**A2E250-AJ52-07**

# AC axial fan

sickle-shaped blades (S series)

**ebm-papst Mulfingen GmbH & Co. KG**
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Limited partnership · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRB 590142

## Nominal data

| | |
|---|---|
| **Type** | **A2E250-AJ52-07** |
| **Motor** | **M2E068-DF** |

| | | | |
|---|---|---|---|
| Phase | | 1~ | 1~ |
| Nominal voltage | VAC | 230 | 230 |
| Frequency | Hz | 50 | 60 |
| Method of obtaining data | | fa | fa |
| Valid for approval/standard | | - | - |
| Speed (rpm) | $min^{-1}$ | 2650 | 2950 |
| Power consumption | W | 135 | 200 |
| Current draw | A | 0.6 | 0.88 |
| Capacitor | µF | 4 | 4 |
| Capacitor voltage | VDB | 400 | 400 |
| Max. back pressure | Pa | 150 | 160 |
| Max. back pressure | inH2O | 0.6 | 0.64 |
| Min. ambient temperature | °C | -25 | -25 |
| Max. ambient temperature | °C | 55 | 45 |
| Starting current | A | 1.3 | 1.25 |

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

# AC axial fan

sickle-shaped blades (S series)

## Technical description

| | |
|---|---|
| **Weight** | 2.3 kg |
| **Fan size** | 250 mm |
| **Rotor surface** | Painted black |
| **Blade material** | Sheet steel, painted black |
| **Number of blades** | 7 |
| **Airflow direction** | "V" |
| **Direction of rotation** | Counterclockwise, viewed toward rotor |
| **Degree of protection** | IP44; installation- and position-dependent as per EN 60034-5 |
| **Insulation class** | "B" |
| **Moisture (F) / Environmental (H) protection class** | H0+ |
| **Max. permitted ambient temp. for motor (transport/storage)** | + 80 °C |
| **Min. permitted ambient temp. for motor (transport/storage)** | - 40 °C |
| **Installation position** | Shaft horizontal or rotor on top; rotor on bottom on request |
| **Condensation drainage holes** | On stator side |
| **Mode** | S1 |
| **Motor bearing** | Ball bearing |
| **Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)** | < 0.75 mA |
| **Motor protection** | Thermal overload protector (TOP) internally connected |
| **With cable** | Variable |
| **Protection class** | I (with customer connection of protective earth) |
| **Conformity with standards** | EN 60335-1 |
| **Approval** | UL 2111; CSA C22.2 No. 77 |

