**8300100117**

VWT0250H2MEZ

# AC axial compact fan - HyBlade

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

| | | | | |
|---|---|---|---|---|
| **Item** | **8300100117** | | | |
| **Motor** | **A06801-25** | | | |
| Phase | | 1~ | 1~ | 1~ |
| Nominal voltage | VAC | 230 | 230 | 230 |
| Frequency | Hz | 50 | 60 | 60 |
| Method of obtaining data | | ml | ml | ml |
| Valid for approval/standard | | CE | CE | UL 1004-3 |
| Speed (rpm) | $min^{-1}$ | 2320 | 2300 | 2300 |
| Power consumption | W | 125 | 160 | 166 |
| Current draw | A | 0.55 | 0.71 | 0.74 |
| Capacitor | µF | 3 | 3 | 3 |
| Capacitor voltage | VDB | 400 | 400 | 400 |
| Capacitor standard | | S0 (CE) | S0 (CE) | S0 (CE) |
| Max. back pressure | Pa | 100 | 110 | 110 |
| Max. back pressure | in. wg | 0.4 | 0.44 | 0.44 |
| Min. ambient temperature | °C | -25 | -25 | -25 |
| Max. ambient temperature | °C | 60 | 50 | 50 |
| Starting current | A | 0.83 | 0.81 | 0.81 |

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

# AC axial compact fan - HyBlade

sickle-shaped blades (S series)

## Technical description

| | |
|---|---|
| **Size** | 250 mm |
| **Motor size** | 68 |
| **Rotor surface** | Painted black |
| **Terminal box material** | PP plastic |
| **Blade material** | Press-fitted sheet steel blank, sprayed with PP plastic |
| **Housing material** | Die-cast aluminum |
| **Number of blades** | 7 |
| **Airflow direction** | V |
| **Direction of rotation** | Counterclockwise, viewed toward rotor |
| **Degree of protection** | IP54 |
| **Insulation class** | "F" |
| **Moisture (F) / Environmental (H) protection class** | H2 |
| **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 bottom; rotor on top on request |
| **Condensation drainage holes** | On rotor side |
| **Mode** | S1 |
| **Motor bearing** | Ball bearing; (sealed) |
| **Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)** | < 0.75 mA |
| **Electrical hookup** | Terminal box; Capacitor integrated and connected |
| **Motor protection** | Thermal overload protector (TOP) internally connected |
| **With cable** | Variable |
| **Protection class assignment** | I; If a protective earth is connected by the customer<br>This component for installation may have several local protection classes. This information relates to this component's basic design.<br>The final protection class is based on the component's intended installation and connection. |
| **Motor capacitor according to EN 60252-1 in safety protection class** | S0 |
| **Conformity with standards** | EN 60034-1; EN 60204-1; EN 60335-1; CE |
| **Approval** | CSA C22.2 No. 77; UL 1004-3 |
| **Comment** | Motor M2E068-CF |

