**W2E200-HH38-26**

# AC axial compact fan

sickled blades (S series), single inlet



**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
County court Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142

## Nominal data

| **Type** | **W2E200-HH38-26** | | |
|---|---|---|---|
| **Motor** | **M2E068-BF** | | |
| Phase | | 1~ | 1~ |
| Nominal voltage | VAC | 230 | 230 |
| Frequency | Hz | 50 | 60 |
| Type of data definition | | fa | fa |
| Valid for approval / standard | | CE | CE |
| Speed (rpm) | $min^{-1}$ | 2550 | 2800 |
| Power input | W | 64 | 80 |
| Current draw | A | 0.29 | 0.35 |
| Motor capacitor | µF | 1.5 | 1.5 |
| Capacitor voltage | VDB | 400 | 400 |
| Capacitor standard | | S0 (CE) | S0 (CE) |
| Max. back pressure | Pa | 100 | 120 |
| Min. ambient temperature | °C | -25 | -25 |
| Max. ambient temperature | °C | 60 | 65 |
| Starting current | A | 0.55 | 0.54 |

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

# AC axial compact fan

sickled blades (S series), single inlet

## Technical features

| | |
|---|---|
| **Mass** | 2.3 kg |
| **Size** | 200 mm |
| **Motor size** | 68 |
| **Surface of rotor** | Coated in black |
| **Material of blades** | Sheet steel, coated in black |
| **Material of wall ring** | Die-cast aluminium |
| **Number of blades** | 9 |
| **Direction of air flow** | V |
| **Direction of rotation** | Counter-clockwise, seen on rotor |
| **Type of protection** | IP44; Depending on installation and position |
| **Insulation class** | "B" |
| **Humidity (F) / environmental protection class (H)** | H0 - dry environment |
| **Max. permissible ambient motor temp. (transp./ storage)** | + 80 °C |
| **Min. permissible ambient motor temp. (transp./storage)** | - 40 °C |
| **Mounting position** | Any |
| **Condensation drainage holes** | None |
| **Operation mode** | S1 |
| **Motor bearing** | Ball bearing |
| **Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)** | < 0.75 mA |
| **Electrical connection** | Terminal strip; Capacitor connected |
| **Motor protection** | Thermal overload protector (TOP) wired internally |
| **Cable exit** | Variable |
| **Protection class** | I (if protective earth is connected by customer) |
| **Motor capacitor according to EN 60252-1 in safety protection class** | S0 |
| **Product conforming to standard** | CE |

