

# D-series

for single phase alternating current, 4 pole

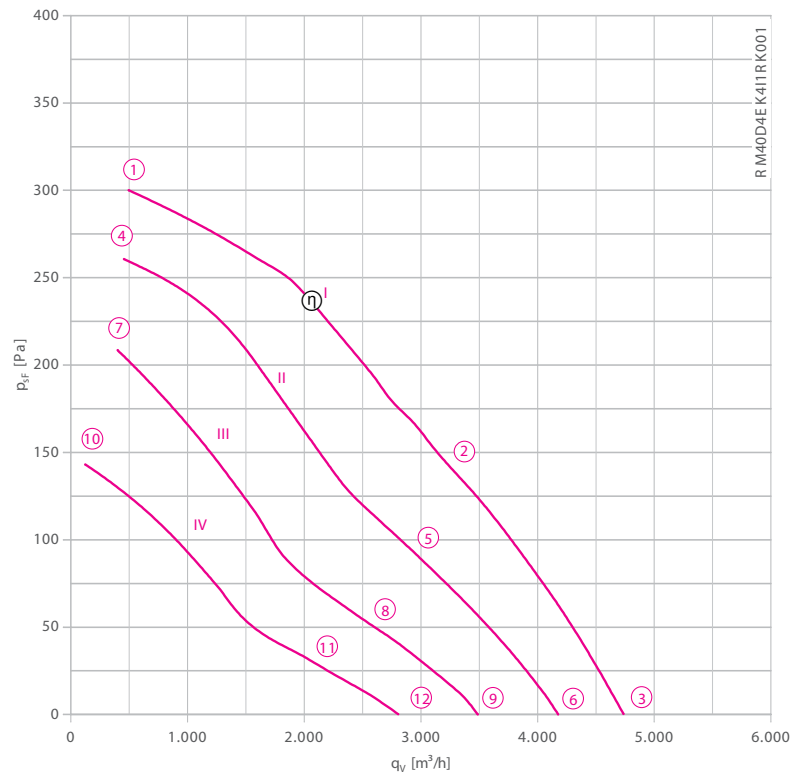
RM40D-4E



## Description

Motor technology: AC  
Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
Rated frequency  $f_N$ : 50 Hz\*  
Motor input power  $P_1$ : 0.52 kW\*  
Rated current  $I_N$ : 2.20 A\*  
Rated speed  $n_N$ : 1280 min<sup>-1</sup>\*  
Service capacitor  $C_{400V}$ : 10.0  $\mu$ F  
Dynamic pressure:  $p_{d2} = 2.8 \cdot 10^{-6} \cdot q_v^2$  [Pa]  
Thermal class: **THCL155**\*  
Min. permitted ambient temperature  $t_{R(min)}$ : - 5 °C  
Protection class: IP54  
Motor protection: Thermal contact  
Impeller : High Performance Composite Material, uncoated, black  
Motor: 1 coat paint, pebble grey  
Conformity: ErP 2013, CE  
**ErP-data**  
Efficiency  $\eta_{statA}$ : 33.3 %  
Efficiency:  $N_{actual} = 47.7 / N_{target} = 47$ \*\*  
\* Rated data  
\*\*ErP 2013

## Characteristic curve

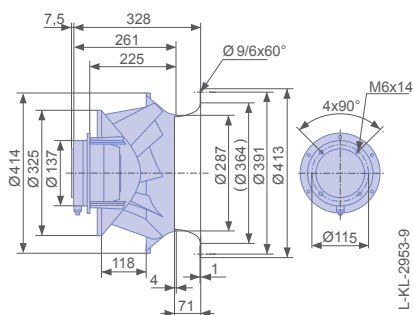


Measured with inlet ring, without guard grille according to ISO 5801

- Inlet ring 00275571 Page 264
- Connection diagram 1360-104XA SW Page 367
- System components Page 262

## Dimensions [mm]

Free running motorised impeller RM  
in installation position H, Vu, Vo

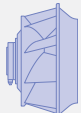


Performance data

| Type            | Characteristic curve | Voltage | Operating point | Current | Motor input power  | Speed                  | Suction side sound power level |
|-----------------|----------------------|---------|-----------------|---------|--------------------|------------------------|--------------------------------|
|                 |                      | U [V]   |                 | I [A]   | P <sub>i</sub> [W] | n [min <sup>-1</sup> ] | L <sub>WAS</sub> [dB]          |
| RM40D-4EK.4I.1R | I                    | 230     | ①               | 1.45    | 340                | 1380                   |                                |
|                 |                      | 230*    | ②               | 2.00*   | 460*               | 1280*                  | 72                             |
|                 |                      | 230     | ③               | 1.80    | 410                | 1320                   | 77                             |
|                 | II                   | 170     | ④               | 1.50    | 250                | 1280                   |                                |
|                 |                      | 170     | ⑤               | 2.10    | 350                | 1090                   | 69                             |
|                 |                      | 170     | ⑥               | 1.85    | 310                | 1170                   | 74                             |
|                 | III                  | 135     | ⑦               | 1.55    | 200                | 1150                   |                                |
|                 |                      | 135     | ⑧               | 2.00    | 260                | 890                    | 63                             |
|                 |                      | 135     | ⑨               | 1.85    | 240                | 990                    | 68                             |
|                 | IV                   | 110     | ⑩               | 1.50    | 160                | 990                    |                                |
|                 |                      | 110     | ⑪               | 1.80    | 185                | 710                    | 56                             |
|                 |                      | 110     | ⑫               | 1.70    | 180                | 800                    | 61                             |

\*rated data

Fan ordering information

|                                                                                   |                              |
|-----------------------------------------------------------------------------------|------------------------------|
| Design                                                                            | RM                           |
| Installation position                                                             | H/Vu/Vo                      |
| Electrical connection                                                             | Supply cable lateral<br>65cm |
|  |                              |
| Type                                                                              | RM40D-4EK.4I.1R              |
| Article no.                                                                       | 112453                       |
| Weight [kg]                                                                       | 9.50                         |
| * Inlet ring not included                                                         |                              |

Control technology

|                                                                                                                                        |                                                                                                                                   |                                                                                                                                          |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency inverter<br>Fcontrol 1~<br><br>➤ Page 296 | Motor protection units<br>1~<br><br>➤ Page 344 | Transformer-based<br>controllers 1~<br><br>➤ Page 334 | Electronic voltage<br>controllers 1~<br><br>➤ Page 310 |
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