

# Vpro-ECblue

for single phase alternating current, 200-277 V

RH28V-6IP



### Description

Motor technology: EC

Rated voltage U: 1~200-277 V\*

Rated frequency  $f$ : 50/60 Hz\*

Motor input power  $P$ : 0.17 kW

Rated current  $I$ : 1.30-0.94 A\*

Rated speed n: 2300 min<sup>-1</sup>

Rated speed n: 2300 min<sup>-1</sup>  
Thermal class: **THCL155\***

Min. permitted ambient temperature  $t_a$ : - 5 °C

Max. permitted ambient temperature  $t_{\text{a at n}}$  : 60 °C

Electrical connection: Integrated controller with attached

Electrical connection: integrated controller with attached cable

Number of blades : 6

Balancing quality: G 6.3

Protection class: IP44

Motor protection: Integrated active temperature management

Impeller : High Performance Composite Material, uncoated,

black

Conformity: ErP 2015, CE

## ErP-data

Efficiency  $\eta_{\text{statA}}$ : 43.6 %

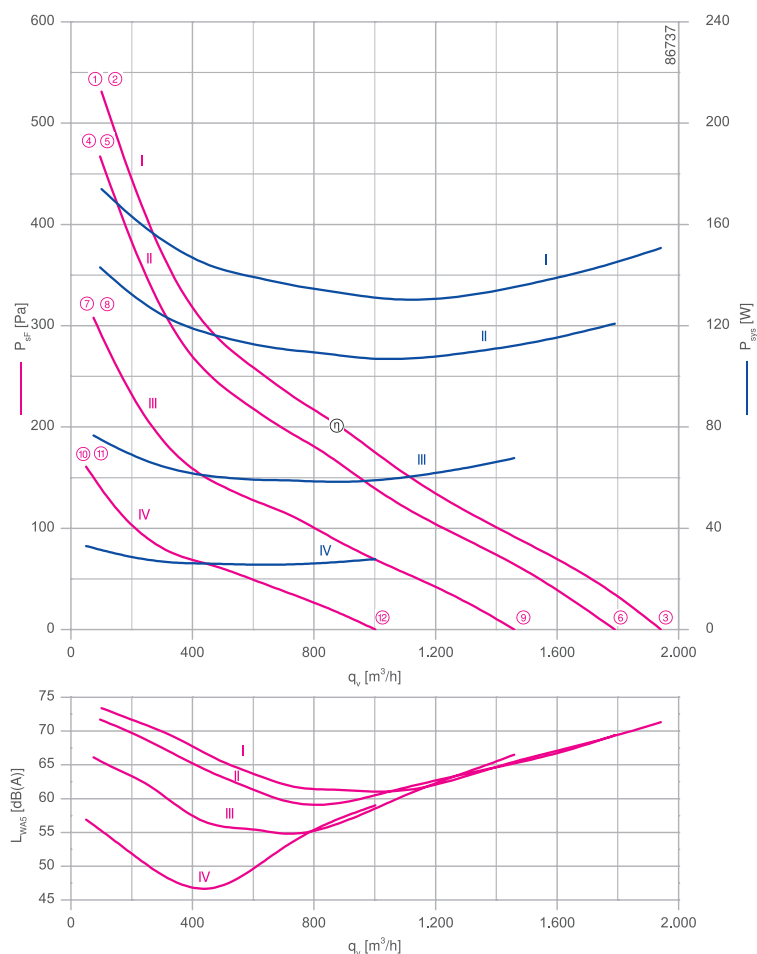
Efficiency:  $N_{\text{actual}} = 63.3 / N_{\text{target}} = 62^{**}$

EC controller integrated

\*Rated data

\*\*ErP 2015

### Characteristic curve

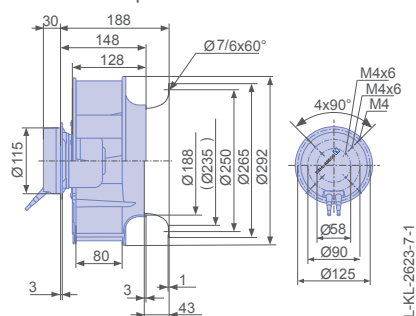


measured with inlet ring, without guard grille according to ISO 5801

- |                      |          |          |
|----------------------|----------|----------|
| ➤ Inlet ring         | 00275848 | Page 450 |
| ➤ Connection diagram | KT00036A | Page 547 |
| ➤ System components  |          | Page 448 |

Dimensions [mm]

