



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



AC centrifugal fan

forward-curved, single-intake
with housing (flange)

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 | G2E146-DW07-01 | | | | |
|-----------------------------|-------------------|---------|---------|---------|---------|
| Motor | M2E068-CA | | | | |
| Phase | | 1~ | 1~ | 1~ | 1~ |
| Nominal voltage | VAC | 230 | 230 | 240 | 240 |
| Frequency | Hz | 50 | 60 | 50 | 60 |
| Method of obtaining data | | fa | ml | ml | ml |
| Valid for approval/standard | | CE | CE | CE | CE |
| Speed | min ⁻¹ | 1550 | 1750 | 1775 | 2150 |
| Power consumption | W | 140 | 155 | 130 | 140 |
| Current draw | A | 0.62 | 0.68 | 0.55 | 0.59 |
| Capacitor | µF | 3 | 3 | 2.5 | 2.5 |
| Capacitor voltage | VDB | 450 | 450 | 450 | 450 |
| Capacitor standard | | P0 (CE) | P0 (CE) | P0 (CE) | P0 (CE) |
| Min. back pressure | Pa | 0 | 100 | 50 | 250 |
| Min. ambient temperature | °C | -25 | -25 | -25 | -25 |
| Max. ambient temperature | °C | 45 | 30 | 45 | 45 |
| Starting current | A | 0.69 | 0.71 | 0.67 | 0.7 |

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



AC centrifugal fan

forward-curved, single-intake
with housing (flange)

Technical description

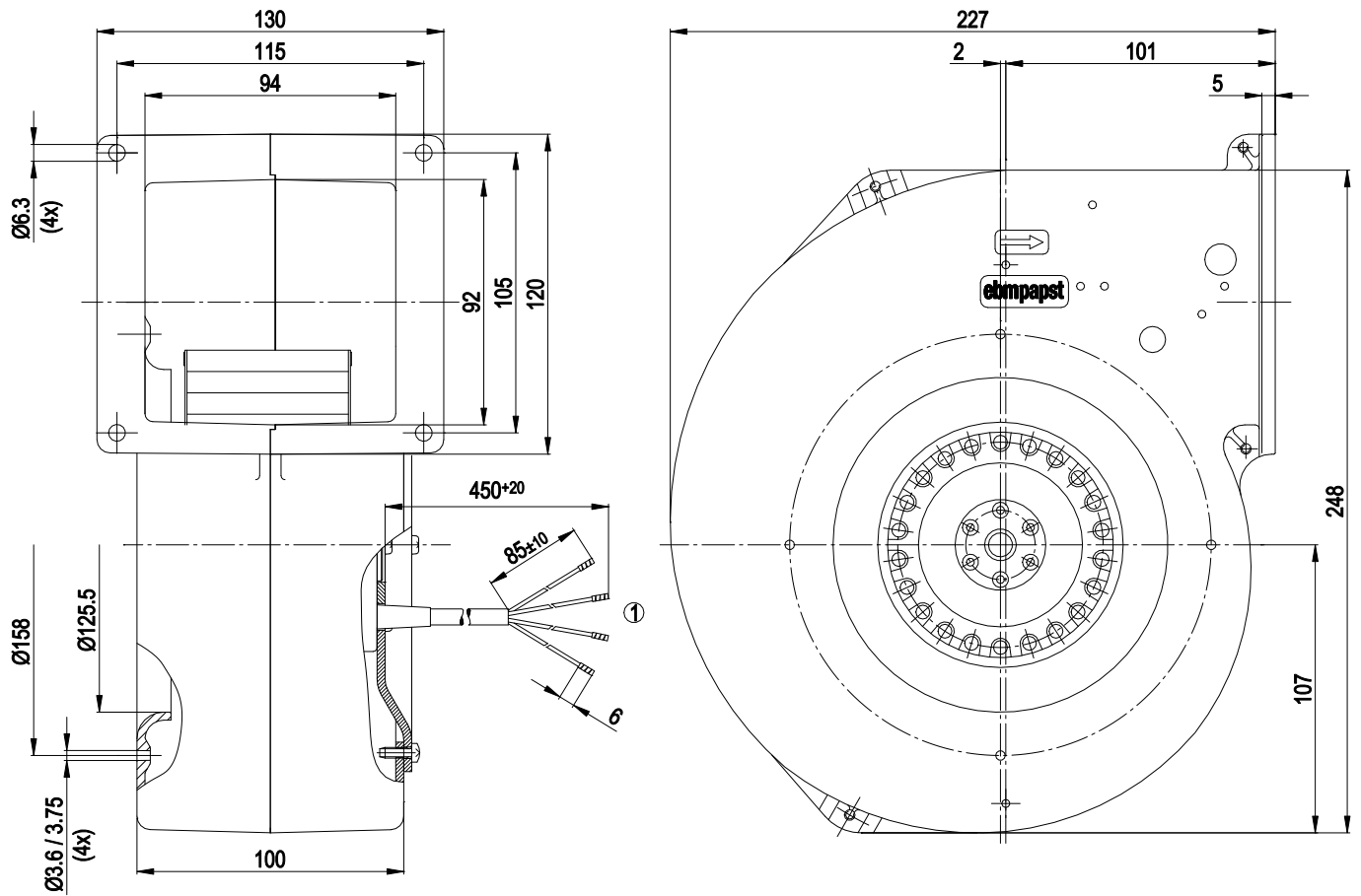
| | |
|---|---|
| Weight | 2.9 kg |
| Fan size | 146 mm |
| Rotor surface | Partly cast in aluminum |
| Impeller material | Sheet steel, sendzimir galvanized |
| Housing material | Die-cast aluminum |
| Direction of rotation | Clockwise, viewed toward rotor |
| Degree of protection | IP44; installation- and position-dependent |
| Insulation class | "B" |
| Moisture protection class | F0 |
| Max. permitted ambient temp. for motor (transport/storage) | + 80 °C |
| Min. permitted ambient temp. for motor (transport/storage) | - 40 °C |
| Installation position | Any |
| Condensation drainage holes | None |
| Mode | S1 |
| Motor storage | 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 |
| Protection class | I (with customer connection of protective earth) |
| Conformity with standards | EN 60335-1; CE |
| Approval | EAC; CCC |



