

**SL1.50.65.11.A.2.1.502**

**Grundfos pump 96104127**



Thank you for your interest in our products. Please contact us for more information, or visit our website

<https://www.lenntech.com/grundfos/SL1000/96104127/SL1-50-65-11-A-2-1-502.html>

[info@lenntech.com](mailto:info@lenntech.com)

tel. +31 152 610 900

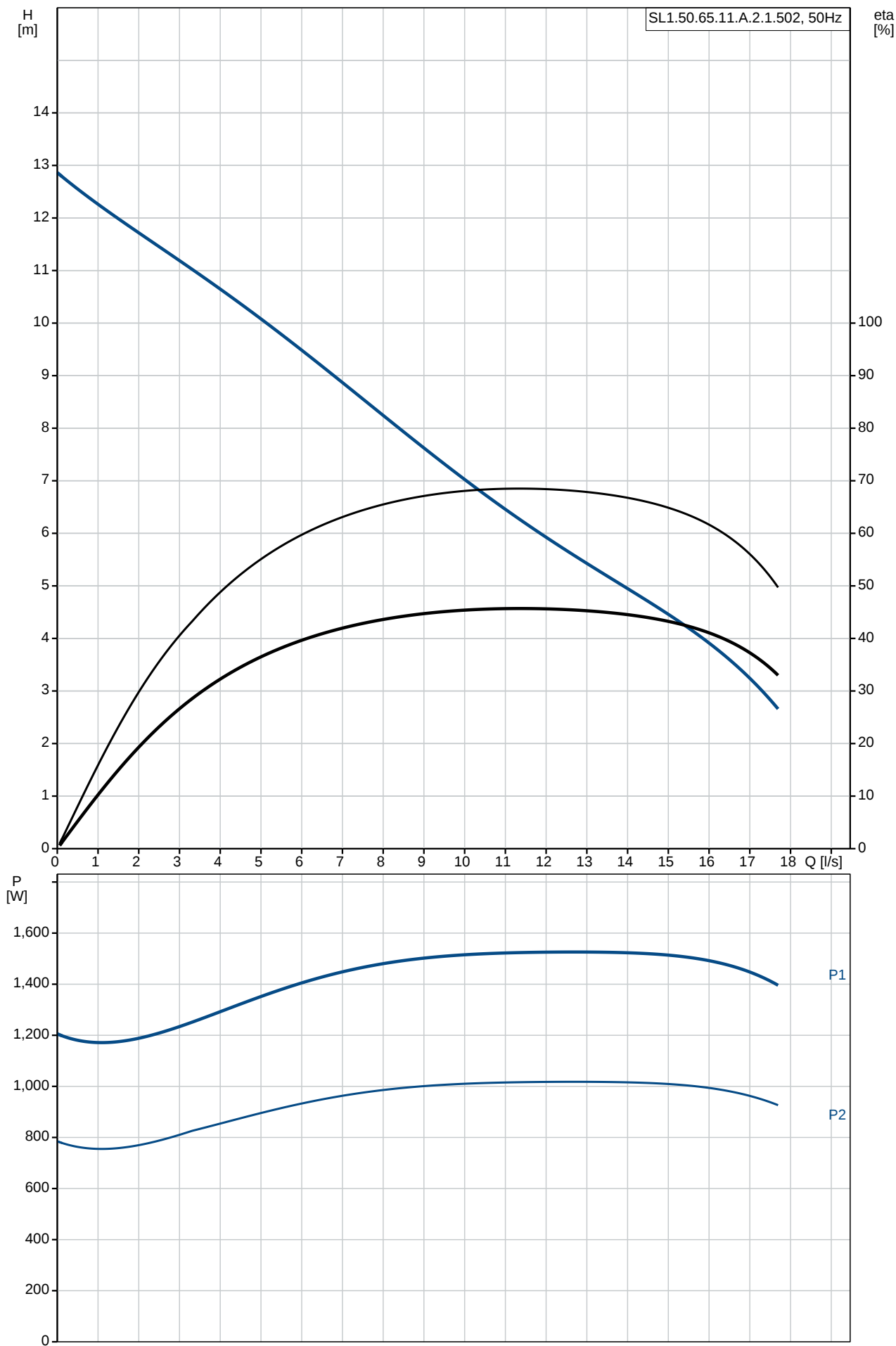
fax. +31 152 616 289

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|          | 1    | <p><b>SL1.50.65.11.A.2.1.502</b></p>  <p>Product No.: On request</p> <p>Non-self-priming, single-stage, centrifugal pump designed for handling wastewater, process water and unscreened raw sewage.</p> <p>The pump is designed for intermittent and continuous operations in submerged installation. The revolutionary S-tube® impeller provides free spherical passage of solids up to 50 mm and is suitable for wastewater with a dry matter content of up to 3 %.</p> <p>A unique stainless-steel clamp assembling system enables quick and easy disassembly of the pump from the motor unit for service and inspection. No special tools are required. Pipework connection is via a DIN flange.</p> <p><b>Further product details</b></p> <p>Typical application is transfer of liquid, such as:</p> <ul style="list-style-type: none"> <li>- large quantities of drainage and surface water</li> <li>- domestic wastewater with discharge from toilets</li> <li>- wastewater from commercial buildings without discharge from toilets</li> <li>- sludge-containing industrial wastewater.