

# EC centrifugal fan - RadiPac

backward-curved, single-intake

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Nominal data

|                          |                   |            |
|--------------------------|-------------------|------------|
| Type                     | R3G355-PV70-01    |            |
| Motor                    | M3G112-GA         |            |
| Phase                    |                   | 3~         |
| Nominal voltage          | VAC               | 400        |
| Nominal voltage range    | VAC               | 380 .. 480 |
| Frequency                | Hz                | 50/60      |
| Method of obtaining data |                   | ml         |
| Speed (rpm)              | min <sup>-1</sup> | 3230       |
| Power consumption        | W                 | 2900       |
| Current draw             | A                 | 4.4        |
| Min. ambient temperature | °C                | -40        |
| Max. ambient temperature | °C                | 45         |

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

Data according to Commission Regulation (EU) 327/2011 (prEN 17166)

|                                   |   | Actual | Req. 2015 |                               |                   |      |
|-----------------------------------|---|--------|-----------|-------------------------------|-------------------|------|
| 01 Overall efficiency $\eta_{es}$ | % | 65     | 56.3      | 09 Power consumption $P_{ed}$ | kW                | 2.84 |
| 02 Measurement category           |   | A      |           | 09 Air flow $q_v$             | m³/h              | 5145 |
| 03 Efficiency category            |   | Static |           | 09 Pressure increase $p_{fs}$ | Pa                | 1232 |
| 04 Efficiency grade N             |   | 70.7   | 62        | 10 Speed (rpm) n              | min <sup>-1</sup> | 3225 |
| 05 Variable speed drive           |   | Yes    |           | 11 Specific ratio*            |                   | 1.01 |

Data obtained at optimum efficiency level.  
The efficiency values displayed for achieving conformity with the Ecodesign Regulation EU 327/2011 has been reached with defined air duct components (e.g. inlet rings).  
The dimensions must be requested from ebm-papst. If other air conduction geometries are used on the installation side, the ebm-papst evaluation loses its validity/the conformity must be confirmed again.  
The product does not fall within the scope of Regulation (EU) 2019/1781 due to the exception specified in Article 2 (2a) (motors completely integrated into a product).

\* Specific ratio =  $1 + p_b / 100\,000\text{ Pa}$  LU-205782



## Technical description

|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight                                                                     | 12.16 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Size                                                                       | 355 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Motor size                                                                 | 112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Rotor surface                                                              | Painted black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Electronics housing material                                               | Die-cast aluminum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Impeller material                                                          | Sheet aluminum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Number of blades                                                           | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Direction of rotation                                                      | Clockwise, viewed toward rotor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Degree of protection                                                       | IP55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Insulation class                                                           | "F"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Moisture (F) / Environmental (H) protection class                          | H1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Ambient temperature note                                                   | Occasional start-up at temperatures between -40°C and -25°C is permitted. For continuous operation at ambient temperatures below -25°C (such as refrigeration applications), use must be made of a fan design with special low-temperature bearings.                                                                                                                                                                                                                                                                                                                                                                              |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Technical features                                                         | <ul style="list-style-type: none"> <li>- Operation and alarm display with LED</li> <li>- External 15-50 VDC input (parameterization)</li> <li>- Alarm relay</li> <li>- Integrated PI controller</li> <li>- Configurable inputs/outputs (I/O)</li> <li>- MODBUS V6.3</li> <li>- Motor current limitation</li> <li>- RS-485 MODBUS-RTU</li> <li>- Soft start</li> <li>- Voltage output 3.3-24 VDC, Pmax = 800 mW</li> <li>- Control interface with SELV potential safely disconnected from the mains</li> <li>- Thermal overload protection for electronics/motor</li> <li>- Line undervoltage / phase failure detection</li> </ul> |
| EMC immunity to interference                                               | According to EN 61000-6-2 (industrial environment)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| EMC interference emission                                                  | According to EN 61000-6-4 (industrial environment)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system) | <= 3.5 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Electrical hookup                                                          | Terminal box                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Motor protection                                                           | Electronic motor protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Protection class assignment                                                | <p>I; If a protective earth is connected by the customer</p> <p>This component for installation may have several local protection classes. This information relates to this component's basic design.</p> <p>The final protection class is based on the component's intended installation and connection.</p>                                                                                                                                                                                                                                                                                                                     |
| Conformity with standards                                                  | EN 61800-5-1; CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



