

8300100094  
VBH0630CTTPS

# EC centrifugal module - RadiPac

backward-curved, single-intake  
with support bracket

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General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

## Nominal data

|                          |                   |            |
|--------------------------|-------------------|------------|
| Item                     | 8300100094        |            |
| Motor                    | E15031-85         |            |
| 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> | 1630       |
| Power consumption        | W                 | 3720       |
| Current draw             | A                 | 5.7        |
| Min. ambient temperature | °C                | -40        |
| Max. ambient temperature | °C                | 40         |

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 $\eta_{es}$ | % | 75     | 57.4      | 09 Power consumption $P_{ed}$ | kW                | 3.63  |
| 02 Measurement category           |   | A      |           | 09 Air flow $q_v$             | m <sup>3</sup> /h | 13670 |
| 03 Efficiency category            |   | Static |           | 09 Pressure increase $p_{fs}$ | Pa                | 687   |
| 04 Efficiency grade N             |   | 79.6   | 62        | 10 Speed (rpm) n              | min <sup>-1</sup> | 1630  |
| 05 Variable speed drive           |   | Yes    |           | 11 Specific ratio*            |                   | 1.01  |

Data obtained at optimum efficiency level.

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

LU-228938

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).

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## Technical description

|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight                                                                     | 49.8 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Size                                                                       | 630 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Motor size                                                                 | 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Rotor surface                                                              | Painted black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Electronics housing material                                               | Die-cast aluminum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Impeller material                                                          | PP plastic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Support plate material                                                     | Sheet steel, galvanized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Support bracket material                                                   | Steel, painted black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Inlet nozzle material                                                      | ABS plastic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 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                                                      | See legend on product drawing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 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> <li>- Vibration sensor</li> </ul> |
| Power Factor Correction (PFC)                                              | Passive (through low-capacitance DC link)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| EMC immunity to interference                                               | According to EN 61000-6-2 (industrial environment)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| EMC interference emission                                                  | According to EN 61000-6-3 (household environment), except EN 61000-3-2 for professionally used equipment with a total rated power greater than 1 kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system) | <= 3.5 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Electrical hookup                                                          | Terminal box                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Motor protection                                                           | Electronic motor protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|                             |                                                                                                                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protection class assignment | I; If a protective earth is connected.<br>The built-in component has several local protection class assignments.<br>The final protection class is determined by the intended installation. |
| Conformity with standards   | EN 61800-5-1; CE; UKCA                                                                                                                                                                     |
| Approval                    | CSA C22.2 No. 77 + CAN/CSA-E60730-1; EAC; UL 1004-7 + 60730-1                                                                                                                              |

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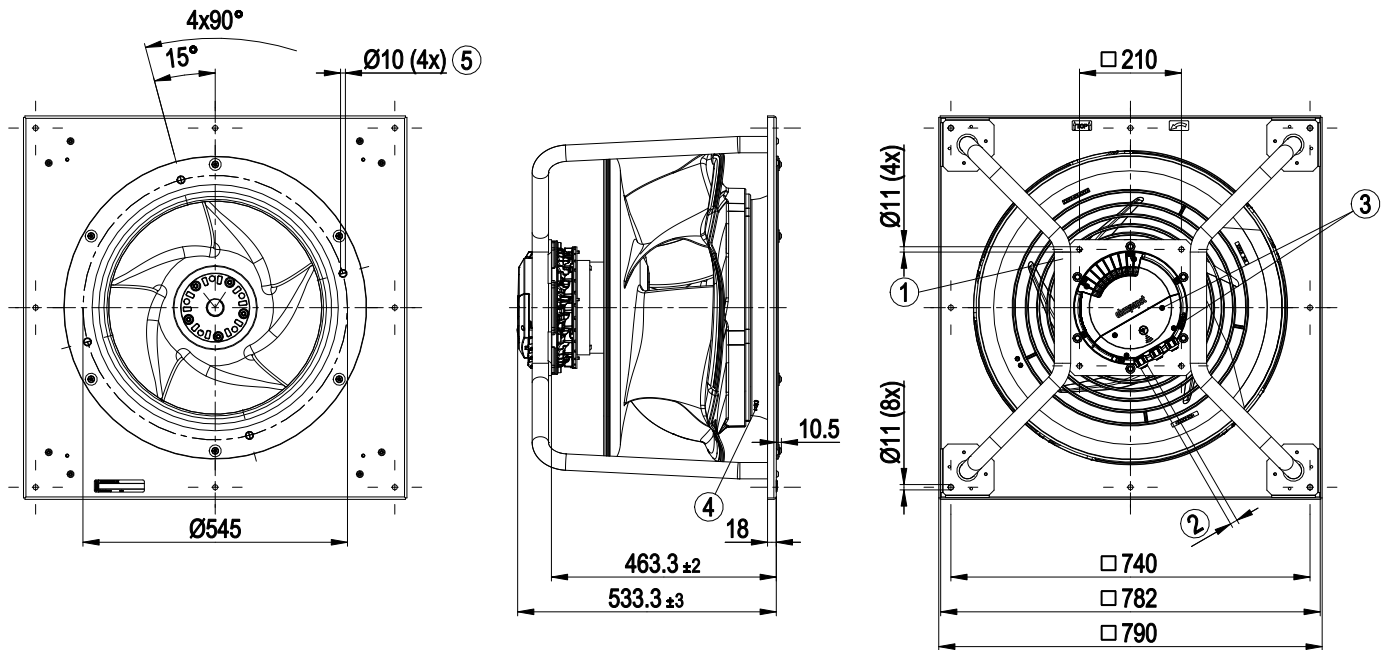
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## Product drawing