</li> </ul> <p>The pump is ideal for pumping of the above liquids from for instance:</p> <ul style="list-style-type: none"> <li>- municipal network pumping stations</li> <li>- public buildings</li> <li>- blocks of flats</li> <li>- factories/industry.</li> </ul> <p>The pump is suitable for both temporary and permanent installation either as free-standing on ring stand or on an auto-coupling system.</p> <p><b>Pump</b></p> <p>The pump housing, motor top and impeller are made of cast iron (EN-GJL-250).</p> <p>The S-tube® impeller is providing free spherical passage through the impeller and pump housing and creates a natural extension of the pipework connected to the pump. The S-tube® impeller is a wet-balanced and tube-shaped channel impeller placed in a pump housing that matches the smooth tube shape leaving no obstructions or dead zones.</p> <p>The key to the S-tube® design is simplicity, with no cutting or moving functions that can get worn over time, thereby ensuring constant, superior efficiency. The simple design means lower life cycle costs because abrasive wear is reduced and there are fewer clogging incidents.</p>  <p>The shaft seal consists of two mechanical seals that ensure a reliable sealing between the pumped liquid and motor. The shaft seals are incorporated in a single-unit cartridge shaft seal system that is easy to replace in the field without use of special tools.</p> <p>The combination of the primary and secondary seals in a cartridge shaft seal system results in a shorter assembly length compared to conventional shaft seals.</p> <ul style="list-style-type: none"> <li>- Primary seal: Silicon carbide/silicon carbide (SiC/SiC)</li> <li>- Secondary seal: Carbon/Ceramics</li> </ul> |