R3G355-PV70-01

# EC centrifugal fan - RadiPac

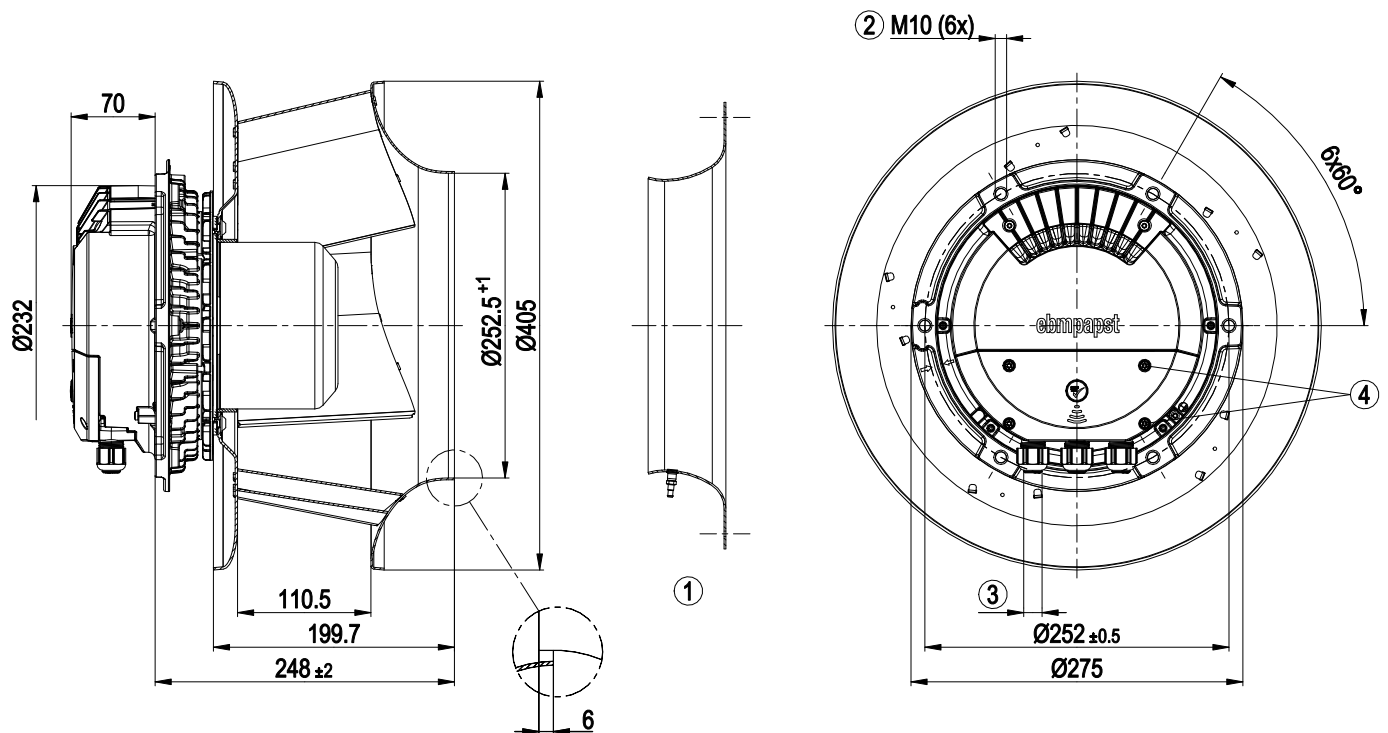
backward-curved, single-intake

Approval

EAC; UL 1004-7 + 60730-1

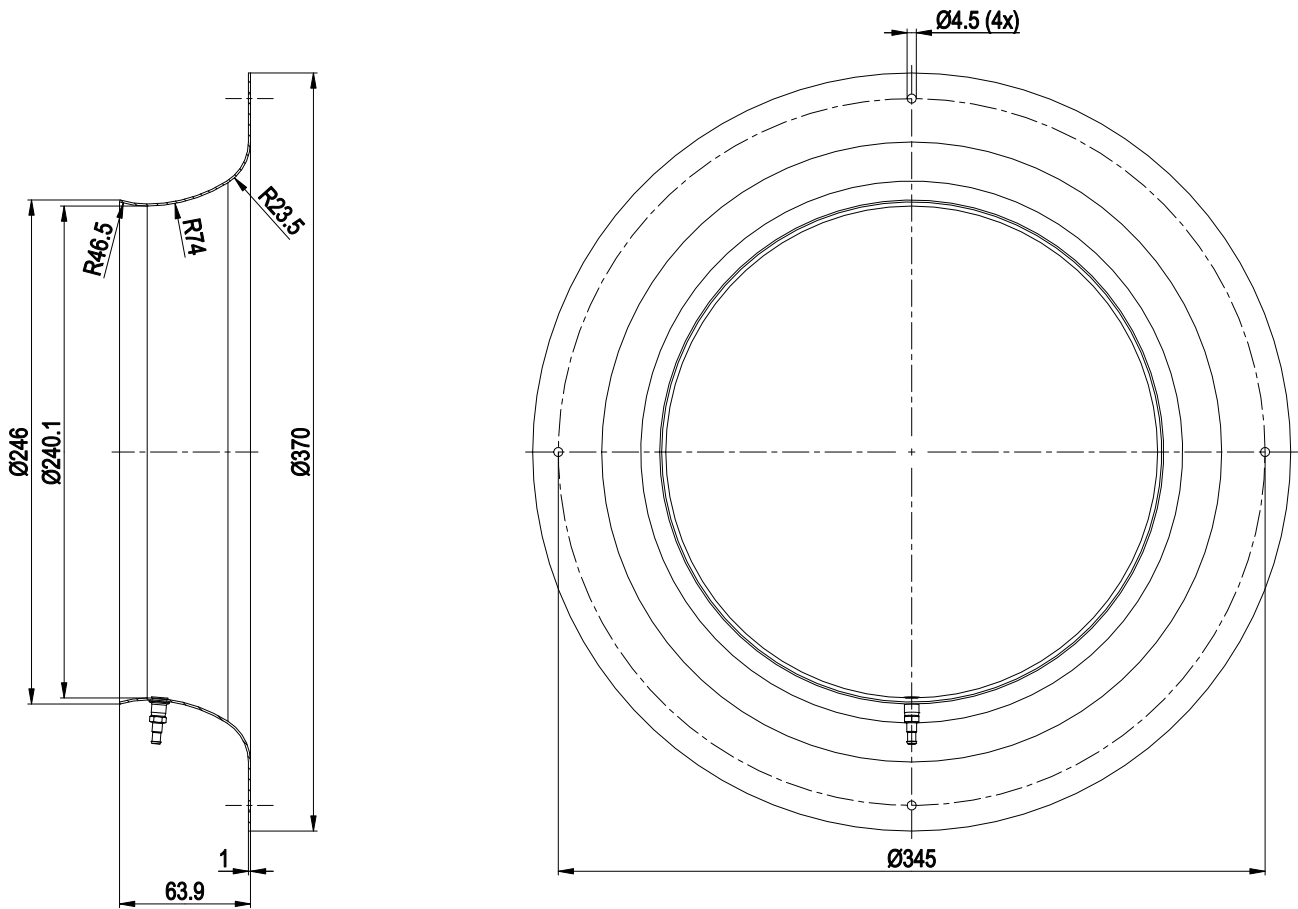


## Product drawing



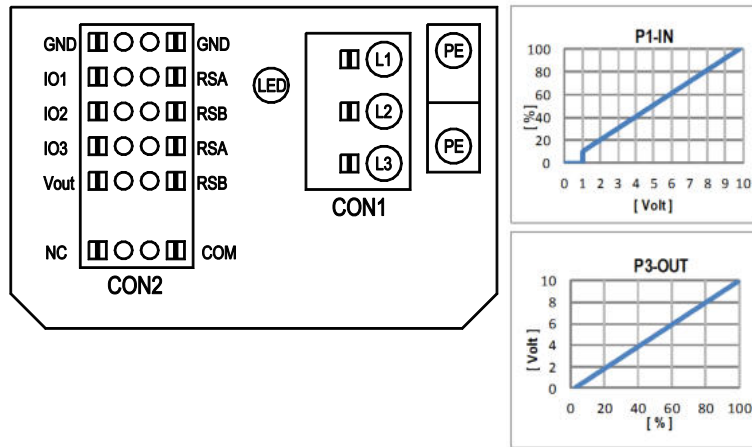
|   |                                                                                                                                                                                                                   |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Accessory part: Inlet ring 35675-2-4013 with pressure tap (k-factor: 148) not included in scope of delivery                                                                                                       |
| 2 | Max. clearance for screw 20 mm                                                                                                                                                                                    |
| 3 | Cable diameter min. 4 mm, max. 10 mm, tightening torque $4 \pm 0.6$ Nm<br>(The tightening torque is designed for PVC cables. If the cable materials are different, the tightening torque may have to be adjusted) |
| 4 | Tightening torque $1.5 \pm 0.2$ Nm                                                                                                                                                                                |

## Accessory part



Inlet ring 35675-2-4013 with pressure tap (k-factor: 148)

## Connection diagram



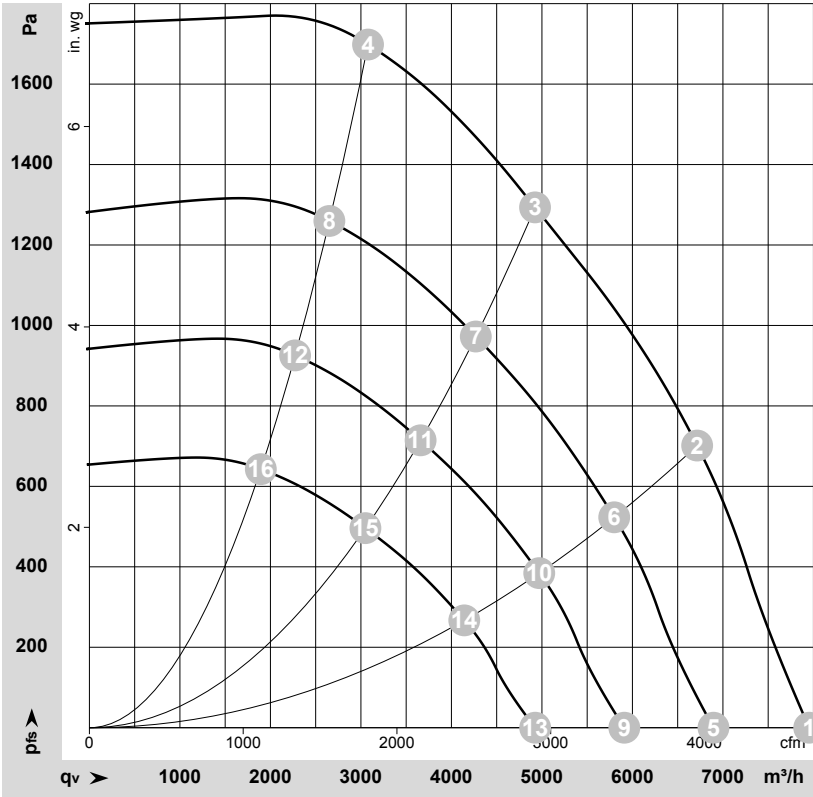
| No. | Conn. | Designation | Function/assignment                                                                                                                                                                                                                                                                                                                             |
|-----|-------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | CON1  | L1, L2, L3  | Power supply, phase, see nameplate for voltage range                                                                                                                                                                                                                                                                                            |
