

# AC centrifugal fans

backward curved, 3-D, Ø 500



- **Material:** Impeller: Sheet aluminium, welded  
Rotor: Cast in 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:** Any
- **Condensate discharge holes:** On rotor and stator sides
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

## Nominal data

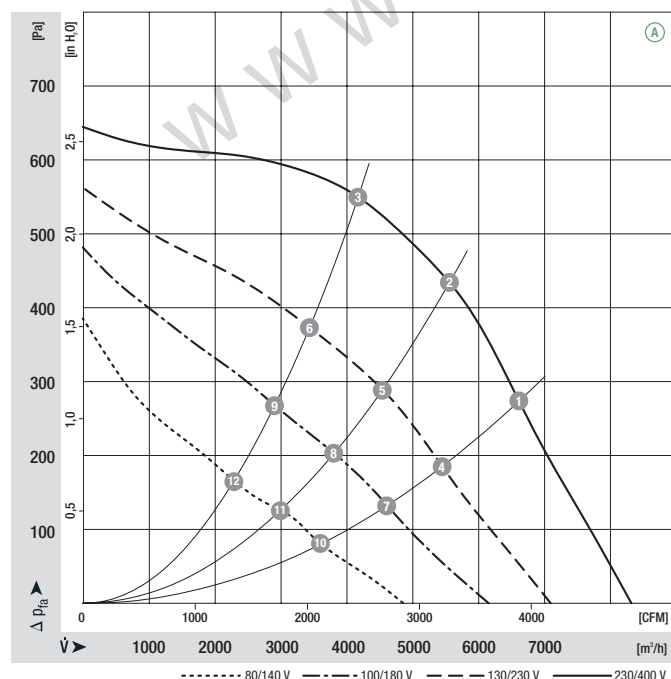
| Type                   | Motor      | Curve | Nominal voltage<br>VAC | Frequency<br>Hz | Speed/rpm <sup>(1)</sup><br>rpm | Max. power<br>input <sup>(1)</sup><br>kW | Max. current<br>draw <sup>(1)</sup><br>A | Capacitor<br>µF/VDB | Perm. amb. temp.<br>°C | Electr. connection<br>p. 596 f. |
|------------------------|------------|-------|------------------------|-----------------|---------------------------------|------------------------------------------|------------------------------------------|---------------------|------------------------|---------------------------------|
| R4D 500 <sup>(2)</sup> | M4D 138-HF | Ⓐ     | 3~ 230/400             | 50              | 1375                            | 1.43                                     | 5.20/3.00                                | —                   | -40 to +80             | D1)/D2)                         |