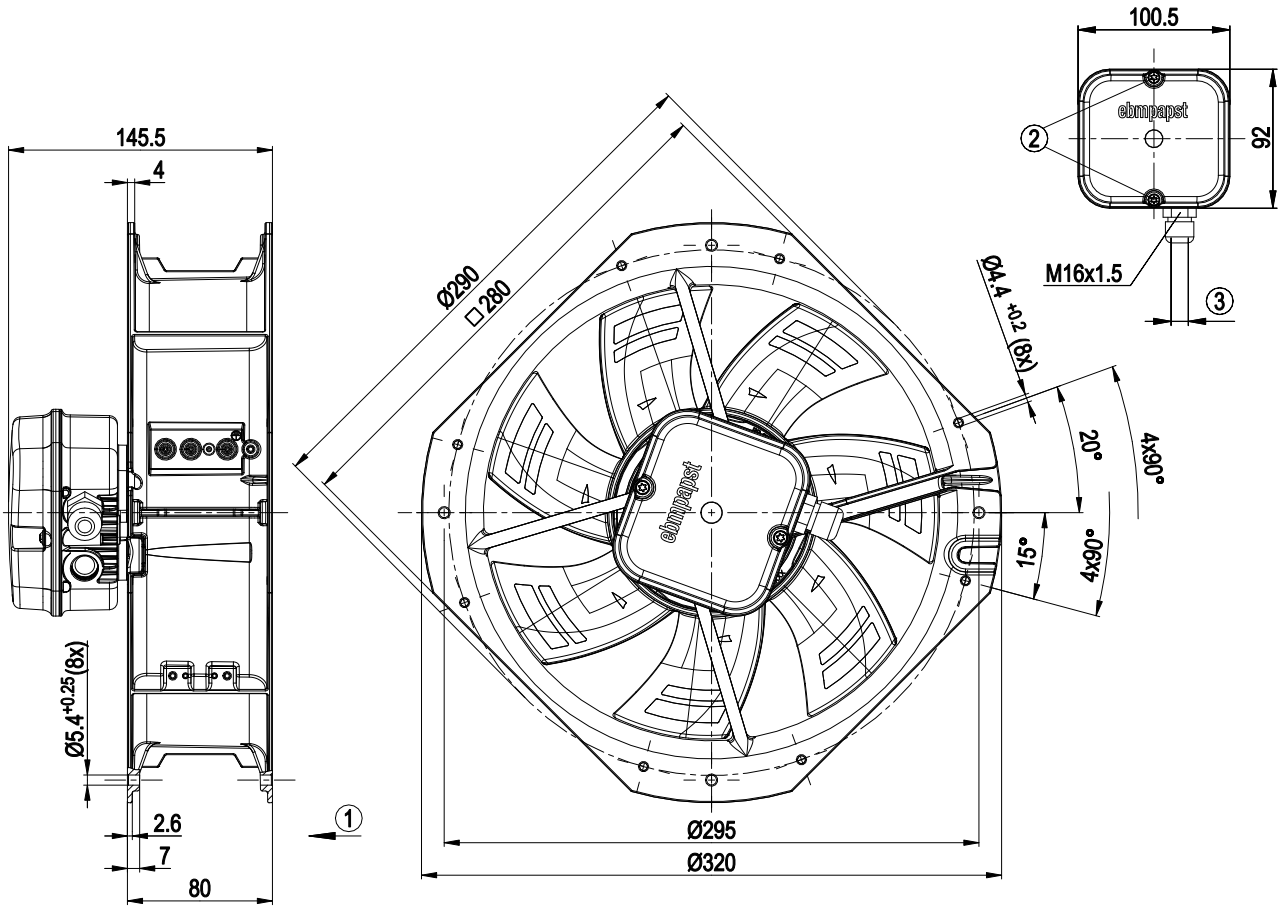


ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

# AC axial compact fan - HyBlade

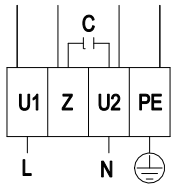
sickle-shaped blades (S series)

## Product drawing




| | |
|---|---|
| 1 | Airflow direction "V" |
| 2 | Tightening torque 1.5 ± 0.2 Nm |
| 3 | Cable diameter min. 4 mm, max. 10 mm, tightening torque 2.5 ± 0.4 Nm |

## Connection diagram




| | | | | | |
|---|---|---|---|---|---|
| L | = U1 = blue | Z | brown | N | = 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

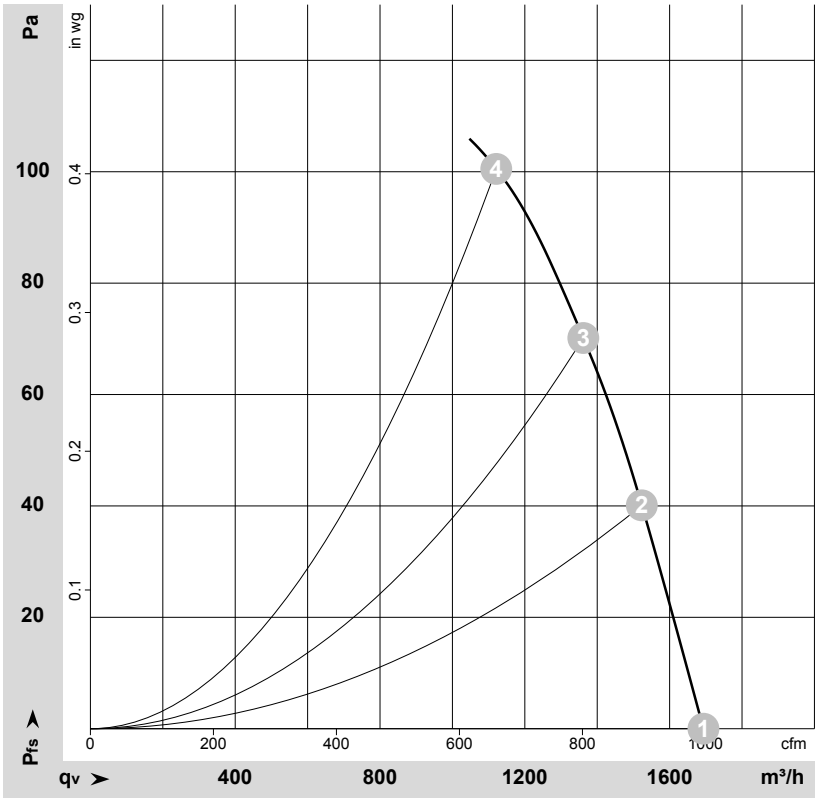
**8300100117**

VWT0250H2MEZ

# AC axial compact fan - HyBlade

sickle-shaped blades (S series)

