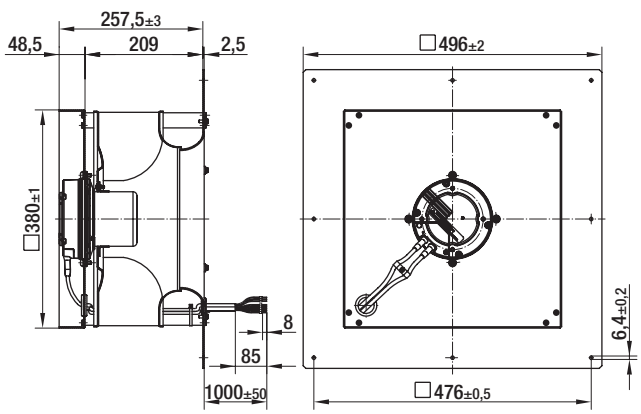



| Centrifugal fan | kg | Inlet nozzle (long) | Inlet nozzle (short) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|---|
| **R3G 355-AN04 -71** | 5.8 | 35560-2-4013 | 35561-2-4013 | **K3G 355-AN04 -72** | 10.0 | **K3G 355-AN04 -71** | 9.0 |

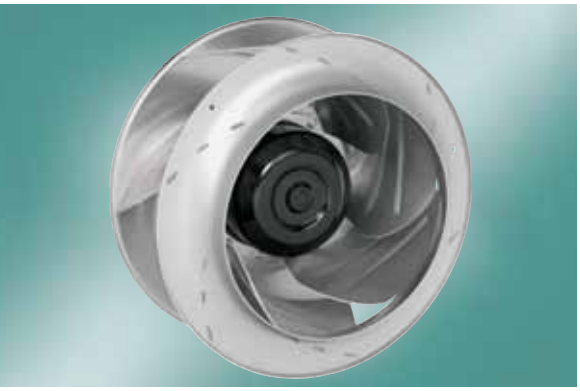


# EC centrifugal fans and modules

## backward curved, 3-D, Ø 355



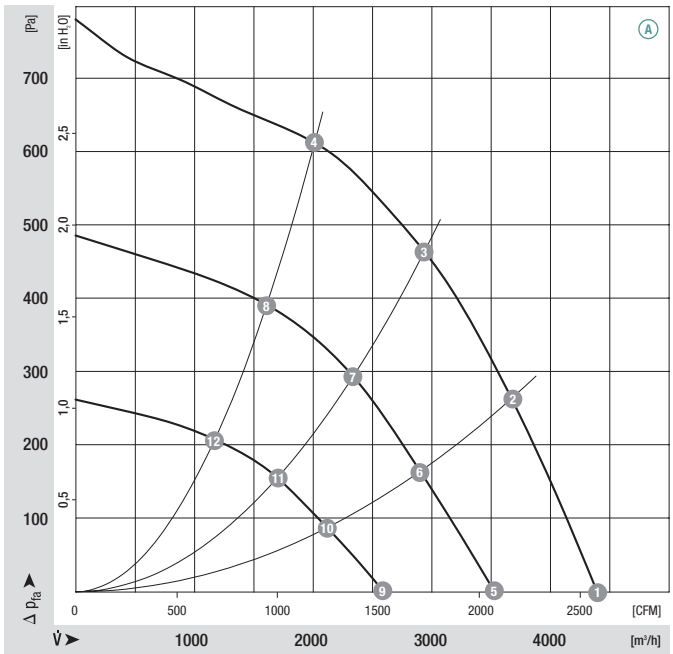
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, laser-welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 607 |
| ***3G 355** | M3G 112-EA | Ⓐ | 1~ 200-277 | 50/60 | 2035 | 0.74 | 3.34 | -25 to +60 | L1) |

subject to alterations

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

**Curves** (established with long inlet nozzle)




| | n [rpm] | $P_1$ [kW] | I [A] | $Lw_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2035 | 0.57 | 2.60 | 84 | — |
| Ⓐ 2 | 2035 | 0.69 | 3.10 | 81 | 52 |
| Ⓐ 3 | 2035 | 0.74 | 3.30 | 78 | 64 |
| Ⓐ 4 | 2035 | 0.70 | 3.10 | 82 | 61 |
| Ⓐ 5 | 1585 | 0.28 | 1.30 | 76 | — |
| Ⓐ 6 | 1580 | 0.32 | 1.50 | 73 | 52 |
| Ⓐ 7 | 1580 | 0.34 | 1.60 | 71 | 71 |
| Ⓐ 8 | 1580 | 0.33 | 1.50 | 73 | 68 |
| Ⓐ 9 | 1150 | 0.12 | 0.60 | 67 | — |
| Ⓐ 10 | 1145 | 0.14 | 0.70 | 64 | 54 |
| Ⓐ 11 | 1140 | 0.15 | 0.70 | 63 | 74 |
| Ⓐ 12 | 1145 | 0.14 | 0.60 | 64 | 72 |



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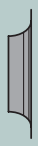
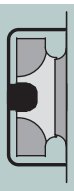
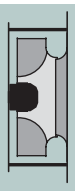
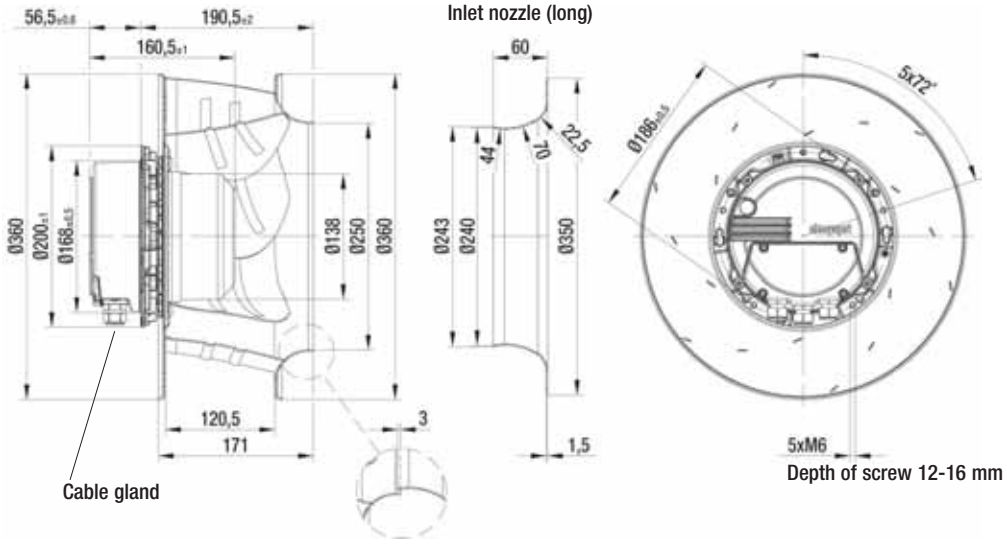
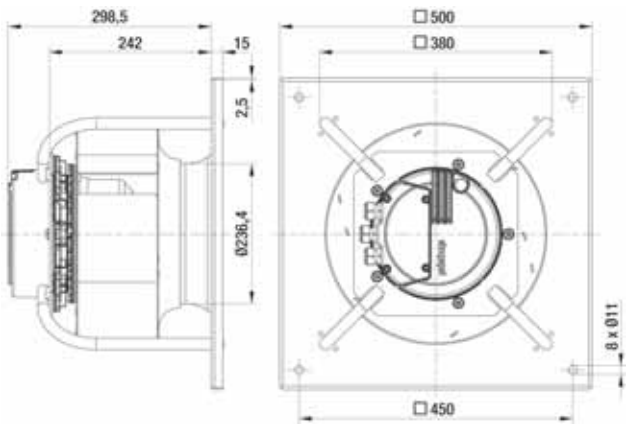
- **Technical features:**
  - PFC (active)
  - Integrated PID controller
  - Control input 0-10 VDC / PWM
  - Input for sensor 0-10 V or 4-20 mA
  - Slave output 0-10 V max. 3 mA
  - Output 20 VDC (±20 %) max. 50 mA
  - Output 10 VDC (+10 %) max. 10 mA
  - RS485 ebmBUS
  - Alarm relay
  - Line undervoltage detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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
- **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

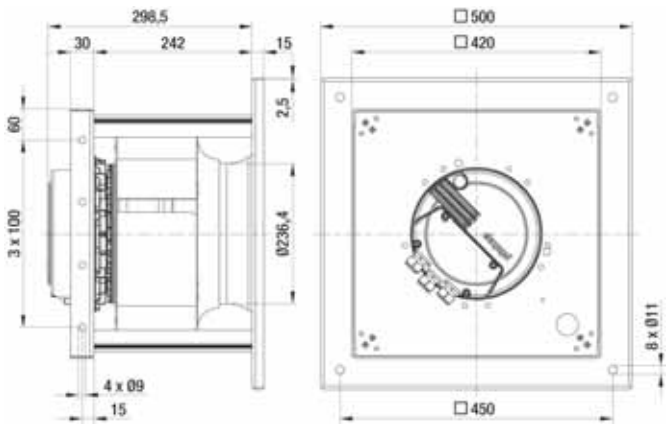



| Centrifugal fan | kg | Inlet nozzle (long) | Inlet nozzle (short) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|---|
| | Mass of centrifugal fan | | | | Mass of centrifugal module with support bracket | | Mass of centrifugal module with support plate |
| **R3G 355-AI52 -11** | 7.3 | 35560-2-4013 | 35561-2-4013 | **K3G 355-AI52 -12** | 15.8 | **K3G 355-AI52 -11** | 18.6 |





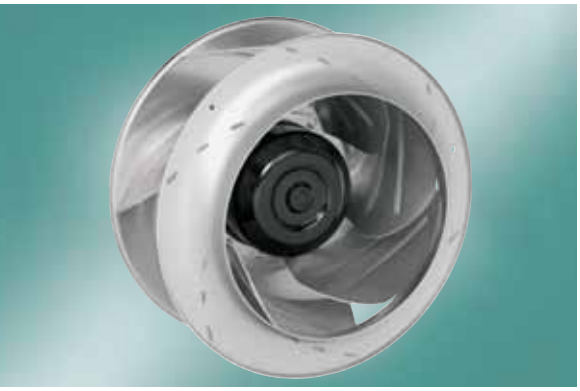




Inlet nozzle p. 550 f.
Electr. connection p. 607

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 355



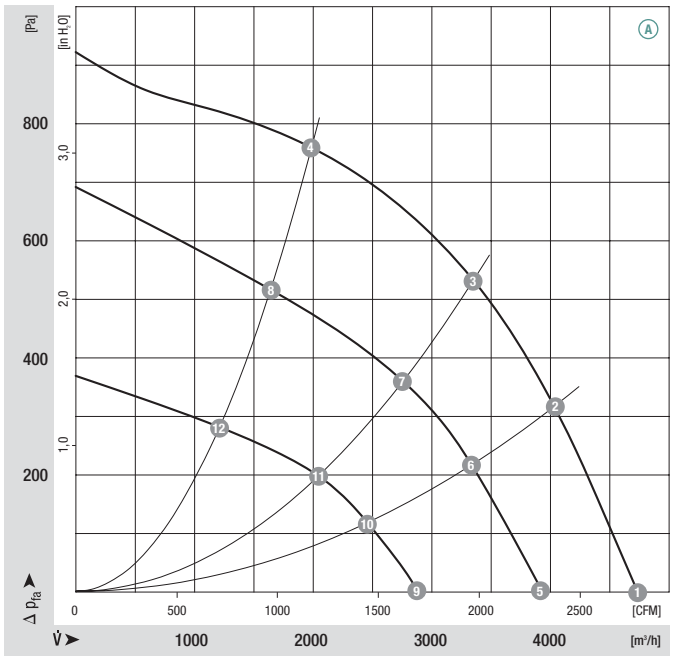
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, laser-welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 607 |
| ***3G 355** | M3G 112-EA | Ⓐ | 3~ 200-240 | 50/60 | 2215 | 0.94 | 3.00 | -25 to +60 | L2) |

subject to alterations

(1) Nominal data in operating point with maximum load and 200 VAC

**Curves** (established with long inlet nozzle)




| | n [rpm] | $P_1$ [kW] | I [A] | $Lw_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2205 | 0.70 | 2.50 | 87 | — |
| Ⓐ 2 | 2215 | 0.88 | 2.80 | 83 | 48 |
| Ⓐ 3 | 2215 | 0.94 | 3.00 | 80 | 59 |
| Ⓐ 4 | 2215 | 0.85 | 2.70 | 85 | 53 |
| Ⓐ 5 | 1825 | 0.38 | 1.50 | 82 | — |
| Ⓐ 6 | 1805 | 0.47 | 1.70 | 77 | 52 |
| Ⓐ 7 | 1790 | 0.49 | 1.80 | 73 | 65 |
| Ⓐ 8 | 1800 | 0.46 | 1.90 | 77 | 58 |
| Ⓐ 9 | 1335 | 0.17 | 0.70 | 72 | — |
| Ⓐ 10 | 1315 | 0.20 | 0.80 | 68 | 57 |
| Ⓐ 11 | 1315 | 0.21 | 0.90 | 65 | 69 |
| Ⓐ 12 | 1310 | 0.19 | 0.80 | 67 | 60 |



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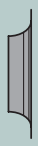
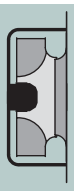
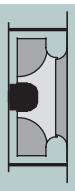
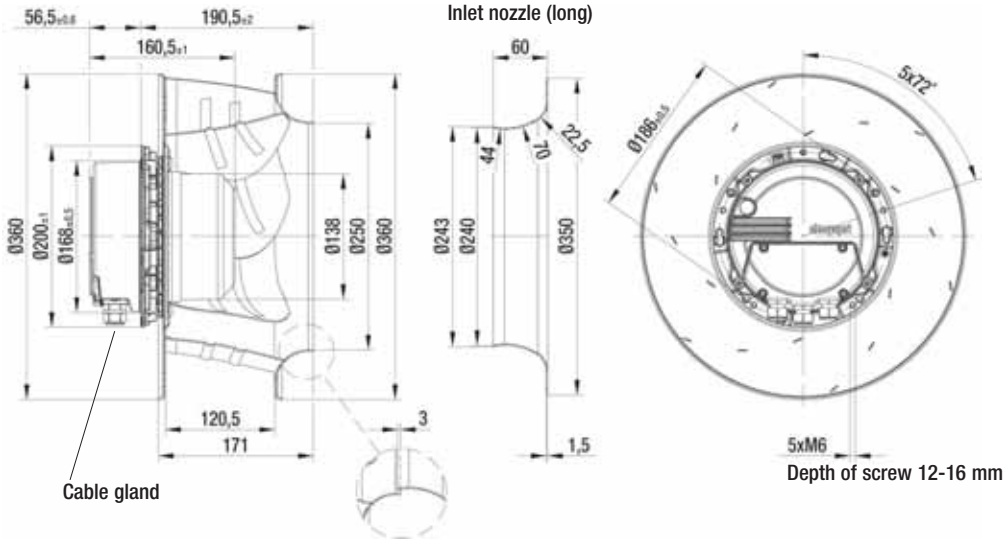
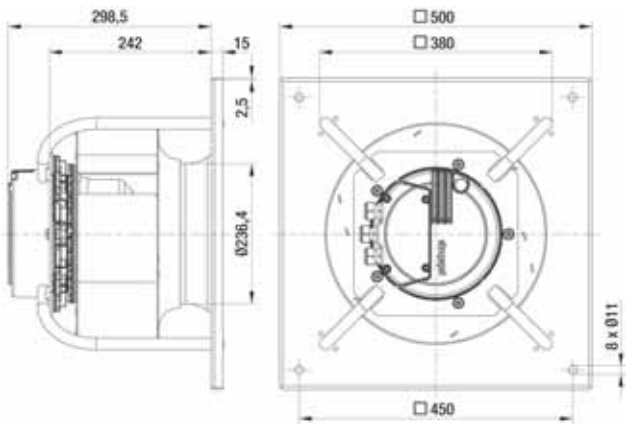
- **Technical features:**
  - PFC (passive)
  - Integrated PID controller
  - Control input 0-10 VDC / PWM
  - Input for sensor 0-10 V or 4-20 mA
  - Slave output 0-10 V max. 3 mA
  - Output 20 VDC (±20 %) max. 50 mA
  - Output 10 VDC (+10 %) max. 10 mA
  - RS485 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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

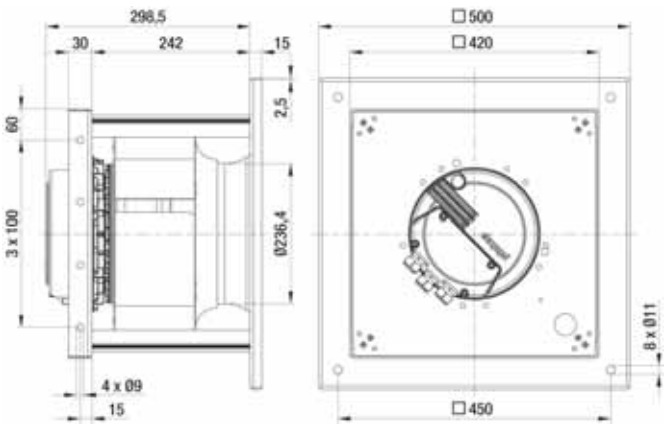



| Centrifugal fan | kg | Inlet nozzle (long) | Inlet nozzle (short) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|---|
| **R3G 355-AI62 -06** | 7.3 | 35560-2-4013 | 35561-2-4013 | **K3G 355-AI62 -07** | 15.8 | **K3G 355-AI62 -06** | 18.6 |





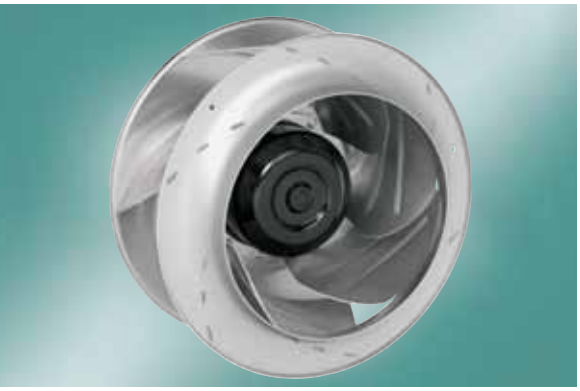




Inlet nozzle p. 550 f.
Electr. connection p. 607

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 355



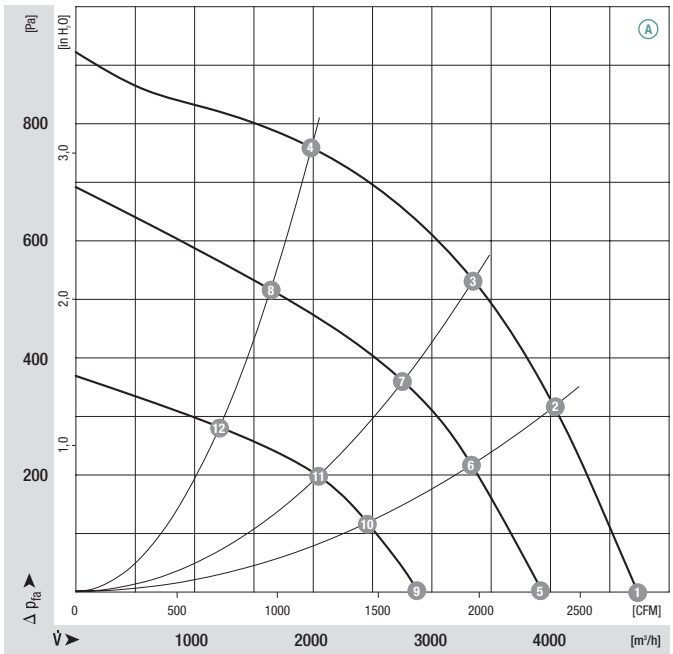
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, laser-welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 607 |
| ***3G 355** | M3G 112-EA | Ⓐ | 3~ 380-480 | 50/60 | 2215 | 0.94 | 1.50 | -25 to +60 | L2) |

subject to alterations

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

**Curves** (established with long inlet nozzle)




| | n [rpm] | $P_1$ [kW] | I [A] | $Lw_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2205 | 0.70 | 1.30 | 87 | — |
| Ⓐ 2 | 2215 | 0.88 | 1.40 | 83 | 48 |
| Ⓐ 3 | 2215 | 0.94 | 1.50 | 80 | 59 |
| Ⓐ 4 | 2215 | 0.85 | 1.40 | 85 | 53 |
| Ⓐ 5 | 1825 | 0.38 | 0.70 | 82 | — |
| Ⓐ 6 | 1805 | 0.47 | 0.90 | 77 | 52 |
| Ⓐ 7 | 1790 | 0.49 | 0.90 | 73 | 65 |
| Ⓐ 8 | 1800 | 0.46 | 0.90 | 77 | 58 |
| Ⓐ 9 | 1335 | 0.17 | 0.40 | 72 | — |
| Ⓐ 10 | 1315 | 0.20 | 0.40 | 68 | 57 |
| Ⓐ 11 | 1315 | 0.21 | 0.40 | 65 | 69 |
| Ⓐ 12 | 1310 | 0.19 | 0.40 | 67 | 60 |



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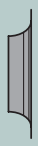
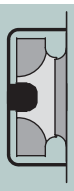
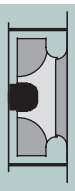
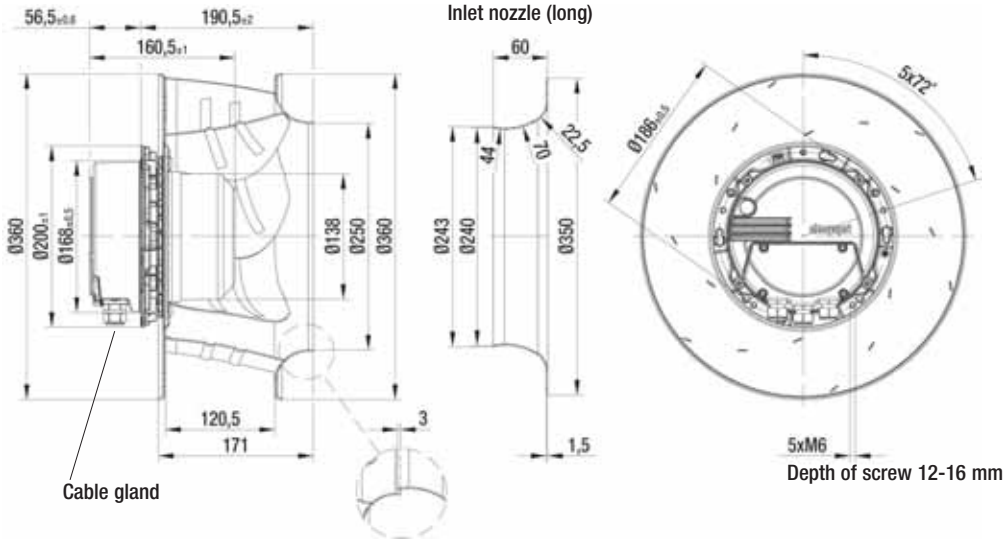
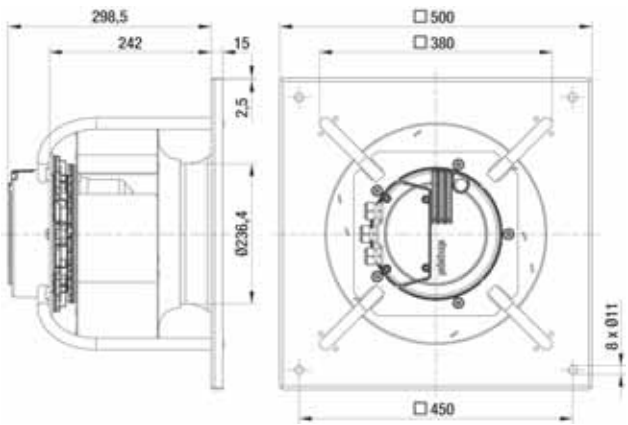
- **Technical features:**
  - PFC (passive)
  - Integrated PID controller
  - Control input 0-10 VDC / PWM
  - Input for sensor 0-10 V or 4-20 mA
  - Slave output 0-10 V max. 3 mA
  - Output 20 VDC (±20 %) max. 50 mA
  - Output 10 VDC (+10 %) max. 10 mA
  - RS485 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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

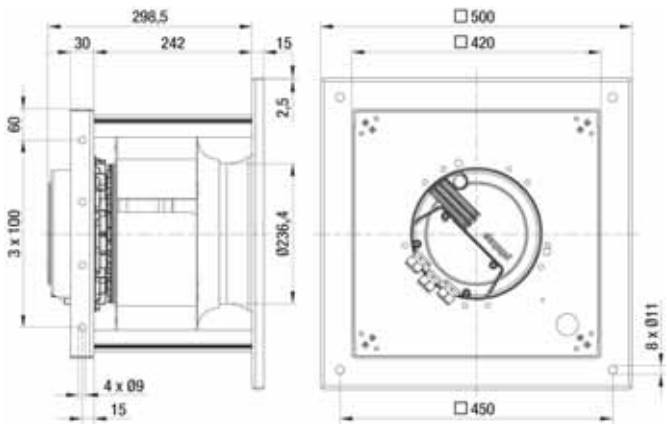



| Centrifugal fan | kg | Inlet nozzle (long) | Inlet nozzle (short) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|---|
| | Mass of centrifugal fan | | | | Mass of centrifugal module with support bracket | | Mass of centrifugal module with support plate |
| **R3G 355-AI56 -01** | 7.3 | 35560-2-4013 | 35561-2-4013 | **K3G 355-AI56 -02** | 15.8 | **K3G 355-AI56 -01** | 18.6 |



# EC centrifugal fans and modules

## backward curved, 3-D, Ø 400

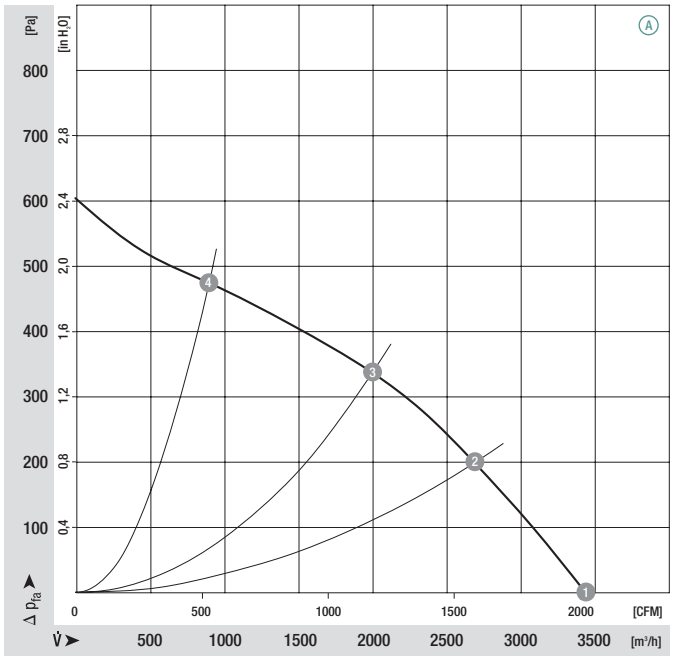
- **Material:** Support bracket: Steel, coated in black
  Support plate: Sheet aluminium, spacer profiles: Aluminium
  Impeller: Sheet aluminium, joined by tabs
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **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 | | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **W** | **A** | **°C** | p. 605 |
| ***3G 400** | M3G 084-FA | Ⓐ | 1~ 100-130 | 50/60 | 1460 | 350 | 4.20 | -25 to +60 | K1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

## Curves

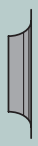
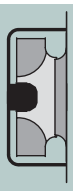
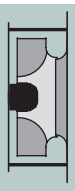



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1460 | 299 | 3.60 | 73 | — |
| Ⓐ 2 | 1415 | 346 | 4.10 | 66 | 58 |
| Ⓐ 3 | 1415 | 350 | 4.20 | 62 | 70 |
| Ⓐ 4 | 1465 | 298 | 3.60 | 66 | 60 |

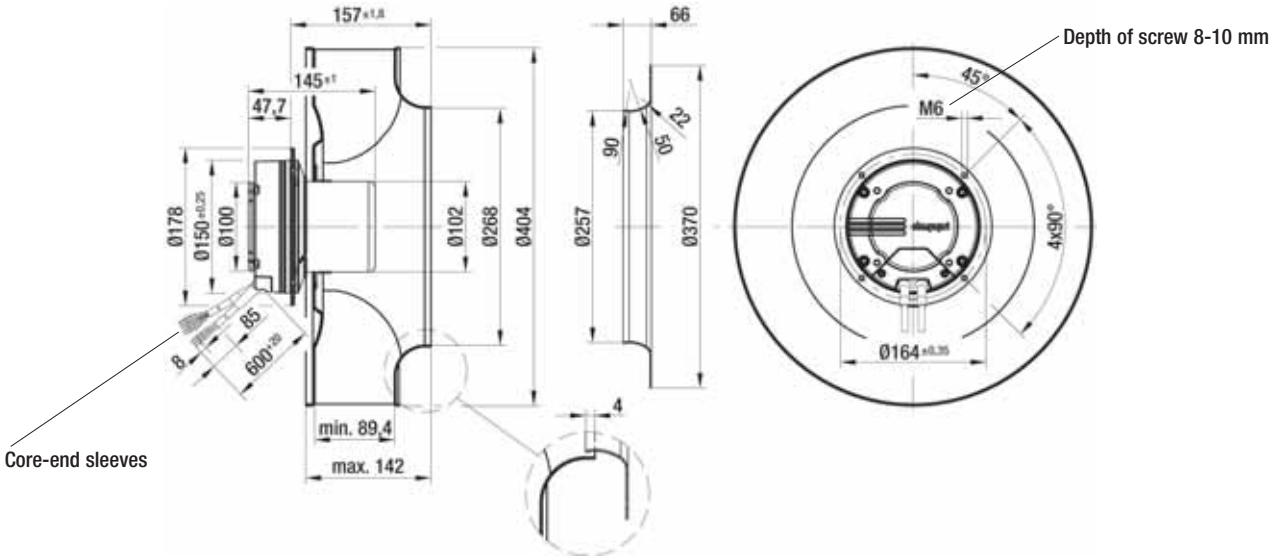


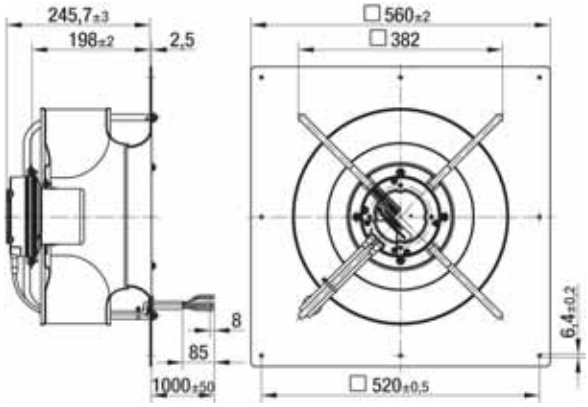
ebmpapst

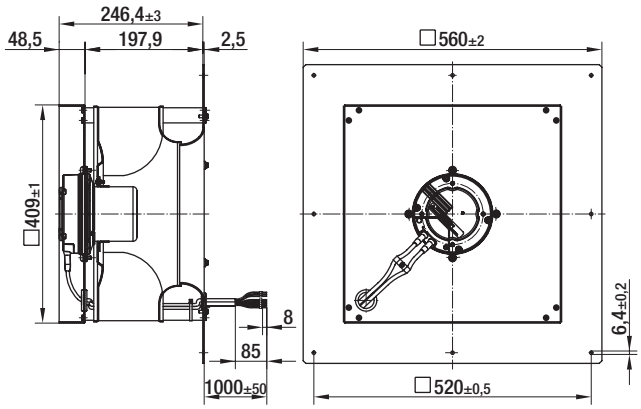
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** VDE, UL, CSA, CCC, GOST are applied for

| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Centrifugal module w. support bracket | Mass of centrifugal module with support bracket kg | Centrifugal module with support plate | Mass of centrifugal module with support plate kg |
|---|---|---|---|---|---|---|
| **R3G 400-AD42 -81** | 6.1 | 54476-2-4013 | **K3G 400-AD42 -82** | 10.7 | **K3G 400-AD42 -81** | 9.9 |









Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 605

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 400

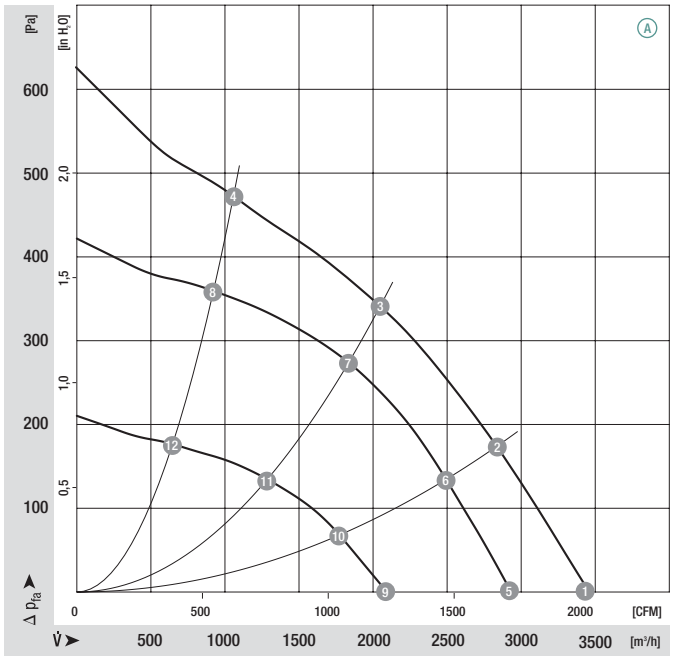
- **Material:** Support bracket: Steel, coated in black
  Support plate: Sheet aluminium, spacer profiles: Aluminium
  Impeller: Sheet aluminium, joined by tabs
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **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 | | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **W** | **A** | **°C** | p. 605 |
| ***3G 400** | M3G 084-FA | Ⓐ | 1~ 200-277 | 50/60 | 1460 | 360 | 2.20 | -25 to +60 | K1) |

subject to alterations

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

## Curves



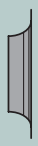

| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1460 | 302 | 1.85 | 72 | — |
| Ⓐ 2 | 1425 | 344 | 2.10 | 67 | 48 |
| Ⓐ 3 | 1420 | 360 | 2.20 | 63 | 67 |
| Ⓐ 4 | 1460 | 309 | 1.90 | 67 | 55 |
| Ⓐ 5 | 1270 | 195 | 1.20 | 68 | — |
| Ⓐ 6 | 1270 | 235 | 1.40 | 64 | 53 |
| Ⓐ 7 | 1270 | 250 | 1.50 | 61 | 67 |
| Ⓐ 8 | 1270 | 205 | 1.30 | 63 | 54 |
| Ⓐ 9 | 900 | 74 | 0.50 | 60 | — |
| Ⓐ 10 | 900 | 90 | 0.60 | 56 | 53 |
| Ⓐ 11 | 900 | 90 | 0.60 | 52 | 67 |
| Ⓐ 12 | 900 | 77 | 0.50 | 44 | 54 |

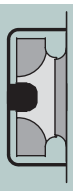


ebmpapst

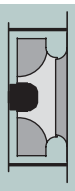
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA, CCC; VDE, GOST are applied for