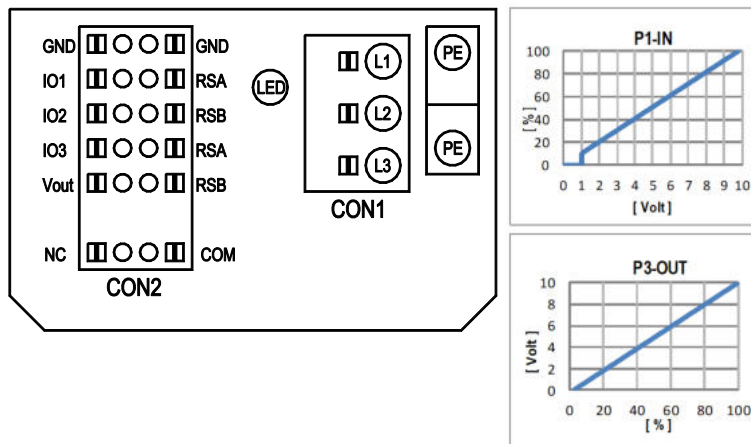


|   |                                                                                                                                                                                                                   |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Installed position: shaft horizontal (install support struts only vertically as illustrated) or rotor on bottom; rotor on top on request                                                                          |
| 2 | 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) |
| 3 | Tightening torque $1.5 \pm 0.2$ Nm                                                                                                                                                                                |
| 4 | Inlet ring with pressure tap (k-factor: 463)                                                                                                                                                                      |
| 5 | Fastening holes for FlowGrid 00630-2-2957 (not included in scope of delivery) are provided and must be subsequently opened as required                                                                            |

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## 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: Actual speed<br>Characteristic curve parametrizable (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