subject to alterations

(1) Nominal data in operating point with maximum load

(2) 230 VAC Δ / 400 VAC Y

## Curves



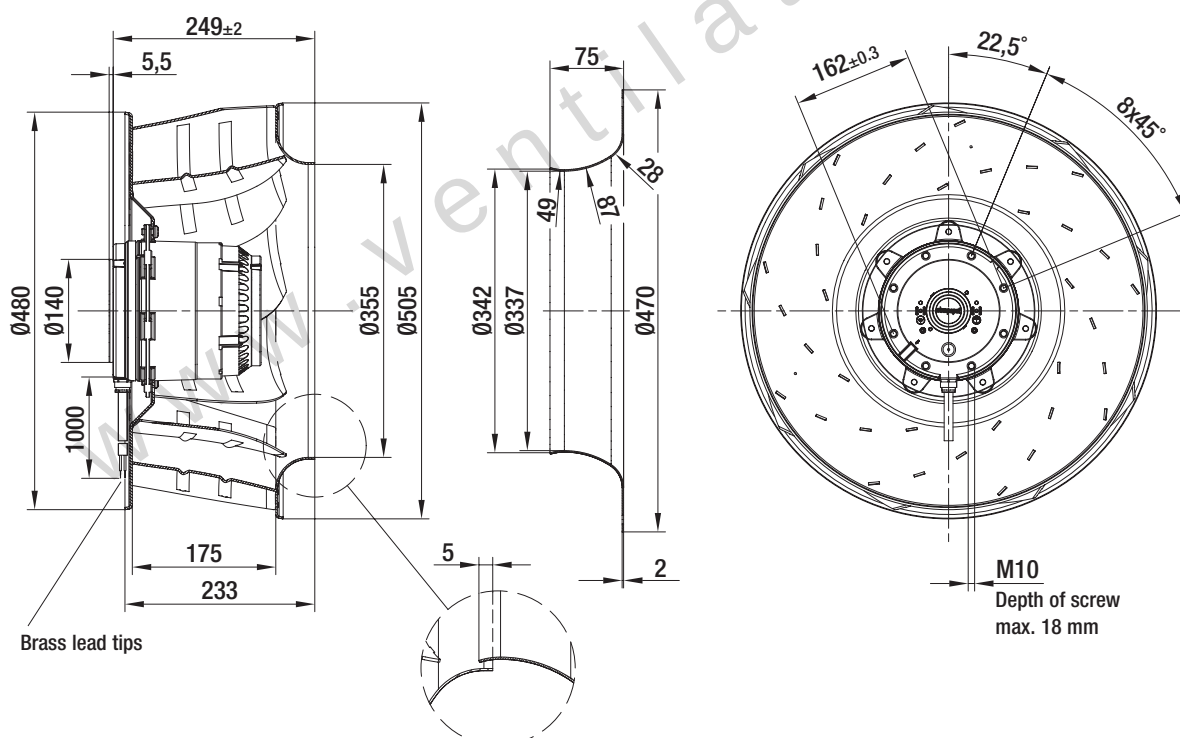
|      | n<br>[rpm] | P <sub>1</sub><br>[kW] | I<br>[A]  | L <sub>wA</sub><br>[dB(A)] |
|------|------------|------------------------|-----------|----------------------------|
| Ⓐ 1  | 1380       | 1.36                   | 4.99/2.88 | 81                         |
| Ⓐ 2  | 1375       | 1.42                   | 5.13/2.96 | 79                         |
| Ⓐ 3  | 1375       | 1.43                   | 5.20/3.00 | 77                         |
| Ⓐ 4  | 1150       | 0.97                   | 5.25/3.03 | 76                         |
| Ⓐ 5  | 1125       | 1.00                   | 5.42/3.13 | 74                         |
| Ⓐ 6  | 1140       | 0.97                   | 5.28/3.05 | 73                         |
| Ⓐ 7  | 970        | 0.73                   | 5.18/2.99 | 71                         |
| Ⓐ 8  | 945        | 0.74                   | 5.30/3.06 | 69                         |
| Ⓐ 9  | 970        | 0.73                   | 5.16/2.98 | 68                         |
| Ⓐ 10 | 775        | 0.49                   | 4.66/2.69 | 64                         |
| Ⓐ 11 | 755        | 0.49                   | 4.73/2.73 | 63                         |
| Ⓐ 12 | 775        | 0.49                   | 4.68/2.70 | 62                         |

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Lateral
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE (acc. to EN 60034)



Mass of centrifugal fan

| Centrifugal fan  | kg   | Inlet nozzle (long) |
|------------------|------|---------------------|
| R4D 500-AT03 -01 | 26.0 | 63072-2-4013        |



# AC centrifugal fans

backward curved, 3-D, Ø 500



- **Material:** Impeller: Sheet aluminium, welded  
Rotor: Cast in 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:** Any
- **Condensate discharge holes:** On rotor and stator sides
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