|     | PE    | PE          | Protective earth                                                                                                                                                                                                                                                                                                                                |
|     | CON2  | RSA         | RS485 interface for MODBUS, RSA; SELV                                                                                                                                                                                                                                                                                                           |
|     | CON2  | RSB         | RS485 interface for MODBUS, RSB; SELV                                                                                                                                                                                                                                                                                                           |
|     | CON2  | GND         | Reference ground for control interface, SELV                                                                                                                                                                                                                                                                                                    |
|     | CON2  | IO1         | Function parameterizable (see "Optional interface functions" table)<br>Factory setting:<br>Digital input - high active, function: Disable input, SELV<br>- inactive: Pin open or applied voltage < 1.5 VDC<br>- active: applied voltage 3.5-50 VDC<br>Reset function: Triggering of error reset on change of state from "enabled" to "disabled" |
|     | CON2  | IO2         | Function parameterizable (see "Optional interface functions" table)<br>Factory setting:<br>Analog input 0-10 V / PWM, Ri=100 kΩ, function: Set value<br>Characteristic curve parameterizable (see input characteristic curve P1-IN), SELV                                                                                                       |
|     | CON2  | IO3         | Function parameterizable (see "Optional interface functions" table)<br>Factory setting:<br>Analog output 0-10 V, max. 5 mA, function: Fan modulation level<br>Characteristic curve parameterizable (see output characteristic curve P3-OUT), SELV                                                                                               |
|     | CON2  | Vout        | Voltage output 3.3-24 VDC ±5%, Pmax=800 mW, voltage parameterizable<br>Factory setting: 10 VDC<br>short-circuit-proof, supply for external devices, SELV<br>alternatively: 15-50 VDC input for parameterization via MODBUS without line voltage                                                                                                 |
|     | CON2  | COM         | Status relay, floating status contact, common connection, contact rating 250 VAC / 2 A (AC1) / min. 10 mA, reinforced insulation on supply side and on control interface side                                                                                                                                                                   |
|     | CON2  | NC          | Status relay, floating status contact, break for failure                                                                                                                                                                                                                                                                                        |
|     |       | LED         | green: status = good, ready for operation<br>orange: status = warning<br>red: status = failure                                                                                                                                                                                                                                                  |
|     |       | P1-IN       | Input characteristic curve                                                                                                                                                                                                                                                                                                                      |
|     |       | P3-OUT      | Output characteristic curve                                                                                                                                                                                                                                                                                                                     |

