**A4E350-AN02-32**

# AC axial fan - HyBlade

sickle-shaped blades (S series)

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## Nominal data

| | |
|---|---|
| **Type** | **A4E350-AN02-32** |
| **Motor** | **M4E074-DF** |

| | | |
|---|---|---|
| Phase | | 1~ |
| Nominal voltage | VAC | 230 |
| Frequency | Hz | 50 |
| Method of obtaining data | | ml |
| Valid for approval/standard | | CE |
| Speed (rpm) | $min^{-1}$ | 1340 |
| Power consumption | W | 165 |
| Current draw | A | 0.73 |
| Capacitor | µF | 4 |
| Capacitor voltage | VDB | 400 |
| Capacitor standard | | S0 (CE) |
| Max. back pressure | Pa | 90 |
| Max. back pressure | inH2O | 0.36 |
| Min. ambient temperature | °C | -40 |
| Max. ambient temperature | °C | 40 |
| Starting current | A | 1.4 |

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

## Data according to ErP Directive

| | | Actual | Req. 2015 |
|---|---|---|---|
| 01 Overall efficiency $\eta_{es}$ | % | 29 | 28.6 |
| 02 Measurement category | | A | |
| 03 Efficiency category | | Static | |
| 04 Efficiency grade N | | 40.4 | 40 |
| 05 Variable speed drive | | No | |

| | | |
|---|---|---|
| 09 Power consumption $P_e$ | kW | 0.16 |
| 09 Air flow $q_v$ | $m^3/h$ | 2160 |
| 09 Pressure increase $p_{fs}$ | Pa | 75 |
| 10 Speed (rpm) n | $min^{-1}$ | 1355 |
| 11 Specific ratio* | | 1.00 |

Data obtained at optimum efficiency level.
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

* Specific ratio = 1 + $p_{fs}$ / 100 000 Pa

LU-131320

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## Technical description

| | |
|---|---|
| **Weight** | 3.4 kg |
| **Fan size** | 350 mm |
| **Rotor surface** | Painted black |
| **Blade material** | PP plastic |
| **Number of blades** | 5 |
| **Airflow direction** | "V" |
| **Direction of rotation** | Counterclockwise, viewed toward rotor |
| **Degree of protection** | IP44; installation- and position-dependent as per EN 60034-5. The degree of protection is only assured when the intended cable guard and terminal box are installed. |
| **Insulation class** | "F" |
| **Moisture (F) / Environmental (H) protection class** | F2-2 |
| **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 with low-temperature lubricant |
| **Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)** | < 0.75 mA |
| **Electrical hookup** | Prepared for terminal box installation |
| **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; CE |

