

## LNEE 40-160/55/P25VCS4

### Technical data

Company name  
Contact  
Phone number  
e-mail address

#### Operating data

|   |                           |                  |                                            |              |
|---|---------------------------|------------------|--------------------------------------------|--------------|
| 1 | Pumpe type                | Single head pump | Fluid                                      | Water        |
| 2 | No. of pumps              | 1                | Operating temperature t A                  | °C 4         |
| 3 | Nominal flow              | m³/h 0           | Max / Min Operating Temperature mech. Seal | °C 120 / -25 |
| 4 | Nominal head              | m 0              | pH-value at t A                            | 7            |
| 5 | Static head               | m 0              | Density at t A                             | kg/m³ 1000   |
| 6 | Inlet pressure            | kPa 0            | Kin. viscosity at t A                      | mm²/s 1.569  |
| 7 | Environmental temperature | °C 20            | Vapor pressure at t A                      | kPa 100      |
| 8 | Available system NPSH     | m 0              | Altitude                                   | 0            |

#### Pump data

|    |                       |                                    |         |          |
|----|-----------------------|------------------------------------|---------|----------|
| 9  | Lubrication           | Standard, Grease lubrication [Std] |         |          |
| 10 | Execution             |                                    |         |          |
| 11 | Design                | In-Line single head                |         |          |
| 12 | Operating speed       | 2900 rpm                           | Stages  | 1        |
| 13 | Suction nozzle        | DN 40 /                            | PN 16 / | EN1092-2 |
| 14 | Discharge nozzle      | DN 40 /                            | PN 16 / | EN1092-2 |
| 15 | Max. casing pressure  | kPa                                |         |          |
| 16 | Max. working pressure | kPa 388.4                          |         |          |
| 17 | Impeller type         | Radial impeller                    |         |          |
| 18 | Head H(Q=0)           | m 40                               |         |          |
| 19 | Max. shaft power      | kW 4.9                             |         |          |
| 20 | Pump weight           | kg                                 |         |          |
| 21 | Total weight          | kg 56.0                            |         |          |

|            |             |      |      |
|------------|-------------|------|------|
| Impeller Ø | Max.        | mm   | 171  |
|            | designed    | mm   | 171  |
|            | Min.        | mm   | 137  |
|            | Nominal     | m³/h |      |
| Flow       | Max-        | m³/h | 48   |
|            | Min-        | m³/h | 10   |
|            | Nominal     | m    |      |
| Head       | at Qmax     | m    | 18.1 |
|            | at Qmin     | m    | 40.7 |
|            | Shaft power | kW   |      |
|            | Efficiency  | %    |      |
|            | NPSH 3%     | m    |      |

#### Materials

|    |                              |                             |                                              |                                           |
|----|------------------------------|-----------------------------|----------------------------------------------|-------------------------------------------|
| 22 | Pump                         |                             | Shaft Seal                                   |                                           |
| 23 | Volute Casing                | Cast iron                   | Single mechanical seal, without shaft sleeve |                                           |
| 24 | Casing Cover                 | Cast iron                   | eMG12 - Ø22mm                                | BQ7EGG-WA                                 |
| 25 | Impeller                     | Stainless steel / AISI 304  | Mechanical seal diameter                     | 22 mm                                     |
| 26 | Stub shaft                   | Stainless steel / AISI 316L | 1. Rotating ring                             | Carbon graphite resin impregnated         |
| 27 | Wear ring                    | Stainless steel / AISI 304  | 2. Stationary ring                           | SiC, silicon carbide, sintered press.less |
| 28 | Impeller lock nut and washer | Stainless steel / AISI 304  | 3. Secondary seal                            | Ethylene propylene rubber (EPDM)          |
| 29 | Impeller key                 | Stainless steel / AISI 316L | 4. Springs                                   | CrNiMo - Steel                            |
| 30 | Fill and drain plugs         | Nickel-plated brass         | 5. Others                                    | EPDM - WRAS                               |
| 31 |                              |                             | Gaskets of the pump                          | Ethylene propylene rubber (EPDM)          |
| 32 |                              |                             |                                              |                                           |
| 33 |                              |                             |                                              |                                           |
| 34 |                              |                             |                                              |                                           |
| 35 |                              |                             |                                              |                                           |
| 36 |                              |                             |                                              |                                           |
| 37 |                              |                             |                                              |                                           |
| 38 |                              |                             |                                              |                                           |
| 39 |                              |                             |                                              |                                           |
| 40 |                              |                             |                                              |                                           |
| 41 |                              |                             |                                              |                                           |

#### Motor data

Electrical and dimensional data refer to IE3 motor

|    |                 |                      |                      |        |
|----|-----------------|----------------------|----------------------|--------|
| 42 | Manufacturer    | Lowara               |                      |        |
| 43 | Specific design | IE3 3ph Flange Motor |                      |        |
| 44 | Type            | PLM 112 B14 5,5 kW   |                      |        |
| 45 | Rated power     | 5.5 kW               | Rated current        | 10.4 A |
| 46 | Nominal speed   | 2880 rpm             | Rated voltage        | 400 V  |
| 47 | Frame size      | 112                  | Service factor       | 1      |
| 48 | Weight          | kg 35.5              | Degree of protection | IP55   |