Mass of centrifugal fan



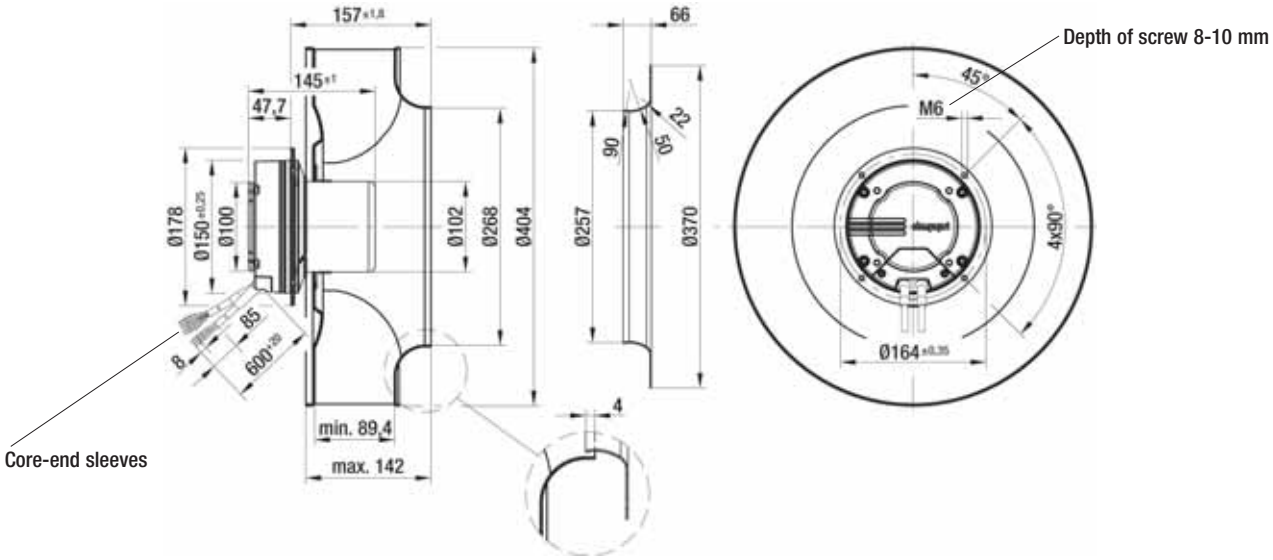


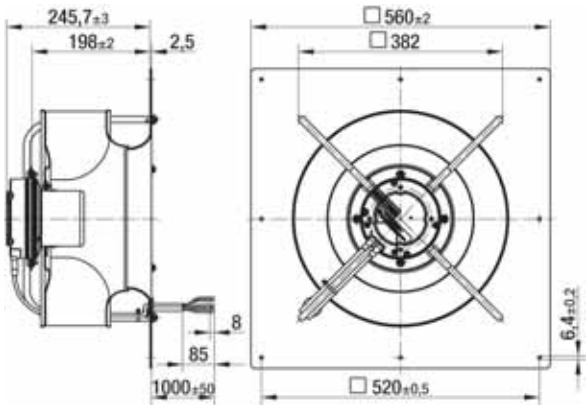
Mass of centrifugal module with support bracket

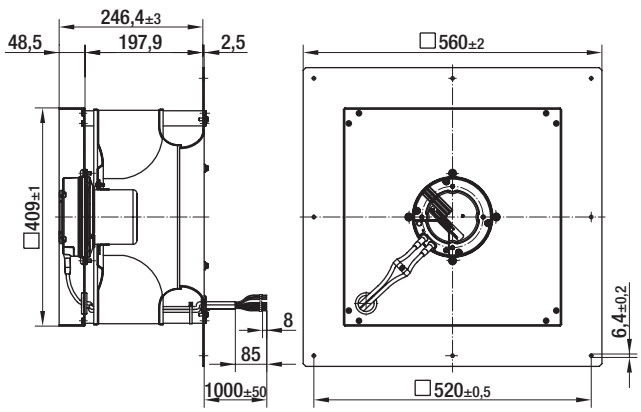


Mass of centrifugal module with support plate

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 400-AD32 -71** | 6.1 | 54476-2-4013 | **K3G 400-AD32 -72** | 10.7 | **K3G 400-AD32 -71** | 9.9 |






Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 605

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 400

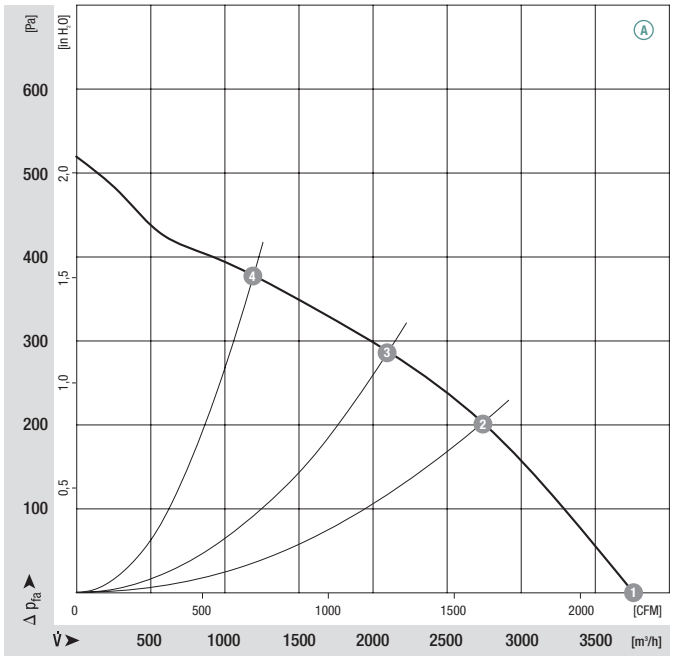
- **Material:** Support bracket: Steel, coated in black
  Support plate: Sheet aluminium, spacer profiles: Aluminium
  Impeller: Sheet aluminium, joined by tabs
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **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 | | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **W** | **A** | **°C** | p. 605 |
| ***3G 400** | M3G 084-FA | Ⓐ | 1~ 100-130 | 50/60 | 1320 | 325 | 3.90 | -25 to +60 | K1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

## Curves

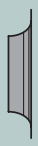
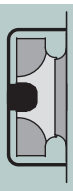
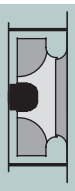



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1320 | 275 | 3.40 | 72 | — |
| Ⓐ 2 | 1275 | 317 | 3.80 | 66 | 60 |
| Ⓐ 3 | 1285 | 325 | 3.90 | 63 | 70 |
| Ⓐ 4 | 1320 | 285 | 3.50 | 66 | 57 |

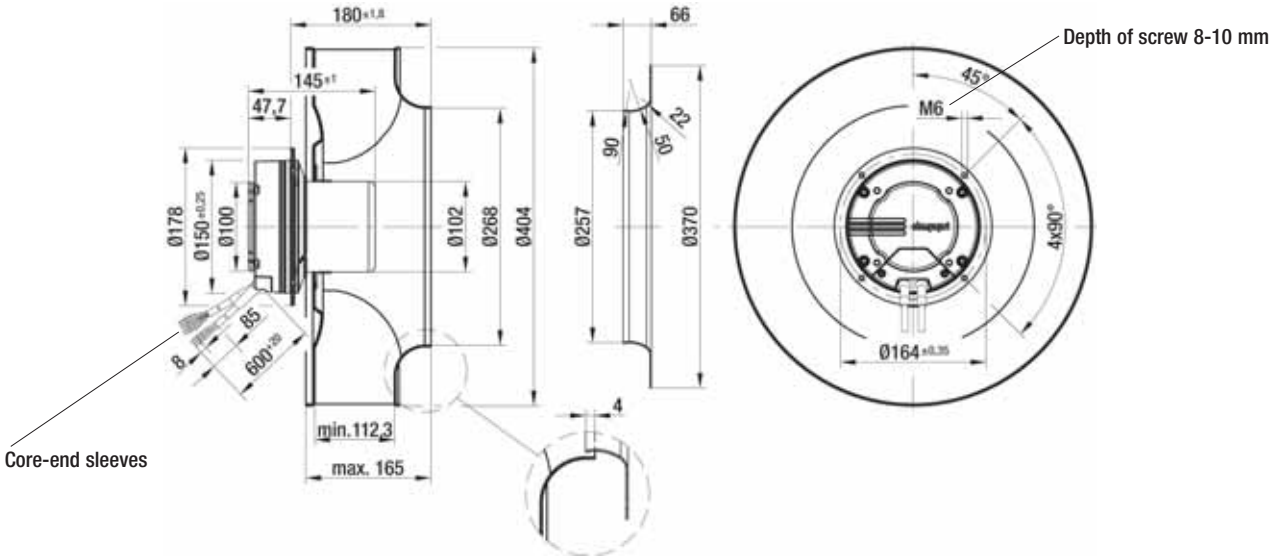


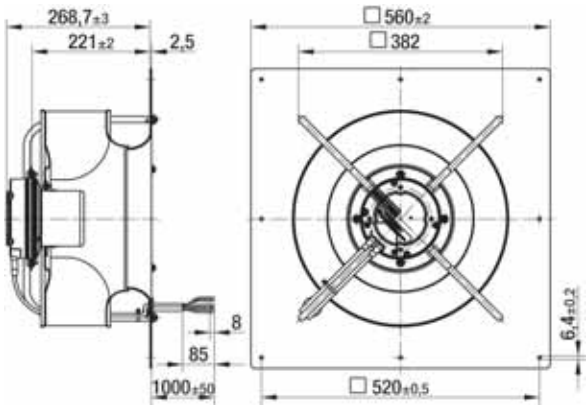
ebmpapst

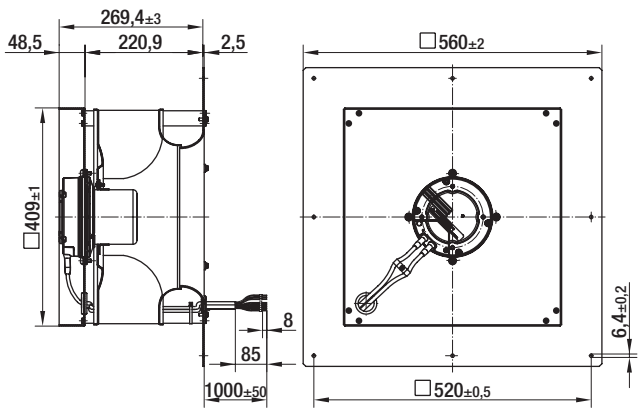
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** VDE, UL, CSA, CCC, GOST are applied for

| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Centrifugal module w. support bracket | Mass of centrifugal module with support bracket kg | Centrifugal module with support plate | Mass of centrifugal module with support plate kg |
|---|---|---|---|---|---|---|
| **R3G 400-AC42 -81** | 6.2 | 54476-2-4013 | **K3G 400-AC42 -82** | 11.0 | **K3G 400-AC42 -81** | 10.0 |






Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 605

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 400

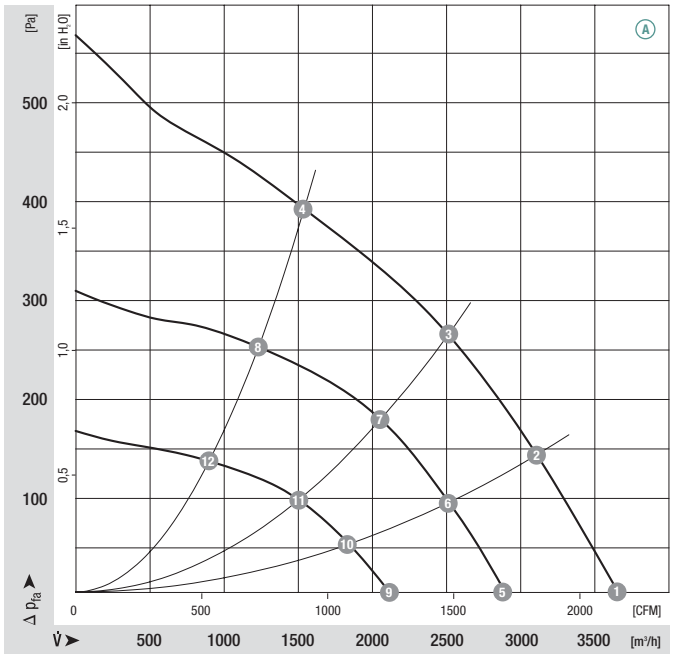
- **Material:** Support bracket: Steel, coated in black
  Support plate: Sheet aluminium, spacer profiles: Aluminium
  Impeller: Sheet aluminium, joined by tabs
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **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 | | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **W** | **A** | **°C** | p. 605 |
| ***3G 400** | M3G 084-FA | Ⓐ | 1~ 200-277 | 50/60 | 1365 | 355 | 2.20 | -25 to +60 | K1) |

subject to alterations

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

## Curves



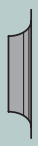

| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1365 | 306 | 1.90 | 72 | — |
| Ⓐ 2 | 1335 | 339 | 2.05 | 70 | 48 |
| Ⓐ 3 | 1320 | 355 | 2.20 | 65 | 64 |
| Ⓐ 4 | 1350 | 324 | 2.00 | 68 | 54 |
| Ⓐ 5 | 1080 | 152 | 0.95 | 67 | — |
| Ⓐ 6 | 1080 | 180 | 1.10 | 63 | 48 |
| Ⓐ 7 | 1080 | 195 | 1.20 | 60 | 64 |
| Ⓐ 8 | 1080 | 165 | 1.00 | 61 | 54 |
| Ⓐ 9 | 790 | 59 | 0.35 | 60 | — |
| Ⓐ 10 | 790 | 70 | 0.45 | 56 | 48 |
| Ⓐ 11 | 790 | 76 | 0.45 | 52 | 64 |
| Ⓐ 12 | 790 | 65 | 0.40 | 53 | 54 |

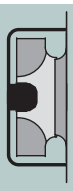


ebmpapst

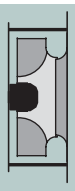
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA; VDE, CCC, GOST are applied for

Mass of centrifugal fan



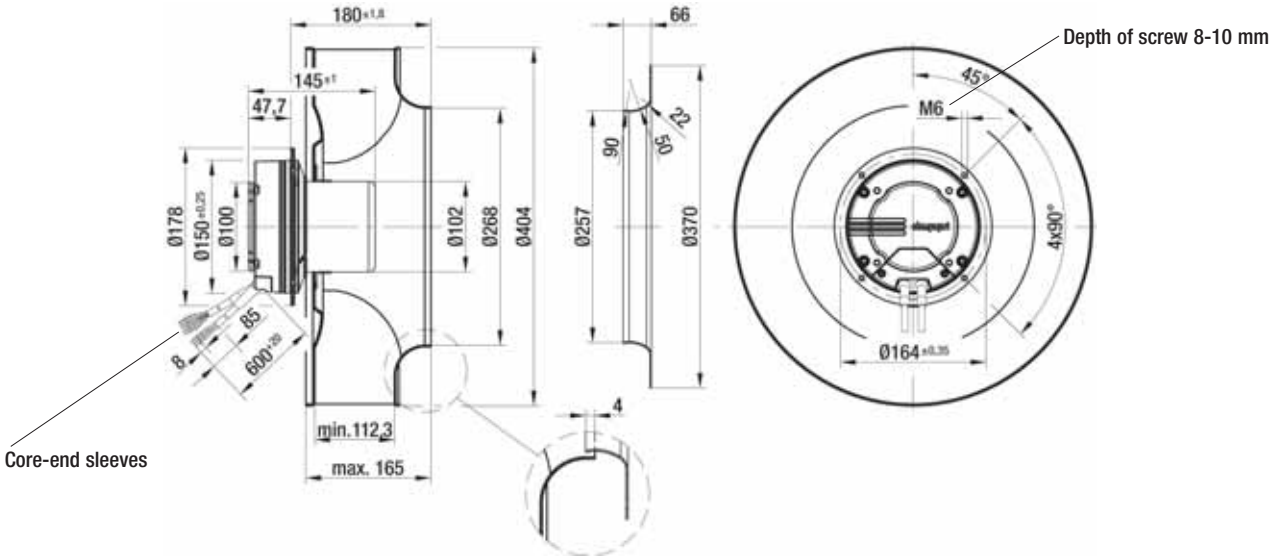


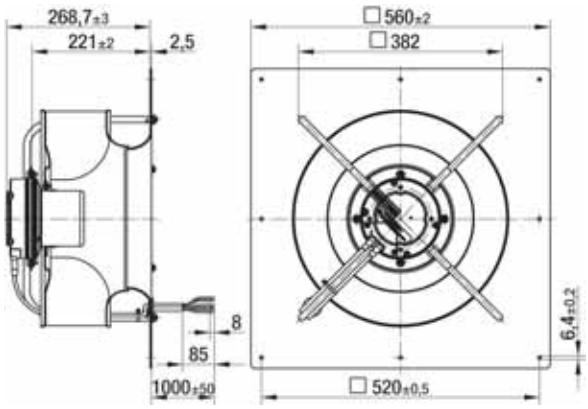
Mass of centrifugal module with support bracket

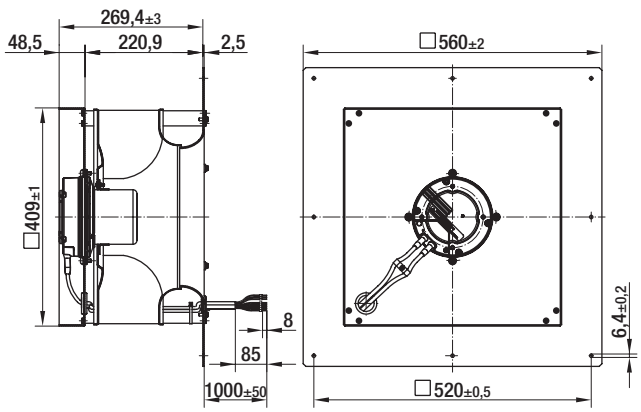


Mass of centrifugal module with support plate

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 400-AC28 -71** | 6.2 | 54476-2-4013 | **K3G 400-AC28 -72** | 11.0 | **K3G 400-AC28 -71** | 10.0 |









Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 605

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 400

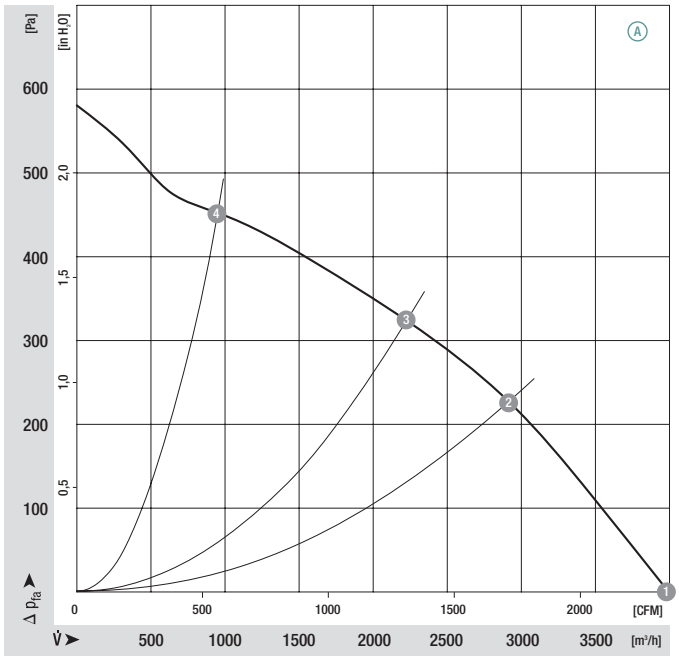
- **Material:** Support bracket: Steel, coated in black
  Support plate: Sheet aluminium, spacer profiles: Aluminium
  Impeller: Sheet aluminium, joined by tabs
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **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 | | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **W** | **A** | **°C** | p. 605 |
| ***3G 400** | M3G 084-FA | Ⓐ | 1~ 100-130 | 50/60 | 1400 | 380 | 4.50 | -25 to +40 | K1) |

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

## Curves



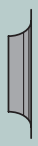

| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1400 | 328 | 3.90 | 74 | — |
| Ⓐ 2 | 1360 | 381 | 4.50 | 68 | 59 |
| Ⓐ 3 | 1365 | 380 | 4.50 | 65 | 68 |
| Ⓐ 4 | 1420 | 317 | 3.80 | 69 | 55 |

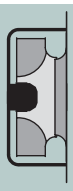


ebmpapst

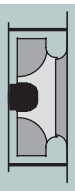
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** VDE, UL, CSA, CCC, GOST are applied for

Mass of centrifugal fan



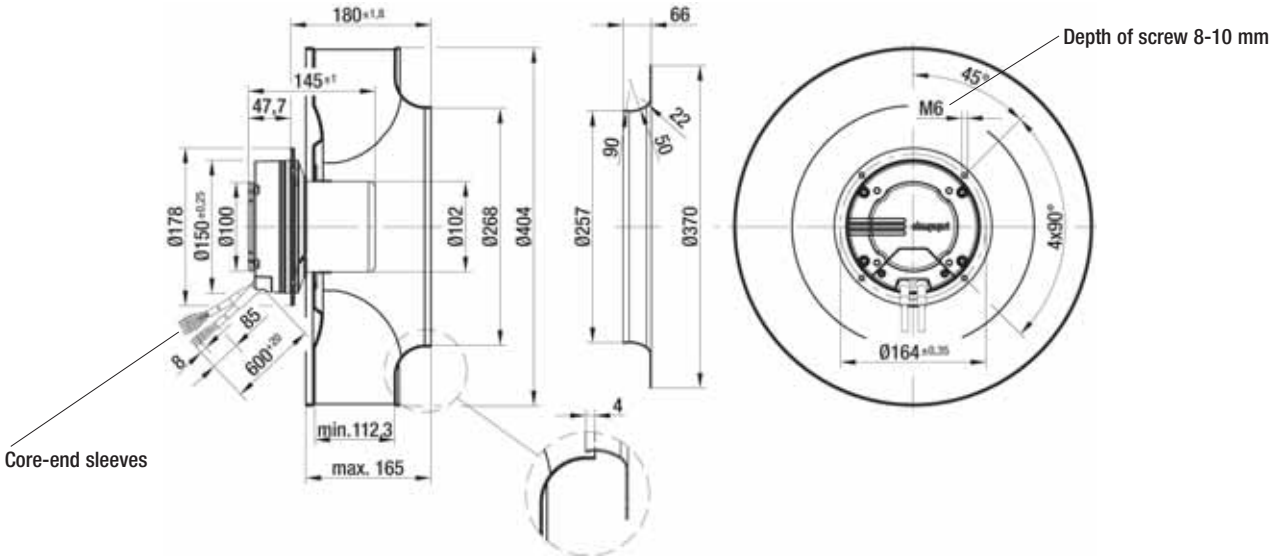


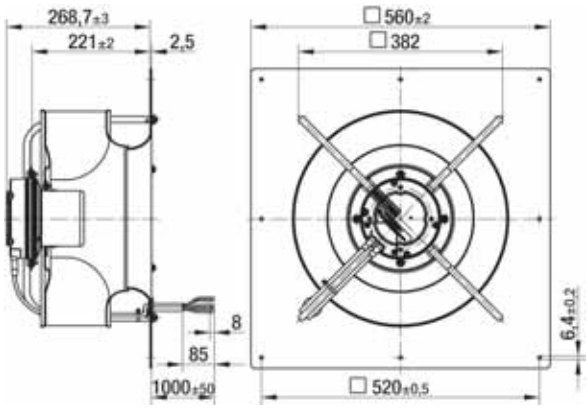
Mass of centrifugal module with support bracket

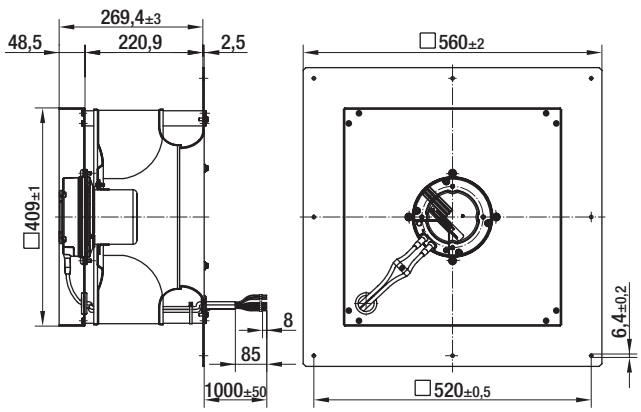


Mass of centrifugal module with support plate

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 400-AC15 -81** | 6.2 | 54476-2-4013 | **K3G 400-AC15 -82** | 11.0 | **K3G 400-AC15 -81** | 10.0 |









Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 605

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 400

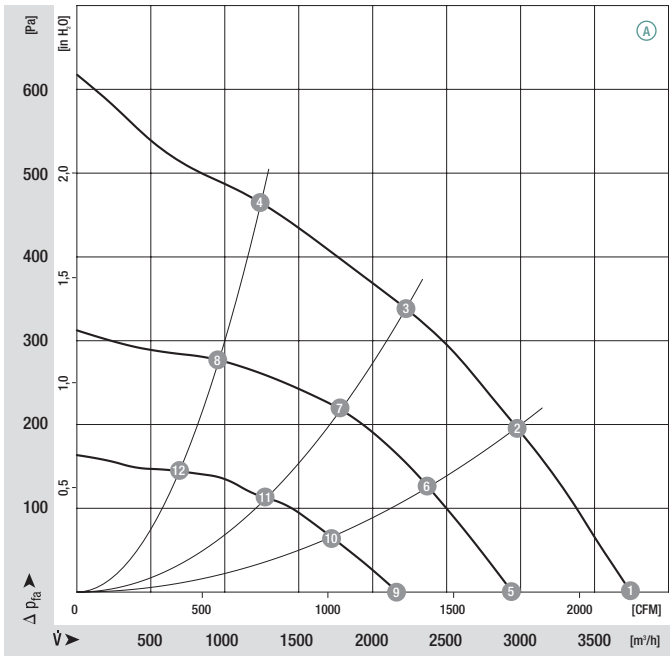
- **Material:** Support bracket: Steel, coated in black
  Support plate: Sheet aluminium, spacer profiles: Aluminium
  Impeller: Sheet aluminium, joined by tabs
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **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 | | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **W** | **A** | **°C** | p. 605 |
| ***3G 400** | M3G 084-FA | Ⓐ | 1~ 200-277 | 50/60 | 1410 | 410 | 2.50 | -25 to +40 | K1) |

subject to alterations

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

## Curves

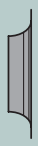
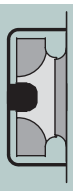
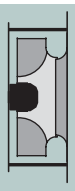



| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1410 | 359 | 2.20 | 74 | — |
| Ⓐ 2 | 1370 | 401 | 2.45 | 69 | 51 |
| Ⓐ 3 | 1375 | 410 | 2.50 | 66 | 64 |
| Ⓐ 4 | 1420 | 352 | 2.15 | 71 | 54 |
| Ⓐ 5 | 1110 | 161 | 1.00 | 68 | — |
| Ⓐ 6 | 1110 | 120 | 0.80 | 63 | 51 |
| Ⓐ 7 | 1110 | 194 | 1.20 | 59 | 64 |
| Ⓐ 8 | 1110 | 151 | 1.00 | 61 | 54 |
| Ⓐ 9 | 800 | 69 | 0.50 | 60 | — |
| Ⓐ 10 | 800 | 80 | 0.50 | 56 | 51 |
| Ⓐ 11 | 800 | 78 | 0.50 | 52 | 64 |
| Ⓐ 12 | 800 | 55 | 0.40 | 53 | 54 |

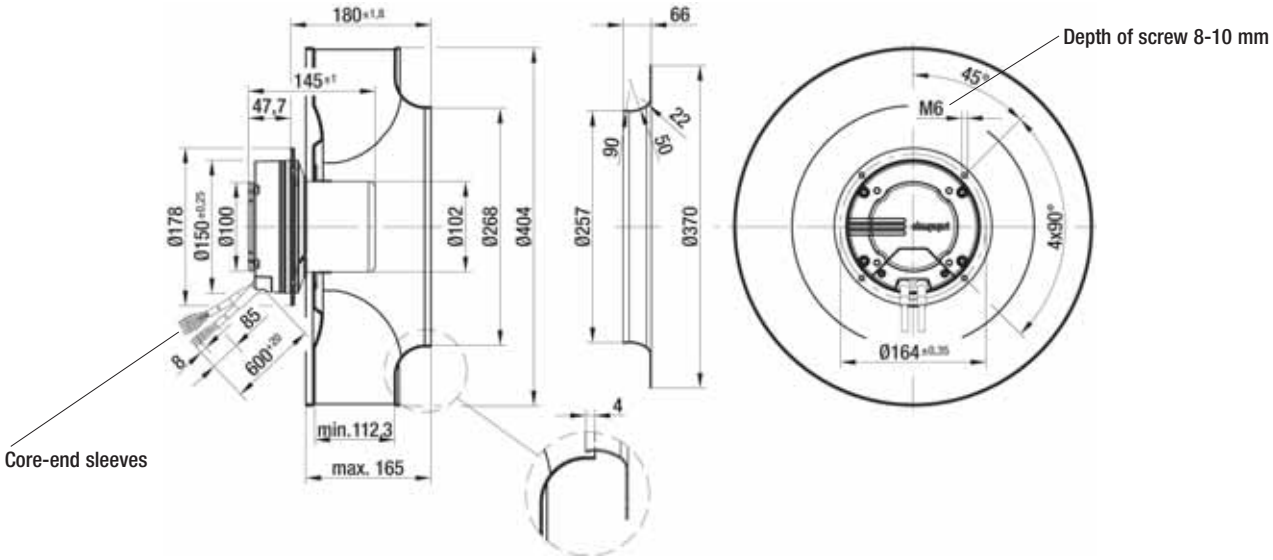


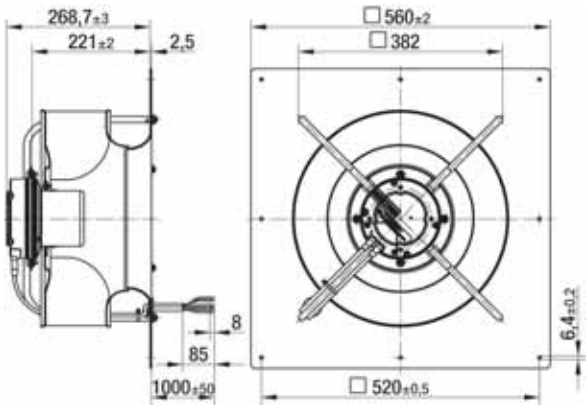
ebmpapst

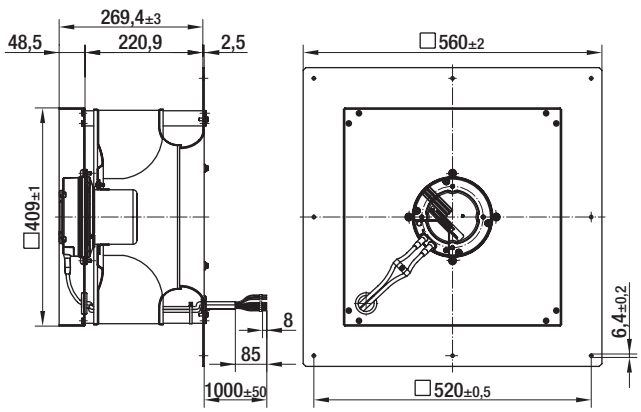
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA; VDE, CCC, GOST are applied for

| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Centrifugal module w. support bracket | Mass of centrifugal module with support bracket kg | Centrifugal module with support plate | Mass of centrifugal module with support plate kg |
|---|---|---|---|---|---|---|
| **R3G 400-AC32 -71** | 6.2 | 54476-2-4013 | **K3G 400-AC32 -72** | 11.0 | **K3G 400-AC32 -71** | 10.0 |









Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 605

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 400

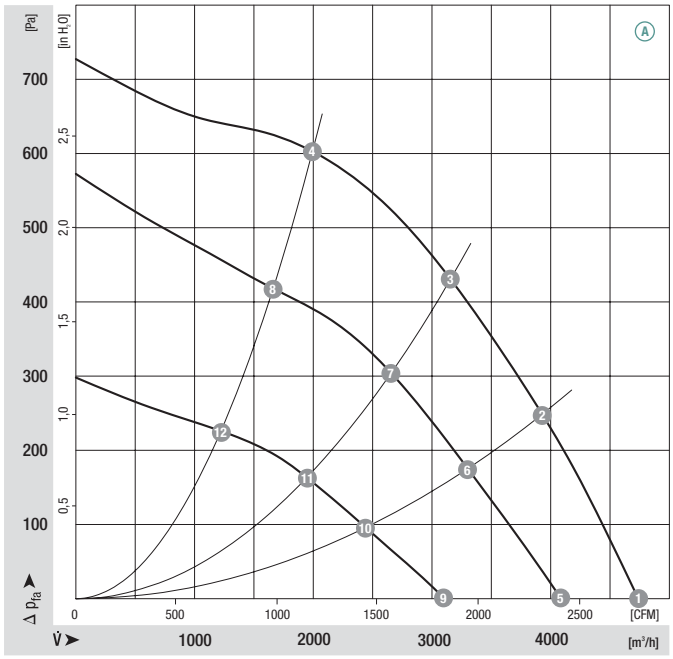
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, joined by tabs
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 607 |
| ***3G 400** | M3G 112-EA | Ⓐ | 1~ 200-277 | 50/60 | 1720 | 0.76 | 3.40 | -25 to +60 | L1) |

subject to alterations

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

## Curves



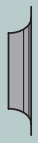

| | n [rpm] | $P_1$ [kW] | I [A] | $Lw_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1720 | 0.60 | 2.70 | 84 | — |
| Ⓐ 2 | 1725 | 0.72 | 3.20 | 80 | 51 |
| Ⓐ 3 | 1720 | 0.76 | 3.40 | 75 | 62 |
| Ⓐ 4 | 1725 | 0.68 | 3.00 | 79 | 59 |
| Ⓐ 5 | 1455 | 0.35 | 1.60 | 79 | — |
| Ⓐ 6 | 1430 | 0.39 | 1.80 | 74 | 54 |
| Ⓐ 7 | 1425 | 0.40 | 1.80 | 71 | 69 |
| Ⓐ 8 | 1435 | 0.37 | 1.70 | 73 | 62 |
| Ⓐ 9 | 1045 | 0.15 | 0.70 | 68 | — |
| Ⓐ 10 | 1030 | 0.16 | 0.70 | 65 | 60 |
| Ⓐ 11 | 1030 | 0.16 | 0.80 | 63 | 74 |
| Ⓐ 12 | 1040 | 0.15 | 0.70 | 64 | 67 |

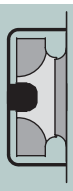


ebmpapst

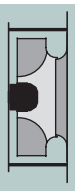
- **Technical features:**
  - PFC (active)
  - Integrated PID controller
  - Control input 0-10 VDC / PWM
  - Input for sensor 0-10 V or 4-20 mA
  - Slave output 0-10 V max. 3 mA
  - Output 20 VDC (±20 %) max. 50 mA
  - Output 10 VDC (+10 %) max. 10 mA
  - RS485 ebmBUS
  - Alarm relay
  - Line undervoltage detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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
- **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

