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Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142**Nominal data**

| | | |
|--------------------------|-----------------------|------------|
| Type | R3G190-RD45-03 | |
| Motor | M3G055-CF | |
| Phase | | 1~ |
| Nominal voltage | VAC | 230 |
| Nominal voltage range | VAC | 200 .. 240 |
| Frequency | Hz | 50/60 |
| Type of data definition | | ml |
| Speed | min ⁻¹ | 4120 |
| Power input | W | 169 |
| Current draw | A | 1.35 |
| Min. ambient temperature | °C | -25 |
| Max. ambient temperature | °C | +60 |

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

Data according to ErP directive

| | |
|-----------------------|--------|
| Installation category | A |
| Efficiency category | Static |
| Variable speed drive | Yes |
| Specific ratio* | 1.01 |

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

| | | Actual | Request 2013 | Request 2015 |
|--------------------------------|-------------------|--------|--------------|--------------|
| Overall efficiency η_{es} | | 56 | 39.1 | 43.1 |
| Efficiency grade N | | 74.9 | 58 | 62 |
| Power input P_{ed} | kW | 0.16 | | |
| Air flow q_v | m ³ /h | 565 | | |
| Pressure increase p_{fs} | Pa | 524 | | |
| Speed n | min ⁻¹ | 4055 | | |

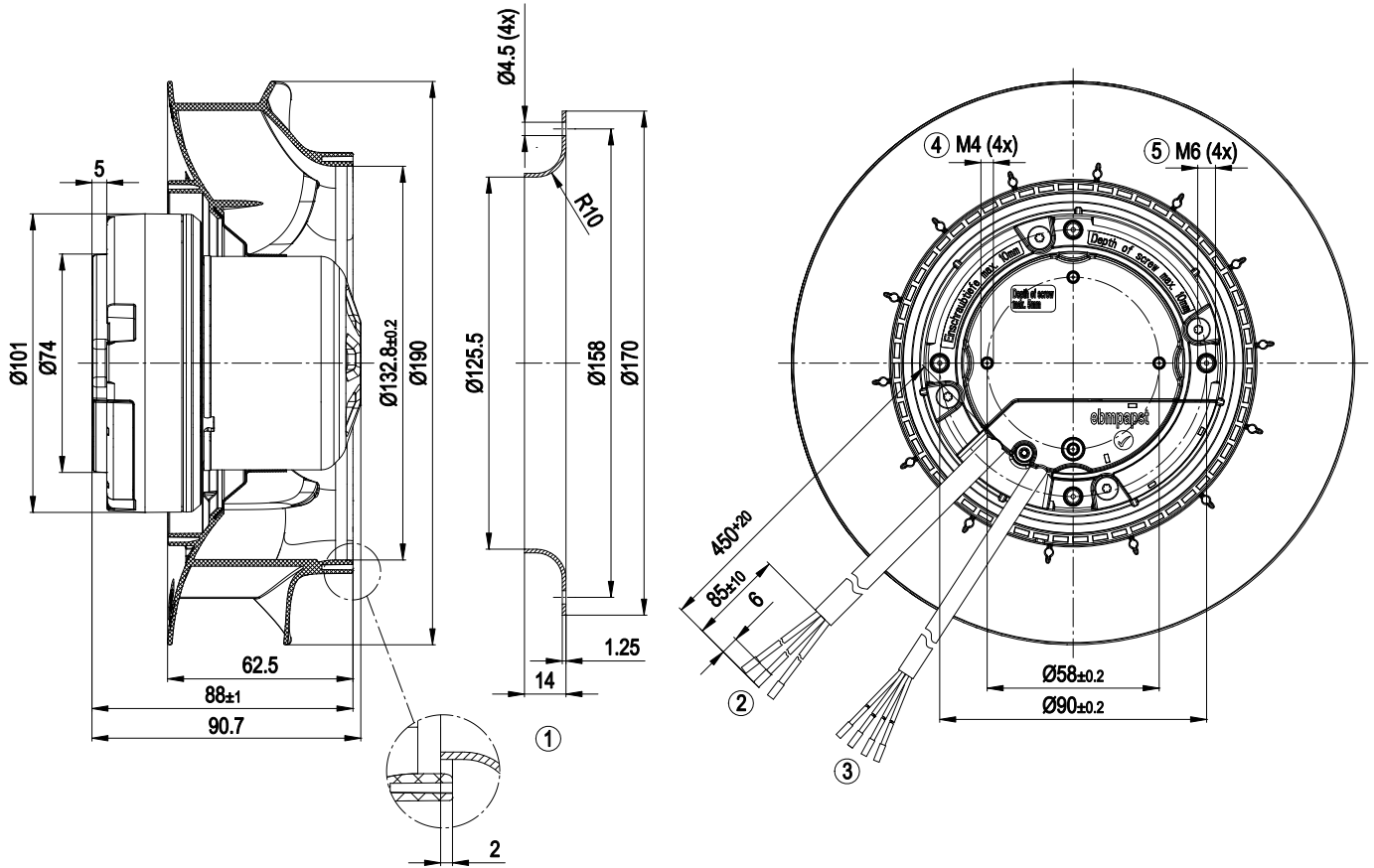
Data established at point of optimum efficiency