## Nominal data

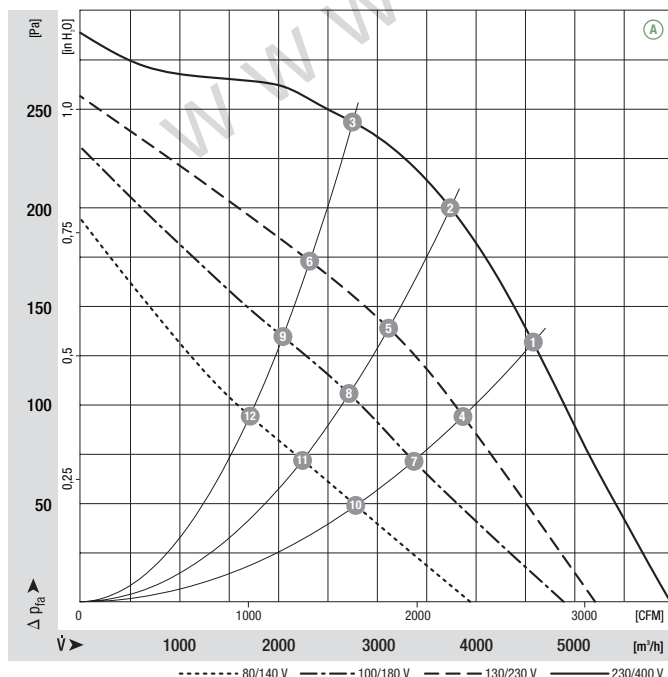
| Type                         | Motor      | Curve | Nominal voltage<br>VAC | Frequency<br>Hz | Speed/rpm <sup>(1)</sup><br>rpm | Max. power<br>input <sup>(1)</sup><br>kW | Max. current<br>draw <sup>(1)</sup><br>A | Capacitor<br>µF/VDB | Perm. amb. temp.<br>°C | Electr. connection<br>p. 596 f. |
|------------------------------|------------|-------|------------------------|-----------------|---------------------------------|------------------------------------------|------------------------------------------|---------------------|------------------------|---------------------------------|
| <b>R6D 500<sup>(2)</sup></b> | M6D 110-GF | Ⓐ     | 3~ 230/400             | 50              | 910                             | 0.48                                     | 1.90/1.10                                | —                   | -40 to +80             | D1)/D2)                         |

subject to alterations

(1) Nominal data in operating point with maximum load

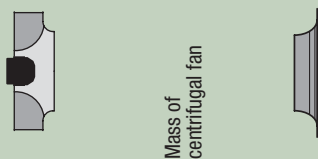
(2) 230 VAC Δ / 400 VAC Y

## Curves

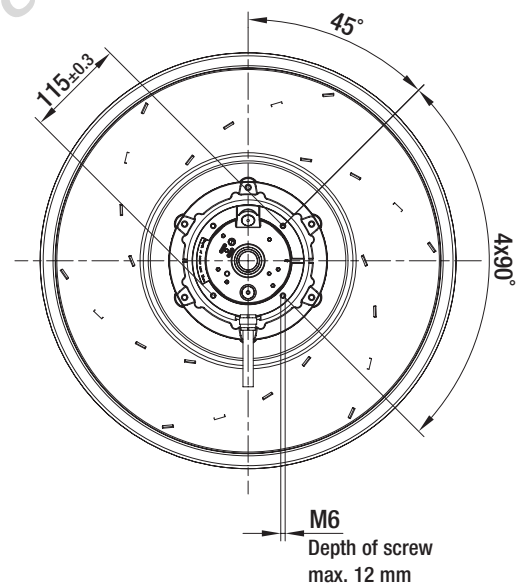
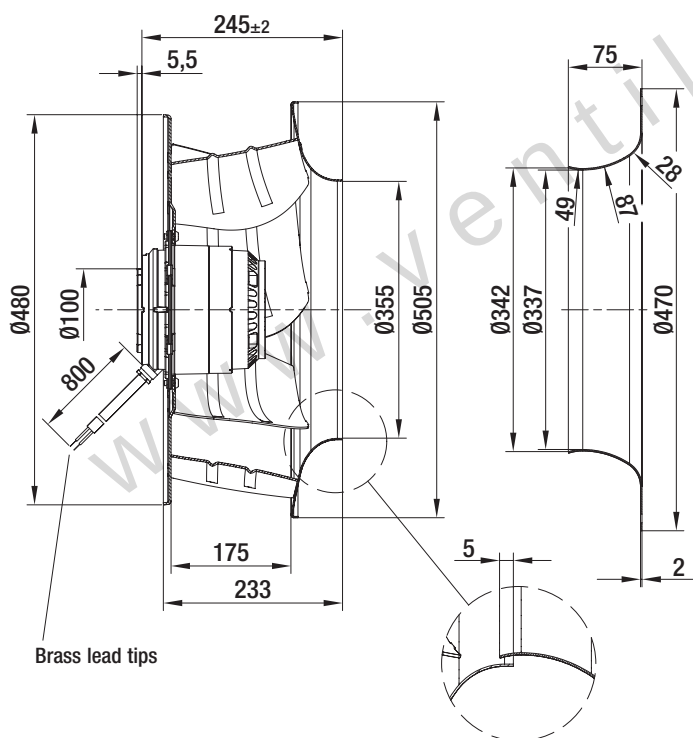