Mass of centrifugal fan



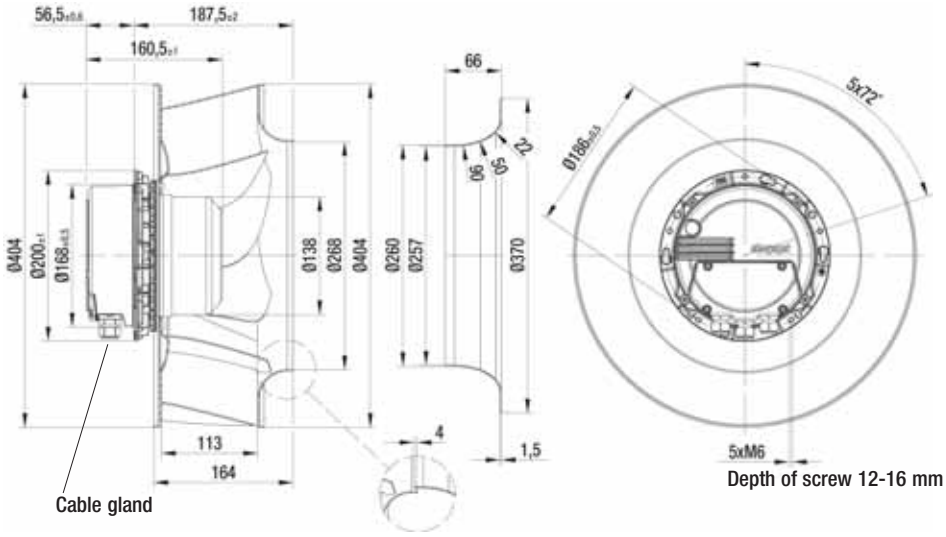


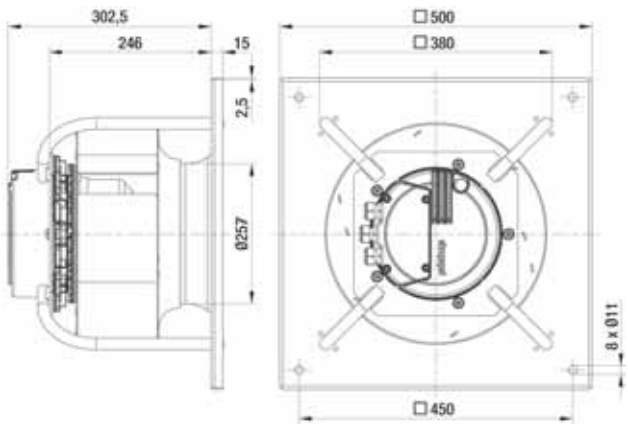
Mass of centrifugal module with support bracket

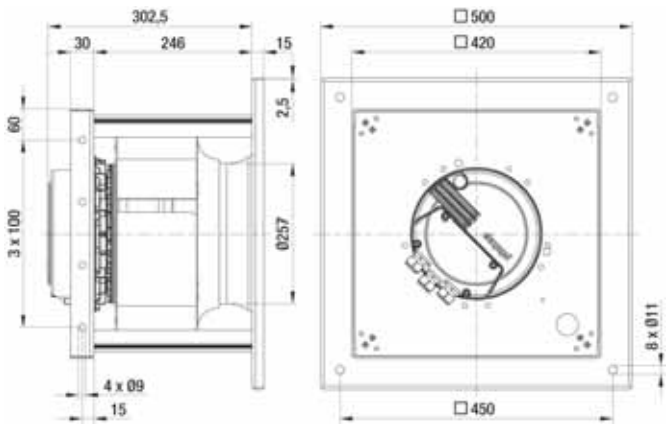


Mass of centrifugal module with support plate

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 400-AM56-11** | 7.7 | 54476-2-4013 | **K3G 400-AM56-12** | 16.2 | **K3G 400-AM56-11** | 19.0 |





Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 607

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 400

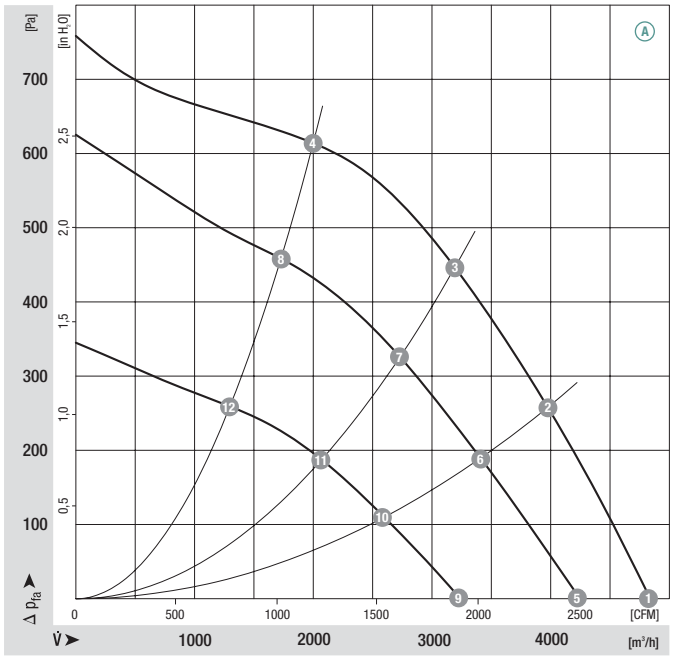
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, joined by tabs
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 607 |
| ***3G 400** | M3G 112-EA | Ⓐ | 3~ 200-240 | 50/60 | 1755 | 0.77 | 2.60 | -25 to +60 | L2) |

subject to alterations

(1) Nominal data in operating point with maximum load and 200 VAC

## Curves



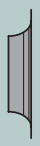

| | n [rpm] | $P_1$ [kW] | I [A] | $Lw_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1755 | 0.63 | 2.20 | 84 | — |
| Ⓐ 2 | 1760 | 0.75 | 2.50 | 80 | 51 |
| Ⓐ 3 | 1760 | 0.77 | 2.60 | 75 | 62 |
| Ⓐ 4 | 1760 | 0.72 | 2.40 | 79 | 56 |
| Ⓐ 5 | 1510 | 0.40 | 1.60 | 80 | — |
| Ⓐ 6 | 1470 | 0.42 | 1.60 | 74 | 54 |
| Ⓐ 7 | 1465 | 0.43 | 1.60 | 72 | 69 |
| Ⓐ 8 | 1485 | 0.41 | 1.60 | 74 | 65 |
| Ⓐ 9 | 1100 | 0.17 | 0.80 | 70 | — |
| Ⓐ 10 | 1090 | 0.18 | 0.80 | 65 | 62 |
| Ⓐ 11 | 1085 | 0.18 | 0.80 | 64 | 78 |
| Ⓐ 12 | 1095 | 0.18 | 0.80 | 66 | 71 |

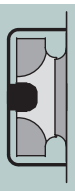


ebmpapst

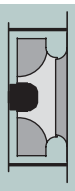
- **Technical features:**
  - PFC (passive)
  - Integrated PID controller
  - Control input 0-10 VDC / PWM
  - Input for sensor 0-10 V or 4-20 mA
  - Slave output 0-10 V max. 3 mA
  - Output 20 VDC (±20 %) max. 50 mA
  - Output 10 VDC (+10 %) max. 10 mA
  - RS485 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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

Mass of centrifugal fan



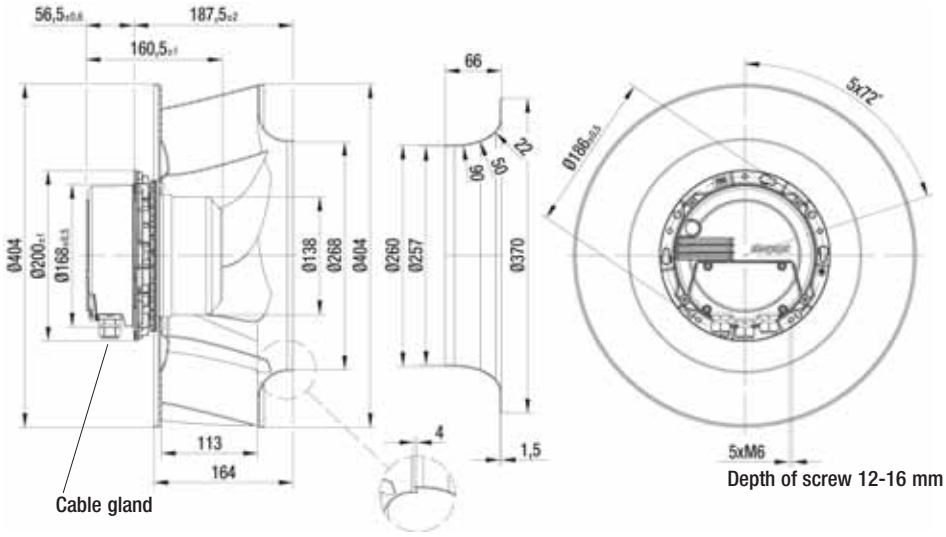


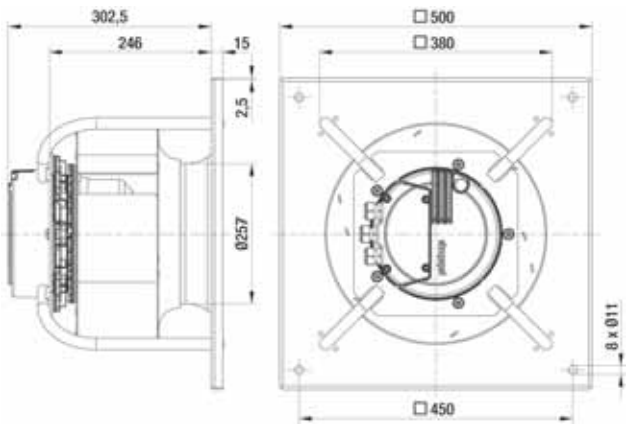
Mass of centrifugal module with support bracket

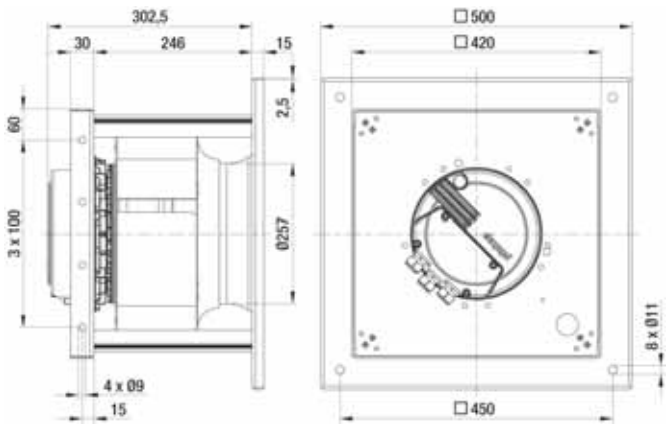


Mass of centrifugal module with support plate

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 400-AM61 -06** | 7.7 | 54476-2-4013 | **K3G 400-AM61 -07** | 16.2 | **K3G 400-AM61 -06** | 19.0 |






Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 607

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 400

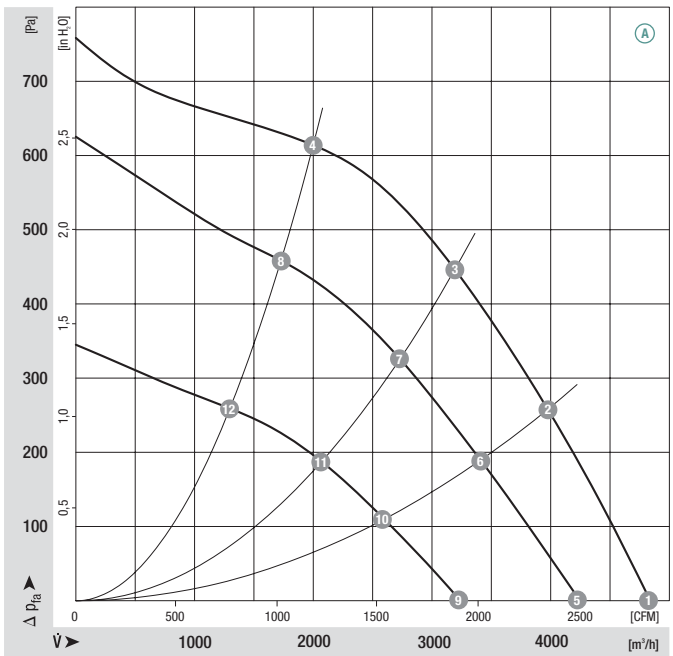
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, joined by tabs
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 607 |
| ***3G 400** | M3G 112-EA | Ⓐ | 3~ 380-480 | 50/60 | 1755 | 0.77 | 1.30 | -25 to +60 | L2) |

subject to alterations

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

## Curves



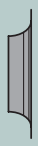

| | n [rpm] | $P_1$ [kW] | I [A] | $Lw_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1755 | 0.63 | 1.10 | 84 | — |
| Ⓐ 2 | 1760 | 0.75 | 1.30 | 80 | 51 |
| Ⓐ 3 | 1760 | 0.77 | 1.30 | 75 | 62 |
| Ⓐ 4 | 1760 | 0.72 | 1.20 | 79 | 56 |
| Ⓐ 5 | 1510 | 0.40 | 0.80 | 80 | — |
| Ⓐ 6 | 1470 | 0.42 | 0.80 | 74 | 54 |
| Ⓐ 7 | 1465 | 0.43 | 0.80 | 72 | 69 |
| Ⓐ 8 | 1485 | 0.41 | 0.80 | 74 | 65 |
| Ⓐ 9 | 1100 | 0.17 | 0.40 | 70 | — |
| Ⓐ 10 | 1090 | 0.18 | 0.40 | 65 | 62 |
| Ⓐ 11 | 1085 | 0.18 | 0.40 | 64 | 78 |
| Ⓐ 12 | 1095 | 0.18 | 0.40 | 66 | 71 |

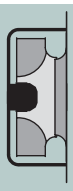


ebmpapst

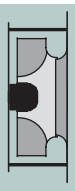
- **Technical features:**
  - PFC (passive)
  - Integrated PID controller
  - Control input 0-10 VDC / PWM
  - Input for sensor 0-10 V or 4-20 mA
  - Slave output 0-10 V max. 3 mA
  - Output 20 VDC (±20 %) max. 50 mA
  - Output 10 VDC (+10 %) max. 10 mA
  - RS485 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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

Mass of centrifugal fan



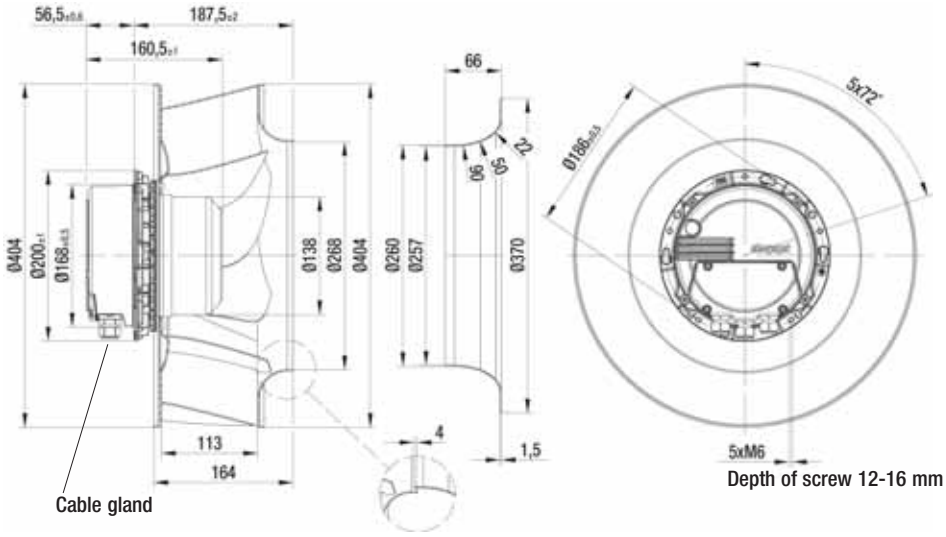


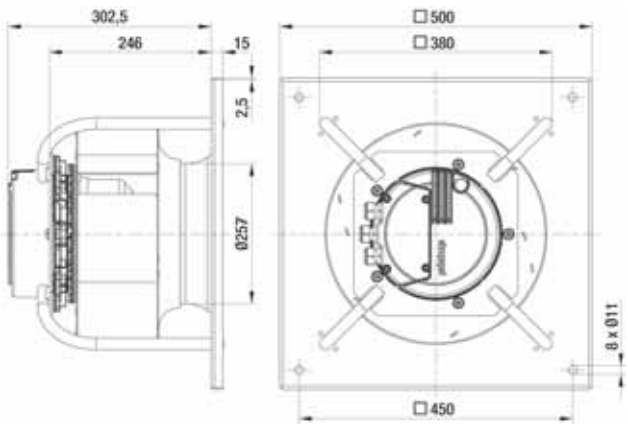
Mass of centrifugal module with support bracket

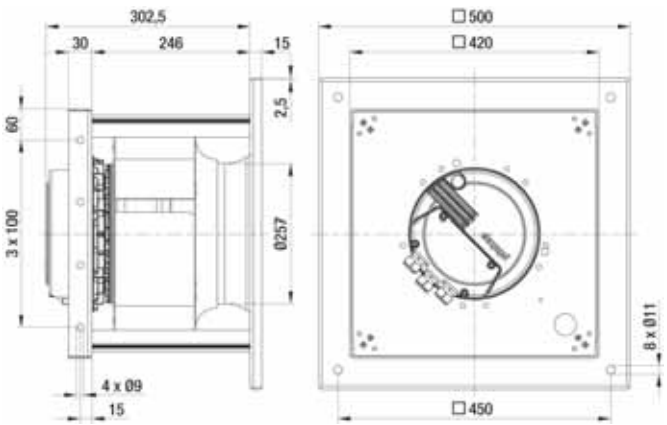


Mass of centrifugal module with support plate

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 400-AM55-01** | 7.7 | 54476-2-4013 | **K3G 400-AM55-02** | 16.2 | **K3G 400-AM55-01** | 19.0 |









Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 607

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 450

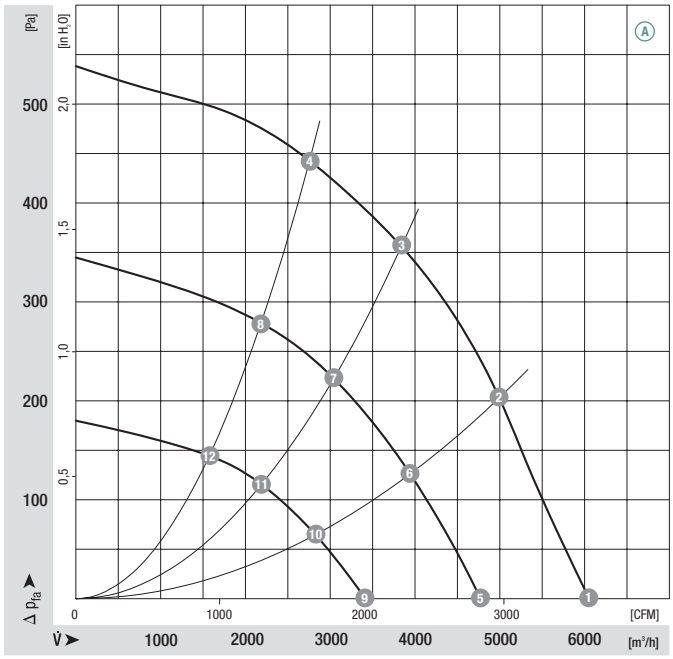
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 607 |
| ***3G 450** | M3G 112-GA | Ⓐ | 1~ 200-277 | 50/60 | 1365 | 0.64 | 2.90 | -25 to +60 | L1) |

subject to alterations

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

## Curves

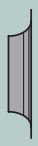
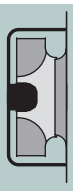
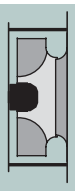



| | n [rpm] | $P_1$ [kW] | I [A] | $Lw_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1365 | 0.48 | 2.20 | 80 | — |
| Ⓐ 2 | 1345 | 0.60 | 2.70 | 75 | 57 |
| Ⓐ 3 | 1330 | 0.64 | 2.90 | 71 | 66 |
| Ⓐ 4 | 1340 | 0.62 | 2.80 | 73 | 60 |
| Ⓐ 5 | 1065 | 0.23 | 1.10 | 74 | — |
| Ⓐ 6 | 1065 | 0.29 | 1.40 | 68 | 58 |
| Ⓐ 7 | 1055 | 0.32 | 1.50 | 66 | 66 |
| Ⓐ 8 | 1060 | 0.30 | 1.40 | 67 | 61 |
| Ⓐ 9 | 760 | 0.10 | 0.50 | 65 | — |
| Ⓐ 10 | 760 | 0.12 | 0.60 | 59 | 57 |
| Ⓐ 11 | 760 | 0.13 | 0.60 | 58 | 68 |
| Ⓐ 12 | 760 | 0.12 | 0.60 | 59 | 63 |

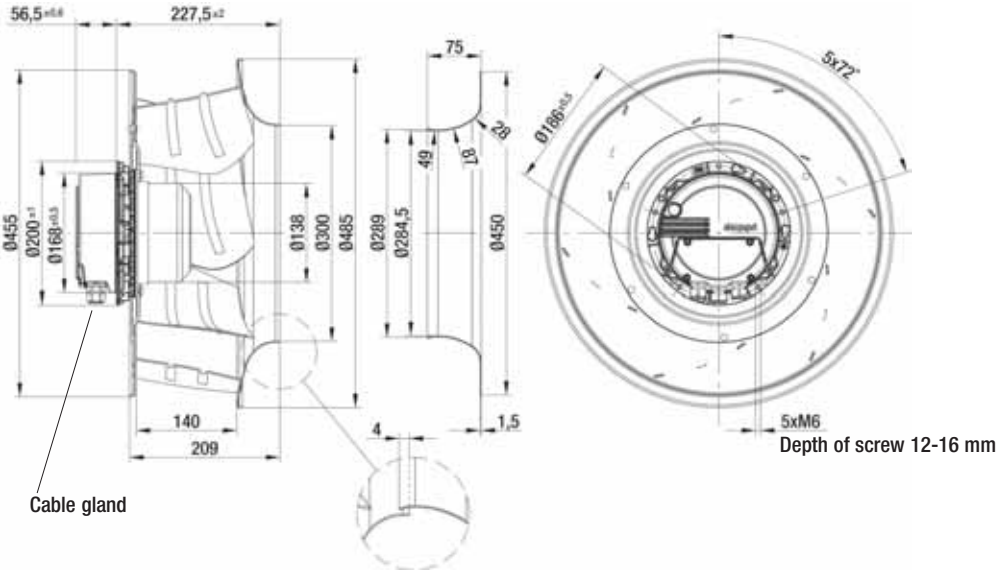


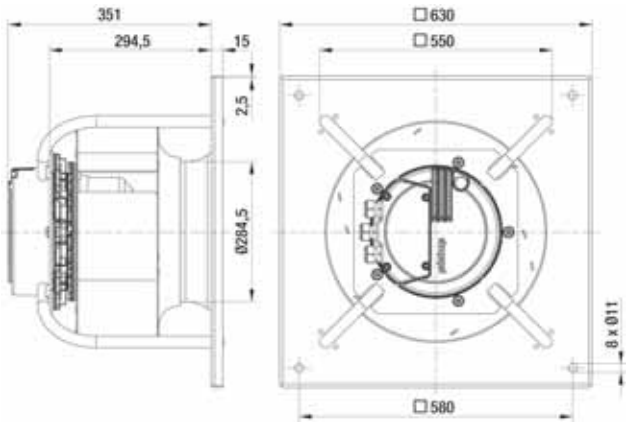
ebmpapst

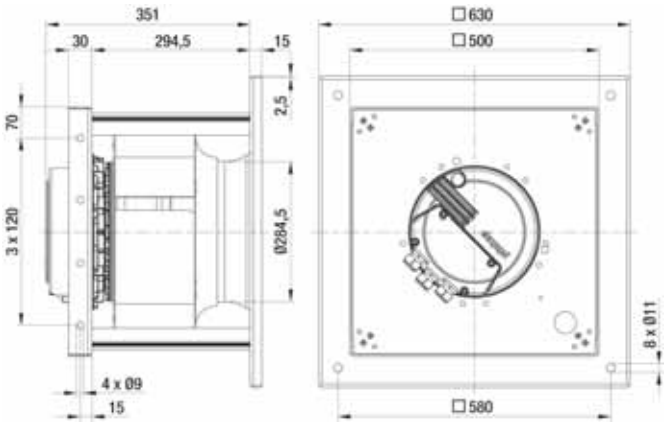
- **Technical features:**
  - PFC (active)
  - Integrated PID controller
  - Control input 0-10 VDC / PWM
  - Input for sensor 0-10 V or 4-20 mA
  - Slave output 0-10 V max. 3 mA
  - Output 20 VDC (±20 %) max. 50 mA
  - Output 10 VDC (+10 %) max. 10 mA
  - RS485 ebmBUS
  - Alarm relay
  - Line undervoltage detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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
- **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 (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 450-AG33 -11** | 12.1 | 63045-2-4013 | **K3G 450-AG33 -12** | 22.2 | **K3G 450-AG33 -11** | 26.0 |









Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 607

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 450

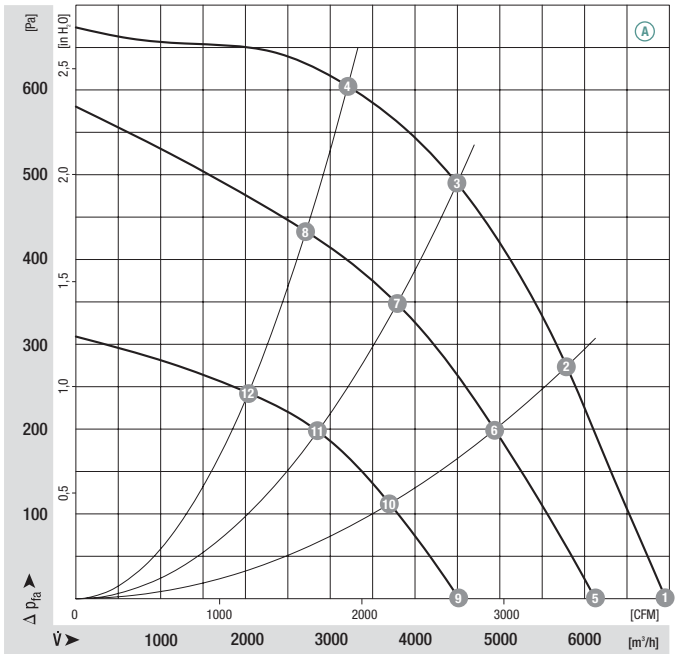
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 607 |
| ***3G 450** | M3G 112-GA | Ⓐ | 3~ 200-240 | 50/60 | 1560 | 1.01 | 3.20 | -25 to +60 | L2) |

subject to alterations

(1) Nominal data in operating point with maximum load and 200 VAC

## Curves




| | n [rpm] | $P_1$ [kW] | I [A] | $Lw_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1560 | 0.69 | 2.30 | 83 | — |
| Ⓐ 2 | 1555 | 0.91 | 2.90 | 78 | 58 |
| Ⓐ 3 | 1555 | 1.01 | 3.20 | 74 | 67 |
| Ⓐ 4 | 1560 | 0.96 | 3.10 | 77 | 60 |
| Ⓐ 5 | 1345 | 0.43 | 1.60 | 80 | — |
| Ⓐ 6 | 1315 | 0.53 | 2.00 | 73 | 60 |
| Ⓐ 7 | 1300 | 0.58 | 2.00 | 70 | 71 |
| Ⓐ 8 | 1315 | 0.54 | 1.90 | 72 | 62 |
| Ⓐ 9 | 985 | 0.19 | 0.80 | 71 | — |
| Ⓐ 10 | 970 | 0.22 | 0.90 | 65 | 62 |
| Ⓐ 11 | 965 | 0.25 | 1.00 | 62 | 75 |
| Ⓐ 12 | 970 | 0.23 | 0.90 | 64 | 67 |



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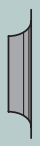
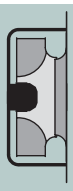
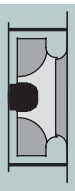
- **Technical features:**
  - PFC (passive)
  - Integrated PID controller
  - Control input 0-10 VDC / PWM
  - Input for sensor 0-10 V or 4-20 mA
  - Slave output 0-10 V max. 3 mA
  - Output 20 VDC (±20 %) max. 50 mA
  - Output 10 VDC (+10 %) max. 10 mA
  - RS485 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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

Mass of centrifugal fan



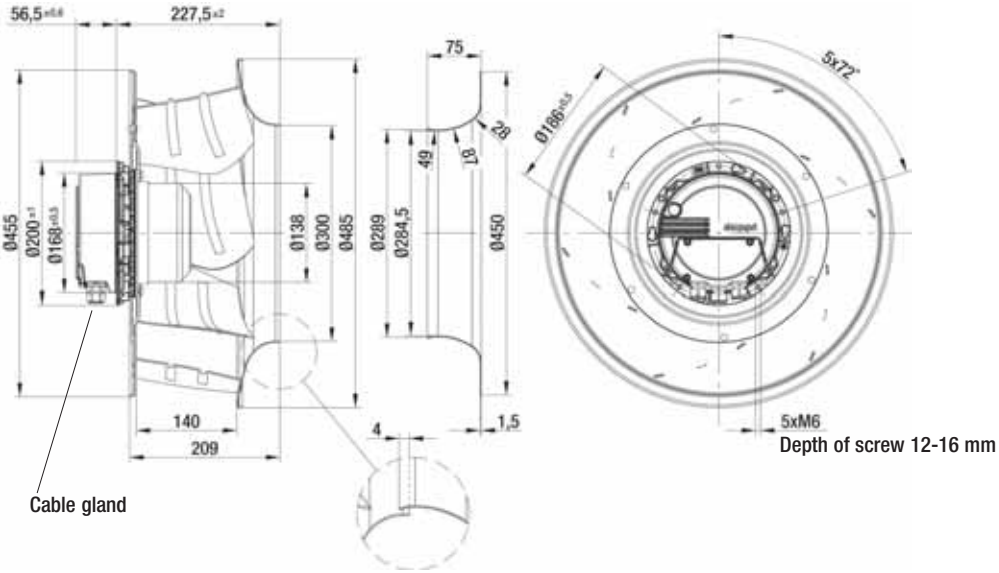


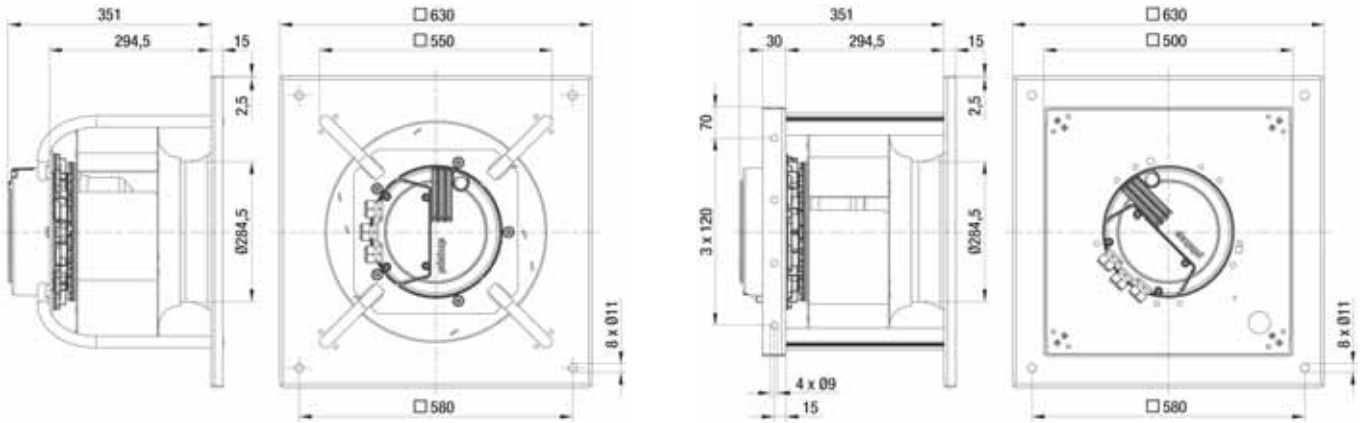
Mass of centrifugal module with support bracket



Mass of centrifugal module with support plate

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 450-AG38 -06** | 12.1 | 63045-2-4013 | **K3G 450-AG38 -07** | 22.2 | **K3G 450-AG38 -06** | 26.0 |






Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 607

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 450

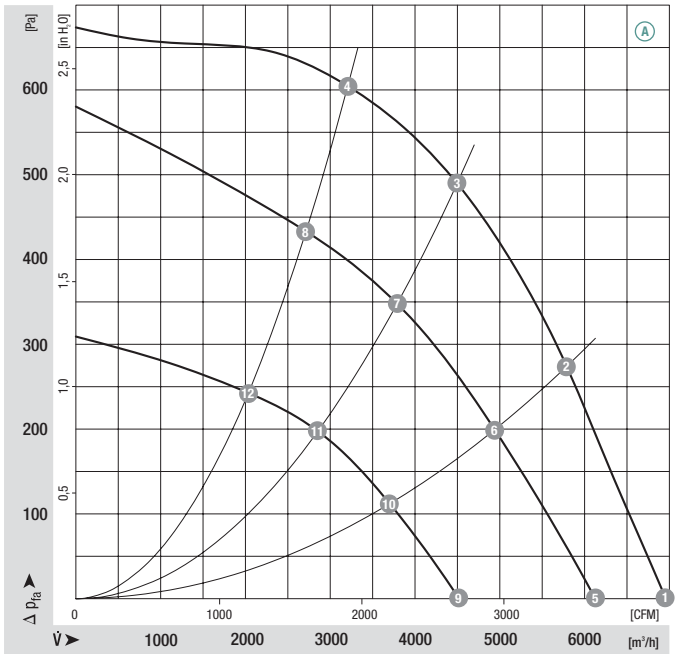
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 607 |
| ***3G 450** | M3G 112-GA | Ⓐ | 3~ 380-480 | 50/60 | 1560 | 1.01 | 1.60 | -25 to +60 | L2) |

subject to alterations

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

## Curves



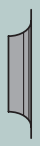

| | n [rpm] | $P_1$ [kW] | I [A] | $Lw_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1560 | 0.69 | 1.10 | 83 | — |
| Ⓐ 2 | 1555 | 0.91 | 1.50 | 78 | 58 |
| Ⓐ 3 | 1555 | 1.01 | 1.60 | 74 | 67 |
| Ⓐ 4 | 1560 | 0.96 | 1.50 | 77 | 60 |
| Ⓐ 5 | 1345 | 0.43 | 0.80 | 80 | — |
| Ⓐ 6 | 1315 | 0.53 | 1.00 | 73 | 60 |
| Ⓐ 7 | 1300 | 0.58 | 1.00 | 70 | 71 |
| Ⓐ 8 | 1315 | 0.54 | 1.00 | 72 | 62 |
| Ⓐ 9 | 985 | 0.19 | 0.40 | 71 | — |
| Ⓐ 10 | 970 | 0.22 | 0.50 | 65 | 62 |
| Ⓐ 11 | 965 | 0.25 | 0.50 | 62 | 75 |
| Ⓐ 12 | 970 | 0.23 | 0.50 | 64 | 67 |