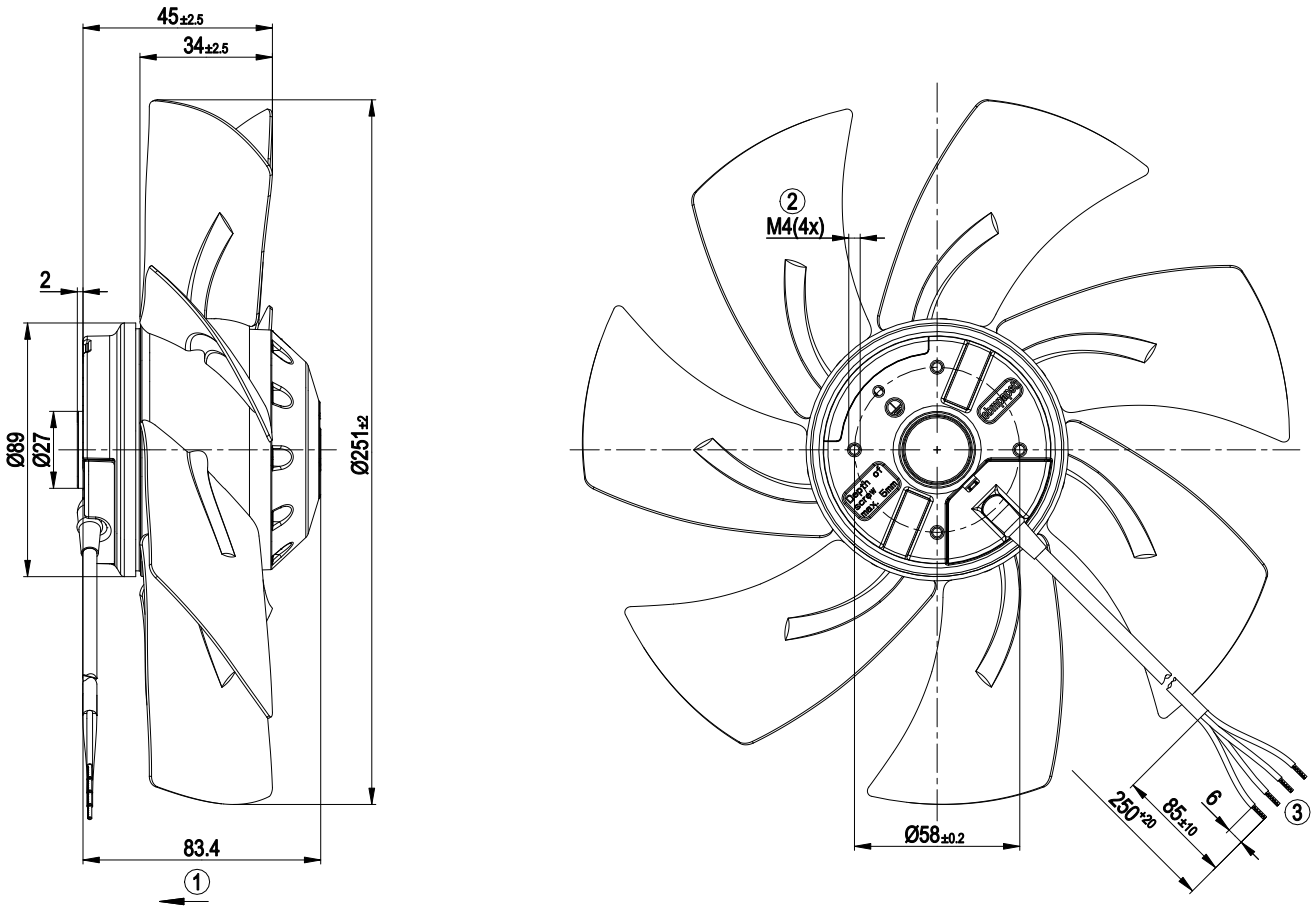


ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

# AC axial fan

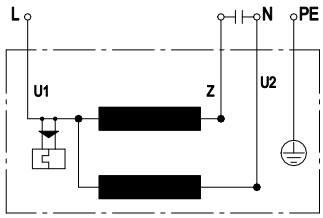
sickle-shaped blades (S series)

## Product drawing




| | |
|---|---|
| 1 | Direction of air flow "V" |
| 2 | Max. clearance for screw 5 mm |
| 3 | Cable PVC 4G AWG20, 4x crimped splices |

## Connection diagram




| | | | | | |
|---|---|---|---|---|---|
| U1 | blue | Z | brown | U2 | black |
| PE | green/yellow | | | | |

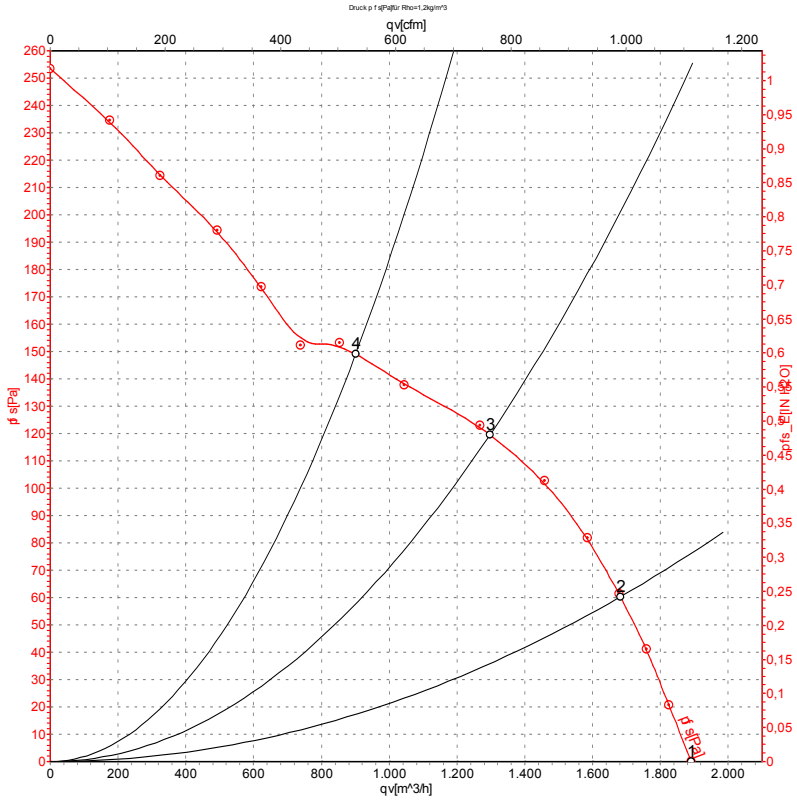


ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

# AC axial fan

sickle-shaped blades (S series)