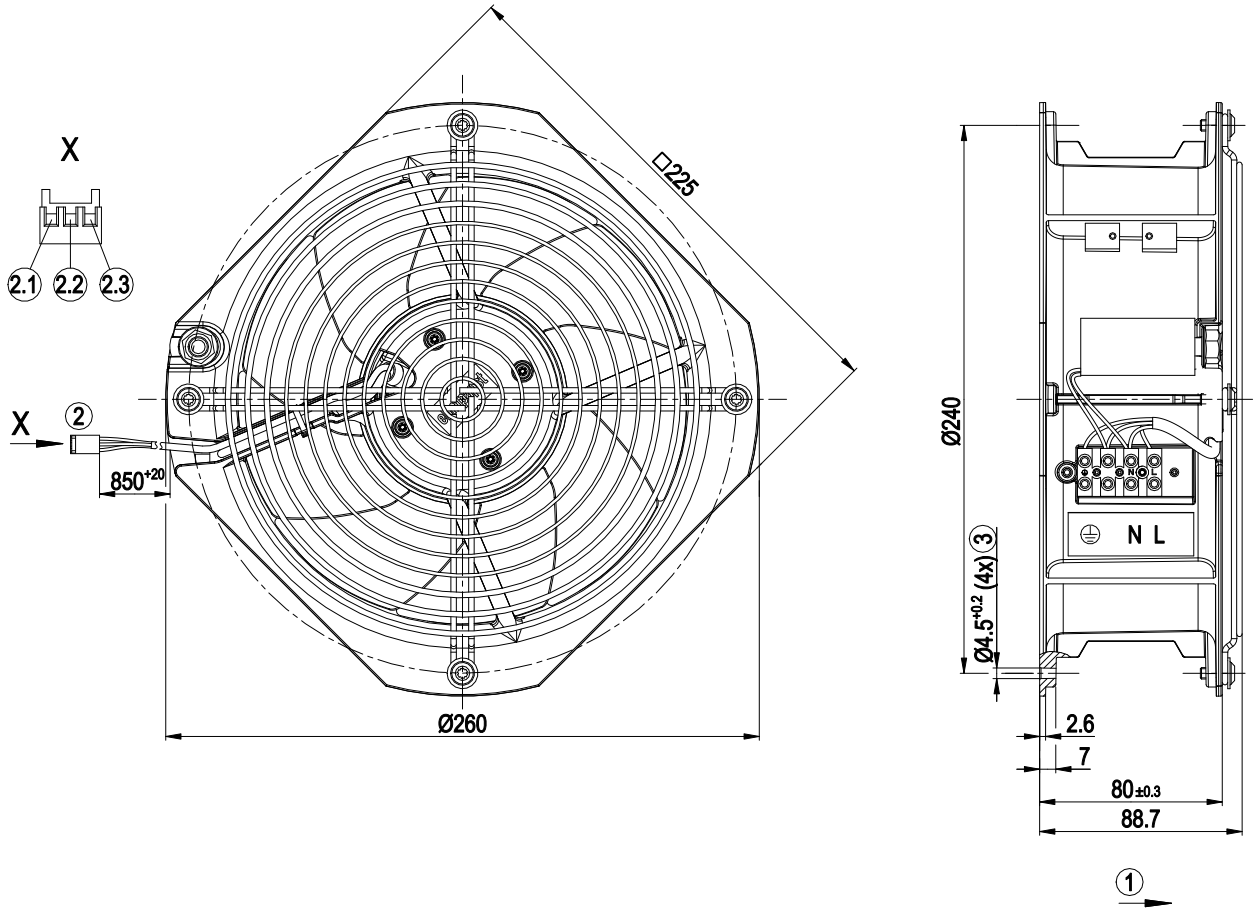


ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

# AC axial compact fan

sickled blades (S series), single inlet

## Product drawing




| | |
|---|---|
| 1 | Direction of air flow "V" |
| 2 | Connection line Raychem Spec. 44, AWG24 |
| | 3-pole connector housing Molex 22-01-3037, 3x plug pin Molex 08-50-0031 |
| 2.1 | 0 V (black) |
| 2.2 | out (white) |
| 2.3 | +5 V (red) |
| 3 | For self-tapping M5 screws |

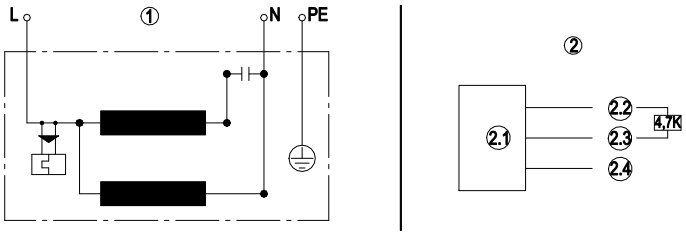


ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

# AC axial compact fan

sickled blades (S series), single inlet

## Connection screen




| | |
|---|---|
| 1 | Fan connection diagram |
| L | blue |
| N | black |
| PE | green/yellow |
| 2 | Hall IC circuit |
| 2.1 | Hall IC |
| 2.2 | Red (+5V) |
| 2.3 | White (out) |
| 2.4 | Black (0V) |

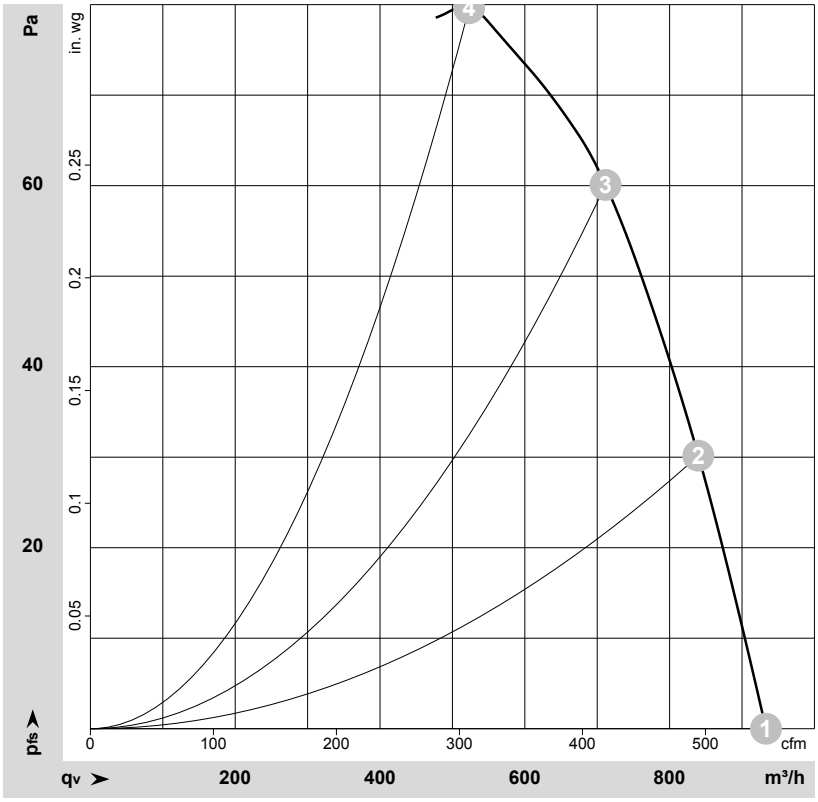


ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

# AC axial compact fan

sickled blades (S series), single inlet

## Charts: Air flow 50 Hz




ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-57318-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