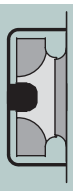


ebmpapst

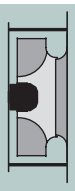
- **Technical features:**
  - PFC (passive)
  - Integrated PID controller
  - Control input 0-10 VDC / PWM
  - Input for sensor 0-10 V or 4-20 mA
  - Slave output 0-10 V max. 3 mA
  - Output 20 VDC (±20 %) max. 50 mA
  - Output 10 VDC (+10 %) max. 10 mA
  - RS485 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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

Mass of centrifugal fan



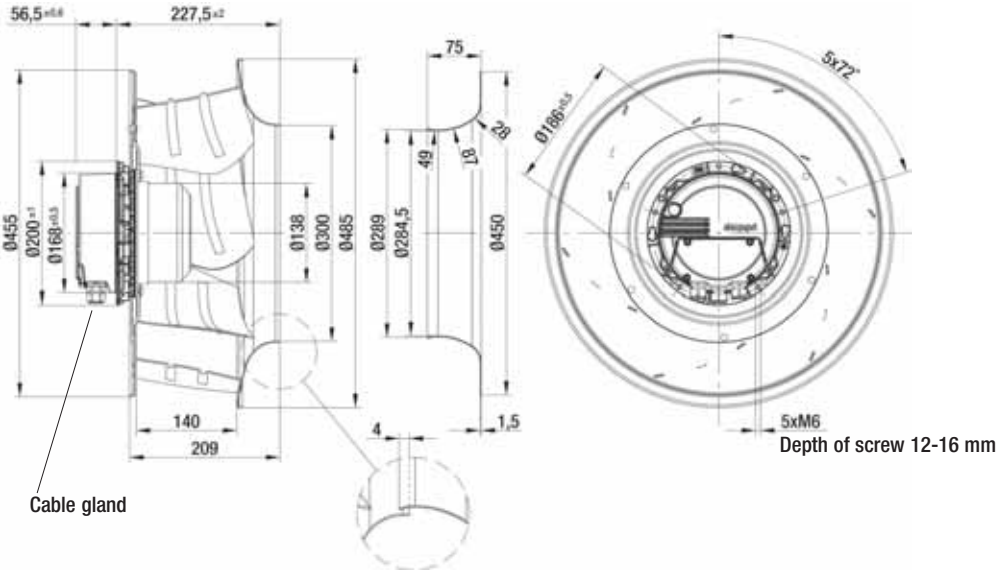


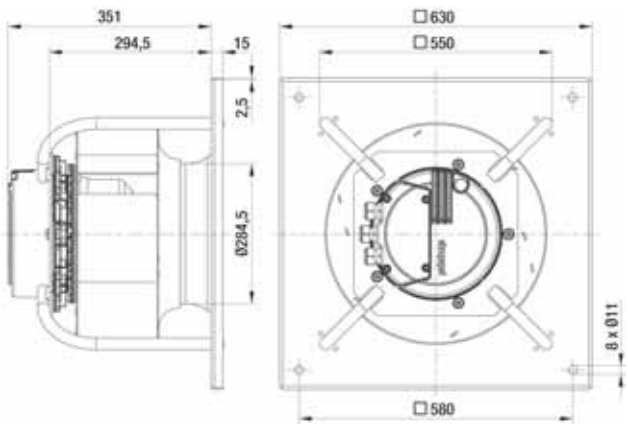
Mass of centrifugal module with support bracket

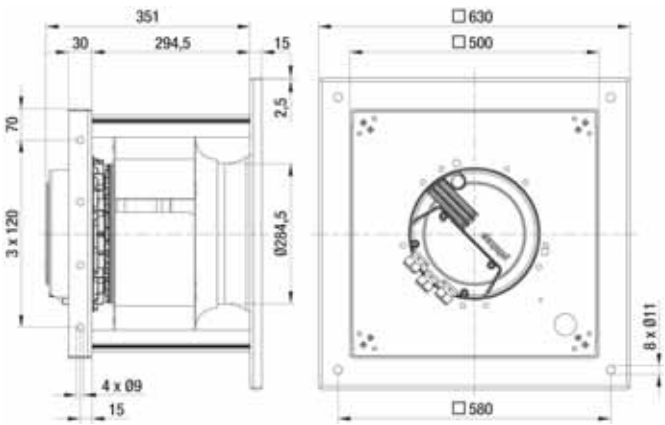


Mass of centrifugal module with support plate

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 450-AG33 -01** | 12.1 | 63045-2-4013 | **K3G 450-AG33 -02** | 22.2 | **K3G 450-AG33 -01** | 26.0 |






Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 607

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 450

- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, 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 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

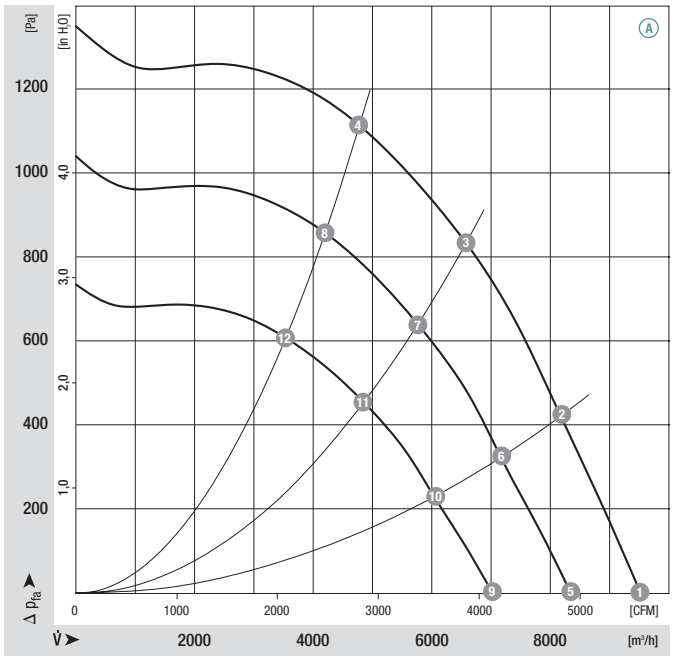
**Nominal data**

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | kW | A | °C | p. 608 |
| *3G 450 | M3G 150-FF | Ⓐ | 3~ 200-240 | 50/60 | 2165 | 2.63 | 9.80 | -25 to +50 | M) |

subject to alterations

(1) Nominal data in operating point with maximum load and 200 VAC

**Curves**




| | n [rpm] | $P_1$ [kW] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2165 | 1.85 | 6.60 | 83 | — |
| Ⓐ 2 | 2165 | 2.33 | 8.70 | 81 | 51 |
| Ⓐ 3 | 2165 | 2.59 | 9.80 | 78 | 68 |
| Ⓐ 4 | 2165 | 2.57 | 9.80 | 79 | 64 |
| Ⓐ 5 | 1900 | 1.25 | 4.30 | 79 | — |
| Ⓐ 6 | 1900 | 1.59 | 5.90 | 77 | 52 |
| Ⓐ 7 | 1900 | 1.74 | 6.60 | 75 | 68 |
| Ⓐ 8 | 1900 | 1.74 | 6.60 | 75 | 64 |
| Ⓐ 9 | 1600 | 0.75 | 2.60 | 71 | — |
| Ⓐ 10 | 1600 | 0.95 | 3.50 | 72 | 52 |
| Ⓐ 11 | 1600 | 1.04 | 3.90 | 70 | 68 |
| Ⓐ 12 | 1600 | 1.04 | 3.90 | 71 | 64 |



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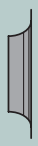
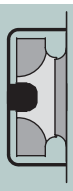
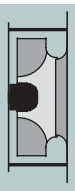
- **Technical features:**
  - PFC (passive)
  - Integrated PID controller
  - Control input 0-10 VDC / PWM
  - Input for sensor 0-10 V or 4-20 mA
  - Slave output 0-10 V max. 3 mA
  - Output 20 VDC (±20 %) max. 50 mA
  - Output 10 VDC (+10 %) max. 10 mA
  - RS485 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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:** UL, CSA, GOST

Mass of centrifugal fan



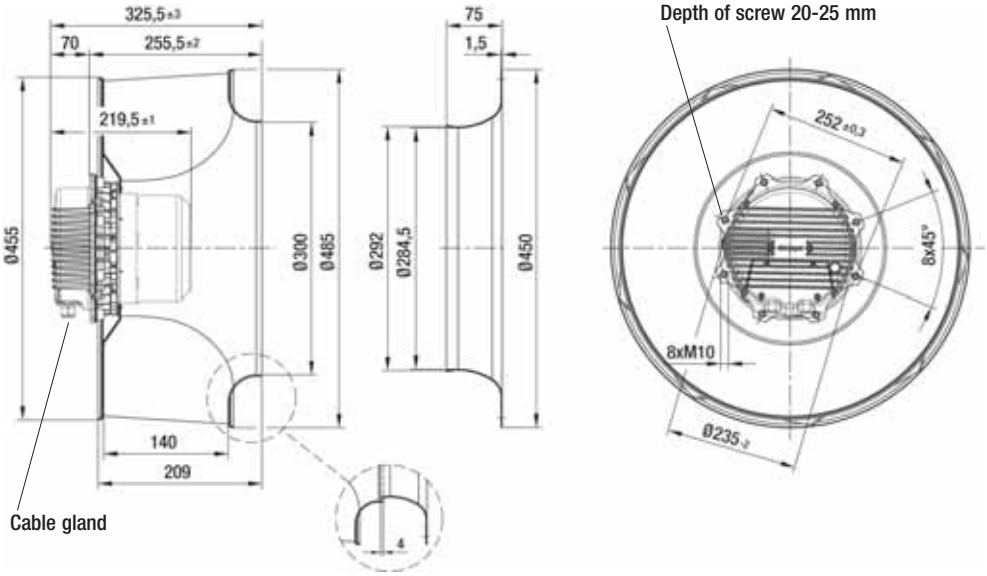


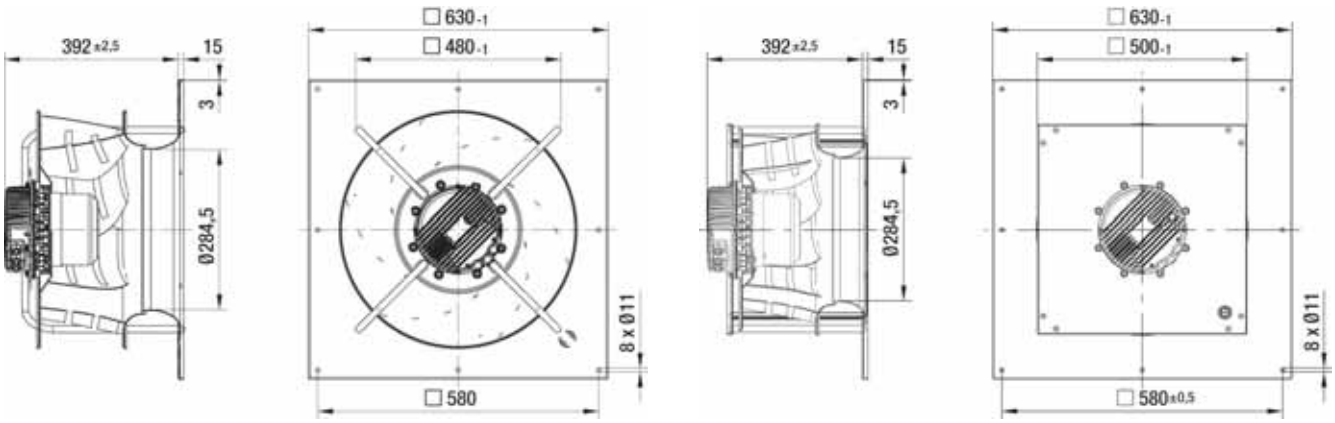
Mass of centrifugal module with support bracket



Mass of centrifugal module with support plate

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 450-AT14 -13** | 21.0 | 63045-2-4013 | **K3G 450-AT14 -20** | 36.5 | **K3G 450-AT14 -13** | 38.5 |






Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 608

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 450

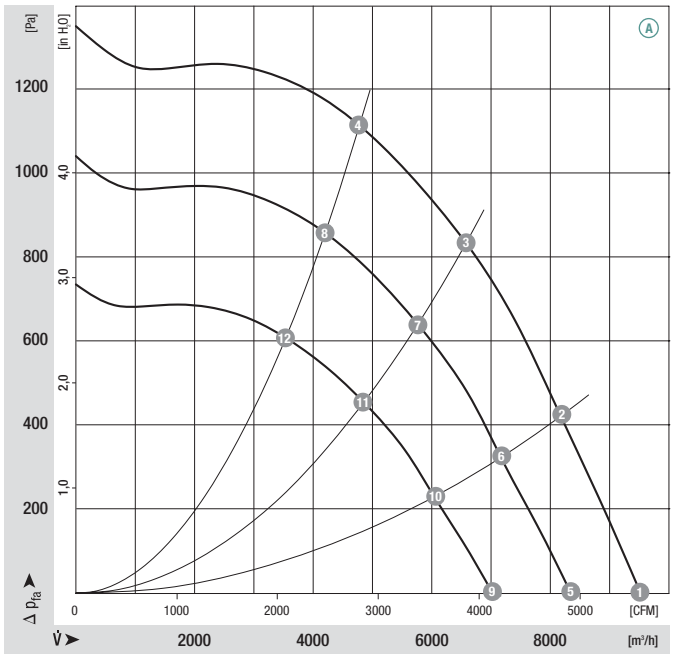
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 608 |
| ***3G 450** | M3G 150-FF | Ⓐ | 3~ 380-480 | 50/60 | 2165 | 2.63 | 4.90 | -25 to +50 | M) |

subject to alterations

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

## Curves




| | n [rpm] | $P_1$ [kW] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2165 | 1.85 | 3.30 | 83 | — |
| Ⓐ 2 | 2165 | 2.33 | 4.40 | 81 | 51 |
| Ⓐ 3 | 2165 | 2.59 | 4.90 | 78 | 68 |
| Ⓐ 4 | 2165 | 2.57 | 4.90 | 79 | 64 |
| Ⓐ 5 | 1900 | 1.25 | 2.20 | 79 | — |
| Ⓐ 6 | 1900 | 1.59 | 3.00 | 77 | 52 |
| Ⓐ 7 | 1900 | 1.74 | 3.30 | 75 | 68 |
| Ⓐ 8 | 1900 | 1.74 | 3.30 | 75 | 64 |
| Ⓐ 9 | 1600 | 0.75 | 1.30 | 71 | — |
| Ⓐ 10 | 1600 | 0.95 | 1.80 | 72 | 52 |
| Ⓐ 11 | 1600 | 1.04 | 2.00 | 70 | 68 |
| Ⓐ 12 | 1600 | 1.04 | 2.00 | 71 | 64 |



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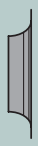
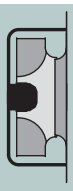
- **Technical features:**
  - PFC (passive)
  - Integrated PID controller
  - Control input 0-10 VDC / PWM
  - Input for sensor 0-10 V or 4-20 mA
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 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, GOST

- Slave output 0-10 V max. 3 mA
- Output 20 VDC (±20 %) max. 50 mA
- Output 10 VDC (+10 %) max. 10 mA
- RS485 ebmBUS
- Alarm relay

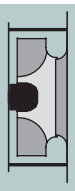
- Line undervoltage / phase failure detection
- Motor current limitation
- Electronics / motor overtemperature protection
- Locked-rotor protection
- Soft start

Mass of centrifugal fan



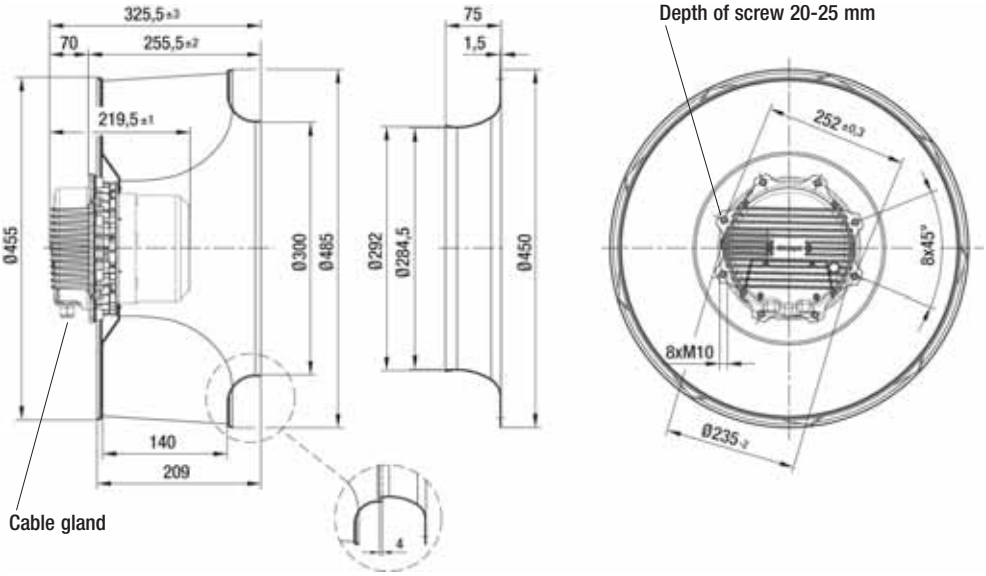


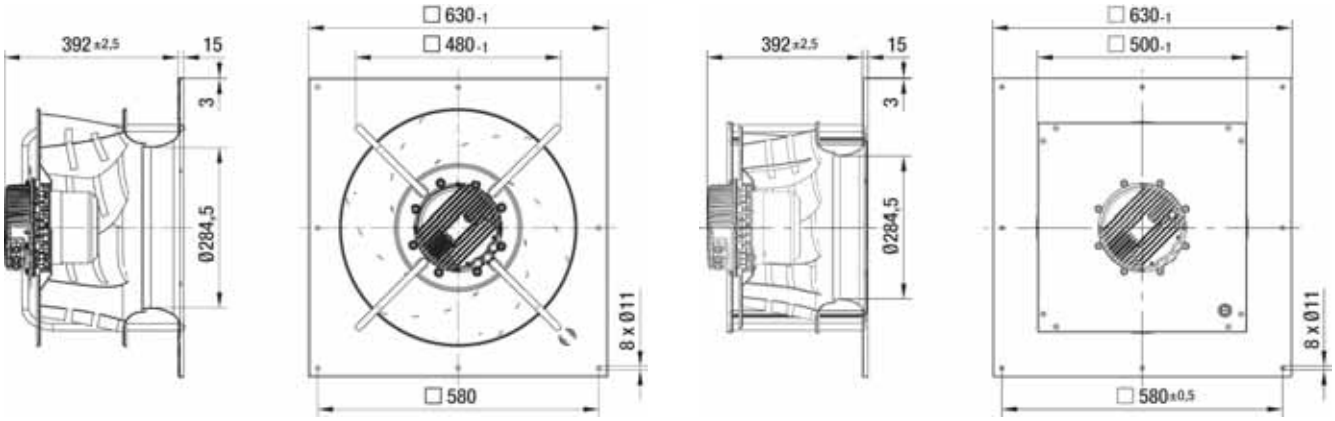
Mass of centrifugal module with support bracket



Mass of centrifugal module with support plate

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 450-AT09 -03** | 21.0 | 63045-2-4013 | **K3G 450-AT09 -10** | 36.5 | **K3G 450-AT09 -03** | 38.5 |






Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 608

# EC centrifugal fan

backward curved, 3-D, Ø 500

- **Material:** Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on top; rotor on bottom on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

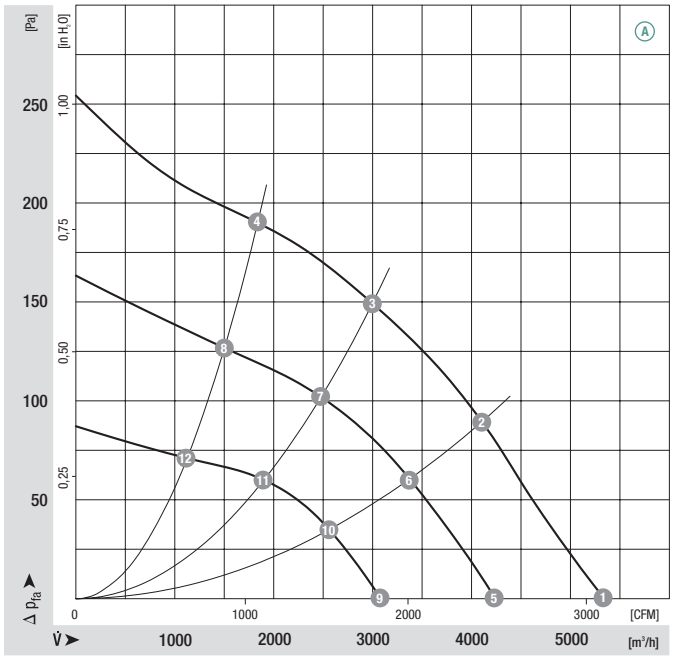
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 605 |
| *3G 500 | M3G 084-FA | Ⓐ | 1~ 200-277 | 50/60 | 810 | 265 | 1.60 | -25 to +40 | K1) |

subject to alterations

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

## Curves




| | n [rpm] | $P_1$ [W] | I [A] | $Lw_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 810 | 211 | 1.30 | 72 | — |
| Ⓐ 2 | 765 | 244 | 1.50 | 63 | 56 |
| Ⓐ 3 | 750 | 265 | 1.60 | 59 | 61 |
| Ⓐ 4 | 780 | 232 | 1.40 | 61 | 49 |
| Ⓐ 5 | 645 | 100 | 0.70 | 65 | 14 |
| Ⓐ 6 | 635 | 130 | 0.80 | 58 | 57 |
| Ⓐ 7 | 625 | 137 | 0.90 | 55 | 63 |
| Ⓐ 8 | 650 | 115 | 0.80 | 58 | 50 |
| Ⓐ 9 | 465 | 42 | 0.30 | 56 | 14 |
| Ⓐ 10 | 475 | 58 | 0.40 | 51 | 59 |
| Ⓐ 11 | 475 | 64 | 0.40 | 48 | 66 |
| Ⓐ 12 | 485 | 52 | 0.40 | 52 | 49 |



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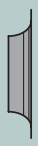
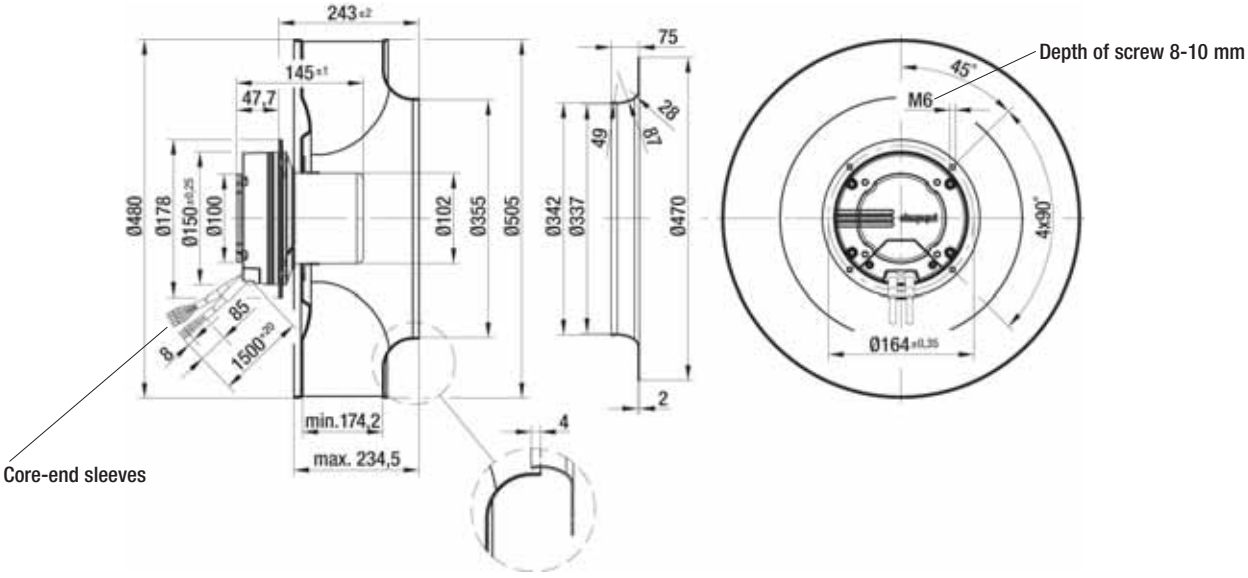
- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Alarm relay
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA; VDE, CCC, GOST are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 500-AR34 -71 | 8.8 | 63072-2-4013 |



# EC centrifugal fans and modules

## backward curved, 3-D, Ø 500

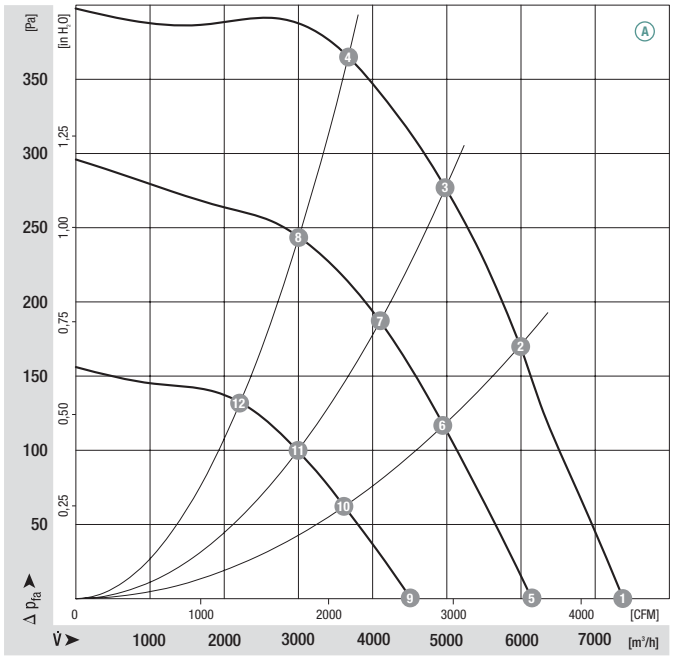
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 607 |
| ***3G 500** | M3G 112-GA | Ⓐ | 1~ 200-277 | 50/60 | 1125 | 0.71 | 3.20 | -25 to +60 | L1) |

subject to alterations

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

## Curves

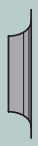
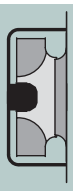
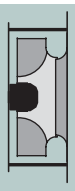



| | n [rpm] | $P_1$ [kW] | I [A] | $Lw_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1125 | 0.54 | 2.40 | 81 | — |
| Ⓐ 2 | 1110 | 0.66 | 3.00 | 74 | 59 |
| Ⓐ 3 | 1100 | 0.71 | 3.20 | 70 | 69 |
| Ⓐ 4 | 1110 | 0.69 | 3.10 | 70 | 66 |
| Ⓐ 5 | 920 | 0.29 | 1.30 | 75 | — |
| Ⓐ 6 | 905 | 0.35 | 1.60 | 69 | 64 |
| Ⓐ 7 | 900 | 0.37 | 1.60 | 68 | 75 |
| Ⓐ 8 | 900 | 0.36 | 1.60 | 68 | 75 |
| Ⓐ 9 | 665 | 0.12 | 0.60 | 66 | — |
| Ⓐ 10 | 650 | 0.12 | 0.70 | 60 | 65 |
| Ⓐ 11 | 650 | 0.13 | 0.70 | 58 | 78 |
| Ⓐ 12 | 655 | 0.14 | 0.70 | 57 | 82 |

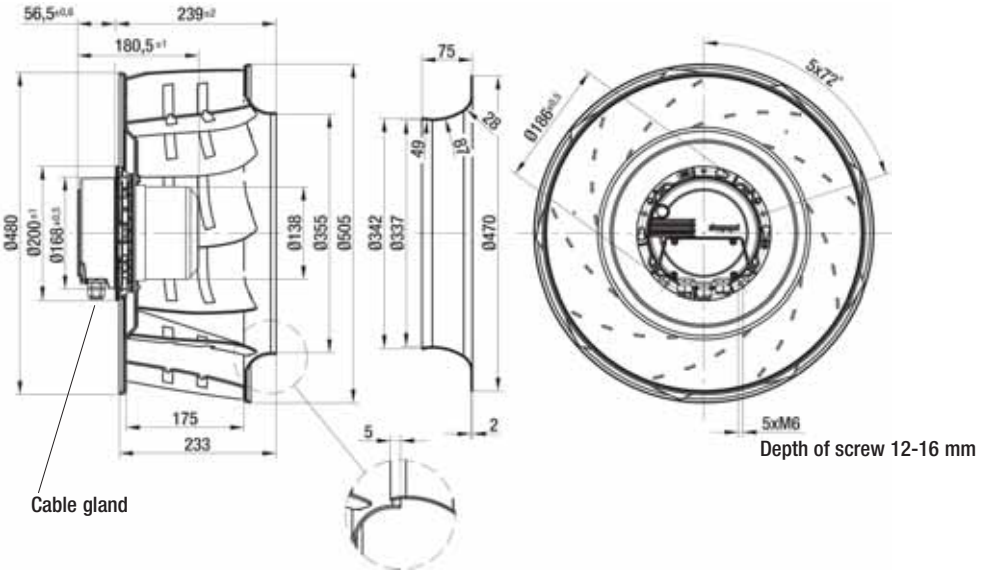


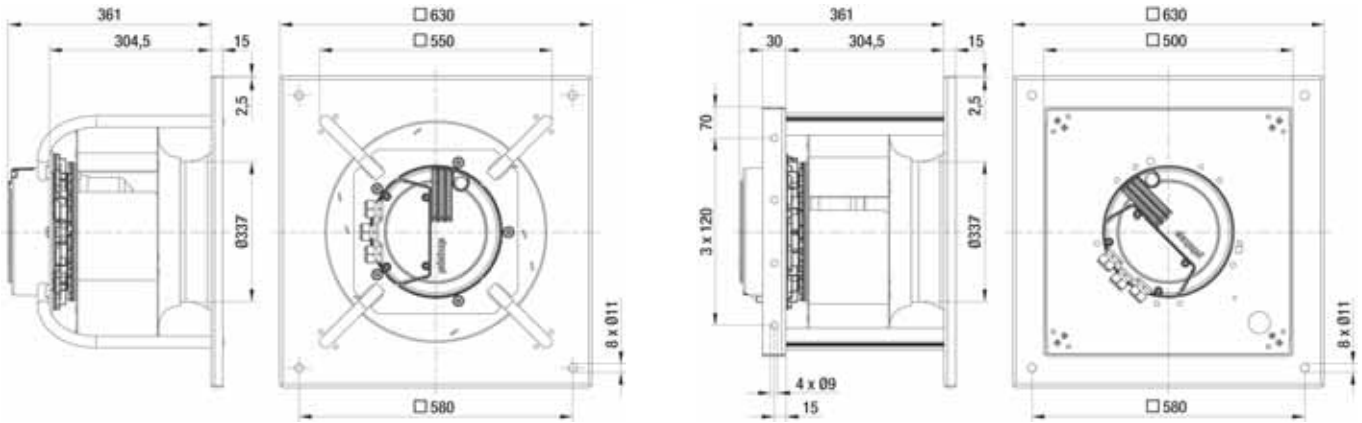
ebmpapst

- **Technical features:**
  - PFC (active)
  - 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 ebmBUS
  - Alarm relay
  - Line undervoltage detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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
- **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 | Mass of centrifugal fan kg | Inlet nozzle (long) | Centrifugal module w. support bracket | Mass of centrifugal module with support bracket kg | Centrifugal module with support plate | Mass of centrifugal module with support plate kg |
|---|---|---|---|---|---|---|
| **R3G 500-AF32 -11** | 13.5 | 63072-2-4013 | **K3G 500-AF32 -12** | 24.3 | **K3G 500-AF32 -11** | 28.0 |






Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 607

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 500

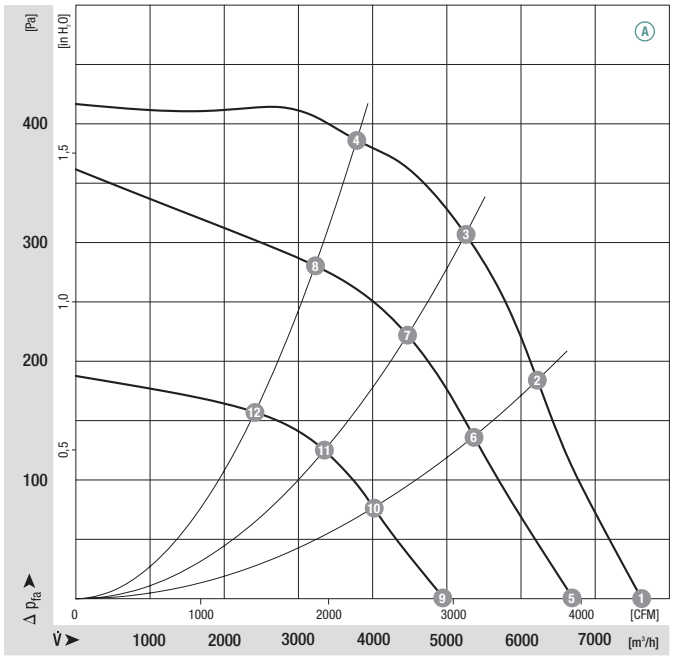
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 607 |
| ***3G 500** | M3G 112-GA | Ⓐ | 3~ 200-240 | 50/60 | 1160 | 0.82 | 2.90 | -25 to +60 | L2) |

subject to alterations

(1) Nominal data in operating point with maximum load and 200 VAC

## Curves

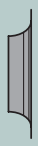
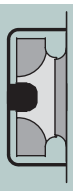
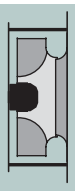



| | n [rpm] | $P_1$ [kW] | I [A] | $Lw_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1160 | 0.57 | 2.10 | 83 | — |
| Ⓐ 2 | 1160 | 0.74 | 2.60 | 75 | 58 |
| Ⓐ 3 | 1160 | 0.82 | 2.90 | 72 | 69 |
| Ⓐ 4 | 1160 | 0.76 | 2.70 | 71 | 66 |
| Ⓐ 5 | 1005 | 0.36 | 1.50 | 78 | — |
| Ⓐ 6 | 980 | 0.43 | 1.70 | 71 | 63 |
| Ⓐ 7 | 970 | 0.45 | 1.80 | 68 | 76 |
| Ⓐ 8 | 980 | 0.43 | 1.70 | 67 | 70 |
| Ⓐ 9 | 735 | 0.15 | 0.70 | 69 | — |
| Ⓐ 10 | 725 | 0.18 | 0.80 | 62 | 69 |
| Ⓐ 11 | 720 | 0.20 | 0.90 | 60 | 82 |
| Ⓐ 12 | 720 | 0.19 | 0.80 | 59 | 76 |