Terminal/plug assignment

|                     |                                                                                                              |                                                                                                                                                                           |                                             |                                           |                                                           |                      |                                 |          |                                |          |                      |          |                                   |          |                                     |          |                                  |          |   |                                 |          |  |  |  |  |  |  |  |  |  |  |
|---------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------|-----------------------------------------------------------|----------------------|---------------------------------|----------|--------------------------------|----------|----------------------|----------|-----------------------------------|----------|-------------------------------------|----------|----------------------------------|----------|---|---------------------------------|----------|--|--|--|--|--|--|--|--|--|--|
| configurable option |                                                                                                              | For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.3                                             | configurable IO functions: normal / inverse | MODBUS Register for IO mode configuration | electrical specification                                  | configurable IO mode | CON2                            | inverse  |                                |          |                      |          |                                   |          |                                     |          |                                  |          |   |                                 |          |  |  |  |  |  |  |  |  |  |  |
|                     |                                                                                                              |                                                                                                                                                                           |                                             |                                           |                                                           |                      |                                 | INPUT    |                                |          |                      |          |                                   |          |                                     |          |                                  |          |   | OUTPUT                          |          |  |  |  |  |  |  |  |  |  |  |
| IO1                 | ○ Din1 (active high): digital input                                                                          | active: applied voltage 3.5-50VDC, SELV<br>not active: pin open or applied voltage < 1.5VDC                                                                               | D158 [0]                                    | ○                                         | switch: fan enable / disable                              | D16A [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |
|                     | ○ Ain1 0-10V/PWM: analog input                                                                               | RI = 100K, characteristic curve parameterizable, f <sub>PWM</sub> = 1k..10KHz, SELV                                                                                       | D158 [2]                                    | ○                                         | switch: set value source                                  | D16C [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |
|                     | ○ Tach out (open collector output)                                                                           | Umax = 50VDC, Imax = 20mA, SELV                                                                                                                                           | D158 [5]                                    | ○                                         | switch: direction of rotation: cw / ccw                   | D148 [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |
|                     | ○ Diagnostics out (open collector output)                                                                    | Umax = 50VDC, Imax = 20mA, SELV                                                                                                                                           | D158 [6]                                    | ○                                         | switch: control function: heating (pos.) / cooling (neg.) | D12E [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |
| IO2                 | ○ Din2 (active high): digital input                                                                          | active: applied voltage 3.5-50VDC, SELV<br>not active: pin open or applied voltage < 1.5VDC                                                                               | D159 [0]                                    | ○                                         | switch: parameter set: #1 / #2                            | D104 [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |
|                     | ○ Ain2 0-10V/PWM: analog input                                                                               | RI = 100K, characteristic curve parameterizable, f <sub>PWM</sub> = 1k..10KHz, SELV                                                                                       | D159 [2]                                    | ○                                         | source: sensor value                                      | D147 [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |
|                     | ○ Ain2 4-20mA: analog input                                                                                  | RI = 125R, characteristic curve parameterizable, SELV                                                                                                                     | D159 [3]                                    | ○                                         | switch: set value source                                  | D16C [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |
|                     | ○ Din3 (active high): digital input                                                                          | active: applied voltage 3.5-50VDC, SELV<br>not active: pin open or applied voltage < 1.5VDC                                                                               | D15A [0]                                    | ○                                         | switch: fan enable / disable                              | D16A [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |
| IO3                 | ○ Din3 (active low): digital input                                                                           | active: applied voltage < 1.5VDC, SELV<br>not active: pin open or applied voltage 3.5-50VDC                                                                               | D15A [1]                                    | ○                                         | switch: set value source                                  | D16C [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |
|                     | ○ PWMIn3: digital input, idle level high                                                                     | PWM = 40Hz - 10KHz, characteristics parameterizable<br>active: pin open or applied voltage 3.5-50VDC<br>not active: applied voltage < 1.5VDC, SELV                        | D15A [7]                                    | ○                                         | switch: control function: heating (pos.) / cooling (neg.) | D12E [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |
|                     | ○ PWMIn3: digital input, idle level low                                                                      | 40Hz - 10KHz, characteristics parameterizable<br>active: applied voltage 3.5-50VDC<br>not active: pin open or applied voltage < 1.5VDC, SELV                              | D15A [8]                                    | ○                                         | switch: direction of rotation: cw / ccw                   | D148 [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |
|                     | ○ Aout3 0-10V: analog output                                                                                 | function parameterizable, max. 5mA max output frequency 300Hz, SELV<br>0-10V max. 5mA max output frequency 300Hz, SELV<br>0-10V max. 5mA max output frequency 300Hz, SELV | D15A [4]                                    | ○                                         | switch: parameter set: #1 / #2                            | D104 [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |
| RSA<br>RSB          | ○ Tacho out (pulses), analog output                                                                          | 0-10V max. 5mA max output frequency 300Hz, SELV                                                                                                                           | D15A [5]                                    | ○                                         | switch: set value source                                  | D16C [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |
|                     | ○ Diagnostics out (pulses)                                                                                   | 0-10V max. 5mA max output frequency 300Hz, SELV                                                                                                                           | D15A [6]                                    | ○                                         | switch: control function: heating (pos.) / cooling (neg.) | D12E [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |
| Vout                | ○ RS485 bus connection,                                                                                      | MODBUS RTU, specification V6.3, SELV                                                                                                                                      |                                             | ○                                         | switch: fan enable / disable                              | D16A [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |
|                     | ○ voltage output                                                                                             | voltage parameterizable 3.3..24VDC +/- 5%, Pmax=800mW, short-circuit-proof, supply for external devices, SELV                                                             | D16E [...]                                  | ○                                         | switch: set value source                                  | D16C [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |
| Vout                | ○ alternatively: Input auxiliary power supply for parameterization via RS485/MODBUS RTU without line voltage | 15..50VDC                                                                                                                                                                 |                                             | ○                                         | switch: control function: heating (pos.) / cooling (neg.) | D12E [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |
|                     | ○ voltage                                                                                                    |                                                                                                                                                                           |                                             | ○                                         | switch: parameter set: #1 / #2                            | D104 [...]           | (selected directly via IO mode) | D130 [0] | signal: fan modulation level % | D130 [1] | signal: actual speed | D130 [2] | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [4] | pulse output for auto-addressing | D130 [1] | ○ | pulse input for auto-addressing | D130 [4] |  |  |  |  |  |  |  |  |  |  |