|      | n<br>[rpm] | P <sub>1</sub><br>[kW] | I<br>[A]  | L <sub>wA</sub><br>[dB(A)] |
|------|------------|------------------------|-----------|----------------------------|
| Ⓐ 1  | 915        | 0.45                   | 1.73/1.00 | 68                         |
| Ⓐ 2  | 910        | 0.47                   | 1.77/1.02 | 65                         |
| Ⓐ 3  | 915        | 0.44                   | 1.69/0.98 | 66                         |
| Ⓐ 4  | 760        | 0.31                   | 1.66/0.96 | 62                         |
| Ⓐ 5  | 745        | 0.32                   | 1.72/1.00 | 60                         |
| Ⓐ 6  | 770        | 0.30                   | 1.60/0.93 | 61                         |
| Ⓐ 7  | 650        | 0.23                   | 1.59/0.92 | 57                         |
| Ⓐ 8  | 630        | 0.24                   | 1.64/0.95 | 55                         |
| Ⓐ 9  | 665        | 0.23                   | 1.57/0.90 | 57                         |
| Ⓐ 10 | 530        | 0.16                   | 1.43/0.82 | 52                         |
| Ⓐ 11 | 510        | 0.16                   | 1.45/0.84 | 49                         |
| Ⓐ 12 | 545        | 0.16                   | 1.41/0.81 | 52                         |

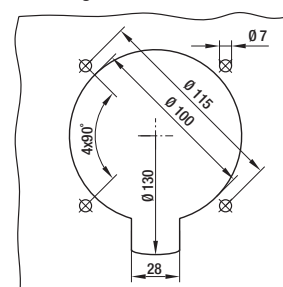
- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE (acc. to EN 60034)



| Centrifugal fan  | kg   | Inlet nozzle (long) |
|------------------|------|---------------------|
| R6D 500-AK03 -01 | 13.0 | 63072-2-4013        |



### Mounting dimensions



# AC centrifugal fans

backward curved, 3-D, Ø 500



- **Material:** Impeller: Sheet aluminium, welded  
Rotor: Cast in 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:** Any
- **Condensate discharge holes:** On rotor and stator sides
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

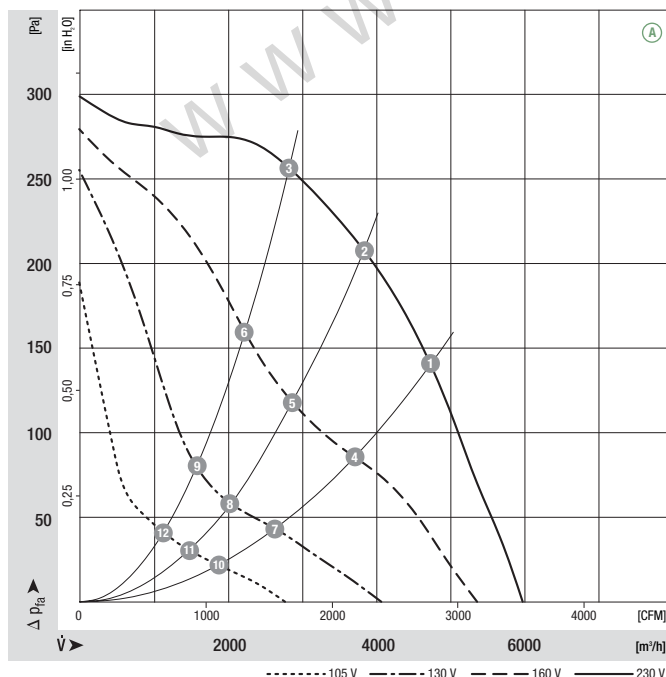
## Nominal data

| Type    | Motor      | Curve | Nominal voltage<br>VAC | Frequency<br>Hz | Speed/rpm <sup>(1)</sup><br>rpm | Max. power<br>input <sup>(1)</sup><br>kW | Max. current<br>draw <sup>(1)</sup><br>A | Capacitor<br>µF/VDB | Perm. amb. temp.<br>°C | Electr. connection<br>p. 596 f. |
|---------|------------|-------|------------------------|-----------------|---------------------------------|------------------------------------------|------------------------------------------|---------------------|------------------------|---------------------------------|
| R6E 500 | M6E 110-GF | Ⓐ     | 1~ 230                 | 50              | 910                             | 0.51                                     | 2.34                                     | 12.0/450            | -40 to +60             | A2a)                            |