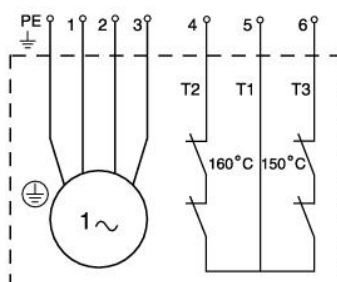
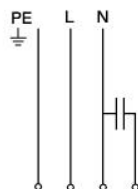
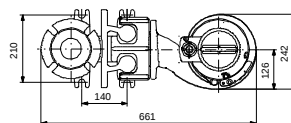
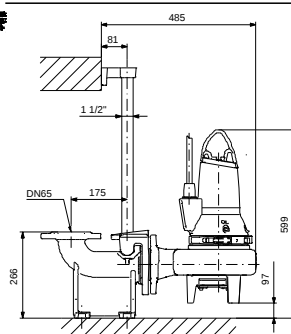
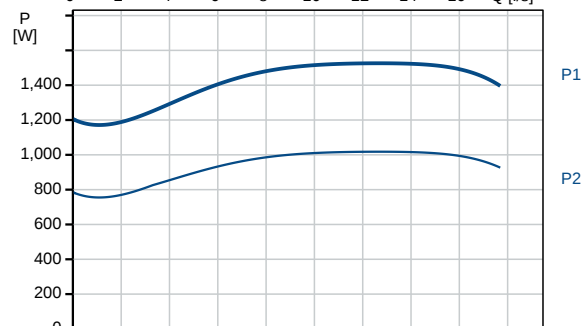
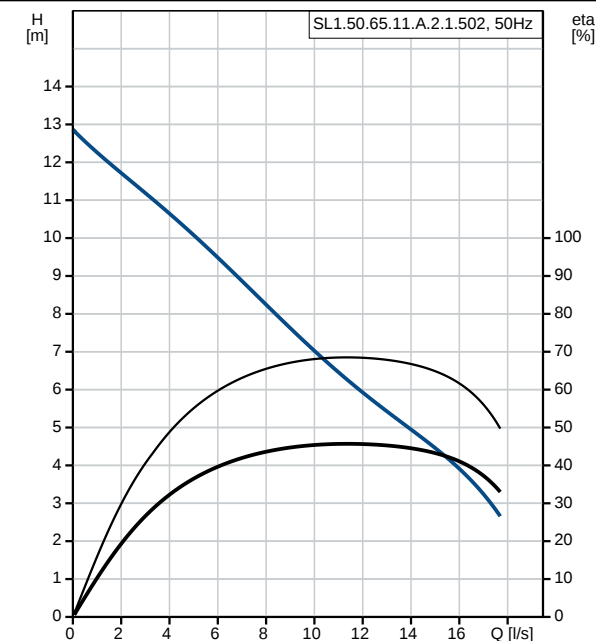
| Position                     | Qty.                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
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|                              |                             | <p>The shaft seal is bidirectional, meaning it operates correctly in case of backflow through the pump.</p> <div></div> <p>The pump is approved according to LGA.</p> <p><b>Motor</b></p> <p>The motor is a watertight, totally encapsulated motor supplied with a 10 m power cable. The stainless steel plug is fastened with a union nut. This nut and the O-rings provide sealing against ingress of the liquid.</p> <p>The plug is polyurethane-embedded, ensuring a watertight and durable seal around the leads of the cable. This prevents the ingress of water into the motor through the cable in case of cable breakage or adverse handling in connection with installation or service.</p> <p>A compact motor construction with a short shaft reduces vibrations, resulting in an increased efficiency and lifetime of the shaft seal and ball bearings.</p> <p>The motor features built-in thermal protection to protect the motor against overheating and ensure the reliability.</p> <p>The pump is designed for speed-controlled operation to keep the energy consumption at a minimum. To avoid the risk of sedimentation in the pipes, we recommend that you operate the speed-controlled pump within a speed range of 30 % to 100 % and at a flow rate above 1 m/s.</p> <p><b>Controls:</b></p> <table><tr><td>Moisture sensor:</td><td>without moisture sensors</td></tr><tr><td>Water-in-oil sensor:</td><td>without water-in-oil sensor</td></tr></table> <p><b>Liquid:</b></p> <table><tr><td>Maximum liquid temperature:</td><td>40 °C</td></tr><tr><td>Density:</td><td>998.2 kg/m³</td></tr></table> <p><b>Technical:</b></p> <table><tr><td>Type of impeller:</td><td>SINGLE CHANNEL</td></tr><tr><td>Maximum particle size:</td><td>50 mm</td></tr><tr><td>Primary shaft seal:</td><td>SIC/SIC</td></tr><tr><td>Secondary shaft seal:</td><td>LIPSEAL</td></tr><tr><td>Approvals on nameplate:</td><td>LGA</td></tr><tr><td>Curve tolerance:</td><td>ISO9906:2012 3B2</td></tr></table> <p><b>Materials:</b></p> <table><tr><td>Pump housing:</td><td>EN-GJL-200</td></tr><tr><td></td><td>EN-GJL-200</td></tr><tr><td>Impeller:</td><td>EN-GJS-500-7</td></tr><tr><td></td><td>EN-GJS-500-7</td></tr><tr><td>Motor:</td><td>EN-GJL-200</td></tr></table> <p><b>Installation:</b></p> <table><tr><td>Maximum ambient temperature:</td><td>40 °C</td></tr><tr><td>Flange standard:</td><td>DIN</td></tr><tr><td>Pump inlet:</td><td>65</td></tr><tr><td>Pump outlet:</td><td>65</td></tr><tr><td>Pressure rating:</td><td>PN10</td></tr><tr><td>Maximum installation depth:</td><td>10 m</td></tr></table> <p><b>Electrical data:</b></p> <table><tr><td>Power input - P1:</td><td>1.6 kW</td></tr><tr><td>Rated power - P2:</td><td>1.1 kW</td></tr><tr><td>Mains frequency:</td><td>50 Hz</td></tr><tr><td>Rated voltage:</td><td>1 x 230 V</td></tr><tr><td>Voltage tolerance:</td><td>+6/-10 %</td></tr><tr><td>Max starts per. hour:</td><td>30</td></tr><tr><td>Rated current:</td><td>7.4 A</td></tr><tr><td>Rated current at 3/4 load:</td><td>5.8 A</td></tr><tr><td>Rated current at 1/2 load:</td><td>4.5 A</td></tr></table> | Moisture sensor: | without moisture sensors | Water-in-oil sensor: | without water-in-oil sensor | Maximum liquid temperature: | 40 °C | Density: | 998.2 kg/m³ | Type of impeller: | SINGLE CHANNEL | Maximum particle size: | 50 mm | Primary shaft seal: | SIC/SIC | Secondary shaft seal: | LIPSEAL | Approvals on nameplate: | LGA | Curve tolerance: | ISO9906:2012 3B2 | Pump housing: | EN-GJL-200 |  | EN-GJL-200 | Impeller: | EN-GJS-500-7 |  | EN-GJS-500-7 | Motor: | EN-GJL-200 | Maximum ambient temperature: | 40 °C | Flange standard: | DIN | Pump inlet: | 65 | Pump outlet: | 65 | Pressure rating: | PN10 | Maximum installation depth: | 10 m | Power input - P1: | 1.6 kW | Rated power - P2: | 1.1 kW | Mains frequency: | 50 Hz | Rated voltage: | 1 x 230 V | Voltage tolerance: | +6/-10 % | Max starts per. hour: | 30 | Rated current: | 7.4 A | Rated current at 3/4 load: | 5.8 A | Rated current at 1/2 load: | 4.5 A |