Free-running motor impeller RH  
in installation position H/Vu/Vo



Performance data

| Type            | Characteristic curve | Speed<br><br>% | Operating point | Current  | Motor input power       | Suction side sound<br>power level |
|-----------------|----------------------|----------------|-----------------|----------|-------------------------|-----------------------------------|
|                 |                      |                |                 | I<br>[A] | P <sub>sys</sub><br>[W] | L <sub>WA5</sub><br>[dB]          |
| RH28V-6IP.0E.1R | I                    | 100            | ①               | 1.15     | 170                     | 73                                |
|                 |                      |                | ②               | 1.15     | 170                     | 73                                |
|                 |                      |                | ③               | 1.00     | 150                     | 71                                |
|                 | II                   | 80             | ④               | 0.94     | 140                     | 72                                |
|                 |                      |                | ⑤               | 0.94     | 140                     | 72                                |
|                 |                      |                | ⑥               | 0.82     | 120                     | 69                                |
|                 | III                  | 60             | ⑦               | 0.56     | 75                      | 66                                |
|                 |                      |                | ⑧               | 0.56     | 75                      | 66                                |
|                 |                      |                | ⑨               | 0.50     | 70                      | 67                                |
|                 | IV                   | 40             | ⑩               | 0.26     | 34                      | 57                                |
|                 |                      |                | ⑪               | 0.26     | 34                      | 57                                |
|                 |                      |                | ⑫               | 0.23     | 28                      | 59                                |

Current values determined at 230V

Fan ordering information

|                                                                                   |                        |
|-----------------------------------------------------------------------------------|------------------------|
| Design                                                                            | RH*                    |
| Installation position                                                             | H/Vu/Vo                |
|  |                        |
| Type                                                                              | <b>RH28V-6IP.0E.1R</b> |
| Basic electronics                                                                 |                        |
| Article no.                                                                       | <b>113389</b>          |
| Weight [kg]                                                                       | 3.10                   |
| * Inlet ring not included                                                         |                        |

Control technology

|                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Control module                                                                      | Operating terminal                                                                  | Expansion module                                                                    |
|  |  |  |
| ➤ Page 464                                                                          | ➤ Page 476                                                                          | ➤ Page 473                                                                          |



# Vpro-ECblue

for single phase alternating current, 200-277 V

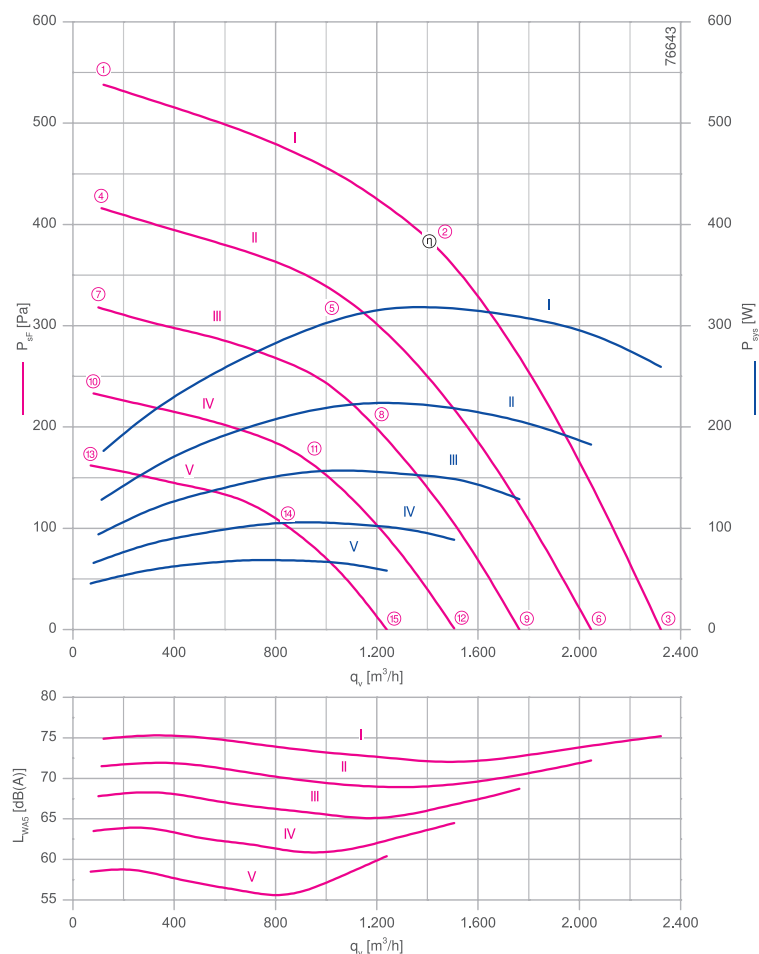
RH28V-6IK



## Description

Motor technology: EC  
Rated voltage U: 1~200-277 V\*  
Rated frequency f: 50/60 Hz\*  
Motor input power P: 0.32 kW\*  
Rated current I: 1.70-1.20 A\*  
Rated speed n: 2270 min<sup>-1</sup>\*  
Thermal class: THCL155\*  
Min. permitted conveyor temperature t<sub>R</sub>: -15 °C  
Max. permitted conveyor temperature t<sub>R</sub> at n<sub>max</sub>: 60 °C  
Electrical connection: Integrated controller with attached cable  
Number of blades : 6  
Balancing quality: G 6.3  
Protection class: IP54  
Motor protection: Integrated active temperature management  
Impeller : High Performance Composite Material, uncoated, black  
Conformity: ErP 2015, CE  
**ErP-data**  
Efficiency η<sub>statA</sub>: 54.3 %  
Efficiency: N<sub>actual</sub> = 70.0 / N<sub>target</sub> = 62\*\*  
EC controller integrated  
\*Rated data  
\*\*ErP 2015