## Measured values

| | Conn. | U | f | n | $P_e$ | I | $q_V$ | $p_{fs}$ | $q_V$ | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|---|
| | | V | Hz | $min^{-1}$ | W | A | $m^3/h$ | Pa | cfm | in. wg |
| 1 | 1~ | 230 | 50 | 2550 | 64 | 0.29 | 935 | 0 | 550 | 0.00 |
| 2 | 1~ | 230 | 50 | 2500 | 67 | 0.32 | 840 | 30 | 495 | 0.12 |
| 3 | 1~ | 230 | 50 | 2445 | 70 | 0.32 | 710 | 60 | 420 | 0.24 |
| 4 | 1~ | 230 | 50 | 2410 | 72 | 0.33 | 525 | 80 | 310 | 0.32 |

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed (rpm) · $P_e$ = Power input · I = Current draw · $q_V$ = Air flow · $p_{fs}$ = Pressure increase

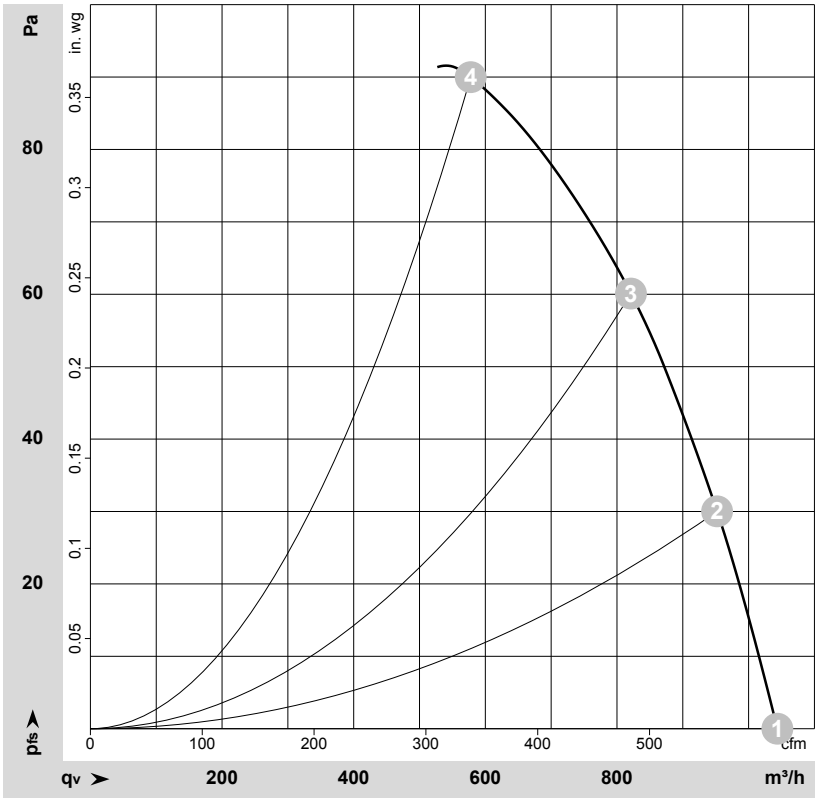


ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

# AC axial compact fan

sickled blades (S series), single inlet

## Charts: Air flow 60 Hz




ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-57319-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

## Measured values

| | Conn. | U | f | n | $P_e$ | I | $q_V$ | $p_{fs}$ | $q_V$ | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|---|
| | | V | Hz | $min^{-1}$ | W | A | $m^3/h$ | Pa | cfm | in. wg |
| 1 | 1~ | 230 | 60 | 2800 | 80 | 0.35 | 1045 | 0 | 615 | 0.00 |
| 2 | 1~ | 230 | 60 | 2770 | 81 | 0.35 | 950 | 30 | 560 | 0.12 |
| 3 | 1~ | 230 | 60 | 2675 | 85 | 0.37 | 820 | 60 | 485 | 0.24 |
| 4 | 1~ | 230 | 60 | 2555 | 89 | 0.39 | 580 | 90 | 340 | 0.36 |

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed (rpm) · $P_e$ = Power input · I = Current draw · $q_V$ = 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