Technical features

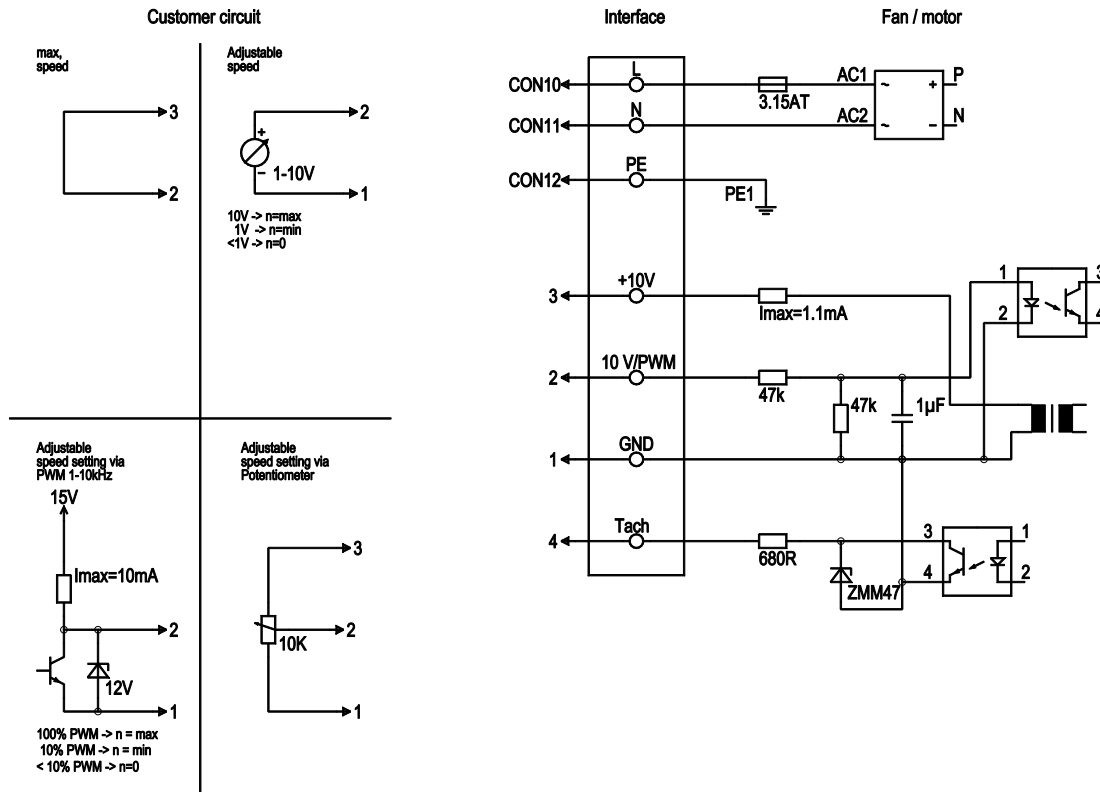
| | |
|---|---|
| Mass | 1.38 kg |
| Size | 190 mm |
| Surface of rotor | Thick layer passivated |
| Material of electronics housing | Die-cast aluminium |
| Material of impeller | Plastic PA6, fibreglass-reinforced |
| Number of blades | 7 |
| Direction of rotation | Clockwise, seen on rotor |
| Type of protection | IP 54 |
| Insulation class | "B" |
| Max. permissible ambient motor temp. (transp./ storage) | + 80 °C |
| Min. permissible ambient motor temp. (transp./storage) | - 40 °C |
| Mounting position | Shaft horizontal or rotor on bottom; rotor on top on request |
| Condensate discharge holes | None, open rotor |
| Operation mode | S1 |
| Motor bearing | Ball bearing |
| Technical features | <ul style="list-style-type: none"> - Output 10 VDC, max. 1.1 mA - Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Over-temperature protected electronics / motor - Line undervoltage detection |
| Touch current acc. IEC 60990 (measuring network Fig. 4, TN system) | <= 3.5 mA |
| Motor protection | Locked-rotor protection |
| Cable exit | Variable |
| Protection class | I (if protective earth is connected by customer) |
| Product conforming to standard | EN 60335-1 |