|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             |                                 |                                 |                                                           |                                |                                         |                                   |                                     |                                     |                                                           |                                 |                                         |                                        |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| ○ configurable option             |                                                                                                            |                                                                                             | configurable IO functions: normal / inverse | MODBUS Register for IO mode configuration                                                   | OUTPUT                          |                                 |                                                           |                                |                                         |                                   |                                     |                                     |                                                           |                                 |                                         |                                        |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             | INPUT                           |                                 |                                                           |                                |                                         |                                   |                                     |                                     |                                                           |                                 |                                         |                                        |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             |                                 |                                 |                                                           |                                |                                         |                                   |                                     |                                     |                                                           |                                 |                                         |                                        |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CON2                              | configurable IO mode                                                                                       | electrical specification                                                                    | 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 [10]                         | signal: fan modulation level %      | D130 [11]                           | signal: actual speed                                      | D130 [12]                       | signal: system modulation level %       | D130 [5]                               | signal: remote control output 0-10V                                                                                                                | D130 [1]                                                                            | pulse input for auto-addressing | D130 [4]                            | pulse output for auto-addressing |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             | D158 [2]                        | ○                               | switch: control function: heating (pos.) / cooling (neg.) | D148 [...]                     | switch: direction of rotation: cw / ccw | D16C [...]                        | switch: tach out                    | (selected directly via IO mode)     | D130 [0]                                                  | signal: diagnostics out         | D130 [1]                                | signal: fan modulation level %         | D130 [11]                                                                                                                                          | signal: system modulation level %                                                   | D130 [5]                        | signal: remote control output 0-10V | D130 [1]                         | pulse input for auto-addressing  | D130 [4]                          |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             | D158 [5]                        | ○                               | switch: parameter set: #1 / #2                            | D104 [...]                     | source: sensor value                    | D147 [...]                        | switch: parameter set: #1 / #2      | D104 [...]                          | switch: control function: heating (pos.) / cooling (neg.) | D148 [...]                      | switch: direction of rotation: cw / ccw | D16C [...]                             | switch: fan enable / disable                                                                                                                       | D16A [...]                                                                          | (selected directly via IO mode) | D130 [0]                            | signal: fan modulation level %   | D130 [11]                        | signal: system modulation level % | D130 [5]                                                                            | signal: remote control output 0-10V | D130 [1]                          |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             | D158 [6]                        | ○                               | source: set value                                         | D101 [...]                     | source: sensor value                    | D147 [...]                        | switch: parameter set: #1 / #2      | D104 [...]                          | switch: control function: heating (pos.) / cooling (neg.) | D148 [...]                      | switch: direction of rotation: cw / ccw | D16C [...]                             | switch: fan enable / disable                                                                                                                       | D16A [...]                                                                          | (selected directly via IO mode) | D130 [0]                            | signal: fan modulation level %   | D130 [11]                        | signal: system modulation level % | D130 [5]                                                                            | signal: remote control output 0-10V | D130 [1]                          |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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]                                    | active: applied voltage 3.5-50VDC, SELV<br>not active: pin open or applied voltage < 1.5VDC | D158 [2]                        | ○                               | switch: control function: heating (pos.) / cooling (neg.) | D148 [...]                     | switch: direction of rotation: cw / ccw | D16C [...]                        | switch: tach out                    | (selected directly via IO mode)     | D130 [0]                                                  | signal: fan modulation level %  | D130 [11]                               | signal: system modulation level %      | D130 [5]                                                                                                                                           | signal: remote control output 0-10V                                                 | D130 [1]                        | pulse input for auto-addressing     | D130 [4]                         | pulse output for auto-addressing |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             |                                 |                                 |                                                           |                                |                                         |                                   |                                     |                                     |                                                           |                                 |                                         |                                        |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  | Ain1 0-10V/PWM: analog input      | RI = 100K, characteristic curve parameterizable, f <sub>PWM</sub> = 1k..10KHz, SELV | D158 [2]                            | ○                                 | switch: fan enable / disable        | D16A [...]                          | (selected directly via IO mode) | D130 [0]                        | signal: fan modulation level %   | D130 [11]                              | signal: system modulation level %                                                                                                            | D130 [5]                                              | signal: remote control output 0-10V | D130 [1]         | pulse input for auto-addressing | D130 [4]                        | pulse output for auto-addressing |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             |                                 |                                 |                                                           |                                |                                         |                                   |                                     |                                     |                                                           |                                 |                                         |                                        |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  | Tach out (open collector output) | Umax = 50VDC, Imax = 20mA, SELV   | D158 [5]                          | ○                                   | switch: tach out                    | (selected directly via IO mode) | D130 [0]                        | signal: fan modulation level %   | D130 [11]                        | signal: system modulation level %                                   | D130 [5]                                                                                                      | signal: remote control output 0-10V | D130 [1]         | pulse input for auto-addressing | D130 [4]                        | pulse output for auto-addressing |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             |                                 |                                 |                                                           |                                |                                         |                                   |                                     |                                     |                                                           |                                 |                                         |                                        |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  | Diagnostics out (open collector output) | Umax = 50VDC, Imax = 20mA, SELV   | D158 [6]                          | ○                                   | switch: tach out                    | (selected directly via IO mode) | D130 [0]                        | signal: fan modulation level %   | D130 [11]                        | signal: system modulation level % | D130 [5] | signal: remote control output 0-10V | D130 [1] | pulse input for auto-addressing | D130 [4] | pulse output for auto-addressing |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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: fan enable / disable                                                                | D16A [...]                      | (selected directly via IO mode) | D130 [0]                                                  | signal: fan modulation level % | D130 [11]                               | signal: system modulation level % | D130 [5]                            | signal: remote control output 0-10V | D130 [1]                                                  | pulse input for auto-addressing | D130 [4]                                | pulse output for auto-addressing       |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             |                                 |                                 |                                                           |                                |                                         |                                   |                                     |                                     |                                                           |                                 |                                         |                                        | Ain2 0-10V/PWM: analog input                                                                                                                       | RI = 100K, characteristic curve parameterizable, f <sub>PWM</sub> = 1k..10KHz, SELV | D159 [2]                        | ○                                   | switch: tach out                 | (selected directly via IO mode)  | D130 [0]                          | signal: fan modulation level %                                                      | D130 [11]                           | signal: system modulation level % | D130 [5]                            | signal: remote control output 0-10V | D130 [1]                        | pulse input for auto-addressing | D130 [4]                         | pulse output for auto-addressing       |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             |                                 |                                 |                                                           |                                |                                         |                                   |                                     |                                     |                                                           |                                 |                                         |                                        |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        | Ain2 4-20mA: analog input                                                                                                                    | RI = 125R, characteristic curve parameterizable, SELV | D159 [3]                            | ○                | switch: tach out                | (selected directly via IO mode) | D130 [0]                         | signal: fan modulation level %   | D130 [11]                         | signal: system modulation level % | D130 [5]                            | signal: remote control output 0-10V | D130 [1]                        | pulse input for auto-addressing | D130 [4]                         | pulse output for auto-addressing |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             |                                 |                                 |                                                           |                                |                                         |                                   |                                     |                                     |                                                           |                                 |                                         |                                        |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  | 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: tach out                | (selected directly via IO mode) | D130 [0]                         | signal: fan modulation level %          | D130 [11]                         | signal: system modulation level % | D130 [5]                            | signal: remote control output 0-10V | D130 [1]                        | pulse input for auto-addressing | D130 [4]                         | pulse output for auto-addressing |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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: tach out                                                                            | (selected directly via IO mode) | D130 [0]                        | signal: fan modulation level %                            | D130 [11]                      | signal: system modulation level %       | D130 [5]                          | signal: remote control output 0-10V | D130 [1]                            | pulse input for auto-addressing                           | D130 [4]                        | pulse output for auto-addressing        |                                        |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             |                                 |                                 |                                                           |                                |                                         |                                   |                                     |                                     |                                                           |                                 |                                         | 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: tach out                    | (selected directly via IO mode)  | D130 [0]                         | signal: fan modulation level %    | D130 [11]                                                                           | signal: system modulation level %   | D130 [5]                          | signal: remote control output 0-10V | D130 [1]                            | pulse input for auto-addressing | D130 [4]                        | pulse output for auto-addressing |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             |                                 |                                 |                                                           |                                |                                         |                                   |                                     |                                     |                                                           |                                 |                                         |                                        |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  | PWMMin3: 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: tach out | (selected directly via IO mode) | D130 [0]                        | signal: fan modulation level %   | D130 [11]                        | signal: system modulation level % | D130 [5]                          | signal: remote control output 0-10V | D130 [1]                            | pulse input for auto-addressing | D130 [4]                        | pulse output for auto-addressing |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             |                                 |                                 |                                                           |                                |                                         |                                   |                                     |                                     |                                                           |                                 |                                         |                                        |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  | Aout3 0-10V: analog output       | function parameterizable, max. 5mA max output frequency 300Hz, SELV | D15A [4]                                                                                                      | ○                                   | switch: tach out | (selected directly via IO mode) | D130 [0]                        | signal: fan modulation level %   | D130 [11]                               | signal: system modulation level % | D130 [5]                          | signal: remote control output 0-10V | D130 [1]                            | pulse input for auto-addressing | D130 [4]                        | pulse output for auto-addressing |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tacho out (pulses), analog output | 0-10V max. 5mA max output frequency 300Hz, SELV                                                            | D15A [5]                                                                                    | ○                                           | switch: tach out                                                                            | (selected directly via IO mode) | D130 [0]                        | signal: fan modulation level %                            | D130 [11]                      | signal: system modulation level %       | D130 [5]                          | signal: remote control output 0-10V | D130 [1]                            | pulse input for auto-addressing                           | D130 [4]                        | pulse output for auto-addressing        |                                        |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             |                                 |                                 |                                                           |                                |                                         |                                   |                                     |                                     |                                                           |                                 |                                         | Diagnostics out (pulses)               | 0-10V max. 5mA max output frequency 300Hz, SELV                                                                                                    | D15A [6]                                                                            | ○                               | switch: tach out                    | (selected directly via IO mode)  | D130 [0]                         | signal: fan modulation level %    | D130 [11]                                                                           | signal: system modulation level %   | D130 [5]                          | signal: remote control output 0-10V | D130 [1]                            | pulse input for auto-addressing | D130 [4]                        | pulse output for auto-addressing |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             |                                 |                                 |                                                           |                                |                                         |                                   |                                     |                                     |                                                           |                                 |                                         |                                        |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  | RSA                                    | RS485 bus connection,                                                                                                                        | MODBUS RTU, specification V6.3, SELV                  | ○                                   | switch: tach out | (selected directly via IO mode) | D130 [0]                        | signal: fan modulation level %   | D130 [11]                        | signal: system modulation level % | D130 [5]                          | signal: remote control output 0-10V | D130 [1]                            | pulse input for auto-addressing | D130 [4]                        | pulse output for auto-addressing |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             |                                 |                                 |                                                           |                                |                                         |                                   |                                     |                                     |                                                           |                                 |                                         |                                        |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  | RSB                              | voltage output                                                      | voltage parameterizable 3.3..24VDC +/- 5%, Pmax=800mW, short-circuit-proof, supply for external devices, SELV | D16E [...]                          | switch: tach out | (selected directly via IO mode) | D130 [0]                        | signal: fan modulation level %   | D130 [11]                               | signal: system modulation level % | D130 [5]                          | signal: remote control output 0-10V | D130 [1]                            | pulse input for auto-addressing | D130 [4]                        | pulse output for auto-addressing |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vout                              | alternatively: Input auxiliary power supply for parameterization via RS485/MODBUS RTU without line voltage | 15...50VDC                                                                                  | ○                                           | switch: tach out                                                                            | (selected directly via IO mode) | D130 [0]                        | signal: fan modulation level %                            | D130 [11]                      | signal: system modulation level %       | D130 [5]                          | signal: remote control output 0-10V | D130 [1]                            | pulse input for auto-addressing                           | D130 [4]                        | pulse output for auto-addressing        |                                        |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |                                                                                                            |                                                                                             |                                             |                                                                                             |                                 |                                 |                                                           |                                |                                         |                                   |                                     |                                     |                                                           |                                 |                                         |                                        |                                                                                                                                                    |                                                                                     |                                 |                                     |                                  |                                  |                                   |                                                                                     |                                     |                                   |                                     |                                     |                                 |                                 |                                  |                                        |                                                                                                                                              |                                                       |                                     |                  |                                 |                                 |                                  |                                  |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                                                     |                                                                                                               |                                     |                  |                                 |                                 |                                  |                                         |                                   |                                   |                                     |                                     |                                 |                                 |                                  |                                  |                                   |          |                                     |          |                                 |          |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