## Curves: Air performance 50 Hz




ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-162612-1

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 | $LpA_{in}$ | $LwA_{in}$ | $q_V$ | $p_{fs}$ | $q_V$ | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | dB(A) | dB(A) | $m^3/h$ | Pa | cfm | in. wg |
| 1 | 230 | 50 | 2550 | 101 | 0.44 | 63 | 70 | 1695 | 0 | 995 | 0.00 |
| 2 | 230 | 50 | 2475 | 109 | 0.48 | 62 | 69 | 1525 | 40 | 895 | 0.16 |
| 3 | 230 | 50 | 2405 | 115 | 0.50 | 61 | 68 | 1360 | 70 | 800 | 0.28 |
| 4 | 230 | 50 | 2320 | 125 | 0.55 | 62 | 69 | 1120 | 100 | 660 | 0.40 |

U = Voltage · f = Frequency · n = Speed (rpm) · $P_e$ = Power consumption · I = Current draw · $LpA_{in}$ = Sound pressure level intake side · $LwA_{in}$ = Sound power level intake side
$q_V$ = 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

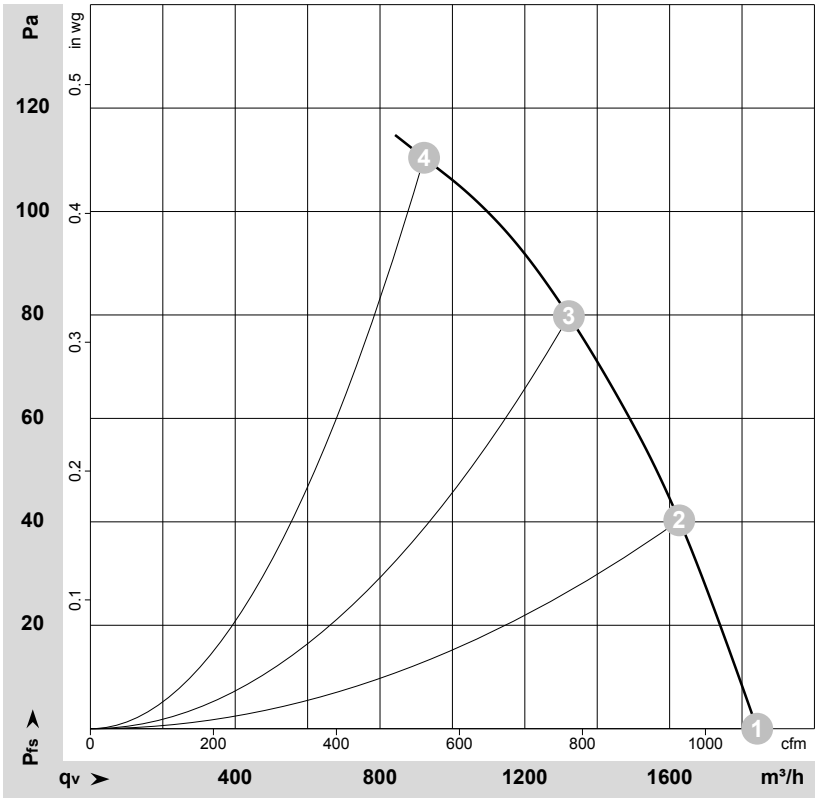
**8300100117**

VWT0250H2MEZ

# AC axial compact fan - HyBlade

sickle-shaped blades (S series)

## Curves: Air performance 60 Hz




ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-163044-1

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 | $LpA_{in}$ | $LwA_{in}$ | $q_V$ | $p_{fs}$ | $q_V$ | $p_{fs}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | V | Hz | $min^{-1}$ | W | A | dB(A) | dB(A) | $m^3/h$ | Pa | cfm | in. wg |
| 1 | 230 | 60 | 2750 | 134 | 0.59 | 64 | 71 | 1840 | 0 | 1085 | 0.00 |
| 2 | 230 | 60 | 2595 | 145 | 0.63 | 63 | 70 | 1625 | 40 | 960 | 0.16 |
| 3 | 230 | 60 | 2400 | 153 | 0.66 | 62 | 68 | 1320 | 80 | 780 | 0.32 |
| 4 | 230 | 60 | 2300 | 160 | 0.71 | 66 | 74 | 920 | 110 | 545 | 0.44 |

U = Voltage · f = Frequency · n = Speed (rpm) · $P_e$ = Power consumption · I = Current draw · $LpA_{in}$ = Sound pressure level intake side · $LwA_{in}$ = Sound power level intake side
$q_V$ = 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