AC centrifugal fan

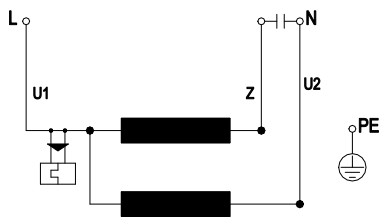
forward-curved, single-intake
with housing (flange)

Product drawing



1 Cable PVC, 4x crimped splices

Connection diagram



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

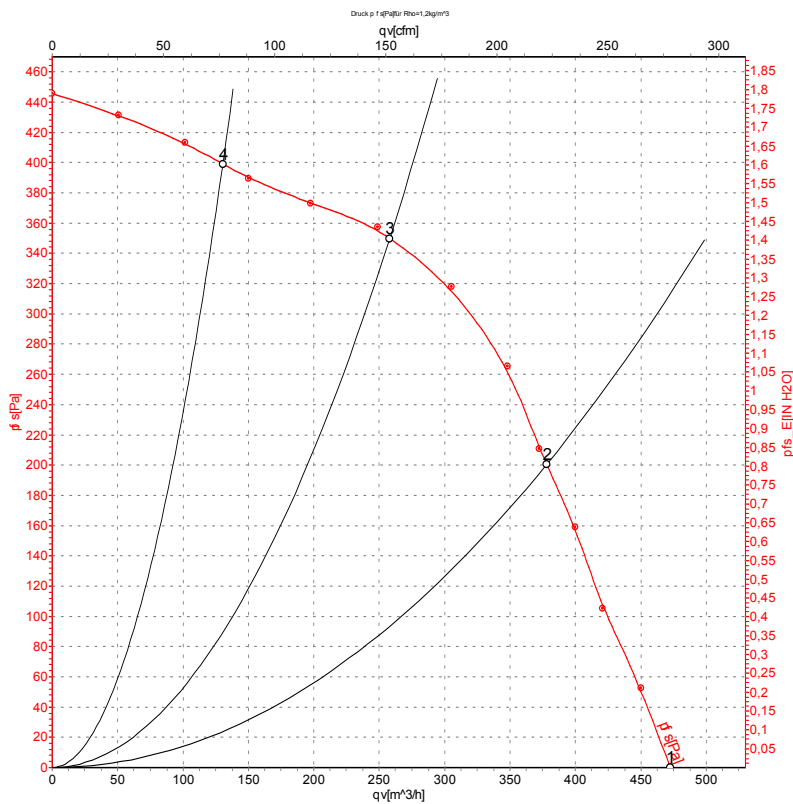


AC centrifugal fan

forward-curved, single-intake

with housing (flange)