## Characteristic curve

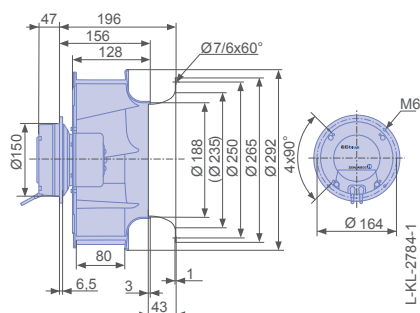


measured with inlet ring, without guard grille according to ISO 5801

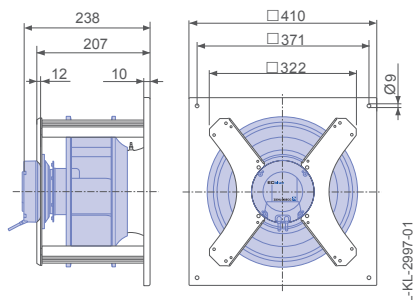
|                      |          |          |
|----------------------|----------|----------|
| ➤ Inlet ring         | 00275848 | Page 450 |
| ➤ Connection diagram | KT00044A | Page 547 |
| ➤ System components  |          | Page 448 |

## Dimensions [mm]

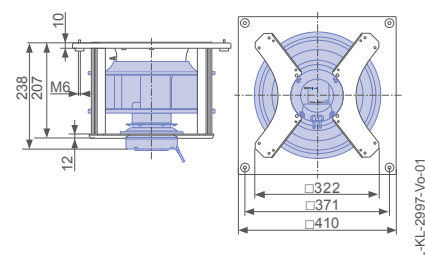
Free-running motor impeller RH  
in installation position H/Vu/Vo



Ventilation unit GR in installation position H



Ventilation unit GR in installation position Vo

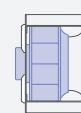
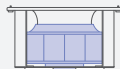


## Performance data

| Type                   | Characteristic curve | Speed                     | Operating point | Current  | Motor input power       | Suction side sound power level |
|------------------------|----------------------|---------------------------|-----------------|----------|-------------------------|--------------------------------|
|                        |                      | n<br>[min <sup>-1</sup> ] |                 | I<br>[A] | P <sub>sys</sub><br>[W] | L <sub>WA5</sub><br>[dB]       |
| <b>__28V-6IK.BF.1R</b> | <b>I</b>             | 2270                      | ①               | 0.84     | 180                     | 75                             |
|                        |                      | 2270                      | ②               | 1.45     | 320                     | 72                             |
|                        |                      | 2270                      | ③               | 1.20     | 260                     | 75                             |
|                        | <b>II</b>            | 2000                      | ④               | 0.64     | 130                     | 72                             |
|                        |                      | 2000                      | ⑤               | 1.05     | 220                     | 69                             |
|                        |                      | 2000                      | ⑥               | 0.88     | 180                     | 72                             |
|                        | <b>III</b>           | 1750                      | ⑦               | 0.48     | 95                      | 68                             |
|                        |                      | 1750                      | ⑧               | 0.76     | 160                     | 66                             |
|                        |                      | 1750                      | ⑨               | 0.64     | 130                     | 69                             |
|                        | <b>IV</b>            | 1500                      | ⑩               | 0.36     | 65                      | 64                             |
|                        |                      | 1500                      | ⑪               | 0.54     | 110                     | 61                             |
|                        |                      | 1500                      | ⑫               | 0.46     | 90                      | 65                             |
|                        | <b>V</b>             | 1250                      | ⑬               | 0.27     | 46                      | 59                             |
|                        |                      | 1250                      | ⑭               | 0.38     | 70                      | 56                             |
|                        |                      | 1250                      | ⑮               | 0.33     | 60                      | 60                             |

Current values determined at 230V

## Fan ordering information

| Design                    | RH*                                                                               | GR**                                                                              | GR**                                                                              | GR**                                                                              |
|---------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Installation position     | H/Vu/Vo                                                                           | H                                                                                 | Vo                                                                                | Vu                                                                                |
|                           |  |  |  |  |
| <b>Type</b>               | <b>RH28V-6IK.BF.1R</b>                                                            | <b>GR28V-6IK.BF.1R</b>                                                            | <b>GR28V-6IK.BF.1R</b>                                                            | <b>GR28V-6IK.BF.1R</b>                                                            |
| Basic electronics         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| <b>Article no.</b>        | <b>113853</b>                                                                     | <b>114947/H01</b>                                                                 | <b>114947/O01</b>                                                                 | <b>114947/U01</b>                                                                 |
| Weight [kg]               | 5.10                                                                              | 10.00                                                                             | 10.00                                                                             | 10.00                                                                             |
| * Inlet ring not included |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| ** Inlet ring integrated  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |

## Control technology

| Control module                                                                      | Operating terminal                                                                  | Expansion module                                                                    |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
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## Ventilation unit GR in installation position Vu