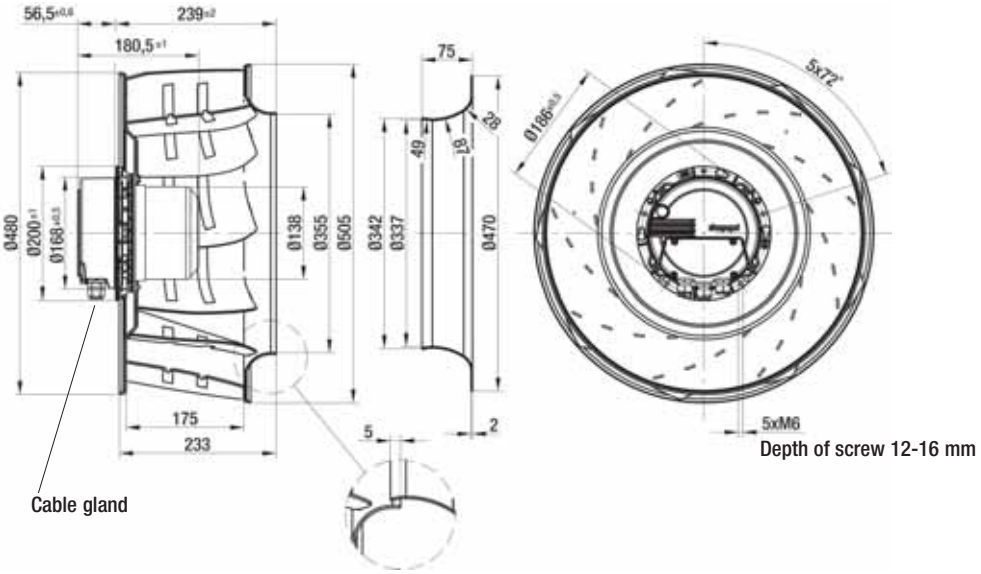


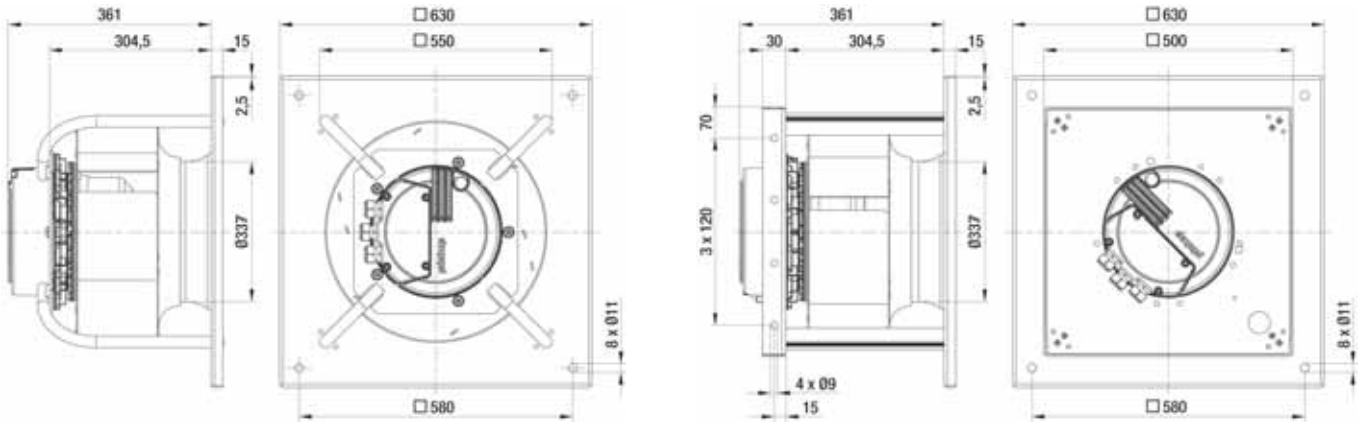
ebmpapst

- **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 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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 | Mass of centrifugal fan kg | Inlet nozzle (long) | Centrifugal module w. support bracket | Mass of centrifugal module with support bracket kg | Centrifugal module with support plate | Mass of centrifugal module with support plate kg |
|---|---|---|---|---|---|---|
| **R3G 500-AF39 -06** | 13.5 | 63072-2-4013 | **K3G 500-AF39 -07** | 24.3 | **K3G 500-AF39 -06** | 28.0 |









Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 607

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 500

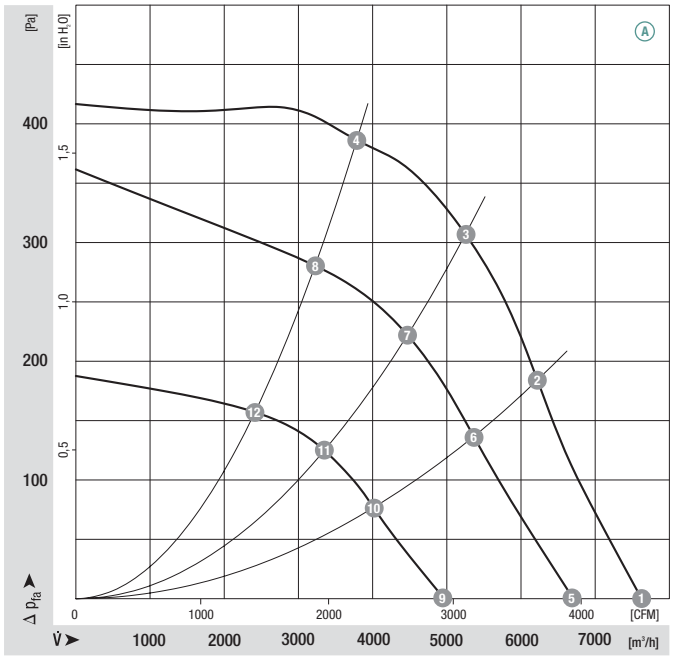
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 607 |
| ***3G 500** | M3G 112-GA | Ⓐ | 3~ 380-480 | 50/60 | 1160 | 0.82 | 1.50 | -25 to +60 | L2) |

subject to alterations

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

## Curves



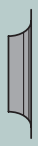

| | n [rpm] | $P_1$ [kW] | I [A] | $Lw_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1160 | 0.57 | 1.10 | 83 | — |
| Ⓐ 2 | 1160 | 0.74 | 1.30 | 75 | 58 |
| Ⓐ 3 | 1160 | 0.82 | 1.50 | 72 | 69 |
| Ⓐ 4 | 1160 | 0.76 | 1.40 | 71 | 66 |
| Ⓐ 5 | 1005 | 0.36 | 0.70 | 78 | — |
| Ⓐ 6 | 980 | 0.43 | 0.90 | 71 | 63 |
| Ⓐ 7 | 970 | 0.45 | 0.90 | 68 | 76 |
| Ⓐ 8 | 980 | 0.43 | 0.80 | 67 | 70 |
| Ⓐ 9 | 735 | 0.15 | 0.40 | 69 | — |
| Ⓐ 10 | 725 | 0.18 | 0.40 | 62 | 69 |
| Ⓐ 11 | 720 | 0.20 | 0.40 | 60 | 82 |
| Ⓐ 12 | 720 | 0.19 | 0.40 | 59 | 76 |

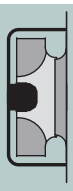


ebmpapst

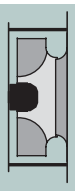
- **Technical features:**
  - PFC (passive)
  - Integrated PID controller
  - Control input 0-10 VDC / PWM
  - Input for sensor 0-10 V or 4-20 mA
  - Slave output 0-10 V max. 3 mA
  - Output 20 VDC (±20 %) max. 50 mA
  - Output 10 VDC (+10 %) max. 10 mA
  - RS485 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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

Mass of centrifugal fan



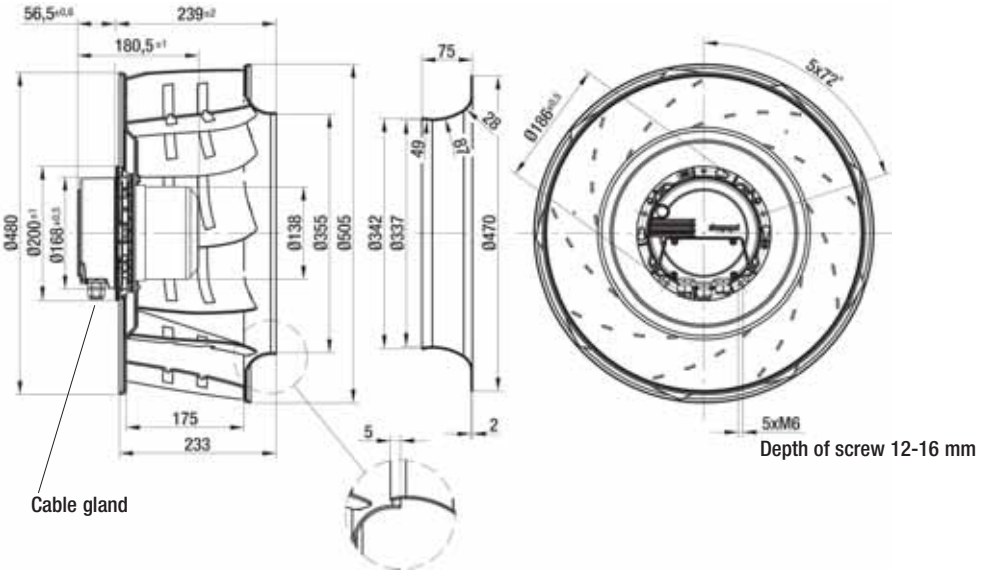


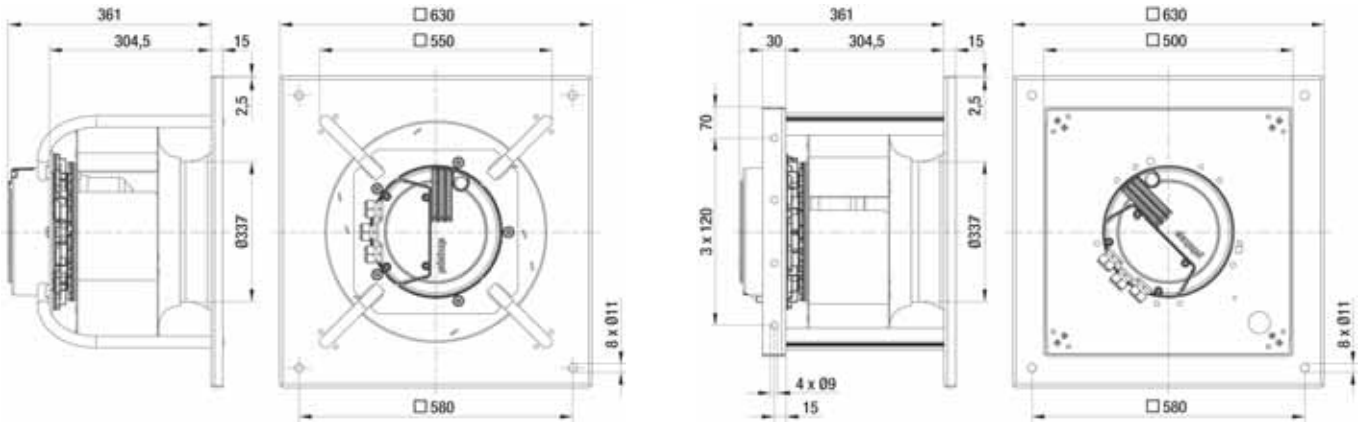
Mass of centrifugal module with support bracket



Mass of centrifugal module with support plate

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 500-AF34 -01** | 13.5 | 63072-2-4013 | **K3G 500-AF34 -02** | 24.3 | **K3G 500-AF34 -01** | 28.0 |






Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 607

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 500

- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 9
- **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

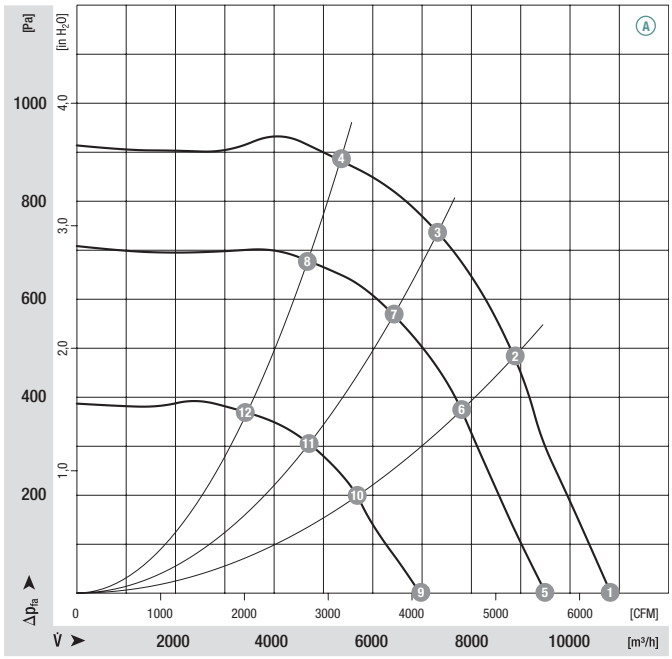
**Nominal data**

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | kW | A | °C | p. 608 |
| *3G 500 | M3G 150-FF | Ⓐ | 3~ 200-240 | 50/60 | 1700 | 2.80 | 8.50 | -25 to +50 | M) |

subject to alterations

(1) Nominal data in operating point with maximum load and 200 VAC

**Curves**

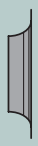
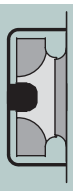
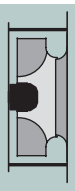



| | n [rpm] | $P_1$ [kW] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1700 | 1.85 | 5.80 | 82 | — |
| Ⓐ 2 | 1700 | 2.50 | 7.80 | 79 | 57 |
| Ⓐ 3 | 1700 | 2.65 | 8.20 | 78 | 65 |
| Ⓐ 4 | 1700 | 2.40 | 7.20 | 77 | 58 |
| Ⓐ 5 | 1500 | 1.30 | 4.20 | 78 | — |
| Ⓐ 6 | 1500 | 1.70 | 5.20 | 75 | 60 |
| Ⓐ 7 | 1500 | 1.75 | 5.40 | 74 | 65 |
| Ⓐ 8 | 1500 | 1.65 | 5.20 | 74 | 61 |
| Ⓐ 9 | 1100 | 0.57 | 2.20 | 69 | — |
| Ⓐ 10 | 1100 | 0.70 | 2.60 | 67 | 56 |
| Ⓐ 11 | 1100 | 0.75 | 2.60 | 66 | 63 |
| Ⓐ 12 | 1100 | 0.70 | 2.60 | 65 | 56 |

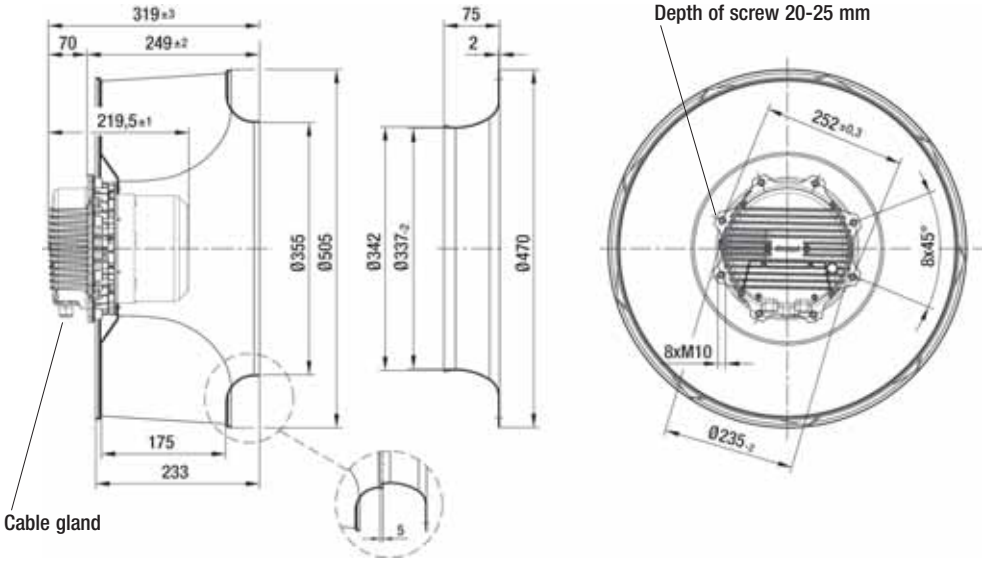


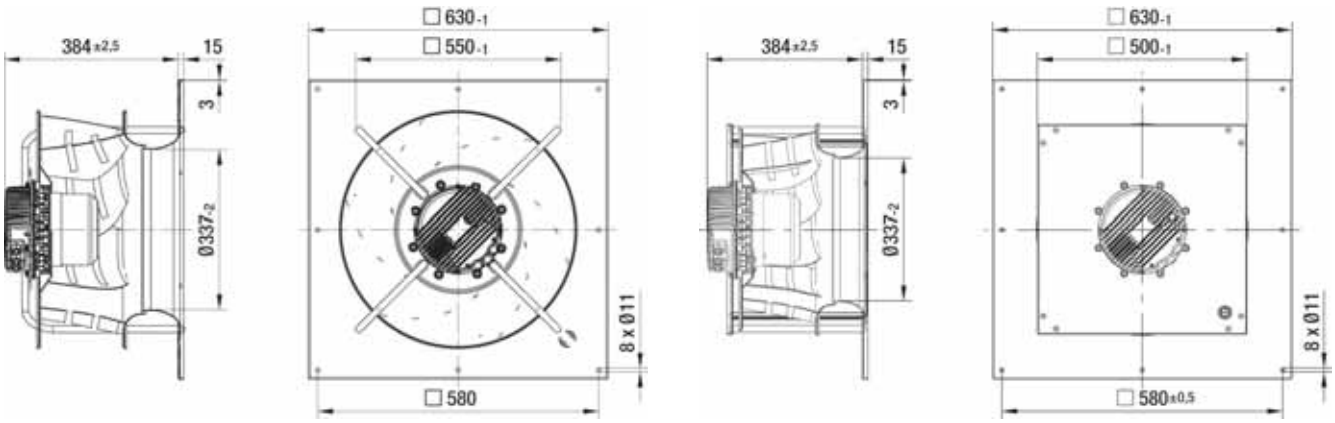
ebmpapst

- **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 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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:** UL, CSA, GOST

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 500-AG10 -13** | 22.0 | 63072-2-4013 | **K3G 500-AG10 -20** | 38.5 | **K3G 500-AG10 -13** | 41.0 |






Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 608

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 500

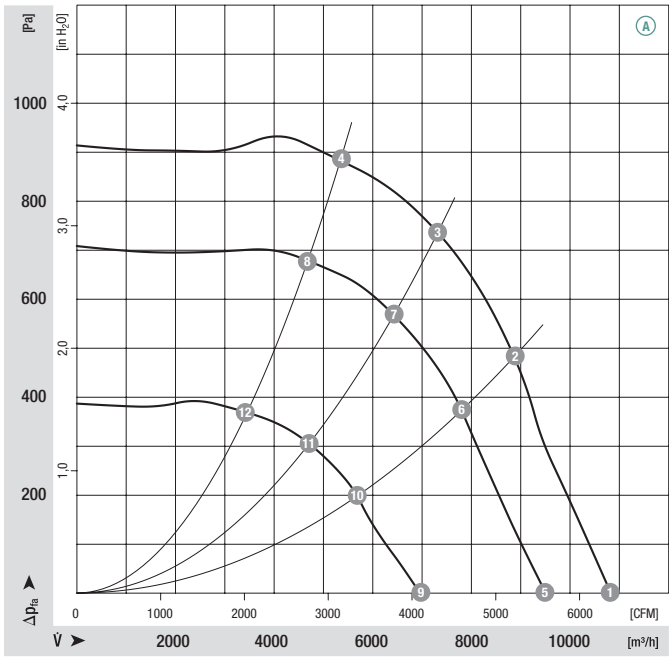
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 608 |
| ***3G 500** | M3G 150-FF | Ⓐ | 3~ 380-480 | 50/60 | 1700 | 2.70 | 4.30 | -25 to +60 | M) |

subject to alterations

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

## Curves

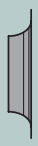
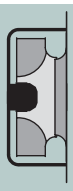
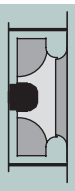



| | n [rpm] | $P_1$ [kW] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1700 | 1.85 | 2.90 | 82 | — |
| Ⓐ 2 | 1700 | 2.50 | 3.90 | 79 | 57 |
| Ⓐ 3 | 1700 | 2.65 | 4.10 | 78 | 65 |
| Ⓐ 4 | 1700 | 2.40 | 3.60 | 77 | 58 |
| Ⓐ 5 | 1500 | 1.30 | 2.10 | 78 | — |
| Ⓐ 6 | 1500 | 1.70 | 2.60 | 75 | 60 |
| Ⓐ 7 | 1500 | 1.75 | 2.70 | 74 | 65 |
| Ⓐ 8 | 1500 | 1.65 | 2.60 | 74 | 61 |
| Ⓐ 9 | 1100 | 0.57 | 1.10 | 69 | — |
| Ⓐ 10 | 1100 | 0.70 | 1.30 | 67 | 56 |
| Ⓐ 11 | 1100 | 0.75 | 1.30 | 66 | 63 |
| Ⓐ 12 | 1100 | 0.70 | 1.30 | 65 | 56 |

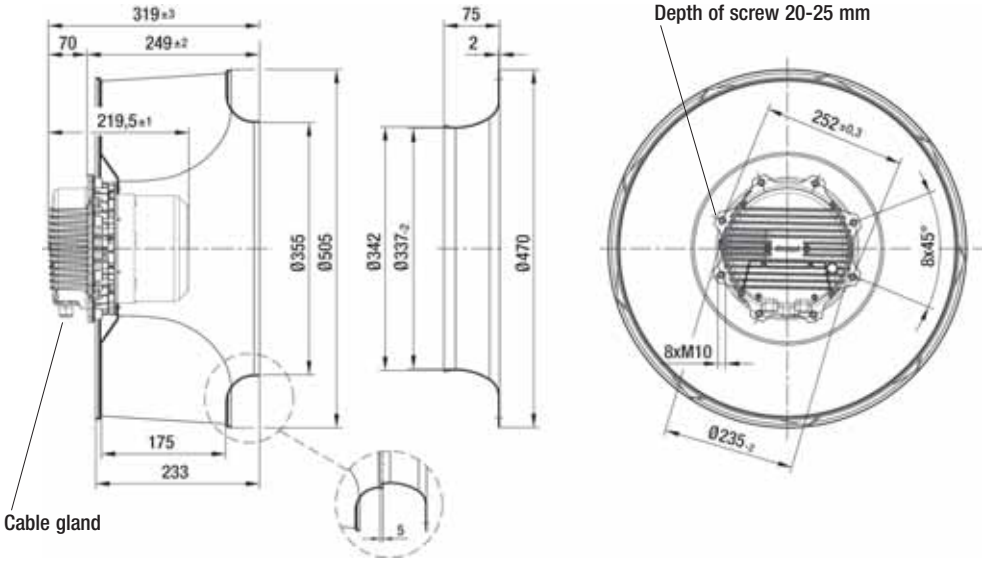


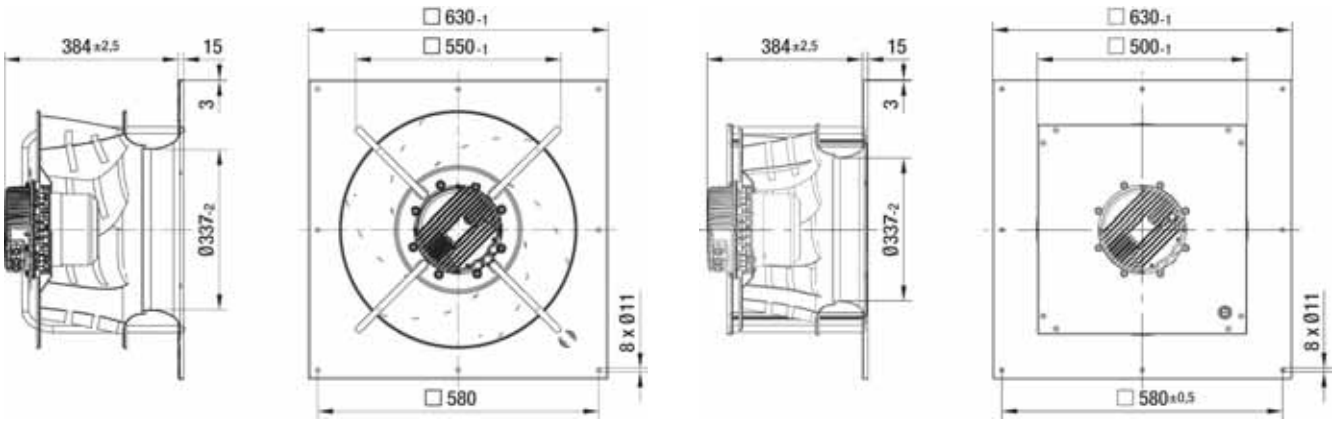
ebmpapst

- **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 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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, GOST

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| R3G 500-AG06 -03 | 22.0 | 63072-2-4013 | K3G 500-AG06 -10 | 38.5 | K3G 500-AG06 -03 | 41.0 |






Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 608

# EC centrifugal fan

backward curved, 3-D, Ø 560

- **Material:** Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 9
- **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

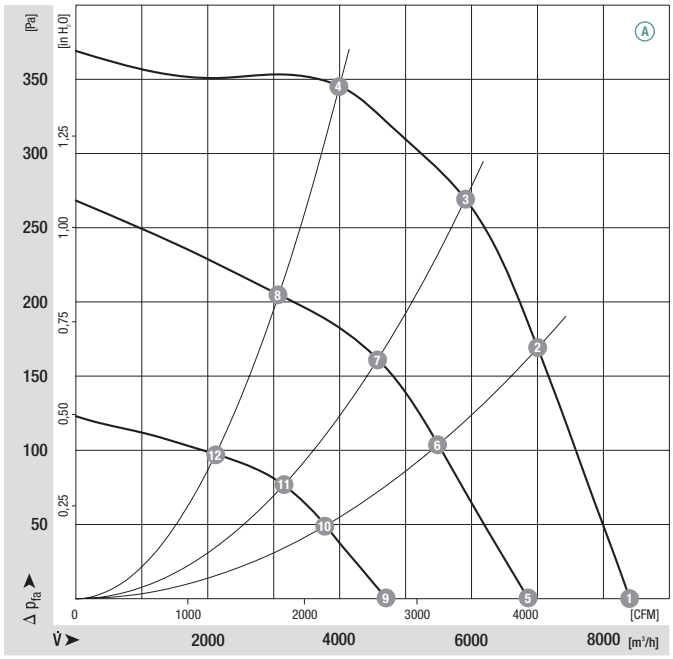
## Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | kW | A | °C | p. 607 |
| *3G 560 | M3G 112-GA | Ⓐ | 1~ 200-277 | 50/60 | 945 | 0.79 | 3.50 | -25 to +60 | L1) |

subject to alterations

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

## Curves

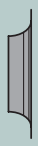



| | n [rpm] | $P_1$ [kW] | I [A] | $Lw_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 945 | 0.47 | 2.20 | 74 | — |
| Ⓐ 2 | 945 | 0.69 | 3.10 | 71 | 70 |
| Ⓐ 3 | 945 | 0.79 | 3.50 | 70 | 74 |
| Ⓐ 4 | 945 | 0.71 | 3.20 | 71 | 66 |
| Ⓐ 5 | 760 | 0.24 | 1.20 | 69 | 46 |
| Ⓐ 6 | 735 | 0.31 | 1.40 | 67 | 77 |
| Ⓐ 7 | 725 | 0.34 | 1.60 | 68 | 81 |
| Ⓐ 8 | 740 | 0.31 | 1.40 | 64 | 64 |
| Ⓐ 9 | 520 | 0.09 | 0.50 | 72 | 50 |
| Ⓐ 10 | 505 | 0.11 | 0.60 | 60 | 82 |
| Ⓐ 11 | 500 | 0.12 | 0.60 | 54 | 85 |
| Ⓐ 12 | 505 | 0.11 | 0.60 | 54 | 71 |

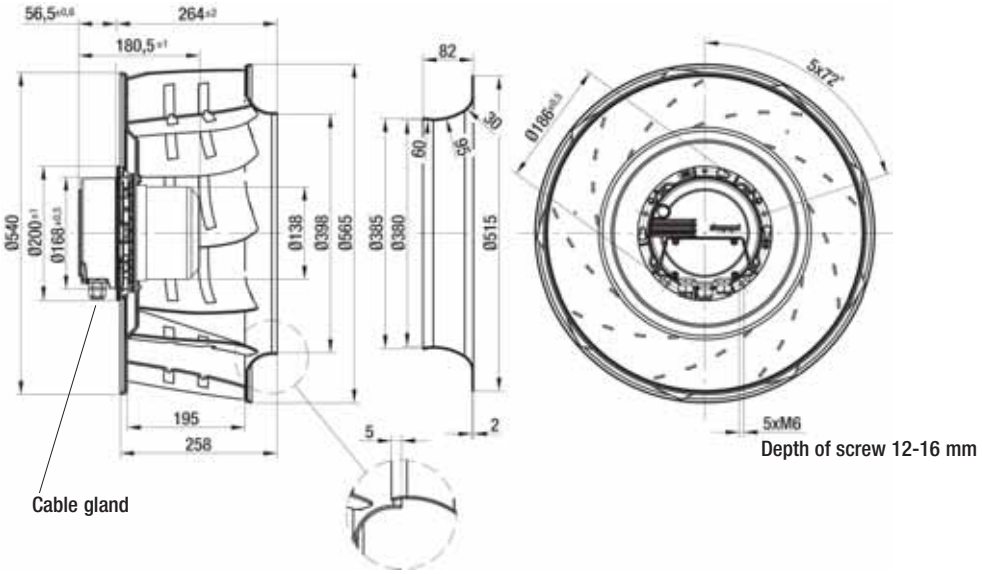


ebmpapst

- **Technical features:**
  - PFC (active)
  - 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 ebmBUS
  - Alarm relay
  - Line undervoltage detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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
- **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 | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 560-AK32 -11 | 13.9 | 63071-2-4013 |



# EC centrifugal fans and modules

## backward curved, 3-D, Ø 560

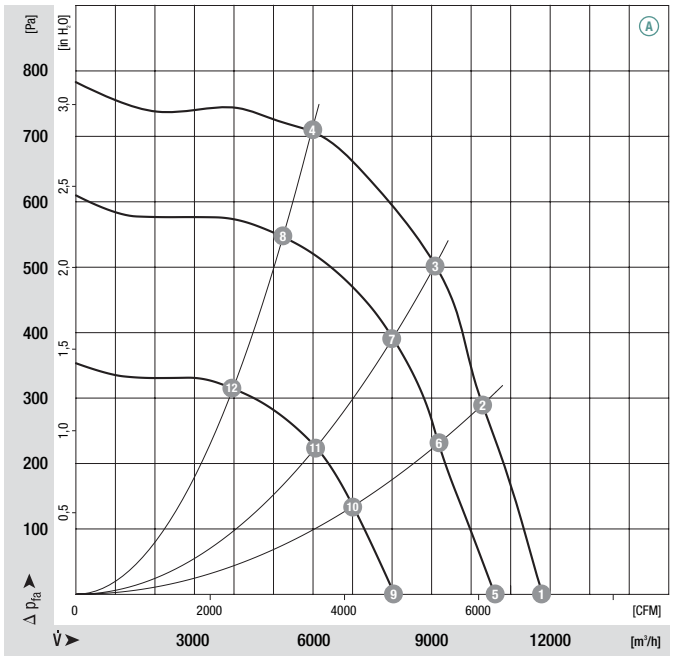
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 608 |
| ***3G 560** | M3G 150-FF | Ⓐ | 3~ 200-240 | 50/60 | 1350 | 2.30 | 7.00 | -25 to +55 | M) |

subject to alterations

(1) Nominal data in operating point with maximum load and 200 VAC

## Curves

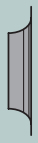
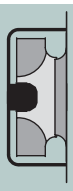
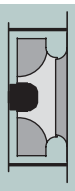



| | n [rpm] | $P_1$ [kW] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1350 | 1.33 | 4.40 | 78 | — |
| Ⓐ 2 | 1350 | 1.90 | 5.80 | 77 | 60 |
| Ⓐ 3 | 1350 | 2.15 | 6.80 | 74 | 68 |
| Ⓐ 4 | 1350 | 2.10 | 4.40 | 74 | 63 |
| Ⓐ 5 | 1200 | 0.90 | 3.20 | 75 | — |
| Ⓐ 6 | 1200 | 1.30 | 4.20 | 73 | 60 |
| Ⓐ 7 | 1200 | 1.55 | 5.00 | 71 | 68 |
| Ⓐ 8 | 1200 | 1.43 | 4.60 | 71 | 62 |
| Ⓐ 9 | 910 | 0.45 | 1.80 | 67 | — |
| Ⓐ 10 | 910 | 0.60 | 2.20 | 65 | 60 |
| Ⓐ 11 | 910 | 0.70 | 2.40 | 64 | 65 |
| Ⓐ 12 | 910 | 0.65 | 2.40 | 64 | 63 |

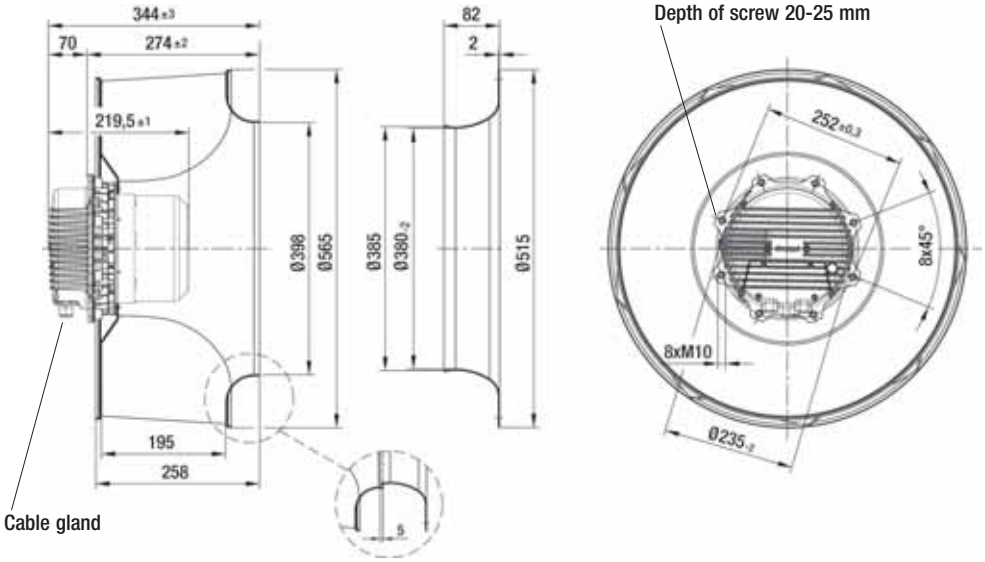


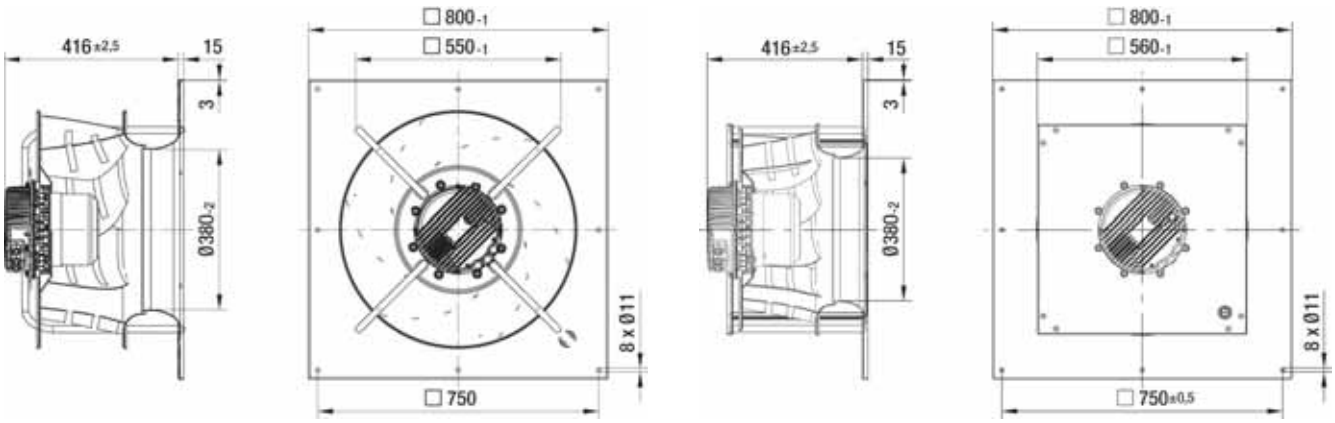
ebmpapst

- **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 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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:** UL, CSA, GOST