8300100094

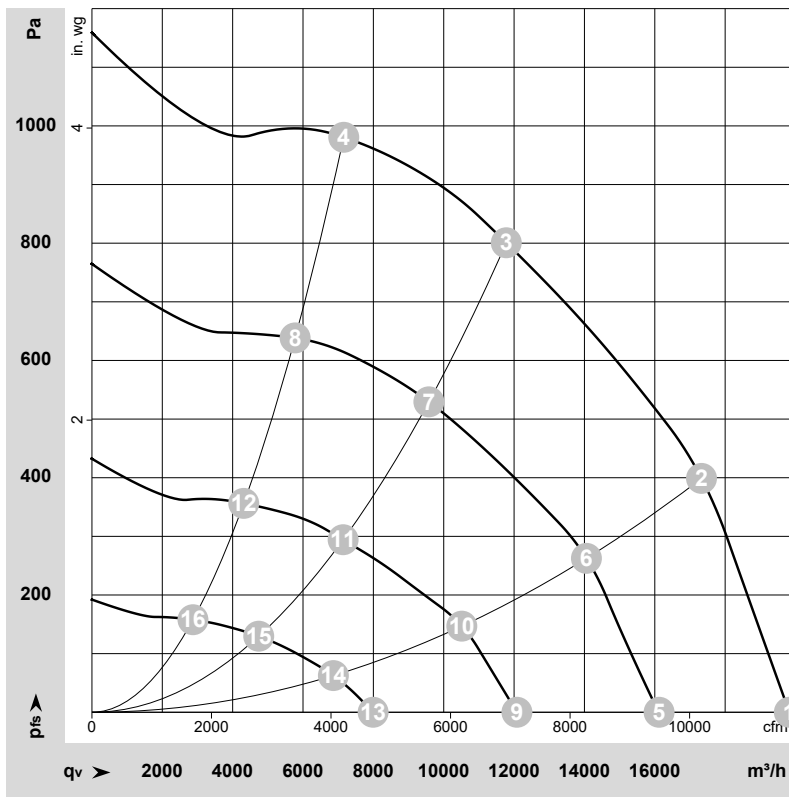
VBH0630CTTPS

# EC centrifugal module - RadiPac

backward-curved, single-intake

with support bracket

## Curves: Air performance 50 Hz



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

Measurement: LU-228938-1

Date: 2023-09-22

Nozzle: 8217101925

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>e</sub> | I    | LpA <sub>in</sub> | LwA <sub>in</sub> | LwA <sub>out</sub> | LwA | 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)              | dB  | m³/h           | Pa              | cfm            | in. wg          |
| 1  | 3~    | 400 | 50 | 1630              | 2249           | 3.50 | 85                | 92                | 95                 | 96  | 19825          | 0               | 11670          | 0.00            |
| 2  | 3~    | 400 | 50 | 1630              | 3245           | 4.98 | 78                | 86                | 89                 | 91  | 17330          | 410             | 10200          | 1.65            |
| 3  | 3~    | 400 | 50 | 1630              | 3720           | 5.70 | 70                | 78                | 83                 | 84  | 11780          | 800             | 6930           | 3.21            |
| 4  | 3~    | 400 | 50 | 1630              | 3374           | 5.17 | 74                | 81                | 86                 | 87  | 7160           | 980             | 4215           | 3.93            |
| 5  | 3~    | 400 | 50 | 1320              | 1235           | 2.03 | 77                | 85                | 88                 | 90  | 16120          | 0               | 9490           | 0.00            |
| 6  | 3~    | 400 | 50 | 1320              | 1743           | 2.76 | 72                | 80                | 83                 | 85  | 14055          | 274             | 8275           | 1.10            |
| 7  | 3~    | 400 | 50 | 1320              | 2003           | 3.14 | 64                | 72                | 77                 | 79  | 9580           | 532             | 5635           | 2.14            |
| 8  | 3~    | 400 | 50 | 1320              | 1806           | 2.86 | 68                | 75                | 80                 | 81  | 5775           | 639             | 3400           | 2.57            |
| 9  | 3~    | 400 | 50 | 990               | 561            | 1.13 | 69                | 77                | 81                 | 83  | 12080          | 0               | 7110           | 0.00            |
| 10 | 3~    | 400 | 50 | 990               | 789            | 1.42 | 64                | 72                | 76                 | 78  | 10515          | 153             | 6190           | 0.61            |
| 11 | 3~    | 400 | 50 | 990               | 873            | 1.53 | 56                | 64                | 69                 | 70  | 7140           | 294             | 4200           | 1.18            |
| 12 | 3~    | 400 | 50 | 990               | 787            | 1.41 | 58                | 66                | 70                 | 71  | 4315           | 356             | 2540           | 1.43            |
| 13 | 3~    | 400 | 50 | 660               | 201            | 0.57 | 59                | 68                | 71                 | 73  | 7995           | 0               | 4705           | 0.00            |
| 14 | 3~    | 400 | 50 | 660               | 252            | 0.66 | 53                | 62                | 66                 | 68  | 6865           | 64              | 4040           | 0.26            |
| 15 | 3~    | 400 | 50 | 660               | 286            | 0.72 | 46                | 54                | 59                 | 60  | 4740           | 130             | 2790           | 0.52            |
| 16 | 3~    | 400 | 50 | 660               | 262            | 0.67 | 46                | 54                | 58                 | 60  | 2870           | 158             | 1690           | 0.63            |

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P<sub>e</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