| Moisture sensor:             | without moisture sensors    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Water-in-oil sensor:         | without water-in-oil sensor |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Maximum liquid temperature:  | 40 °C                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Density:                     | 998.2 kg/m³                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Type of impeller:            | SINGLE CHANNEL              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Maximum particle size:       | 50 mm                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Primary shaft seal:          | SIC/SIC                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Secondary shaft seal:        | LIPSEAL                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Approvals on nameplate:      | LGA                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Curve tolerance:             | ISO9906:2012 3B2            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Pump housing:                | EN-GJL-200                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
|                              | EN-GJL-200                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Impeller:                    | EN-GJS-500-7                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
|                              | EN-GJS-500-7                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Motor:                       | EN-GJL-200                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Maximum ambient temperature: | 40 °C                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Flange standard:             | DIN                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Pump inlet:                  | 65                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Pump outlet:                 | 65                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Pressure rating:             | PN10                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Maximum installation depth:  | 10 m                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Power input - P1:            | 1.6 kW                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Rated power - P2:            | 1.1 kW                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Mains frequency:             | 50 Hz                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Rated voltage:               | 1 x 230 V                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Voltage tolerance:           | +6/-10 %                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Max starts per. hour:        | 30                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Rated current:               | 7.4 A                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Rated current at 3/4 load:   | 5.8 A                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |
| Rated current at 1/2 load:   | 4.5 A                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                          |                      |                             |                             |       |          |             |                   |                |                        |       |                     |         |                       |         |                         |     |                  |                  |               |            |  |            |           |              |  |              |        |            |                              |       |                  |     |             |    |              |    |                  |      |                             |      |                   |        |                   |        |                  |       |                |           |                    |          |                       |    |                |       |                            |       |                            |       |