#### Remarks

|    |  |
|----|--|
| 49 |  |
| 50 |  |
| 50 |  |
| 52 |  |

|         |                        |            |            |             |            |
|---------|------------------------|------------|------------|-------------|------------|
| Project | Xylect-20127611        | Created by |            | Last update | 12/20/2024 |
| Block   | LNEE 40-160/07/X45RCS4 | Created on | 12/20/2024 |             |            |

## LNEE 40-160/55/P25VCS4

### Performance curve

Company name  
Contact  
Phone number  
e-mail address

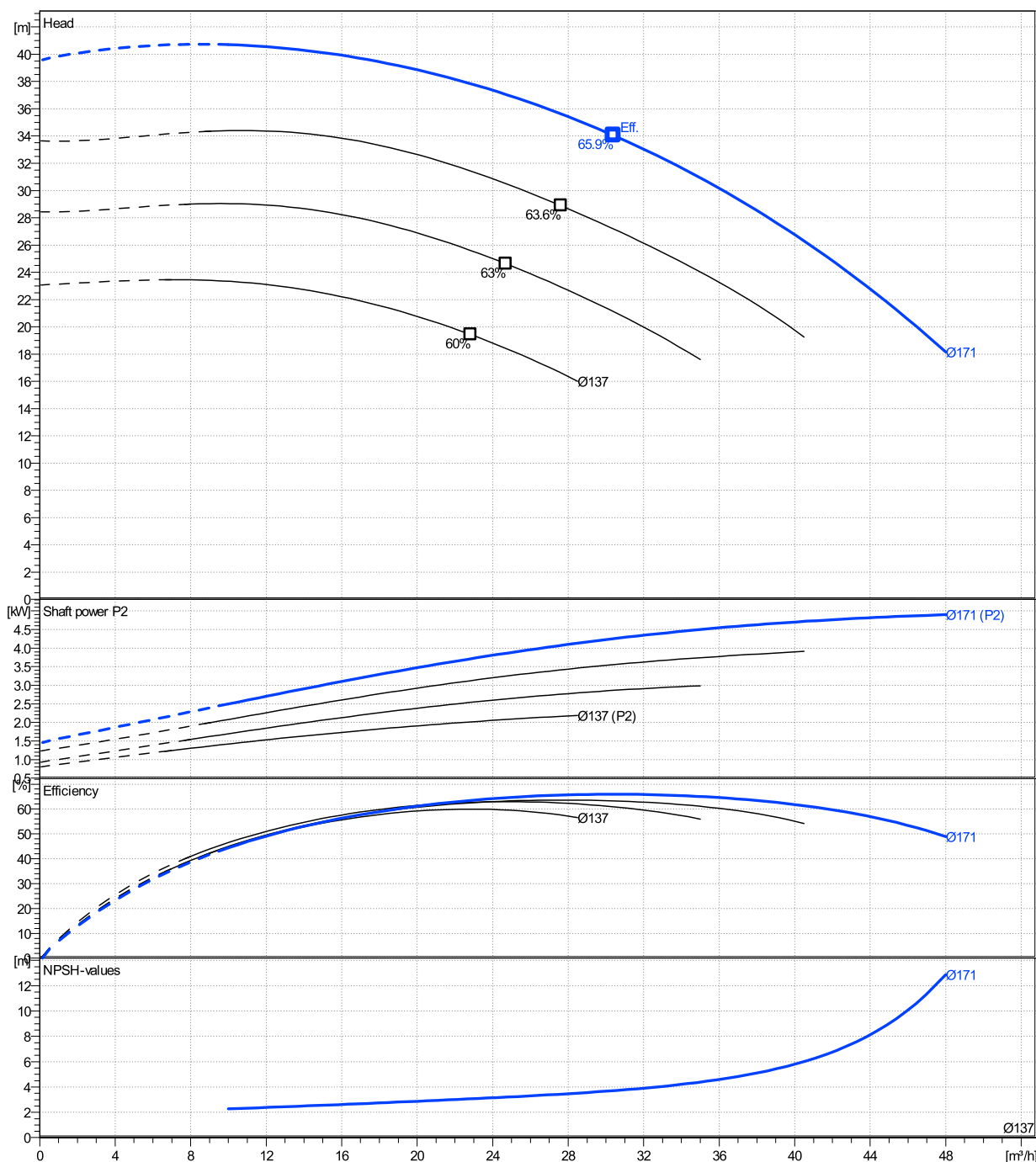
|        | Ø<br>mm | Pump capacity                   |              |                   | Pump head   |                | Shaft power P2 |            |                 | Frequency              |                      | Hz |
|--------|---------|---------------------------------|--------------|-------------------|-------------|----------------|----------------|------------|-----------------|------------------------|----------------------|----|
|        |         | Operating range<br>Min.<br>m³/h | Max.<br>m³/h | η<br>Max.<br>m³/h | H(Q=0)<br>m | η<br>Max.<br>m | P2(Q=0)<br>kW  | Max.<br>kW | η<br>Max.<br>kW | Operating speed<br>rpm | Nominal flow<br>m³/h |    |
| actual | 171     | 10                              | 48           | 30.4              | 39.6        | 34             |                | 4.9        | 4.25            | 2900                   | 0                    | 50 |
| Min.   | 0       | /                               | /            | 22.8              | 23.1        | 19.4           |                | /          | 2.01            |                        | 0                    |    |
| Max.   | 171     | /                               | /            | 30.4              | 39.6        | 34             |                | /          | 4.25            |                        | 0                    |    |