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 560-AG11 -13** | 23.5 | 63071-2-4013 | **K3G 560-AG11 -20** | 45.5 | **K3G 560-AG11 -13** | 48.5 |



# EC centrifugal fans and modules

## backward curved, 3-D, Ø 560

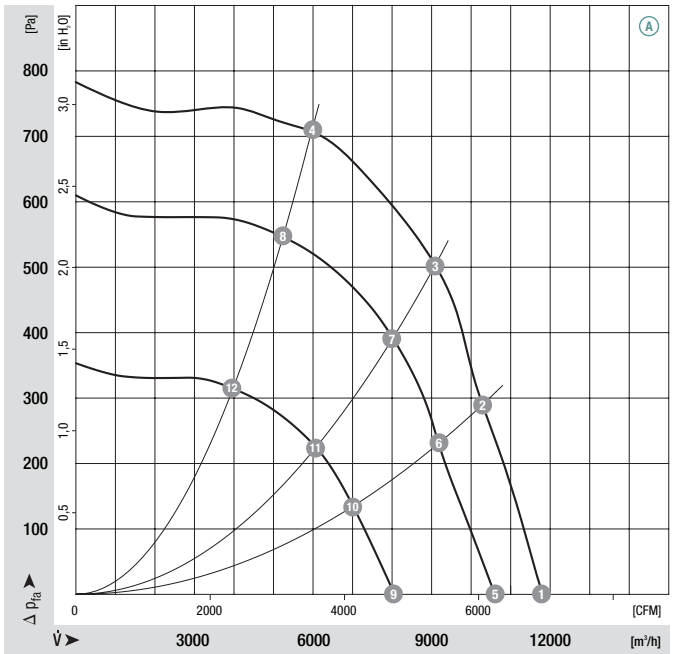
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 608 |
| ***3G 560** | M3G 150-FF | Ⓐ | 3~ 380-480 | 50/60 | 1350 | 2.30 | 3.60 | -25 to +60 | M) |

subject to alterations

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

## Curves

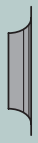
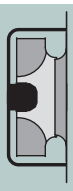
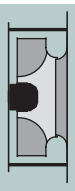



| | n [rpm] | $P_1$ [kW] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1350 | 1.33 | 2.20 | 78 | — |
| Ⓐ 2 | 1350 | 1.90 | 2.90 | 77 | 60 |
| Ⓐ 3 | 1350 | 2.15 | 3.40 | 74 | 68 |
| Ⓐ 4 | 1350 | 2.10 | 2.20 | 74 | 63 |
| Ⓐ 5 | 1200 | 0.90 | 1.60 | 75 | — |
| Ⓐ 6 | 1200 | 1.30 | 2.10 | 73 | 60 |
| Ⓐ 7 | 1200 | 1.55 | 2.50 | 71 | 68 |
| Ⓐ 8 | 1200 | 1.43 | 2.30 | 71 | 62 |
| Ⓐ 9 | 910 | 0.45 | 0.90 | 67 | — |
| Ⓐ 10 | 910 | 0.60 | 1.10 | 65 | 60 |
| Ⓐ 11 | 910 | 0.70 | 1.20 | 64 | 65 |
| Ⓐ 12 | 910 | 0.65 | 1.20 | 64 | 63 |

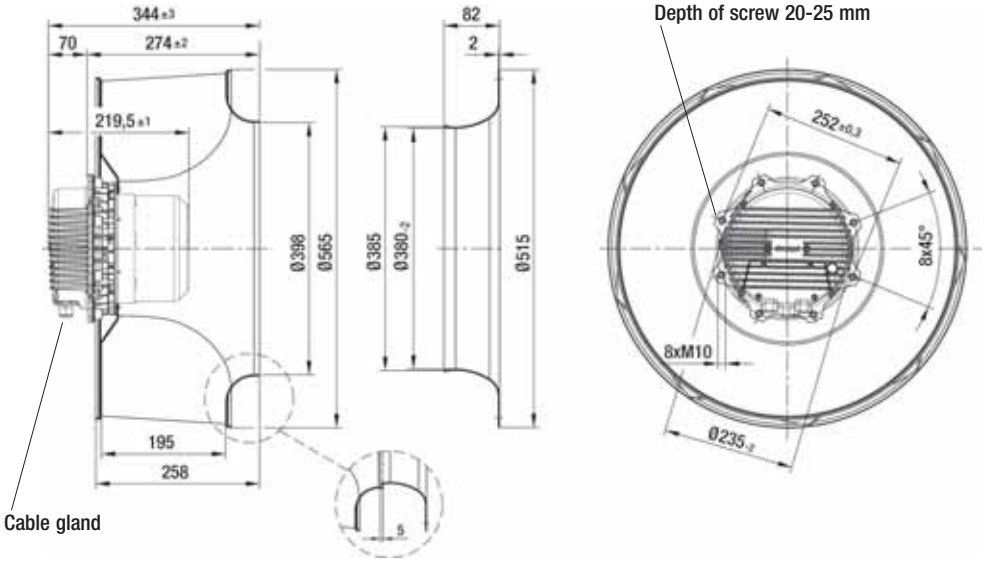


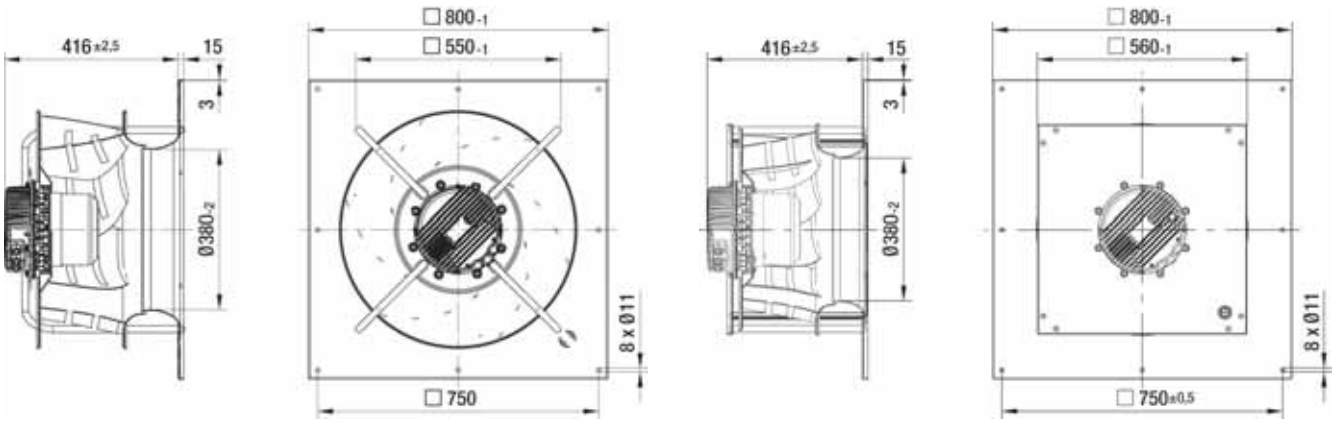
ebmpapst

- **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 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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, GOST

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 560-AG07 -03** | 23.5 | 63071-2-4013 | **K3G 560-AG07 -10** | 45.5 | **K3G 560-AG07 -03** | 48.5 |






Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 608

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 560

- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 9
- **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

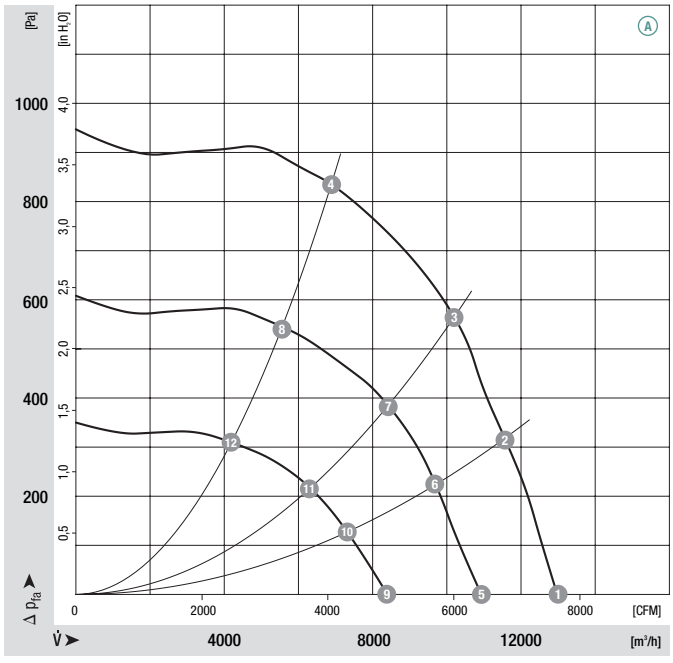
**Nominal data**

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | kW | A | °C | p. 608 |
| *3G 560 | M3G 150-IF | Ⓐ | 3~ 200-240 | 50/60 | 1510 | 2.90 | 9.20 | -25 to +45 | M) |

subject to alterations

(1) Nominal data in operating point with maximum load and 200 VAC

**Curves**

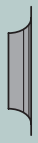
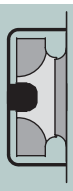
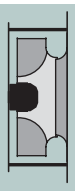



| | n [rpm] | $P_1$ [kW] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1510 | 1.90 | 6.00 | 81 | — |
| Ⓐ 2 | 1510 | 2.47 | 7.60 | 80 | 52 |
| Ⓐ 3 | 1510 | 3.05 | 9.20 | 77 | 67 |
| Ⓐ 4 | 1510 | 2.85 | 8.80 | 76 | 64 |
| Ⓐ 5 | 1200 | 0.90 | 3.20 | 75 | — |
| Ⓐ 6 | 1200 | 1.30 | 4.20 | 73 | 60 |
| Ⓐ 7 | 1200 | 1.55 | 5.00 | 71 | 68 |
| Ⓐ 8 | 1200 | 1.43 | 4.60 | 71 | 62 |
| Ⓐ 9 | 910 | 0.45 | 1.80 | 67 | — |
| Ⓐ 10 | 910 | 0.60 | 2.20 | 65 | 60 |
| Ⓐ 11 | 910 | 0.70 | 2.40 | 64 | 65 |
| Ⓐ 12 | 910 | 0.65 | 2.40 | 64 | 63 |

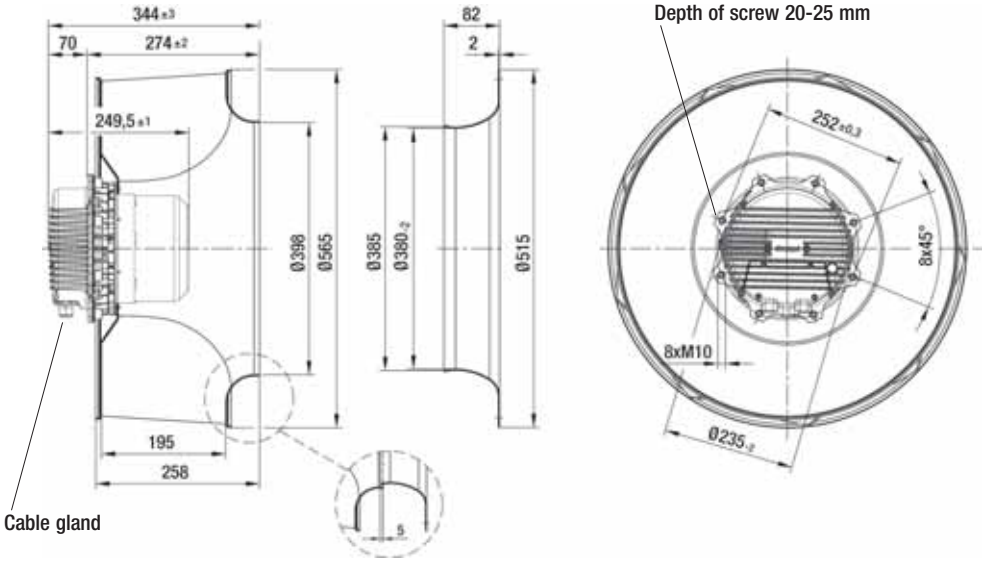


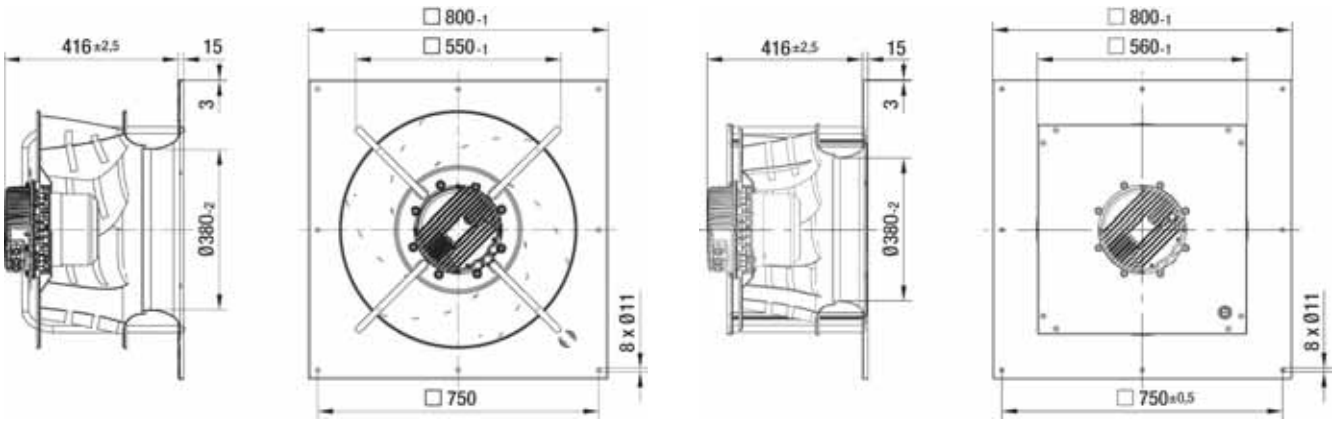
ebmpapst

- **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 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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:** UL, CSA, GOST

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 560-AH07 -13** | 27.5 | 63071-2-4013 | **K3G 560-AH07 -20** | 49.5 | **K3G 560-AH07 -13** | 52.5 |






Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 608

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 560

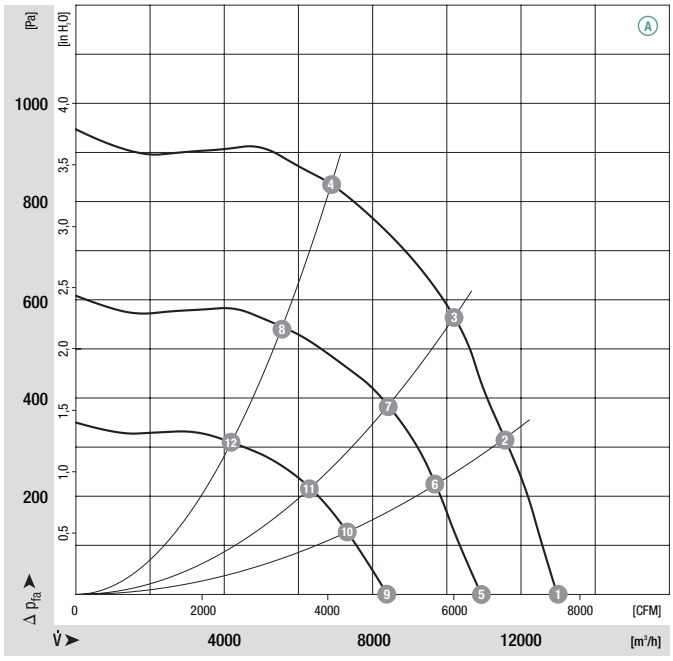
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 608 |
| ***3G 560** | M3G 150-IF | Ⓐ | 3~ 380-480 | 50/60 | 1510 | 3.10 | 4.90 | -25 to +60 | M) |

subject to alterations

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

## Curves

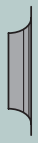
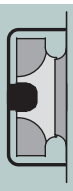
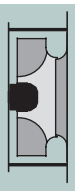



| | n [rpm] | $P_1$ [kW] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1510 | 1.90 | 3.00 | 81 | — |
| Ⓐ 2 | 1510 | 2.47 | 3.80 | 80 | 52 |
| Ⓐ 3 | 1510 | 3.05 | 4.60 | 77 | 67 |
| Ⓐ 4 | 1510 | 2.85 | 4.40 | 76 | 64 |
| Ⓐ 5 | 1200 | 0.90 | 1.60 | 75 | — |
| Ⓐ 6 | 1200 | 1.30 | 2.10 | 73 | 60 |
| Ⓐ 7 | 1200 | 1.55 | 2.50 | 71 | 68 |
| Ⓐ 8 | 1200 | 1.43 | 2.30 | 71 | 62 |
| Ⓐ 9 | 910 | 0.45 | 0.90 | 67 | — |
| Ⓐ 10 | 910 | 0.60 | 1.10 | 65 | 60 |
| Ⓐ 11 | 910 | 0.70 | 1.20 | 64 | 65 |
| Ⓐ 12 | 910 | 0.65 | 1.20 | 64 | 63 |

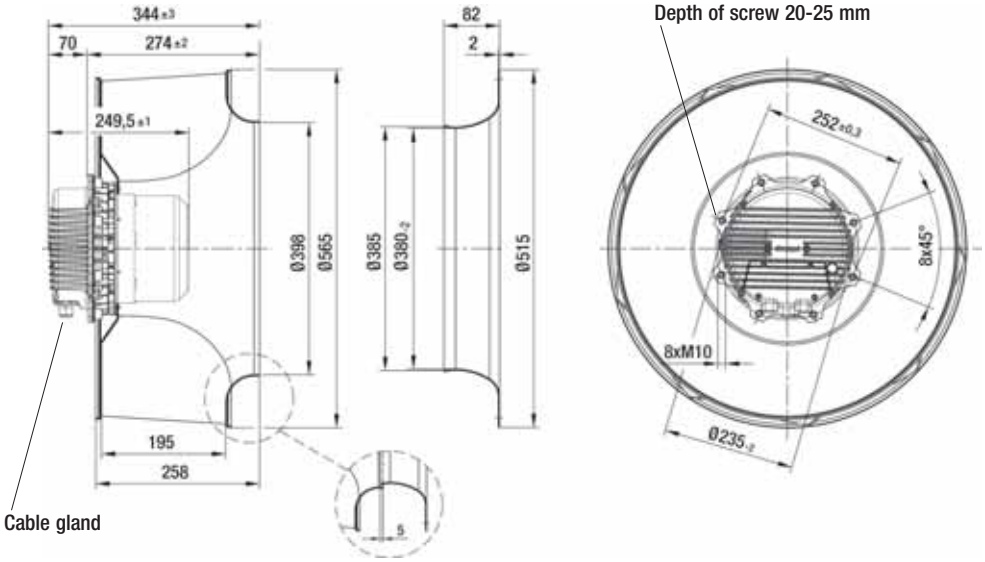


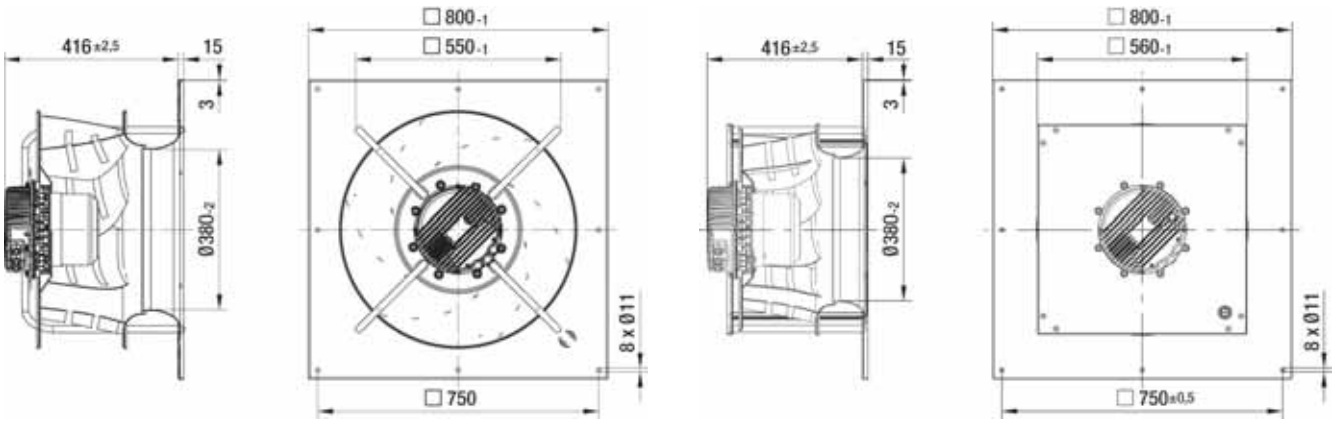
ebmpapst

- **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 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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, GOST

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 560-AH02 -03** | 27.5 | 63071-2-4013 | **K3G 560-AH02 -10** | 49.5 | **K3G 560-AH02 -03** | 52.5 |



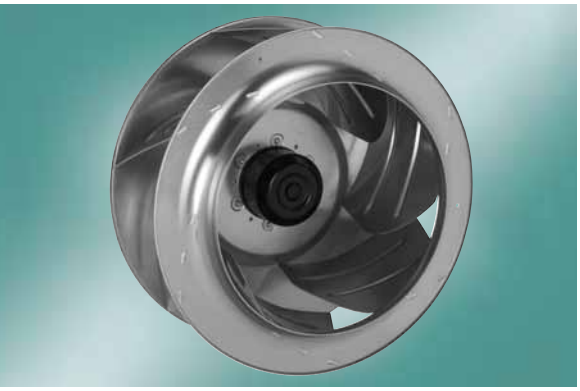






Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 608

# EC centrifugal fan

backward curved, 3-D, Ø 630



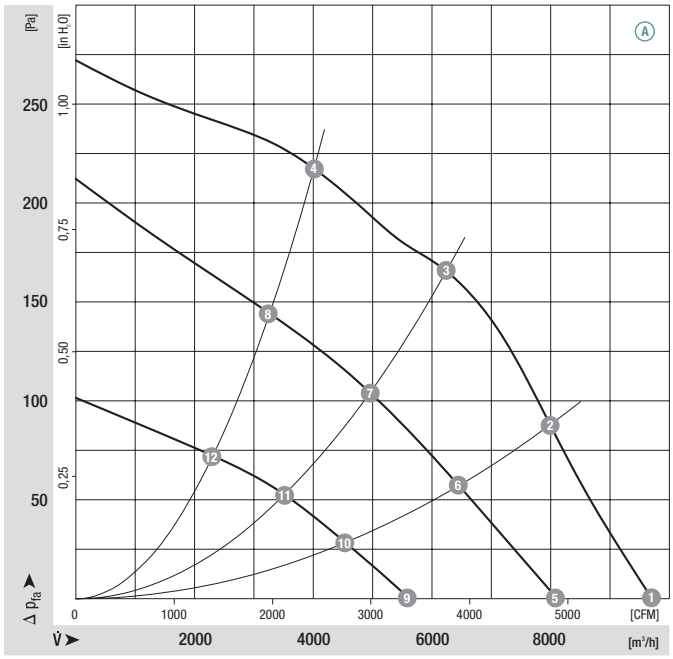
- **Material:** Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 607 |
| ***3G 630** | M3G 112-GA | Ⓐ | 3~ 380-480 | 50/60 | 685 | 0.53 | 1.00 | -25 to +60 | L2) |

subject to alterations

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

## Curves




| | n [rpm] | $P_1$ [kW] | I [A] | $Lw_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 685 | 0.38 | 0.70 | 73 | — |
| Ⓐ 2 | 685 | 0.47 | 0.90 | 67 | 57 |
| Ⓐ 3 | 685 | 0.53 | 1.00 | 65 | 68 |
| Ⓐ 4 | 685 | 0.48 | 0.90 | 64 | 61 |
| Ⓐ 5 | 560 | 0.21 | 0.40 | 67 | — |
| Ⓐ 6 | 545 | 0.23 | 0.50 | 61 | 61 |
| Ⓐ 7 | 540 | 0.26 | 0.50 | 59 | 71 |
| Ⓐ 8 | 550 | 0.24 | 0.50 | 58 | 65 |
| Ⓐ 9 | 390 | 0.08 | 0.20 | 56 | — |
| Ⓐ 10 | 385 | 0.09 | 0.20 | 52 | 63 |
| Ⓐ 11 | 380 | 0.10 | 0.30 | 51 | 75 |
| Ⓐ 12 | 390 | 0.10 | 0.30 | 49 | 66 |



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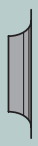
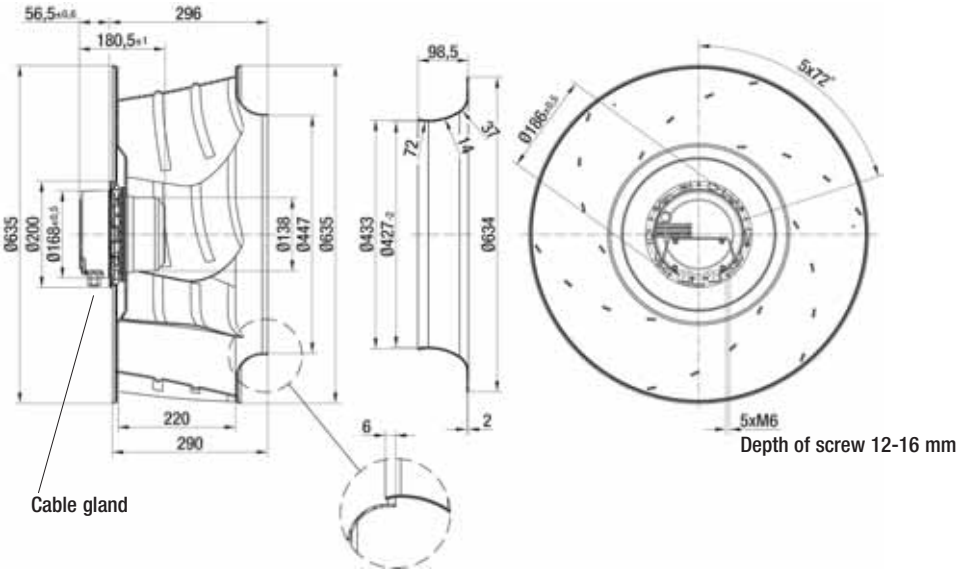
- **Technical features:**
  - PFC (passive)
  - Integrated PID controller
  - Control input 0-10 VDC / PWM
  - Input for sensor 0-10 V or 4-20 mA
  - Slave output 0-10 V max. 3 mA
  - Output 20 VDC (±20 %) max. 50 mA
  - Output 10 VDC (+10 %) max. 10 mA
  - RS485 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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 | Mass of centrifugal fan kg | Inlet nozzle (long) |
|---|---|---|
| R3G 630-AF36 -01 | 14.7 | 63070-2-4013 |








Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 607

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 630

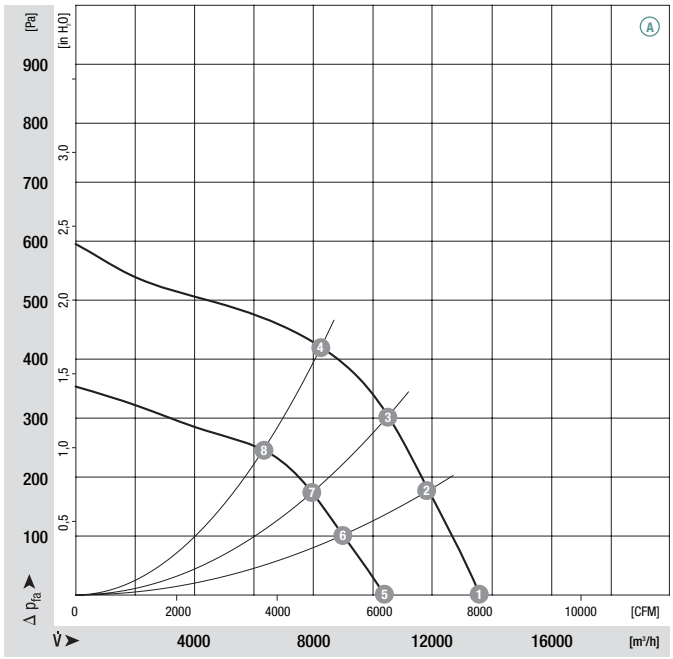
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 608 |
| ***3G 630** | M3G 150-FF | Ⓐ | 3~ 200-240 | 50/60 | 1000 | 1.70 | 5.30 | -25 to +60 | M) |

subject to alterations

(1) Nominal data in operating point with maximum load and 200 VAC

## Curves



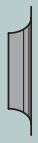

| | n [rpm] | $P_1$ [kW] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1000 | 1.10 | 3.60 | 74 | — |
| Ⓐ 2 | 1000 | 1.40 | 4.60 | 71 | 54 |
| Ⓐ 3 | 1000 | 1.65 | 5.00 | 70 | 66 |
| Ⓐ 4 | 1000 | 1.70 | 5.20 | 70 | 64 |
| Ⓐ 5 | 770 | 0.50 | 2.00 | 66 | — |
| Ⓐ 6 | 770 | 0.65 | 2.40 | 64 | 54 |
| Ⓐ 7 | 770 | 0.73 | 2.80 | 64 | 66 |
| Ⓐ 8 | 770 | 0.77 | 2.80 | 64 | 64 |

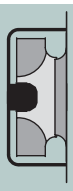


ebmpapst

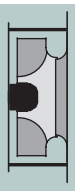
- **Technical features:**
  - PFC (passive)
  - Integrated PID controller
  - Control input 0-10 VDC / PWM
  - Input for sensor 0-10 V or 4-20 mA
  - Slave output 0-10 V max. 3 mA
  - Output 20 VDC (±20 %) max. 50 mA
  - Output 10 VDC (+10 %) max. 10 mA
  - RS485 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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:** UL, CSA, GOST

Mass of centrifugal fan



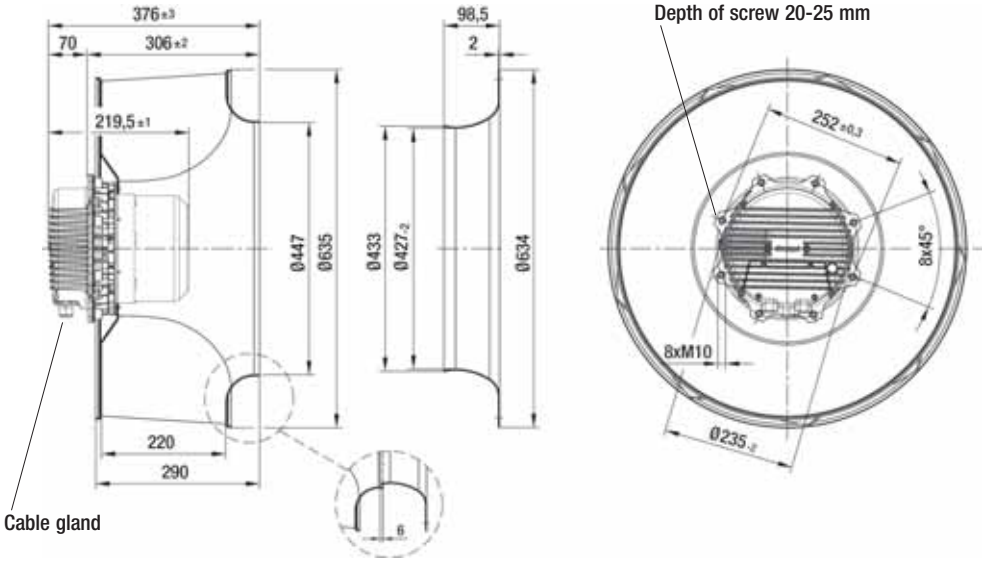


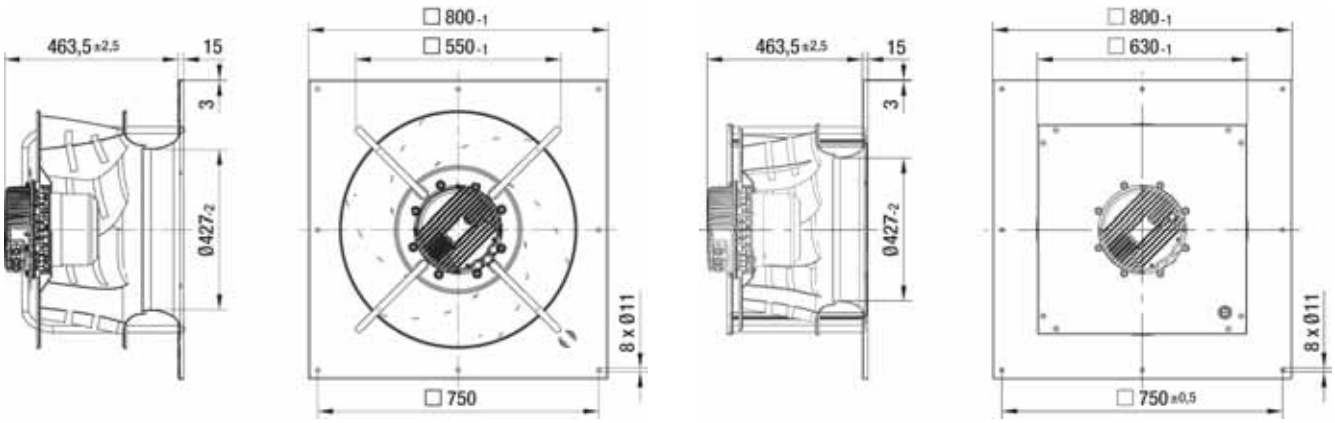
Mass of centrifugal module with support bracket



Mass of centrifugal module with support plate

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 630-AA12 -13** | 24.5 | 63070-2-4013 | **K3G 630-AA12 -20** | 47.5 | **K3G 630-AA12 -13** | 52.0 |