## Curves: Air performance 50 Hz




Measurement: LU-38028-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

## Measured values

| | U | f | n | $P_e$ | I | qv | $p_{fs}$ | qv | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | $m^3/h$ | Pa | CFM | inH2O |
| 1 | 230 | 50 | 2650 | 135 | 0.60 | 1890 | 0 | 1110 | 0.00 |
| 2 | 230 | 50 | 2615 | 144 | 0.63 | 1680 | 60 | 990 | 0.24 |
| 3 | 230 | 50 | 2530 | 160 | 0.70 | 1295 | 120 | 765 | 0.48 |
| 4 | 230 | 50 | 2475 | 169 | 0.73 | 900 | 150 | 530 | 0.60 |

U = Power supply · f = Frequency · n = Speed (rpm) · $P_e$ = Power consumption · I = Current draw · qv = Air flow · $p_{fs}$ = Pressure increase

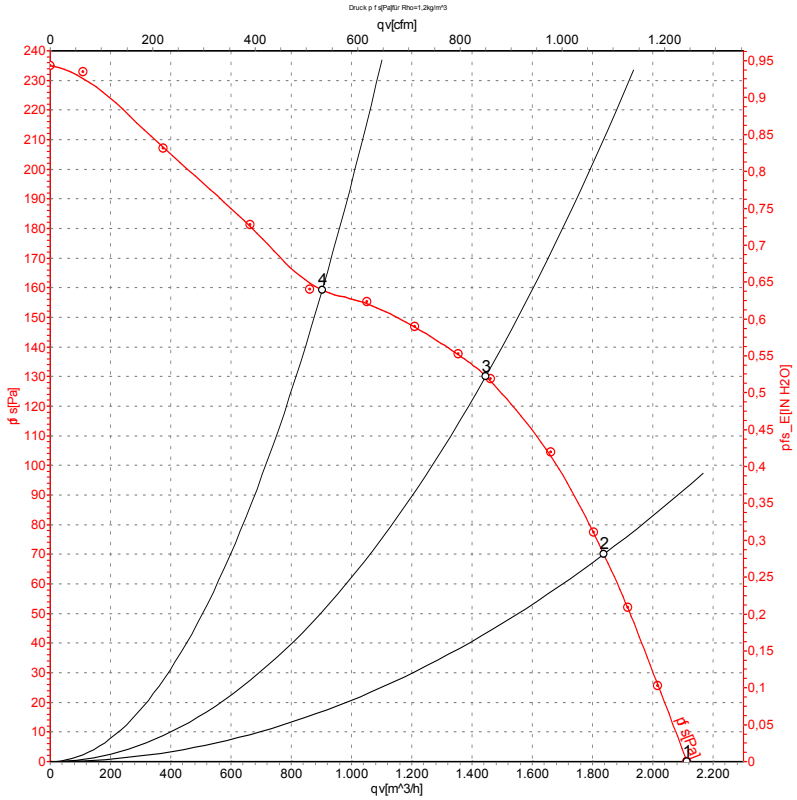


ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

# AC axial fan

sickle-shaped blades (S series)

## Curves: Air performance 60 Hz




Measurement: LU-40617-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

## Measured values

| | U | f | n | $P_e$ | I | qv | $p_{fs}$ | qv | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | $m^3/h$ | Pa | CFM | inH2O |
| 1 | 230 | 60 | 2950 | 200 | 0.88 | 2120 | 0 | 1250 | 0.00 |
| 2 | 230 | 60 | 2885 | 207 | 0.91 | 1835 | 70 | 1080 | 0.28 |
| 3 | 230 | 60 | 2720 | 221 | 0.96 | 1445 | 130 | 850 | 0.52 |
| 4 | 230 | 60 | 2685 | 222 | 0.97 | 900 | 160 | 530 | 0.64 |

U = Power supply · f = Frequency · n = Speed (rpm) · $P_e$ = Power consumption · I = Current draw · qv = Air flow · $p_{fs}$ = Pressure increase



ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com