Power datas referred to:

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade 3B

Water [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

MEI: N.A - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



## LNEE 40-160/55/P25VCS4

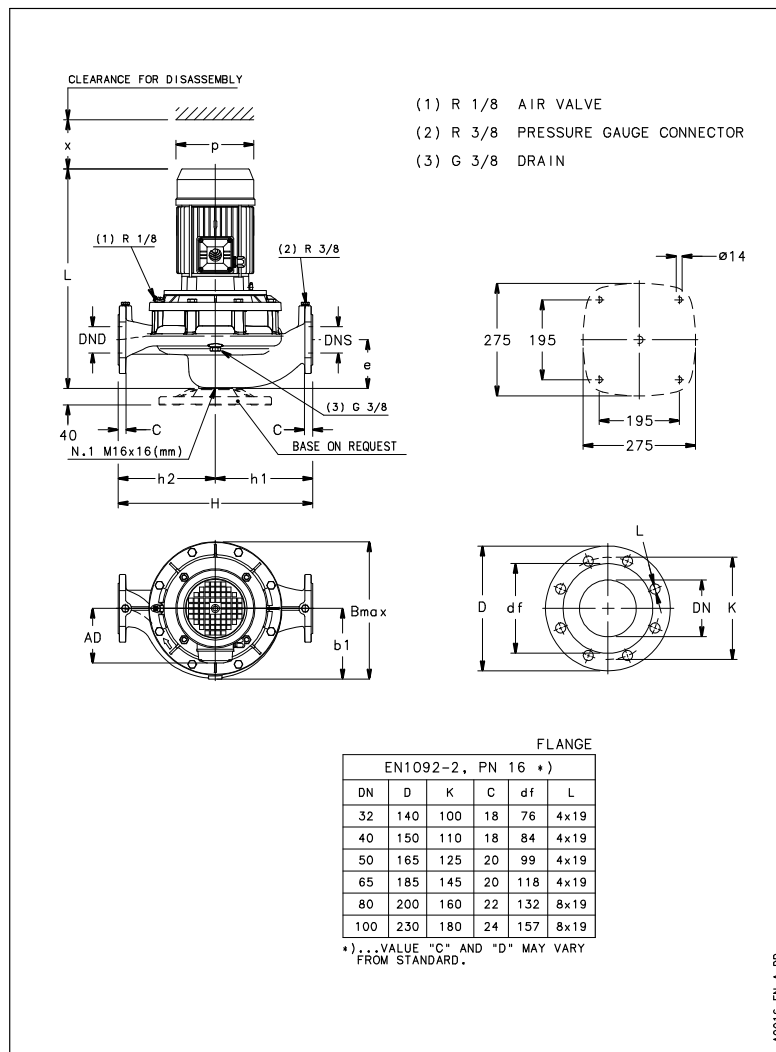
## Dimensions

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Close coupled

PLM 112 B14 5,5 kW

Electrical and dimensional data refer to IE3 motor



### Dimensions [ mm ]

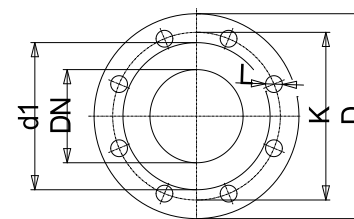
|      |     |
|------|-----|
| AD   | 168 |
| b1   | 128 |
| Bmax | 288 |
| DND  | 40  |
| DNS  | 40  |
| e    | 100 |
| H    | 320 |
| h1   | 160 |
| h2   | 160 |
| L    | 563 |
| p    | 214 |
| x    | 94  |

### Weight

|              |       |
|--------------|-------|
| Total weight | 56 kg |
|--------------|-------|

### Connections

| Suction nozzle | Discharge nozzle |
|----------------|------------------|
| DN 40          | DN 40            |
| PN 16          | PN 16            |
| EN1092-2       | EN1092-2         |
| C              | 18               |
| D              | 150              |
| df             | 84               |
| DN             | 40               |
| K              | 110              |
| L              | 4 x 19           |



Value C, D may vary from Standard

### Dimensions and weight without obligation

|         |                        |            |            |             |            |
|---------|------------------------|------------|------------|-------------|------------|
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| Block   | LNEE 40-160/07/X45RCS4 | Created on | 12/20/2024 |             |            |