# EC centrifugal fans and modules

## backward curved, 3-D, Ø 630

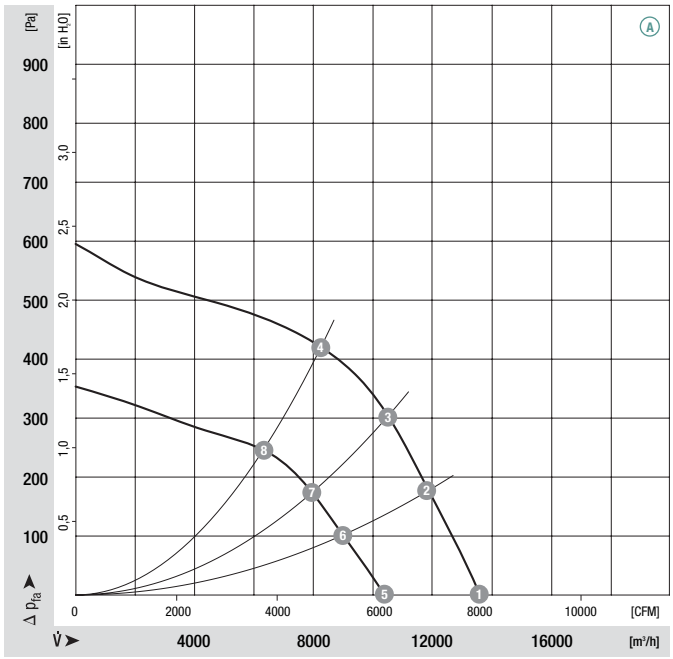
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 608 |
| ***3G 630** | M3G 150-FF | Ⓐ | 3~ 380-480 | 50/60 | 1000 | 1.70 | 2.80 | -25 to +60 | M) |

subject to alterations

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

## Curves

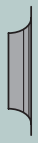


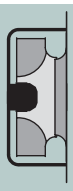

| | n [rpm] | $P_1$ [kW] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1000 | 1.10 | 1.80 | 74 | — |
| Ⓐ 2 | 1000 | 1.40 | 2.30 | 71 | 54 |
| Ⓐ 3 | 1000 | 1.65 | 2.50 | 70 | 66 |
| Ⓐ 4 | 1000 | 1.70 | 2.60 | 70 | 64 |
| Ⓐ 5 | 770 | 0.50 | 1.00 | 66 | — |
| Ⓐ 6 | 770 | 0.65 | 1.20 | 64 | 54 |
| Ⓐ 7 | 770 | 0.73 | 1.40 | 64 | 66 |
| Ⓐ 8 | 770 | 0.77 | 1.40 | 64 | 64 |

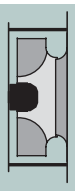


ebmpapst

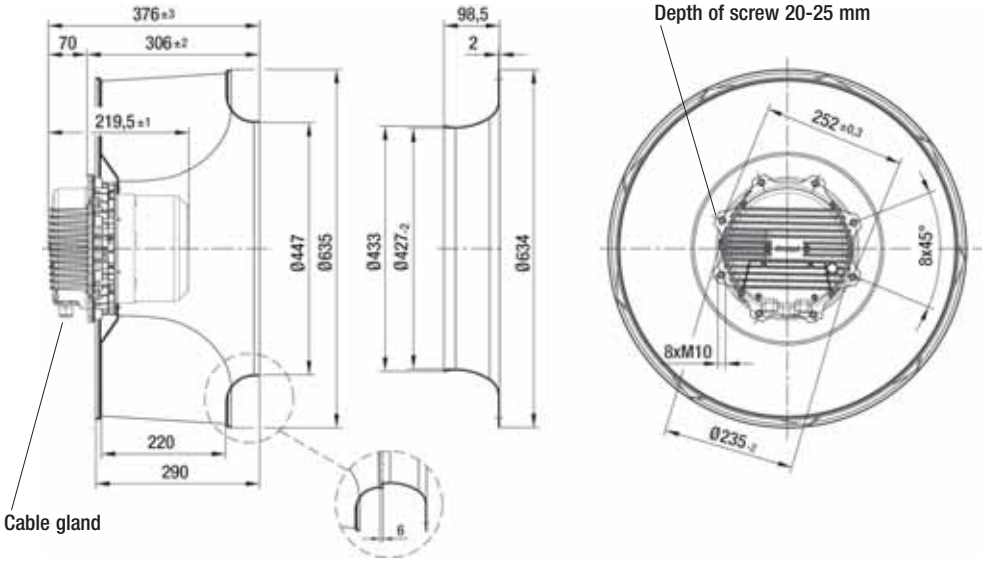
- **Technical features:**
  - PFC (passive)
  - Integrated PID controller
  - Control input 0-10 VDC / PWM
  - Input for sensor 0-10 V or 4-20 mA
  - Slave output 0-10 V max. 3 mA
  - Output 20 VDC (±20 %) max. 50 mA
  - Output 10 VDC (+10 %) max. 10 mA
  - RS485 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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, GOST

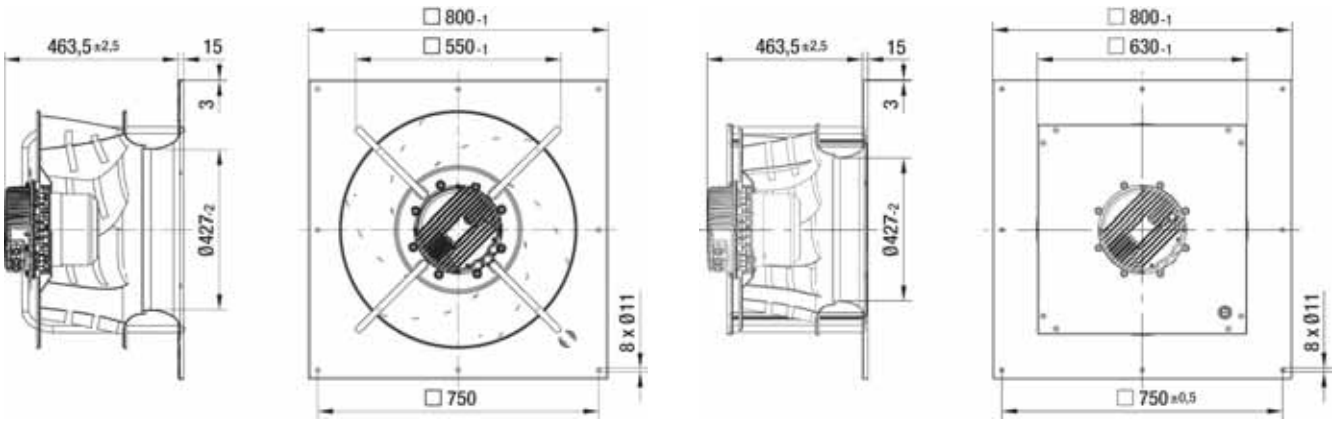






| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Centrifugal module w. support bracket | Mass of centrifugal module with support bracket kg | Centrifugal module with support plate | Mass of centrifugal module with support plate kg |
|---|---|---|---|---|---|---|
| **R3G 630-AA08 -03** | 24.5 | 63070-2-4013 | **K3G 630-AA08 -10** | 47.5 | **K3G 630-AA08 -03** | 52.0 |






Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 608

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 630

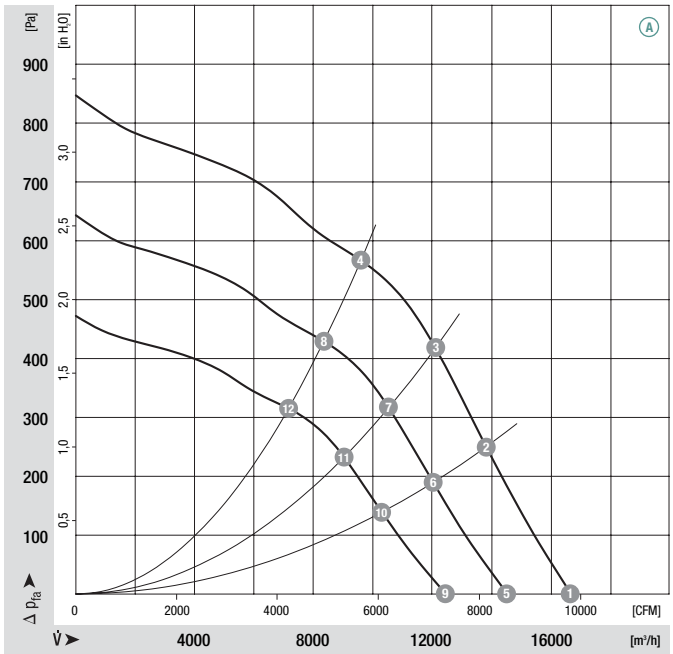
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 608 |
| ***3G 630** | M3G 150-IF | Ⓐ | 3~ 200-240 | 50/60 | 1200 | 2.80 | 8.40 | -25 to +45 | M) |

subject to alterations

(1) Nominal data in operating point with maximum load and 200 VAC

## Curves




| | n [rpm] | $P_1$ [kW] | I [A] | $Lw_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1200 | 1.95 | 5.90 | 88 | — |
| Ⓐ 2 | 1200 | 2.44 | 7.40 | 83 | 52 |
| Ⓐ 3 | 1200 | 2.70 | 8.20 | 82 | 64 |
| Ⓐ 4 | 1200 | 2.80 | 8.40 | 82 | 64 |
| Ⓐ 5 | 1050 | 1.29 | 4.00 | 85 | — |
| Ⓐ 6 | 1050 | 1.61 | 4.80 | 80 | 52 |
| Ⓐ 7 | 1050 | 1.78 | 5.40 | 79 | 64 |
| Ⓐ 8 | 1050 | 1.83 | 5.60 | 79 | 64 |
| Ⓐ 9 | 900 | 0.81 | 2.40 | 82 | — |
| Ⓐ 10 | 900 | 1.01 | 3.00 | 77 | 52 |
| Ⓐ 11 | 900 | 1.12 | 3.40 | 75 | 64 |
| Ⓐ 12 | 900 | 1.15 | 3.40 | 75 | 64 |

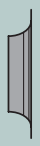
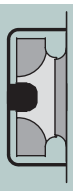
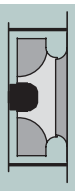


ebmpapst

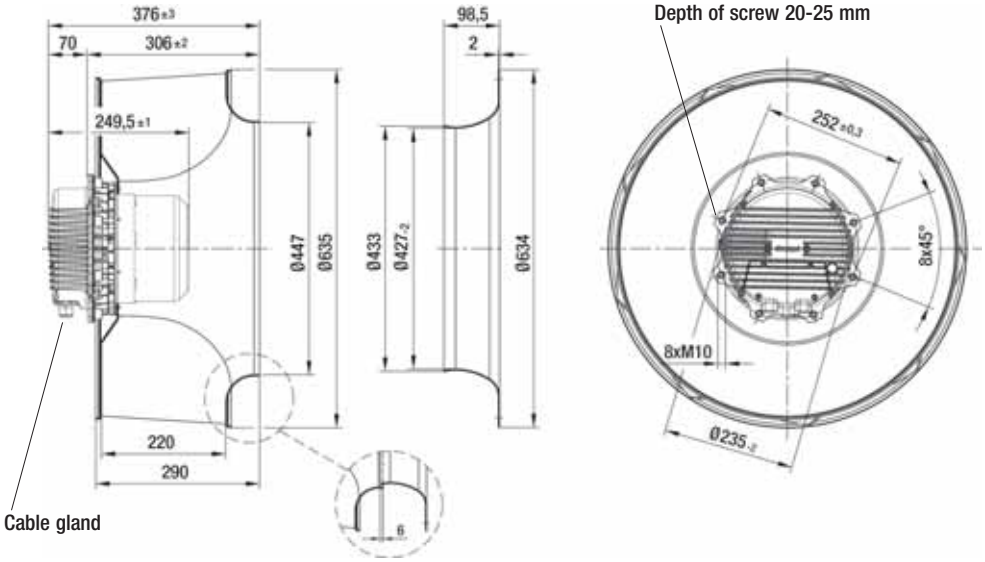
- **Technical features:**
  - PFC (passive)
  - Integrated PID controller
  - Control input 0-10 VDC / PWM
  - Input for sensor 0-10 V or 4-20 mA
- **EMC:** Interference emission acc. to EN 61000-6-3
  Interference immunity acc. to EN 61000-6-2
  Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 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:** UL, CSA, GOST

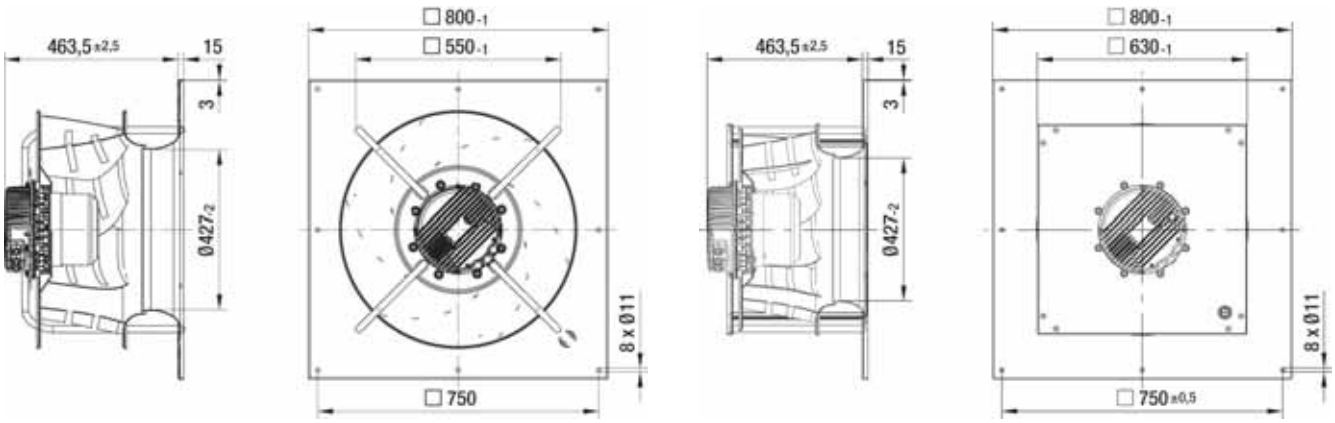
- Slave output 0-10 V max. 3 mA
- Output 20 VDC (±20 %) max. 50 mA
- Output 10 VDC (+10 %) max. 10 mA
- RS485 ebmBUS
- Alarm relay

- Line undervoltage / phase failure detection
- Motor current limitation
- Electronics / motor overtemperature protection
- Locked-rotor protection
- Soft start

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 630-AB10 -13** | 28.5 | 63070-2-4013 | **K3G 630-AB10 -20** | 51.5 | **K3G 630-AB10 -13** | 56.0 |






Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 608

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 630

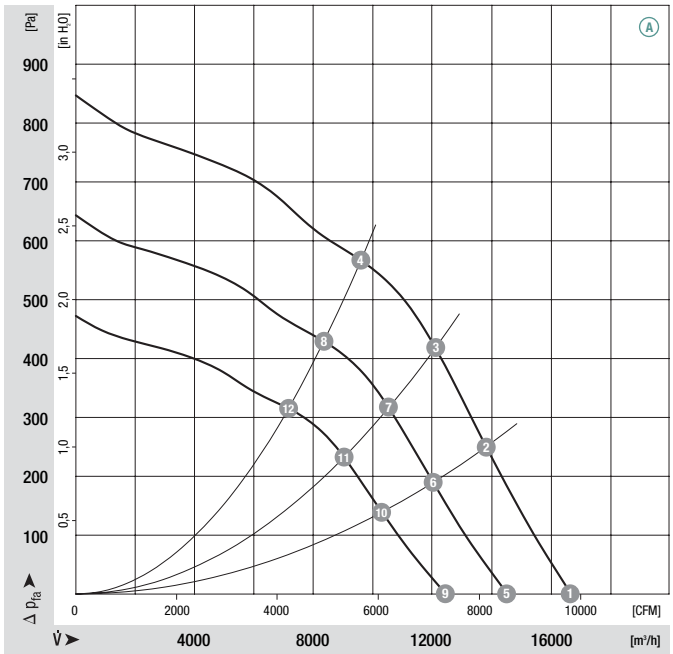
- **Material:** Support bracket: Steel, coated in black
  Support plate: Galvanised sheet steel, spacer profiles: Aluminium
  Impeller: Sheet aluminium, welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 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 | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **kW** | **A** | **°C** | p. 608 |
| ***3G 630** | M3G 150-IF | Ⓐ | 3~ 380-480 | 50/60 | 1200 | 2.80 | 4.20 | -25 to +55 | M) |

subject to alterations

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

## Curves

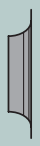
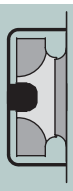
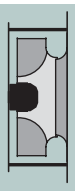



| | n [rpm] | $P_1$ [kW] | I [A] | $Lw_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1200 | 1.95 | 3.00 | 88 | — |
| Ⓐ 2 | 1200 | 2.44 | 3.70 | 83 | 52 |
| Ⓐ 3 | 1200 | 2.70 | 4.10 | 82 | 64 |
| Ⓐ 4 | 1200 | 2.80 | 4.20 | 82 | 64 |
| Ⓐ 5 | 1050 | 1.29 | 2.00 | 85 | — |
| Ⓐ 6 | 1050 | 1.61 | 2.40 | 80 | 52 |
| Ⓐ 7 | 1050 | 1.78 | 2.70 | 79 | 64 |
| Ⓐ 8 | 1050 | 1.83 | 2.80 | 79 | 64 |
| Ⓐ 9 | 900 | 0.81 | 1.20 | 82 | — |
| Ⓐ 10 | 900 | 1.01 | 1.50 | 77 | 52 |
| Ⓐ 11 | 900 | 1.12 | 1.70 | 75 | 64 |
| Ⓐ 12 | 900 | 1.15 | 1.70 | 75 | 64 |

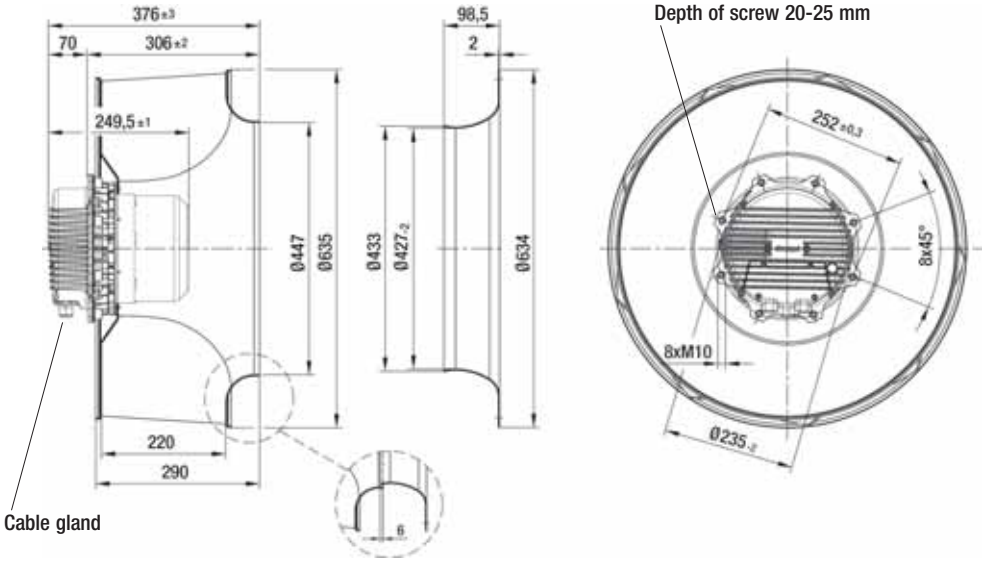


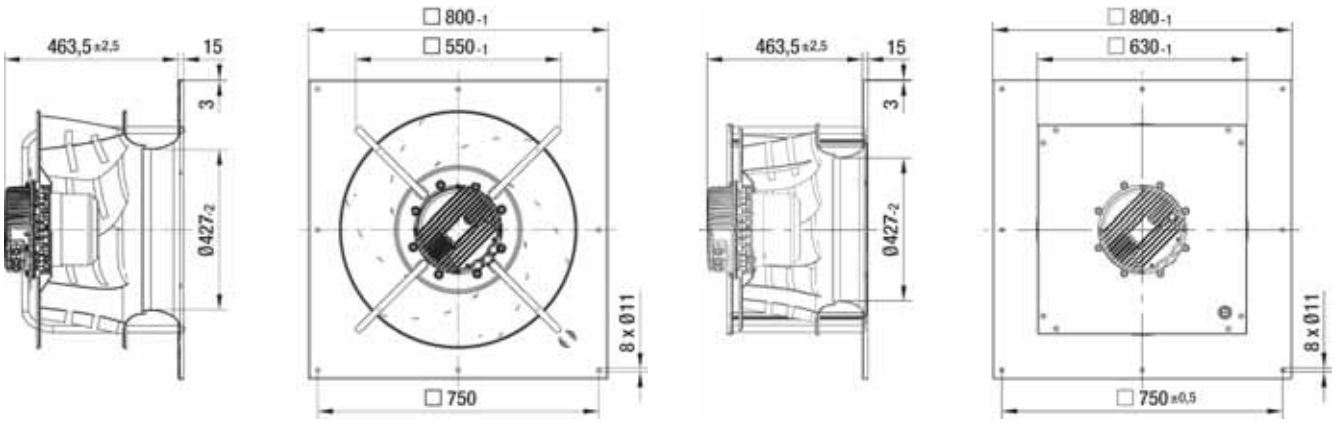
ebmpapst

- **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 ebmBUS
  - Alarm relay
  - Line undervoltage / phase failure detection
  - Motor current limitation
  - Electronics / motor overtemperature protection
  - Locked-rotor protection
  - Soft start
- **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, GOST

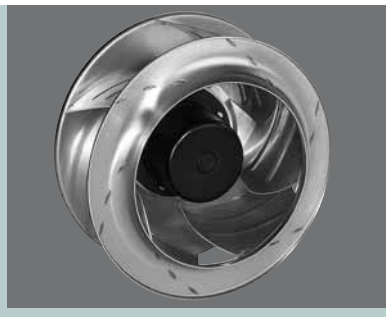
| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module w. support bracket | kg | Centrifugal module with support plate | kg |
|---|---|---|---|---|---|---|
| **R3G 630-AB06 -03** | 28.5 | 63070-2-4013 | **K3G 630-AB06 -10** | 51.5 | **K3G 630-AB06 -03** | 56.0 |






Inlet nozzle p. 550 f.
Guard grille p. 553
Electr. connection p. 608

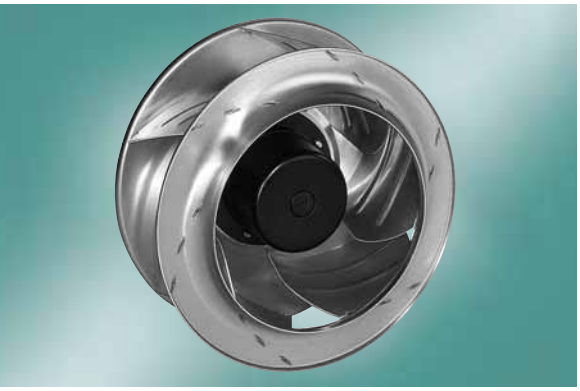


# EC centrifugal fans for clean rooms backward curved



# EC centrifugal fans and modules

## backward curved, 3-D, Ø 310, RS485, ebmBUS



- **Material:** Support plate: Sheet aluminium, 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
- **Insulation class:** "B"
- **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

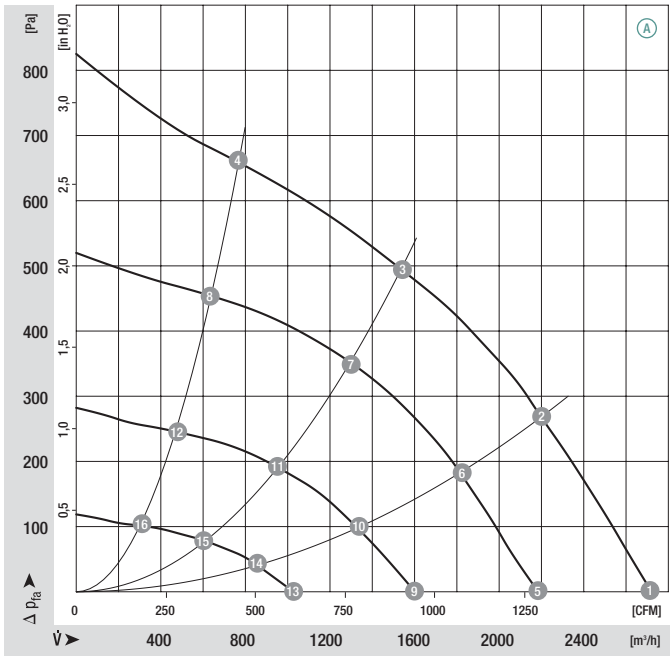
**Nominal data**

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 606 |
| *3G 310 | M3G 084-DF | Ⓐ | 1~ 200-277 | 50/60 | 2340 | 370 | 1.70 | -25 to +40 | K2) |

subject to alterations

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

**Curves** (established with long inlet nozzle)

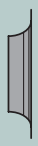


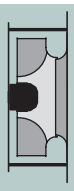

| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 2340 | 265 | 1.20 | 74 | — |
| Ⓐ 2 | 2270 | 335 | 1.50 | 71 | 63 |
| Ⓐ 3 | 2240 | 370 | 1.70 | 70 | 66 |
| Ⓐ 4 | 2290 | 335 | 1.50 | 70 | 48 |
| Ⓐ 5 | 1910 | 160 | 0.70 | 69 | — |
| Ⓐ 6 | 1910 | 205 | 0.90 | 67 | 63 |
| Ⓐ 7 | 1910 | 240 | 1.00 | 66 | 66 |
| Ⓐ 8 | 1910 | 205 | 0.90 | 66 | 48 |
| Ⓐ 9 | 1410 | 80 | 0.40 | 61 | — |
| Ⓐ 10 | 1410 | 98 | 0.40 | 59 | 63 |
| Ⓐ 11 | 1410 | 112 | 0.50 | 58 | 66 |
| Ⓐ 12 | 1410 | 103 | 0.50 | 57 | 48 |
| Ⓐ 13 | 910 | 40 | 0.20 | 50 | — |
| Ⓐ 14 | 910 | 42 | 0.20 | 47 | 63 |
| Ⓐ 15 | 910 | 46 | 0.20 | 47 | 66 |
| Ⓐ 16 | 910 | 44 | 0.20 | 48 | 48 |



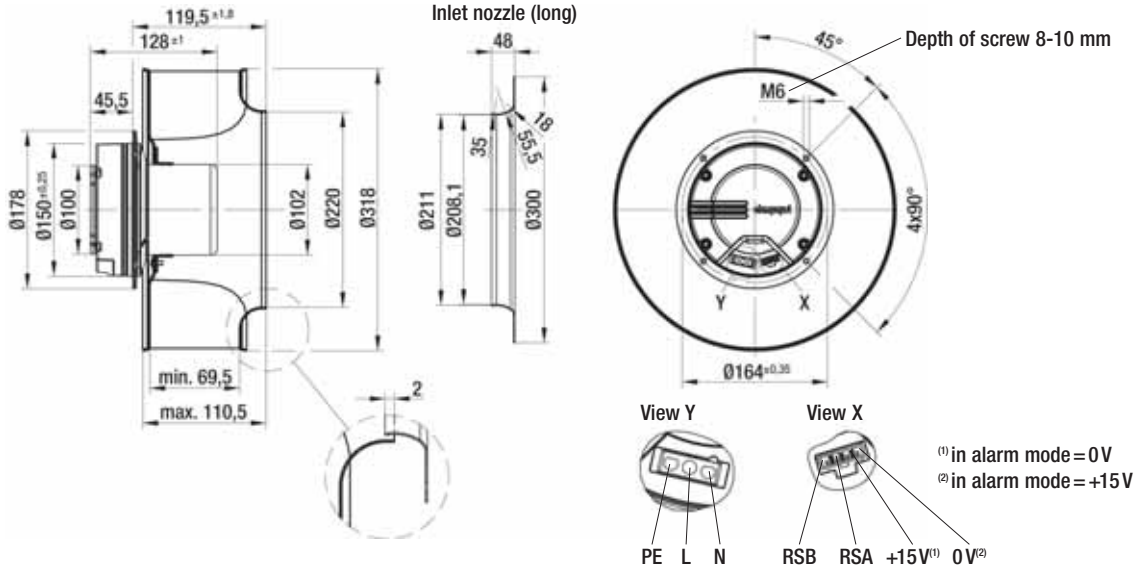
ebmpapst

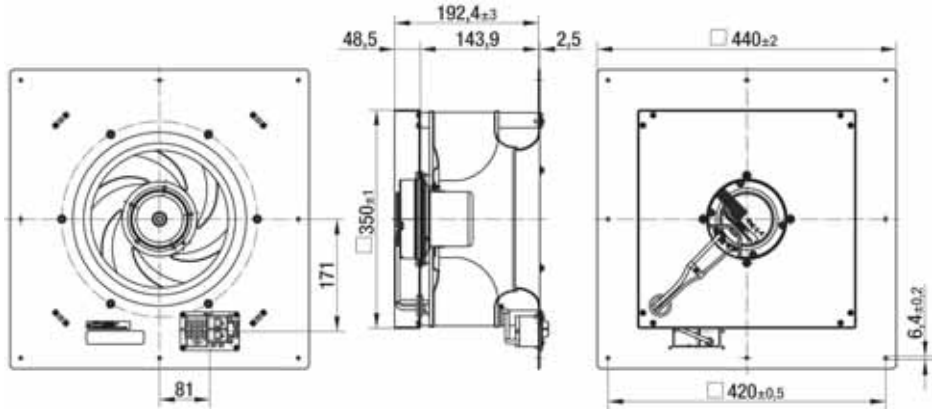
- **Technical features:**
  - PFC (active)
  - RS485 ebmBUS
  - Operation and alarm display: Reversible voltage output 0 V / +15 V (max. 50 mA)
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-4 (industrial environment)
  Interference immunity acc. 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
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA; VDE, CCC, GOST are applied for



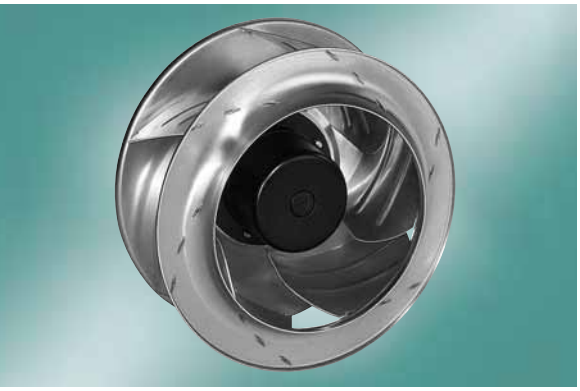
| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Inlet nozzle (short) | Centrifugal module with support plate | Mass of centrifugal module with support plate kg |
|---|---|---|---|---|---|
| **R3G 310-AJ38 -61** | 4.3 | 31050-2-4013 | 31051-2-4013 | **K3G 310-AJ38 -61** | 7.1 |



# EC centrifugal fans and modules

## backward curved, 3-D, Ø 310, RS485, ebmBUS



- **Material:** Support plate: Sheet aluminium, 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
- **Insulation class:** "B"
- **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

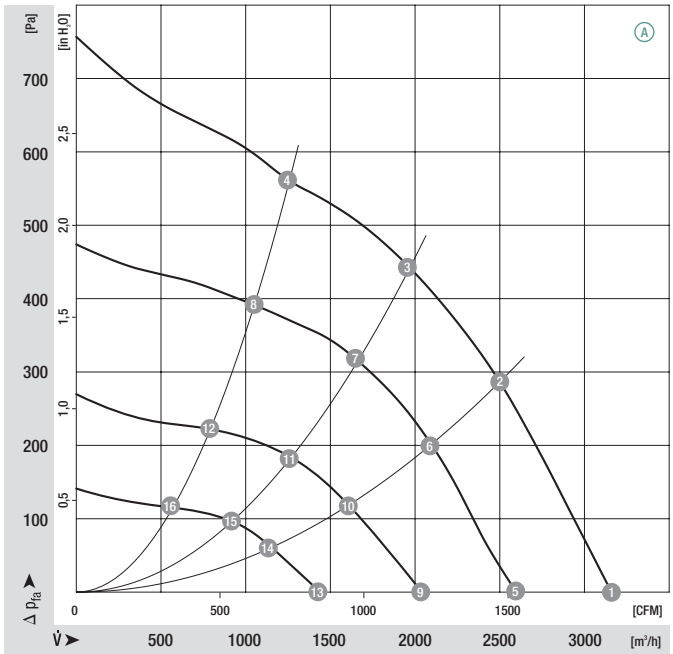
**Nominal data**

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 606 |
| *3G 310 | M3G 084-FA | Ⓐ | 1~ 200-277 | 50/60 | 2200 | 455 | 2.00 | -25 to +40 | K2) |

subject to alterations

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

**Curves** (established with long inlet nozzle)

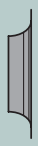


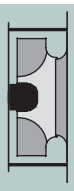

| | | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|---|
| Ⓐ | 1 | 2200 | 345 | 1.50 | 73 | — |
| Ⓐ | 2 | 2150 | 430 | 1.90 | 70 | 60 |
| Ⓐ | 3 | 2130 | 455 | 2.00 | 68 | 64 |
| Ⓐ | 4 | 2170 | 420 | 1.80 | 69 | 54 |
| Ⓐ | 5 | 1800 | 200 | 0.90 | 68 | — |
| Ⓐ | 6 | 1800 | 265 | 1.20 | 65 | 60 |
| Ⓐ | 7 | 1800 | 285 | 1.20 | 63 | 64 |
| Ⓐ | 8 | 1800 | 260 | 1.10 | 64 | 54 |
| Ⓐ | 9 | 1400 | 90 | 0.40 | 61 | — |
| Ⓐ | 10 | 1400 | 118 | 0.50 | 59 | 60 |
| Ⓐ | 11 | 1400 | 128 | 0.60 | 57 | 64 |
| Ⓐ | 12 | 1400 | 113 | 0.50 | 58 | 54 |
| Ⓐ | 13 | 1000 | 33 | 0.10 | 52 | — |
| Ⓐ | 14 | 1000 | 44 | 0.20 | 48 | 60 |
| Ⓐ | 15 | 1000 | 47 | 0.20 | 48 | 64 |
| Ⓐ | 16 | 1000 | 41 | 0.20 | 49 | 54 |