subject to alterations

(1) Nominal data in operating point with maximum load

## Curves



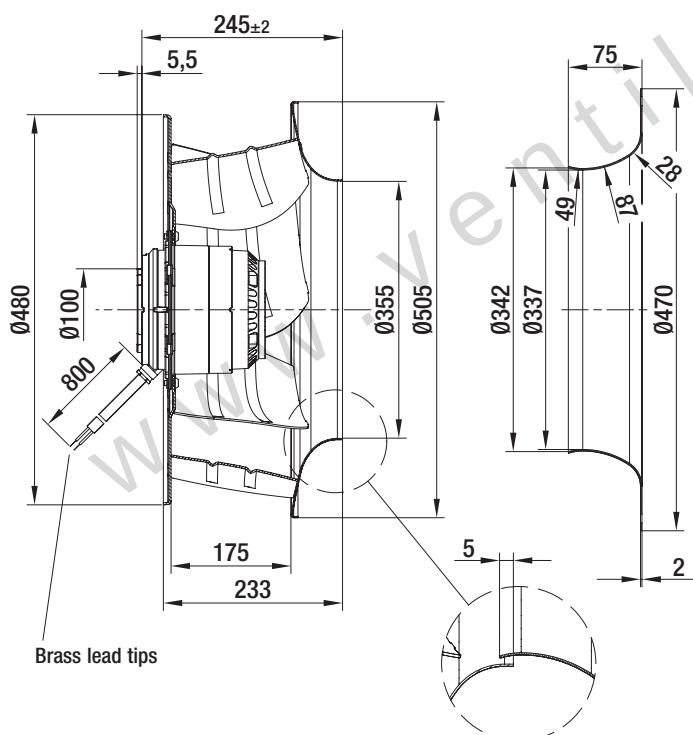
|      | n<br>[rpm] | P <sub>1</sub><br>[kW] | I<br>[A] | L <sub>WA</sub><br>[dB(A)] |
|------|------------|------------------------|----------|----------------------------|
| Ⓐ 1  | 915        | 0.49                   | 2.24     | 70                         |
| Ⓐ 2  | 910        | 0.51                   | 2.33     | 67                         |
| Ⓐ 3  | 915        | 0.48                   | 2.22     | 68                         |
| Ⓐ 4  | 720        | 0.37                   | 2.55     | 62                         |
| Ⓐ 5  | 690        | 0.38                   | 2.64     | 60                         |
| Ⓐ 6  | 730        | 0.37                   | 2.50     | 61                         |
| Ⓐ 7  | 515        | 0.27                   | 2.35     | 52                         |
| Ⓐ 8  | 485        | 0.27                   | 2.37     | 49                         |
| Ⓐ 9  | 510        | 0.27                   | 2.34     | 52                         |
| Ⓐ 10 | 370        | 0.17                   | 1.94     | 46                         |
| Ⓐ 11 | 355        | 0.17                   | 1.94     | 44                         |
| Ⓐ 12 | 375        | 0.17                   | 1.94     | 45                         |

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE (acc. to EN 60034)