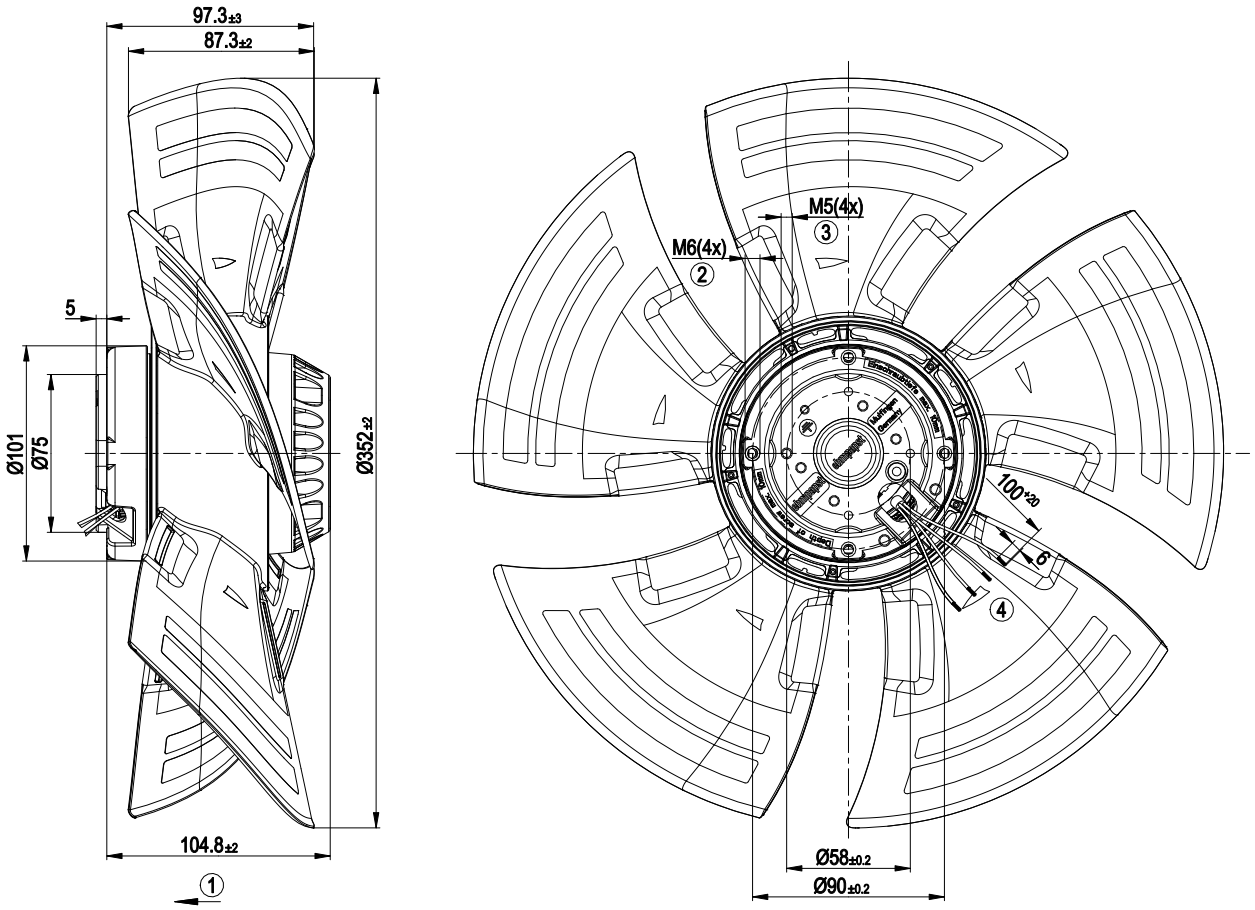


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## Product drawing




| | |
|---|---|
| 1 | Direction of air flow "V" |
| 2 | Max. clearance for screw 10 mm |
| 3 | Max. clearance for screw 8 mm |
| 4 | Cable Dipotherm 4G 0.5 mm², 4x crimped splices |

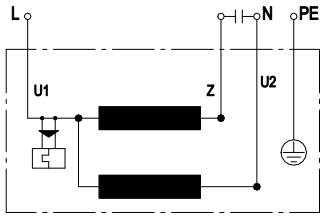


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## Connection diagram




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

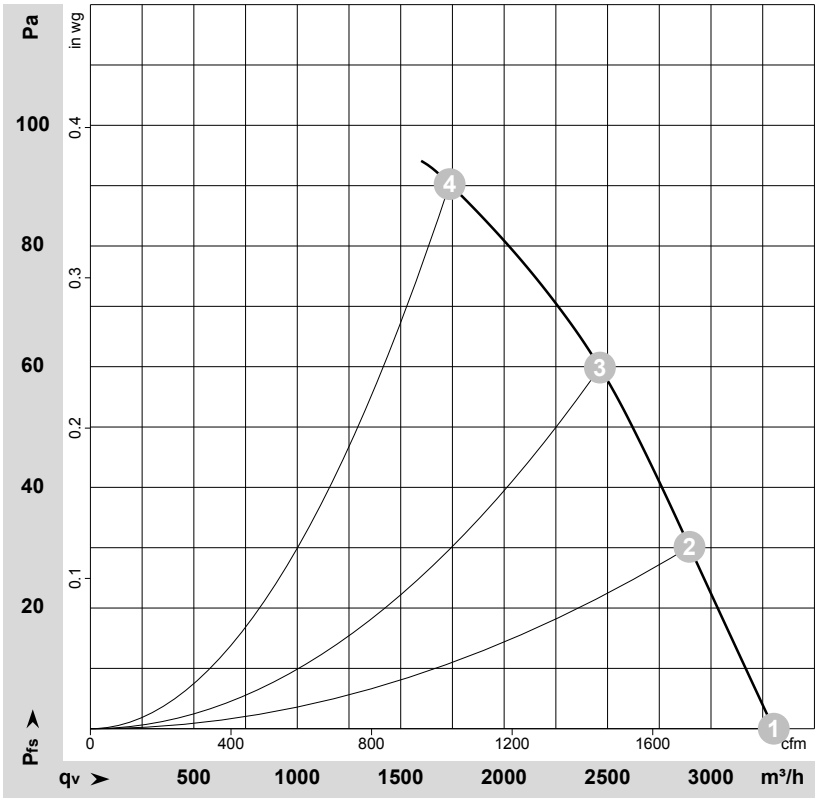


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## Curves: Air performance 50 Hz




ρ = 1.179 kg/m³ ± 2 %

Measurement: LU-131320-1

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 | inH2O |
| 1 | 230 | 50 | 1400 | 135 | 0.60 | 62 | 69 | 3305 | 0 | 1945 | 0.00 |
| 2 | 230 | 50 | 1380 | 145 | 0.64 | 59 | 67 | 2895 | 30 | 1705 | 0.12 |
| 3 | 230 | 50 | 1365 | 155 | 0.68 | 56 | 64 | 2465 | 60 | 1450 | 0.24 |
| 4 | 230 | 50 | 1340 | 165 | 0.73 | 58 | 66 | 1735 | 90 | 1020 | 0.36 |

U = Power supply · 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



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