Product drawing



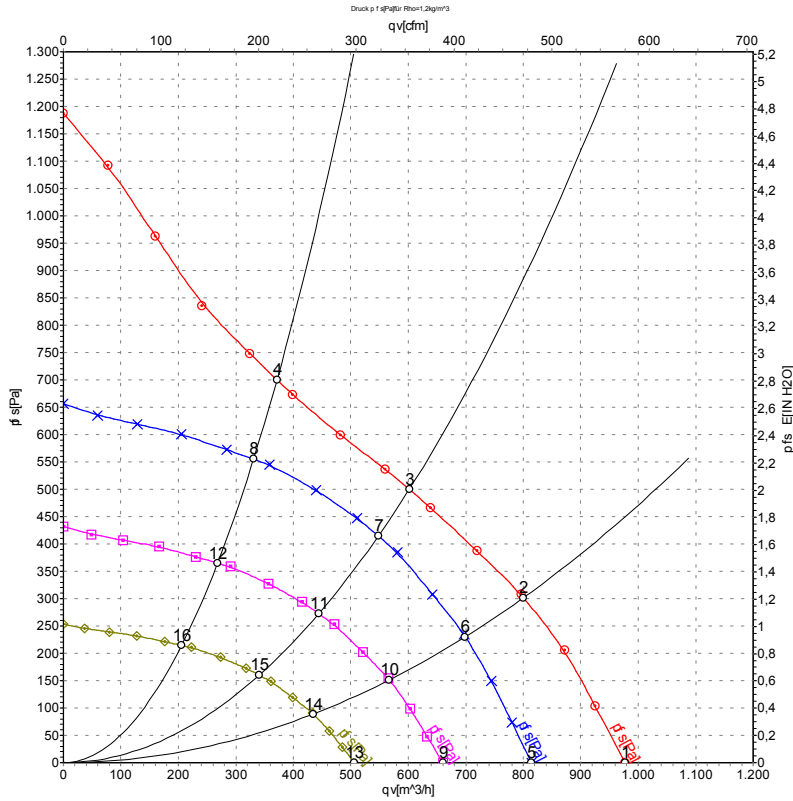
| | |
|---|---|
| 1 | Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery |
| 2 | Connection line PVC 3G AWG20; 3 x brass lead tips crimped |
| 3 | Control line PVC 4X AWG22; 4 x brass lead tips crimped |
| 4 | Depth of screw max. 5 mm |
| 5 | Depth of screw max. 10 mm |

Connection screen



| Line | No. | Signal | Colour | Function / assignment |
|------|-------|----------------|--------------|--|
| | CON10 | L | black | Power supply 230 VAC, 50- 60 Hz, for voltage range refer to rating plate |
| | CON11 | N | blue | Neutral conductor |
| | CON12 | PE | green/yellow | Protective earth |
| | 1 | GND | blue | GND - Connection for control interface |
| | 2 | 0- 10V PWM | yellow | Control input 0 - 10 V or PWM, electrically isolated |
| | 3 | 10V/ max 1.1mA | red | Voltage output 10V/ 1.1mA, electrically isolated, not short-circuit-proof. |
| | 4 | Tach | white | Tach output: open collector, 1 pulse per revolution, electrically isolated |

Charts: Air flow 50 Hz



Measurement: LU-132500

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: L_{wA} measured as per ISO 13347 / L_{pA} 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

| | U | f | n | P _{ed} | I | L _{pA_{in}} | L _{wA_{in}} | qv | p _{fs} |
|----|-----|----|-------------------|-----------------|------|------------------------------|------------------------------|-------------------|-----------------|
| | V | Hz | min ⁻¹ | W | A | dB(A) | dB(A) | m ³ /h | Pa |
| 1 | 230 | 50 | 4440 | 161 | 1.35 | 72 | 81 | 975 | 0 |
| 2 | 230 | 50 | 4235 | 165 | 1.35 | 67 | 75 | 800 | 300 |
| 3 | 230 | 50 | 4120 | 169 | 1.35 | 63 | 72 | 600 | 500 |
| 4 | 230 | 50 | 4150 | 160 | 1.35 | 66 | 74 | 370 | 700 |
| 5 | 230 | 50 | 3700 | 93 | 0.81 | 69 | 77 | 815 | 0 |
| 6 | 230 | 50 | 3700 | 110 | 0.93 | 64 | 72 | 700 | 233 |
| 7 | 230 | 50 | 3700 | 125 | 1.06 | 61 | 70 | 550 | 415 |
| 8 | 230 | 50 | 3700 | 114 | 0.97 | 64 | 72 | 330 | 556 |
| 9 | 230 | 50 | 3000 | 50 | 0.43 | 64 | 73 | 660 | 0 |
| 10 | 230 | 50 | 3000 | 59 | 0.50 | 59 | 68 | 565 | 153 |
| 11 | 230 | 50 | 3000 | 67 | 0.57 | 56 | 65 | 445 | 273 |
| 12 | 230 | 50 | 3000 | 61 | 0.52 | 59 | 67 | 270 | 365 |
| 13 | 230 | 50 | 2300 | 22 | 0.19 | 58 | 67 | 505 | 0 |
| 14 | 230 | 50 | 2300 | 26 | 0.22 | 53 | 62 | 435 | 90 |
| 15 | 230 | 50 | 2300 | 30 | 0.26 | 51 | 59 | 340 | 160 |
| 16 | 230 | 50 | 2300 | 27 | 0.23 | 54 | 61 | 205 | 215 |

U = Supply voltage · f = Frequency · n = Speed · P_{ed} = Power input · I = Current draw · L_{pA_{in}} = Sound pressure level inlet side · L_{wA_{in}} = Sound power level inlet side · qv = Air flow
 p_{fs} = Pressure increase





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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