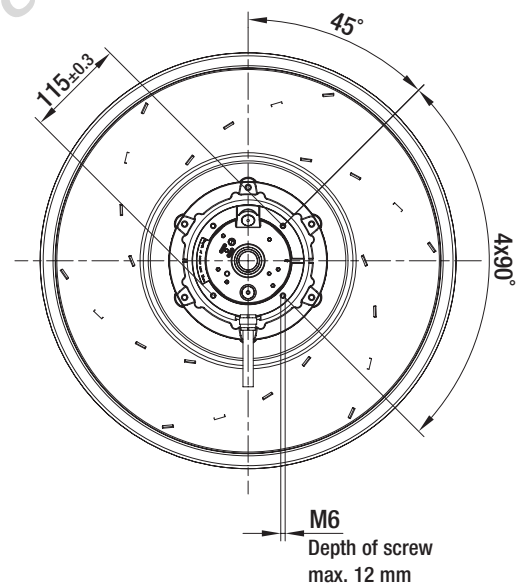


Mass of centrifugal fan

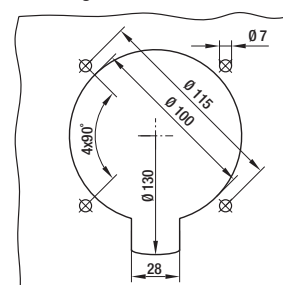
| Centrifugal fan  | kg   | Inlet nozzle (long) |
|------------------|------|---------------------|
| R6E 500-AK01 -01 | 13.0 | 63072-2-4013        |



Brass lead tips



Mounting dimensions



# AC centrifugal fans

backward curved, Ø 500



- **Material:** Impeller: Sheet aluminium, riveted  
Rotor: Coated in black
- **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:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

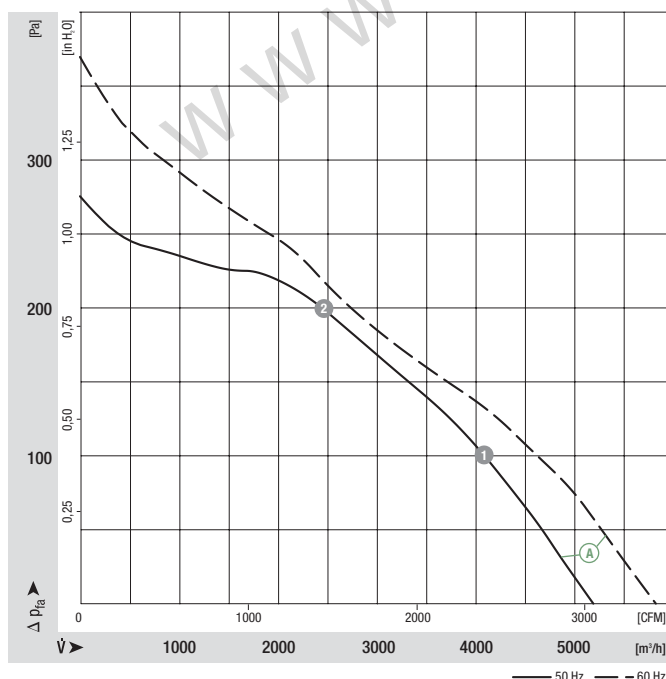
## Nominal data

| Type    | Motor      | Curve | Nominal voltage<br>VAC | Frequency<br>Hz | Speed/rpm <sup>(1)</sup><br>rpm | Max. power<br>input <sup>(1)</sup><br>W | Max. current<br>draw <sup>(1)</sup><br>A | Capacitor<br>µF/VDB  | Perm. amb. temp.<br>°C   | Electr. connection<br>p. 596 f. |
|---------|------------|-------|------------------------|-----------------|---------------------------------|-----------------------------------------|------------------------------------------|----------------------|--------------------------|---------------------------------|
| R6E 500 | M6E 094-HA | Ⓐ     | 1~ 230<br>1~ 230       | 50<br>60        | 820<br>850                      | 385<br>475                              | 1.82<br>2.10                             | 10.0/400<br>10.0/450 | -40 to +40<br>-40 to +40 | A2a)                            |

subject to alterations

(1) Nominal data in operating point with maximum load

## Curves



|     | n<br>[rpm] | P <sub>1</sub><br>[W] | I<br>[A] | Lp <sub>A</sub><br>[dB(A)] |
|-----|------------|-----------------------|----------|----------------------------|
| Ⓐ 1 | 845        | 360                   | 1.72     | 62                         |
| Ⓐ 2 | 830        | 376                   | 1.79     | 57                         |

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE



Mass of centrifugal fan



Centrifugal fan

kg

Inlet nozzle (long)

R6E 500-AB05 -06

11.1

54480-2-4013