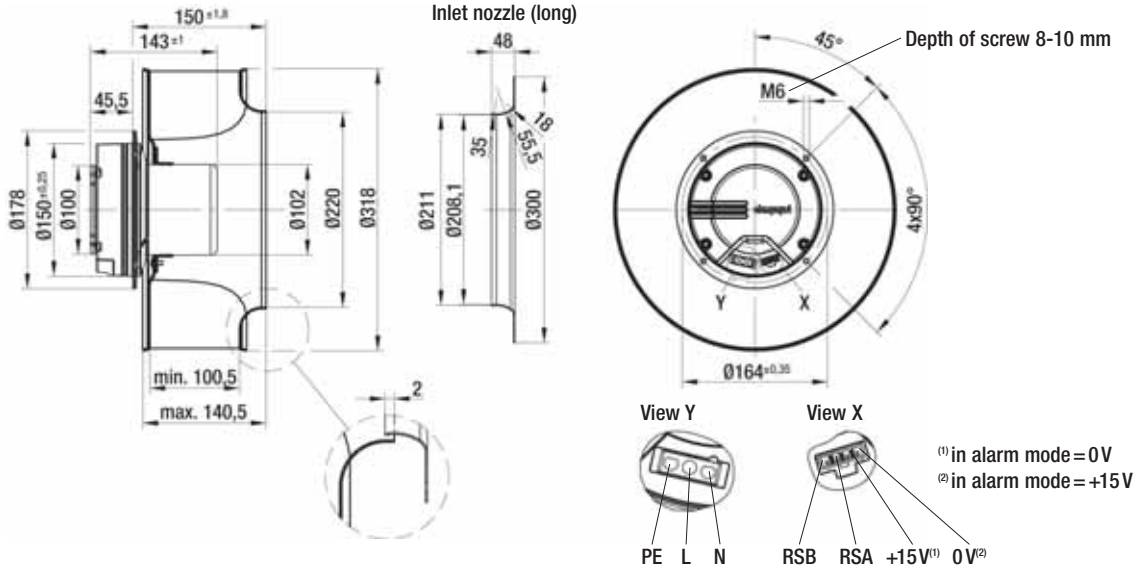
ebmpapst

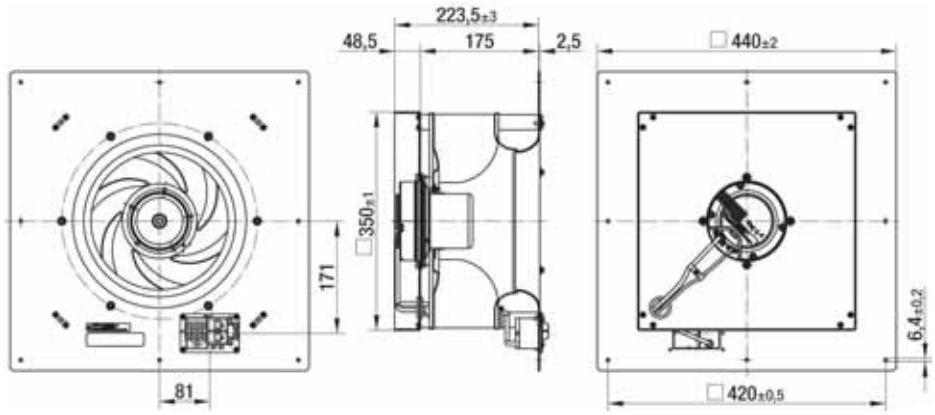
- **Technical features:**
  - PFC (active)
  - RS485 ebmBUS
  - Operation and alarm display: Reversible voltage output 0 V / +15 V (max. 50 mA)
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-4 (industrial environment)
  Interference immunity acc. 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
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA; VDE, CCC, GOST are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Inlet nozzle (short) | Centrifugal module with support plate | Mass of centrifugal module with support plate kg |
|---|---|---|---|---|---|
| **R3G 310-AL28 -61** | 5.4 | 31050-2-4013 | 31051-2-4013 | **K3G 310-AL28 -61** | 8.2 |



# EC centrifugal fans and modules

## backward curved, 3-D, Ø 355, RS485, ebmBUS

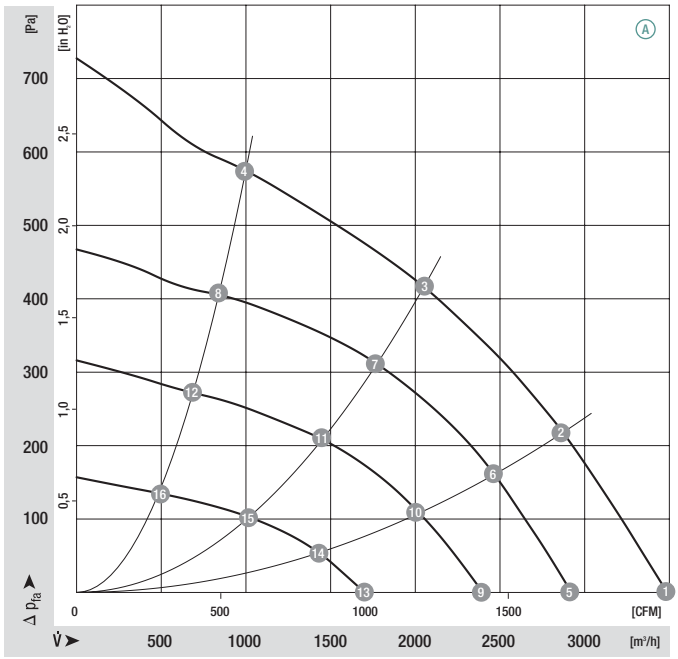
- **Material:** Support plate: Sheet aluminium, spacer profiles: Aluminium
  Impeller: Sheet aluminium, laser-welded
  Rotor: Coated in black
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 20
- **Insulation class:** "B"
- **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 | | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **Motor** | | **VAC** | **Hz** | **rpm** | **W** | **A** | **°C** | p. 606 |
| ***3G 355** | M3G 084-FA | Ⓐ | 1~ 200-277 | 50/60 | 1840 | 430 | 1.90 | -25 to +40 | K2) |

subject to alterations

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

**Curves** (established with long inlet nozzle)

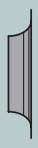


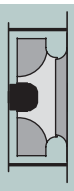

| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1840 | 335 | 1.50 | 75 | — |
| Ⓐ 2 | 1790 | 405 | 1.80 | 70 | 56 |
| Ⓐ 3 | 1770 | 430 | 1.90 | 66 | 70 |
| Ⓐ 4 | 1820 | 365 | 1.60 | 67 | 58 |
| Ⓐ 5 | 1540 | 200 | 0.90 | 70 | — |
| Ⓐ 6 | 1540 | 256 | 1.10 | 66 | 56 |
| Ⓐ 7 | 1540 | 277 | 1.20 | 63 | 70 |
| Ⓐ 8 | 1540 | 235 | 1.00 | 63 | 58 |
| Ⓐ 9 | 1260 | 115 | 0.50 | 64 | — |
| Ⓐ 10 | 1260 | 150 | 0.70 | 60 | 56 |
| Ⓐ 11 | 1260 | 159 | 0.70 | 56 | 70 |
| Ⓐ 12 | 1260 | 125 | 0.50 | 57 | 58 |
| Ⓐ 13 | 890 | 55 | 0.20 | 55 | — |
| Ⓐ 14 | 890 | 67 | 0.30 | 52 | 56 |
| Ⓐ 15 | 890 | 70 | 0.30 | 49 | 70 |
| Ⓐ 16 | 890 | 59 | 0.30 | 49 | 58 |



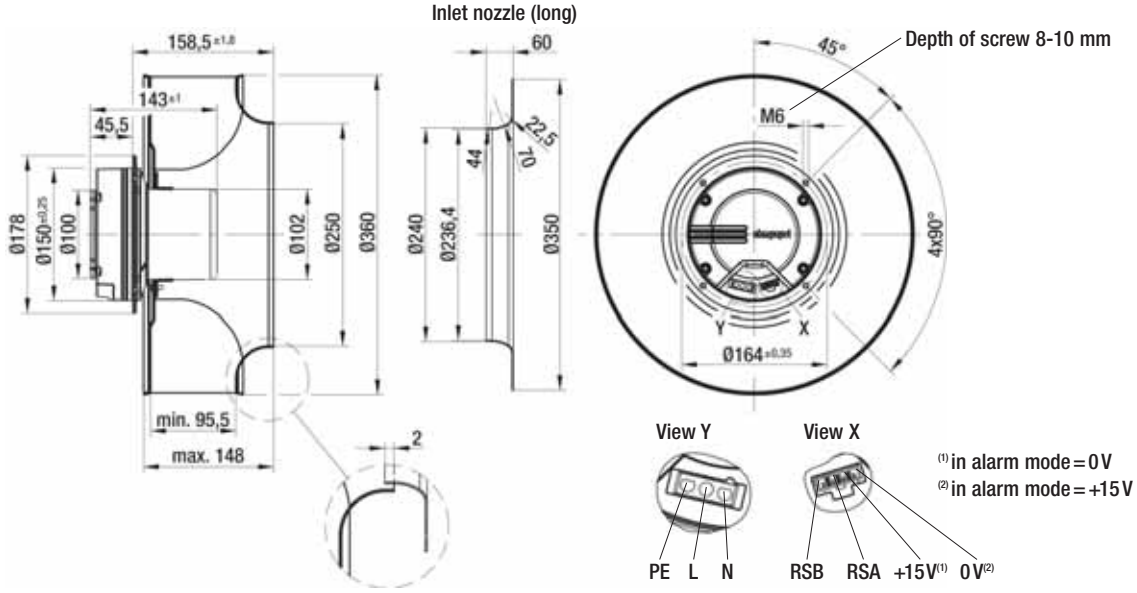
ebmpapst

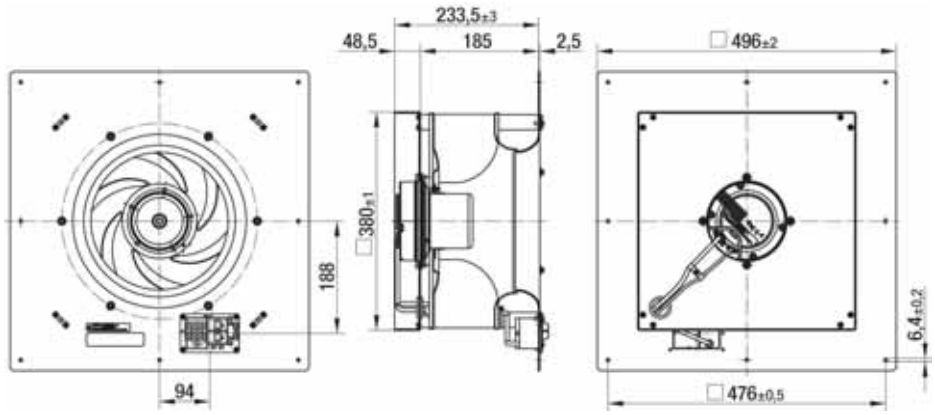
- **Technical features:**
  - PFC (active)
  - RS485 ebmBUS
  - Operation and alarm display: Reversible voltage output 0 V / +15 V (max. 50 mA)
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-4 (industrial environment)
  Interference immunity acc. 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
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** VDE, UL, CSA; CCC, GOST are applied for



| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Inlet nozzle (short) | Centrifugal module with support plate | Mass of centrifugal module with support plate kg |
|---|---|---|---|---|---|
| **R3G 355-AM14-61** | 5.4 | 35560-2-4013 | 35561-2-4013 | **K3G 355-AM14-61** | 8.7 |







Inlet nozzle p. 550 f.
Connection lead p. 559
Electr. connection p. 606

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 355, RS485, ebmBUS

- **Material:** Support plate: Sheet aluminium, 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
- **Insulation class:** "B"
- **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

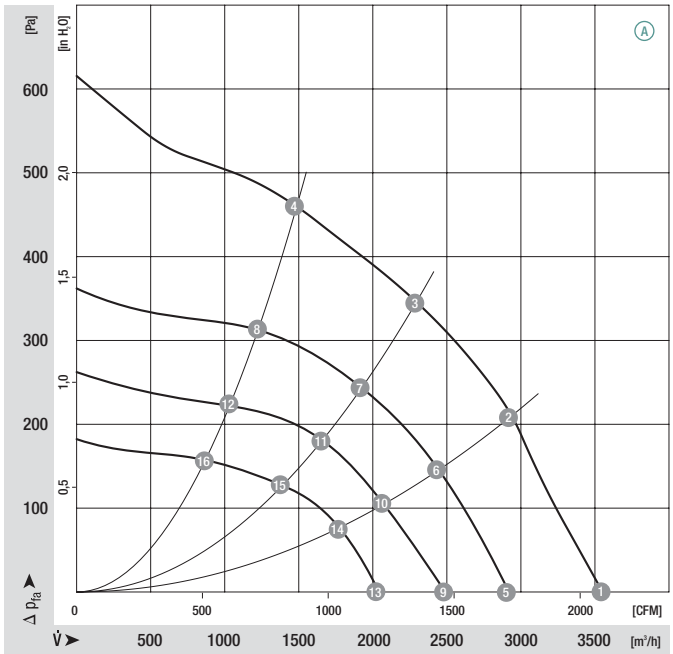
**Nominal data**

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 606 |
| *3G 355 | M3G 084-FA | Ⓐ | 1~ 200-277 | 50/60 | 1710 | 395 | 1.80 | -25 to +40 | K2) |

subject to alterations

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

**Curves** (established with long inlet nozzle)

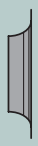


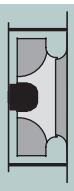

| | | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|---|
| Ⓐ | 1 | 1710 | 305 | 1.30 | 72 | — |
| Ⓐ | 2 | 1660 | 375 | 1.60 | 67 | 58 |
| Ⓐ | 3 | 1650 | 395 | 1.80 | 64 | 68 |
| Ⓐ | 4 | 1670 | 365 | 1.60 | 66 | 57 |
| Ⓐ | 5 | 1400 | 166 | 0.70 | 65 | — |
| Ⓐ | 6 | 1400 | 225 | 1.00 | 63 | 58 |
| Ⓐ | 7 | 1400 | 245 | 1.10 | 60 | 68 |
| Ⓐ | 8 | 1400 | 216 | 0.90 | 61 | 57 |
| Ⓐ | 9 | 1200 | 105 | 0.50 | 60 | — |
| Ⓐ | 10 | 1200 | 150 | 0.70 | 58 | 58 |
| Ⓐ | 11 | 1200 | 172 | 0.80 | 56 | 68 |
| Ⓐ | 12 | 1200 | 136 | 0.60 | 57 | 57 |
| Ⓐ | 13 | 1000 | 60 | 0.30 | 55 | — |
| Ⓐ | 14 | 1000 | 82 | 0.40 | 53 | 58 |
| Ⓐ | 15 | 1000 | 90 | 0.40 | 51 | 68 |
| Ⓐ | 16 | 1000 | 80 | 0.40 | 53 | 57 |



ebmpapst

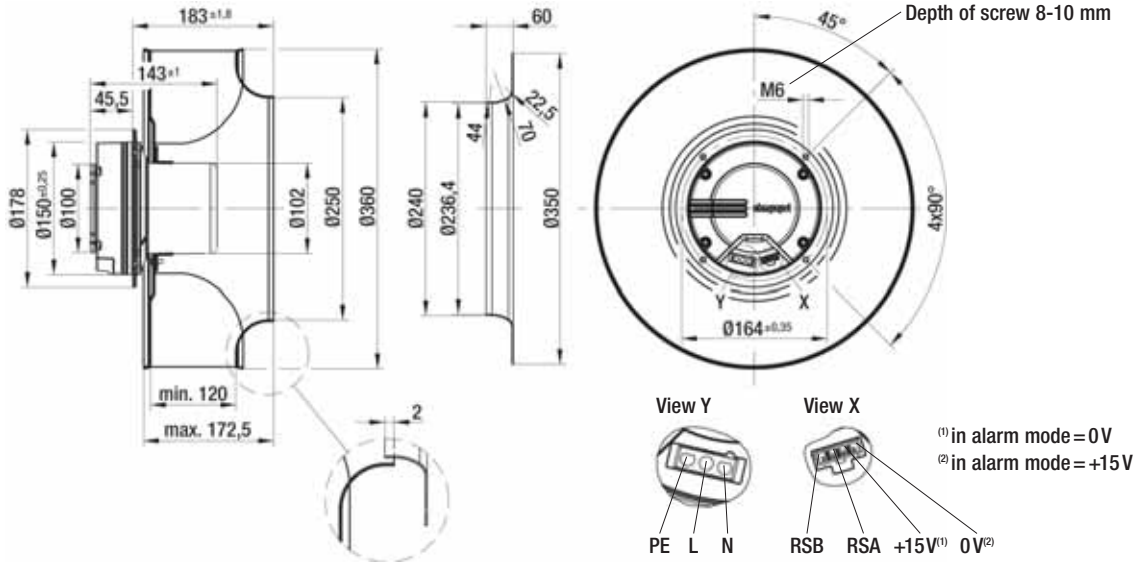
- **Technical features:**
  - PFC (active)
  - RS485 ebmBUS
  - Operation and alarm display: Reversible voltage output 0 V / +15 V (max. 50 mA)
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-4 (industrial environment)
  Interference immunity acc. 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
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** VDE, UL, CSA; CCC, GOST are applied for

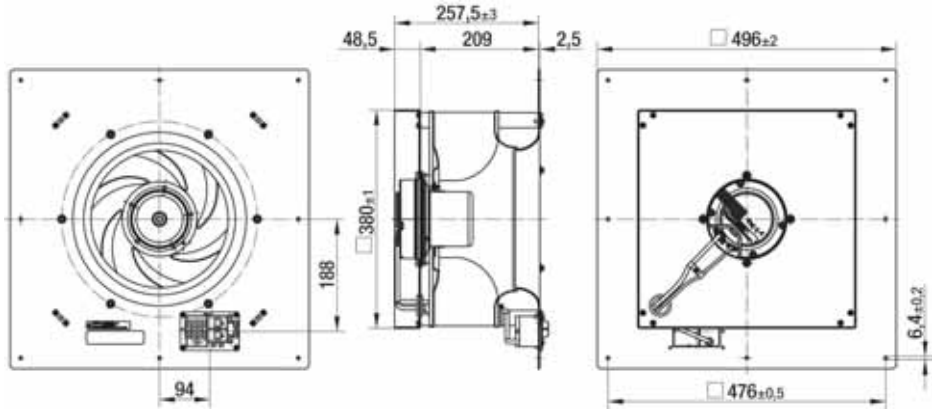





| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Inlet nozzle (short) | Centrifugal module with support plate | Mass of centrifugal module with support plate kg |
|---|---|---|---|---|---|
| **R3G 355-AN31 -61** | 5.5 | 35560-2-4013 | 35561-2-4013 | **K3G 355-AN31 -61** | 8.9 |

Inlet nozzle (long)






Inlet nozzle p. 550 f.
Connection lead p. 559
Electr. connection p. 606

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 400, RS485 ebmBUS

- **Material:** Support plate: Sheet aluminium, spacer profiles: Aluminium
  Impeller: Sheet aluminium, joined by tabs
  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
- **Insulation class:** "B"
- **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

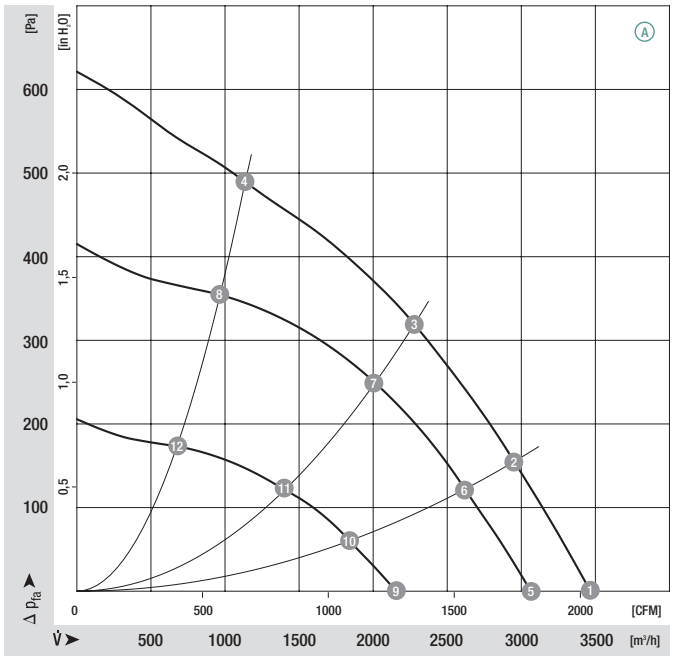
### Nominal data

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 606 |
| *3G 400 | M3G 084-FA | Ⓐ | 1~ 200-277 | 50/60 | 1470 | 370 | 1.65 | -25 to +40 | K2) |

subject to alterations

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

### Curves




| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1470 | 323 | 1.45 | 73 | — |
| Ⓐ 2 | 1430 | 362 | 1.60 | 69 | 53 |
| Ⓐ 3 | 1420 | 370 | 1.65 | 64 | 68 |
| Ⓐ 4 | 1470 | 319 | 1.40 | 66 | 52 |
| Ⓐ 5 | 1300 | 210 | 0.90 | 71 | — |
| Ⓐ 6 | 1300 | 255 | 1.10 | 65 | 53 |
| Ⓐ 7 | 1300 | 270 | 1.20 | 61 | 68 |
| Ⓐ 8 | 1300 | 230 | 1.00 | 64 | 52 |
| Ⓐ 9 | 910 | 90 | 0.40 | 61 | — |
| Ⓐ 10 | 910 | 100 | 0.40 | 57 | 53 |
| Ⓐ 11 | 910 | 108 | 0.50 | 53 | 68 |
| Ⓐ 12 | 910 | 92 | 0.40 | 51 | 52 |



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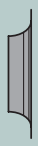
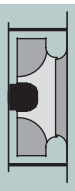
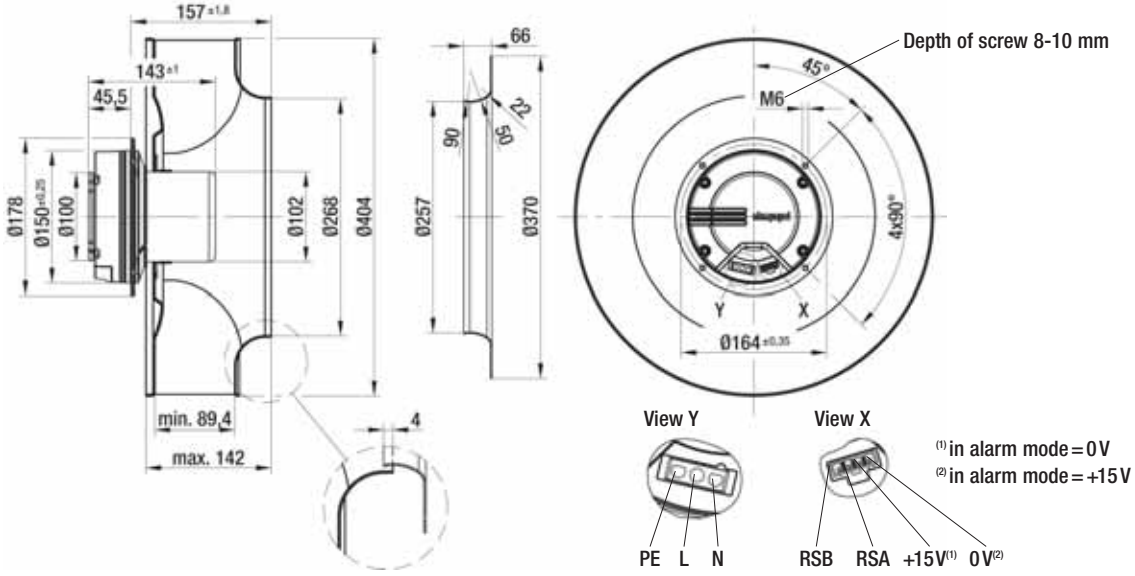
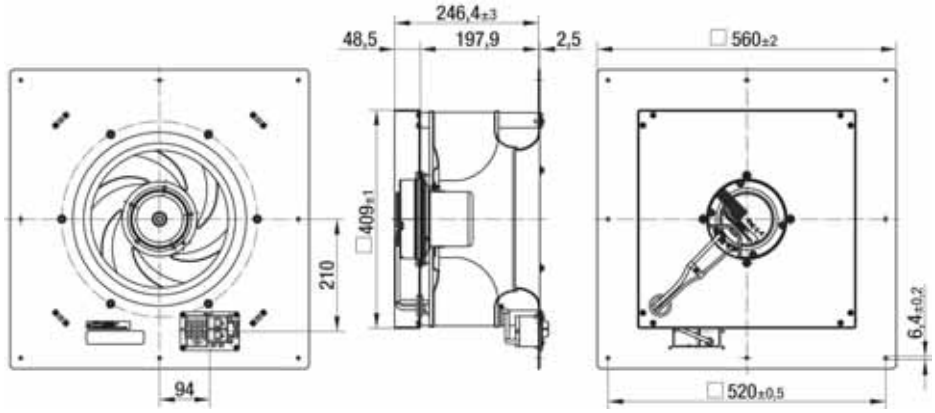
- **Technical features:**
  - PFC (active)
  - RS485 ebmBUS
  - Operation and alarm display: Reversible voltage output 0 V / +15 V (max. 50 mA)
  - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-4 (industrial environment)
  Interference immunity acc. 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
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA; VDE, CCC, GOST are applied for

| Centrifugal fan | Mass of centrifugal fan kg | Inlet nozzle (long) | Centrifugal module with support plate | Mass of centrifugal module with support plate kg |
|---|---|---|---|---|
| R3G 400-AD27 -61 | 5.8 | 54476-2-4013 | K3G 400-AD27 -61 | 9.8 |









Inlet nozzle p. 550 f. | Guard grille p. 553 | Connection lead p. 559 | Electr. connection p. 606

# EC centrifugal fans and modules

## backward curved, 3-D, Ø 400, RS485 ebmBUS

- **Material:** Support plate: Sheet aluminium, spacer profiles: Aluminium
  Impeller: Sheet aluminium, joined by tabs
  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
- **Insulation class:** "B"
- **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

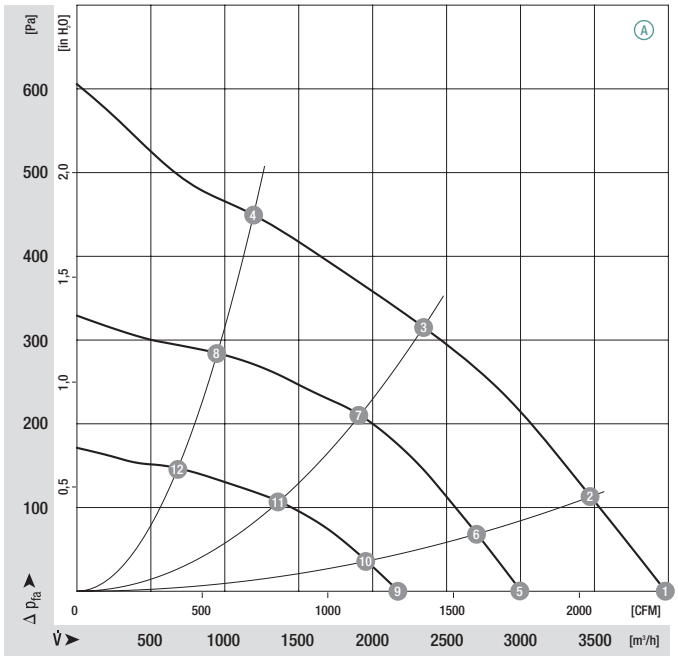
**Nominal data**

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | W | A | °C | p. 606 |
| *3G 400 | M3G 084-FA | Ⓐ | 1~ 200-277 | 50/60 | 1420 | 380 | 1.70 | -25 to +40 | K2) |

subject to alterations

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

**Curves**



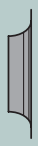

| | n [rpm] | $P_1$ [W] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1420 | 327 | 1.45 | 73 | — |
| Ⓐ 2 | 1395 | 355 | 1.55 | 71 | 40 |
| Ⓐ 3 | 1370 | 380 | 1.70 | 66 | 64 |
| Ⓐ 4 | 1415 | 333 | 1.45 | 69 | 54 |
| Ⓐ 5 | 1120 | 187 | 0.80 | 68 | — |
| Ⓐ 6 | 1120 | 207 | 0.90 | 65 | 40 |
| Ⓐ 7 | 1120 | 225 | 1.00 | 60 | 64 |
| Ⓐ 8 | 1120 | 173 | 0.80 | 61 | 54 |
| Ⓐ 9 | 800 | 85 | 0.40 | 60 | — |
| Ⓐ 10 | 800 | 92 | 0.40 | 58 | 40 |
| Ⓐ 11 | 800 | 97 | 0.40 | 53 | 64 |
| Ⓐ 12 | 800 | 85 | 0.40 | 54 | 54 |

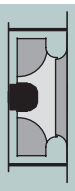


ebmpapst

- **Technical features:**
  - PFC (active)
  - RS485 ebmBUS
  - Operation and alarm display: Reversible voltage output 0 V / +15 V (max. 50 mA)
  - Over-temperature protected electronics / motor
- **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
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA; VDE, CCC, GOST are applied for

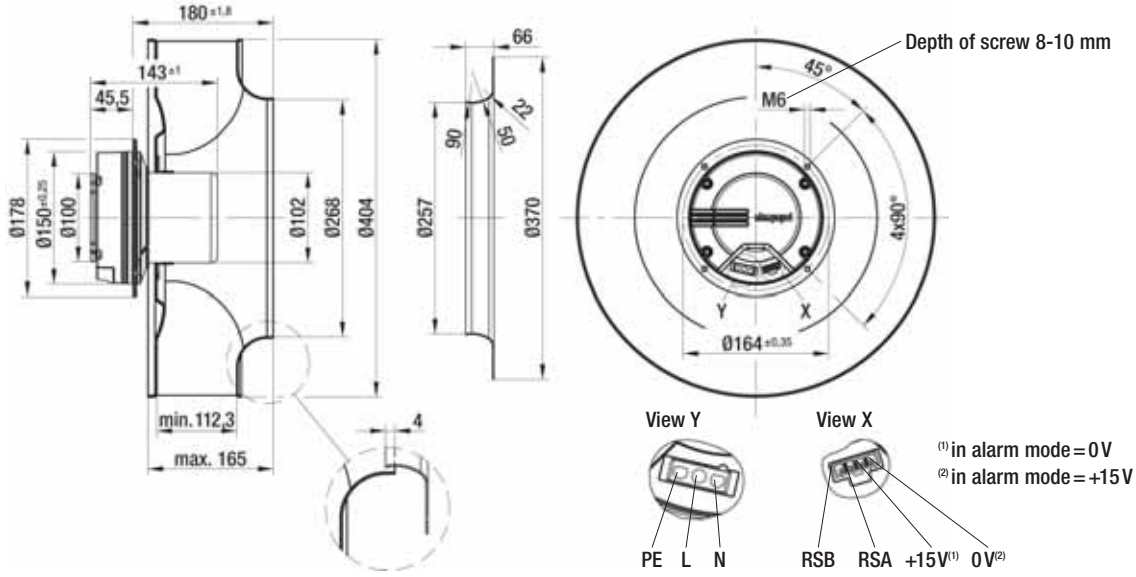
Mass of centrifugal fan

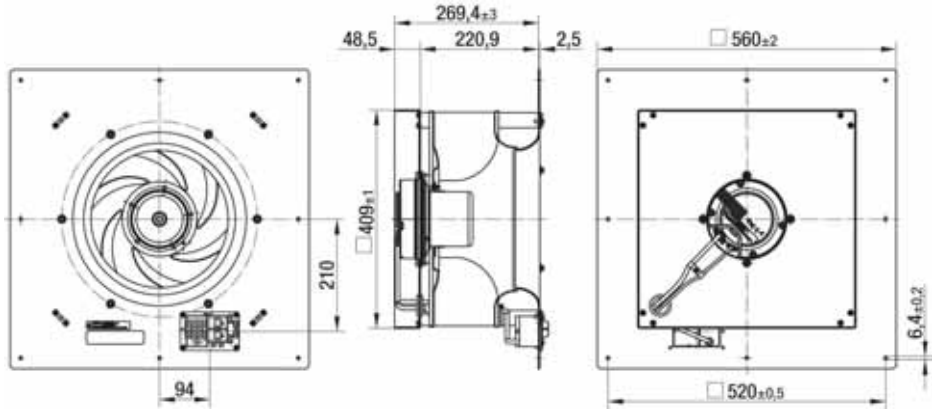




Mass of centrifugal module with support plate

| Centrifugal fan | kg | Inlet nozzle (long) | Centrifugal module with support plate | kg |
|---|---|---|---|---|
| **R3G 400-AC30 -61** | 5.9 | 54476-2-4013 | **K3G 400-AC30 -61** | 9.9 |



# 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

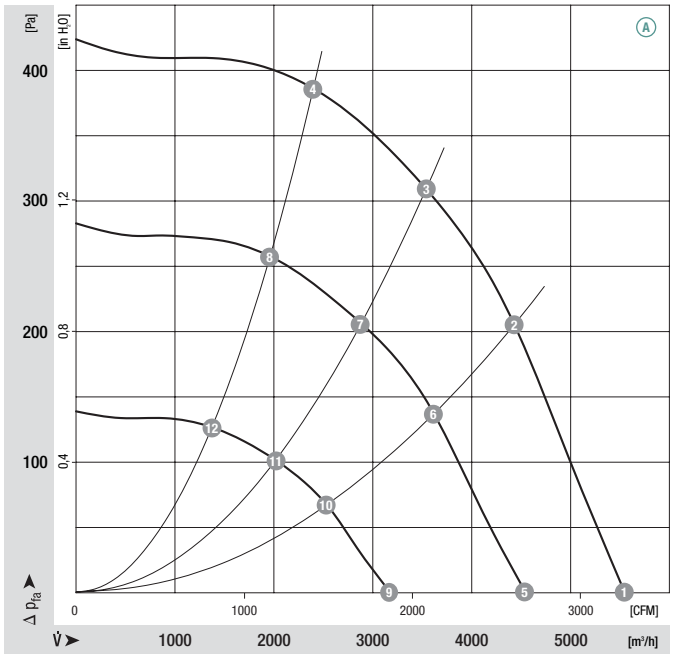
**Nominal data**

| Type | Motor | Curve | Nominal voltage range | Frequency | Speed/rpm | Max. power input (1) | Max. current draw (1) | Perm. amb. temp. | Electr. connection |
|---|---|---|---|---|---|---|---|---|---|
| | | | VAC | Hz | rpm | kW | A | °C | p. 606 |
| *3G 450 | M3G 112-EA | Ⓐ | 1~ 200-277 | 50/60 | 1225 | 0.50 | 2.20 | -25 to +40 | K2) |

subject to alterations

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

**Curves**

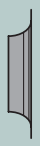


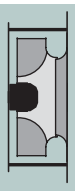

| | n [rpm] | $P_1$ [kW] | I [A] | $Lp_A$ [dB(A)] | $\eta_{tL}$ [%] |
|---|---|---|---|---|---|
| Ⓐ 1 | 1225 | 0.35 | 1.50 | 68 | — |
| Ⓐ 2 | 1225 | 0.49 | 2.10 | 64 | 65 |
| Ⓐ 3 | 1225 | 0.50 | 2.20 | 64 | 67 |
| Ⓐ 4 | 1225 | 0.47 | 2.10 | 63 | 62 |
| Ⓐ 5 | 1000 | 0.19 | 0.80 | 63 | — |
| Ⓐ 6 | 1000 | 0.26 | 1.20 | 59 | 65 |
| Ⓐ 7 | 1000 | 0.28 | 1.20 | 59 | 67 |
| Ⓐ 8 | 1000 | 0.26 | 1.10 | 57 | 62 |
| Ⓐ 9 | 700 | 0.07 | 0.30 | 55 | — |
| Ⓐ 10 | 700 | 0.09 | 0.40 | 49 | 65 |
| Ⓐ 11 | 700 | 0.10 | 0.40 | 49 | 67 |
| Ⓐ 12 | 700 | 0.09 | 0.40 | 48 | 62 |



ebmpapst

- **Technical features:**
  - PFC (active)
  - RS485 ebmBUS
  - Operation and alarm display: Reversible voltage output 0 V / +15 V (max. 50 mA)
  - Over-temperature protected electronics / motor
- **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





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