Curves: Air performance 50 Hz



Measurement: LU-105087

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} |
|---|-----|----|-------------------|----------------|------|-------------------|-----------------|
| | V | Hz | min ⁻¹ | W | A | m ³ /h | Pa |
| 1 | 230 | 50 | 1550 | 140 | 0.62 | 475 | 0 |
| 2 | 230 | 50 | 2035 | 122 | 0.53 | 380 | 200 |
| 3 | 230 | 50 | 2395 | 104 | 0.45 | 260 | 350 |
| 4 | 230 | 50 | 2605 | 91 | 0.40 | 130 | 400 |

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

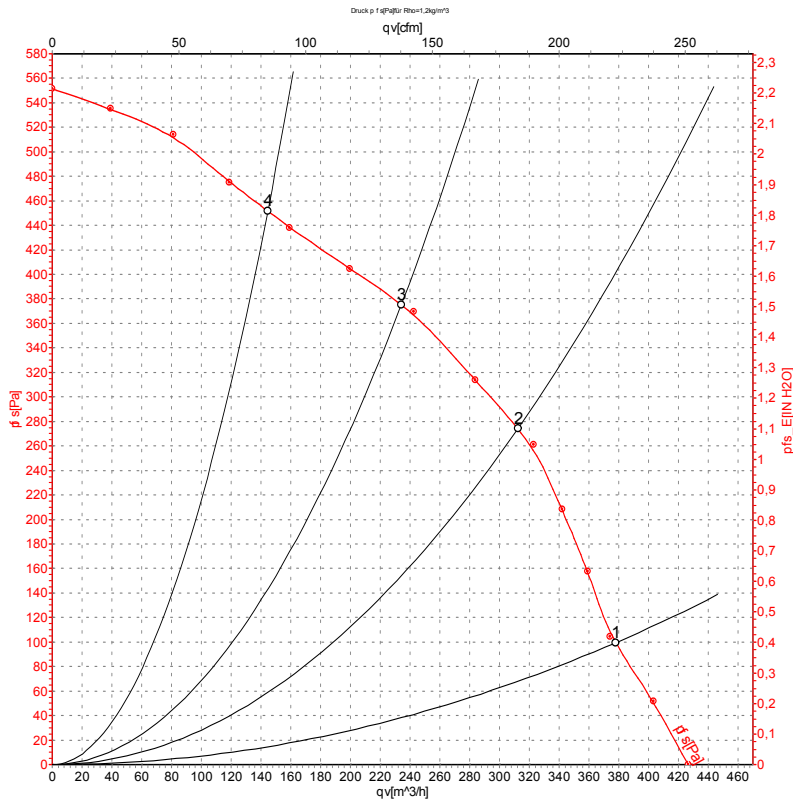


AC centrifugal fan

forward-curved, single-intake

with housing (flange)

Curves: Air performance 60 Hz



Measurement: LU-105090

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 _{is} |
|---|-----|----|-------------------|----------------|------|-------------------|-----------------|
| | V | Hz | min ⁻¹ | W | A | m ³ /h | Pa |
| 1 | 230 | 60 | 1750 | 155 | 0.68 | 380 | 100 |
| 2 | 230 | 60 | 2145 | 144 | 0.62 | 310 | 275 |
| 3 | 230 | 60 | 2500 | 137 | 0.59 | 235 | 375 |
| 4 | 230 | 60 | 2775 | 130 | 0.57 | 145 | 450 |

U = Power supply · f = Frequency · n = Speed · P_e = Power consumption · I = Current draw · qv = Air flow · p_{is} = Pressure increase