## Curves: Air performance 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-205782-1

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

|    | Wired | U   | f  | n                 | P <sub>ed</sub> | I    | LpA <sub>in</sub> | LwA <sub>in</sub> | LwA <sub>out</sub> | q <sub>V</sub>    | p <sub>fs</sub> | q <sub>V</sub> | p <sub>fs</sub> |
|----|-------|-----|----|-------------------|-----------------|------|-------------------|-------------------|--------------------|-------------------|-----------------|----------------|-----------------|
|    |       | V   | Hz | min <sup>-1</sup> | W               | A    | dB(A)             | dB(A)             | dB(A)              | m <sup>3</sup> /h | Pa              | cfm            | in. wg          |
| 1  | 3~    | 400 | 50 | 3230              | 1761            | 2.77 | 94                | 100               | 101                | 7955              | 0               | 4680           | 0.00            |
| 2  | 3~    | 400 | 50 | 3230              | 2498            | 3.85 | 83                | 90                | 94                 | 6715              | 700             | 3950           | 2.81            |
| 3  | 3~    | 400 | 50 | 3230              | 2900            | 4.40 | 76                | 85                | 91                 | 4925              | 1300            | 2900           | 5.22            |
| 4  | 3~    | 400 | 50 | 3230              | 2688            | 4.13 | 79                | 88                | 93                 | 3080              | 1700            | 1810           | 6.82            |
| 5  | 3~    | 400 | 50 | 2800              | 1148            | 1.80 | 90                | 97                | 97                 | 6895              | 0               | 4060           | 0.00            |
| 6  | 3~    | 400 | 50 | 2800              | 1608            | 2.48 | 79                | 86                | 90                 | 5800              | 523             | 3415           | 2.10            |
| 7  | 3~    | 400 | 50 | 2800              | 1863            | 2.86 | 73                | 81                | 87                 | 4270              | 973             | 2515           | 3.91            |
| 8  | 3~    | 400 | 50 | 2800              | 1717            | 2.64 | 76                | 84                | 89                 | 2650              | 1260            | 1560           | 5.06            |
| 9  | 3~    | 400 | 50 | 2400              | 723             | 1.14 | 86                | 93                | 93                 | 5910              | 0               | 3480           | 0.00            |
| 10 | 3~    | 400 | 50 | 2400              | 1013            | 1.56 | 75                | 82                | 86                 | 4970              | 384             | 2925           | 1.54            |
| 11 | 3~    | 400 | 50 | 2400              | 1173            | 1.80 | 69                | 77                | 83                 | 3660              | 715             | 2155           | 2.87            |
| 12 | 3~    | 400 | 50 | 2400              | 1082            | 1.66 | 72                | 80                | 85                 | 2275              | 926             | 1340           | 3.72            |
| 13 | 3~    | 400 | 50 | 2000              | 418             | 0.66 | 82                | 88                | 89                 | 4925              | 0               | 2900           | 0.00            |
| 14 | 3~    | 400 | 50 | 2000              | 586             | 0.90 | 70                | 78                | 82                 | 4140              | 267             | 2440           | 1.07            |
| 15 | 3~    | 400 | 50 | 2000              | 679             | 1.04 | 64                | 72                | 79                 | 3050              | 496             | 1795           | 1.99            |
| 16 | 3~    | 400 | 50 | 2000              | 626             | 0.96 | 67                | 76                | 81                 | 1895              | 643             | 1115           | 2.58            |

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P<sub>ed</sub> = Power consumption · I = Current draw · LpA<sub>in</sub> = Sound pressure level intake side · LwA<sub>in</sub> = Sound power level intake side  
LwA<sub>out</sub> = Sound power level outlet side · q<sub>V</sub> = Air flow · p<sub>fs</sub> = Pressure increase