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |      | <p>Starting current: 38 A</p> <p>Rated current at no load: 2.6 A</p> <p>Cos phi - power factor: 0.97</p> <p>Cos phi - p.f. at 3/4 load: 0.96</p> <p>Cos phi - p.f. at 1/2 load: 0.89</p> <p>Rated speed: 2830 rpm</p> <p>Motor efficiency at full load: 67 %</p> <p>Motor efficiency at 3/4 load: 66 %</p> <p>Motor efficiency at 1/2 load: 60 %</p> <p>Capacitor size - run: 30 µF</p> <p>Start. method: direct-on-line</p> <p>Enclosure class (IEC 34-5): IP68</p> <p>Insulation class (IEC 85): F</p> <p>Explosion proof: no</p> <p>Length of cable: 10 m</p> <p>Cable type: H07RN-F</p> <p><b>Others:</b></p> <p>Net weight: 54.5 kg</p> <p>Danish VVS No.: 391294333</p> |

On request SL1.50.65.11.A.2.1.502 50 Hz

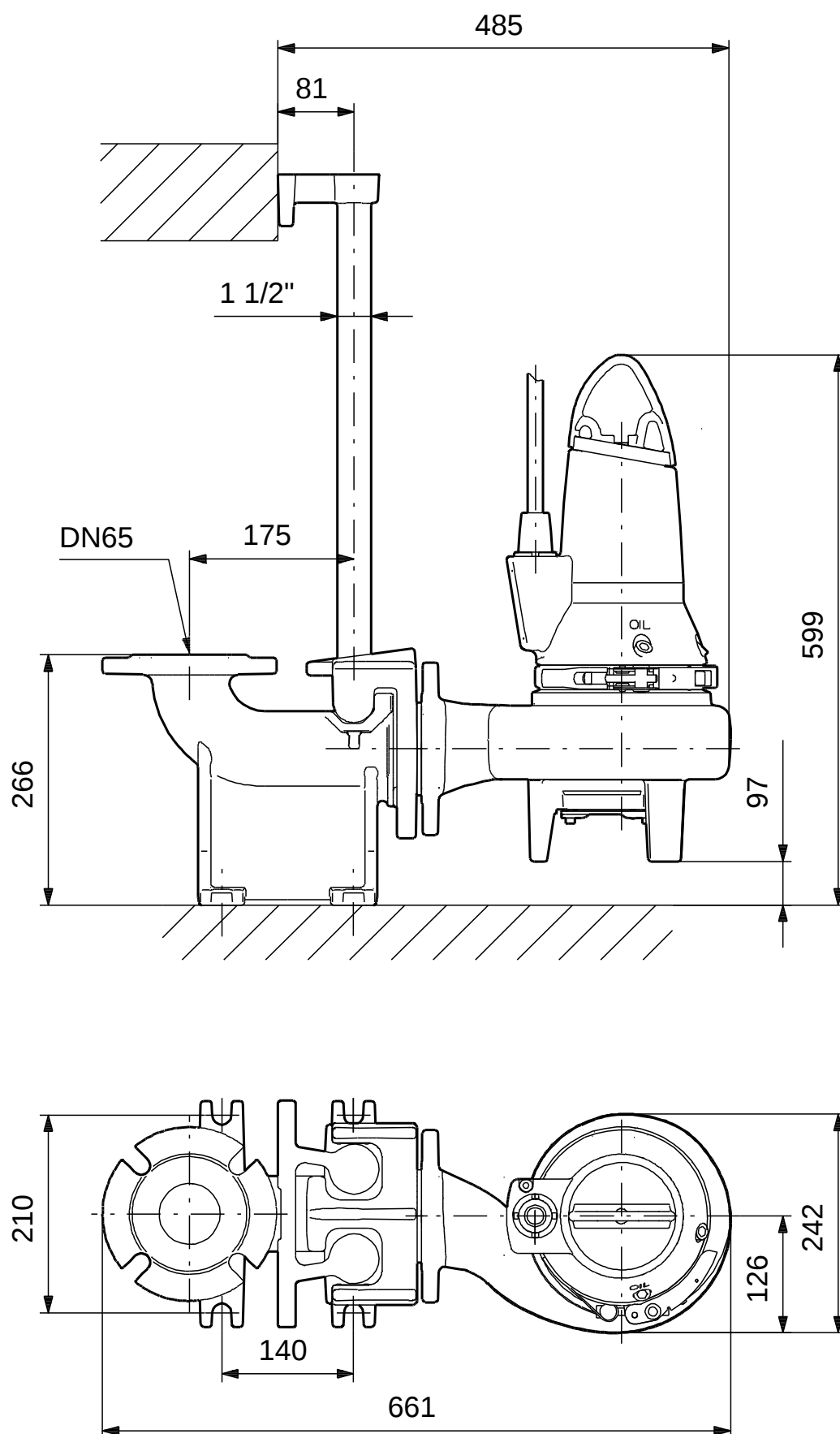


| Description                    | Value                       |
|--------------------------------|-----------------------------|
| <b>General information:</b>    |                             |
| Product name:                  | SL1.50.65.11.A.2.1.502      |
| Product No:                    | On request                  |
| EAN number:                    | On request                  |
| <b>Technical:</b>              |                             |
| Max flow:                      | 17.9 l/s                    |
| Head max:                      | 15.9 m                      |
| Type of impeller:              | SINGLE CHANNEL              |
| Maximum particle size:         | 50 mm                       |
| Primary shaft seal:            | SIC/SIC                     |
| Secondary shaft seal:          | LIPSEAL                     |
| Approvals on nameplate:        | LGA                         |
| Curve tolerance:               | ISO9906:2012 3B2            |
| Cooling jacket:                | without cooling jacket      |
| <b>Materials:</b>              |                             |
| Pump housing:                  | EN-GJL-200                  |
|                                | EN-GJL-200                  |
| Impeller:                      | EN-GJS-500-7                |
|                                | EN-GJS-500-7                |
| Motor:                         | EN-GJL-200                  |
| <b>Installation:</b>           |                             |
| Maximum ambient temperature:   | 40 °C                       |
| Flange standard:               | DIN                         |
| Pump inlet:                    | 65                          |
| Pump outlet:                   | 65                          |
| Pressure rating:               | PN10                        |
| Maximum installation depth:    | 10 m                        |
| Inst dry/wet:                  | SUBMERGED                   |
| Installation:                  | Vertical                    |
| <b>Liquid:</b>                 |                             |
| Maximum liquid temperature:    | 40 °C                       |
| Density:                       | 998.2 kg/m <sup>3</sup>     |
| <b>Electrical data:</b>        |                             |
| Power input - P1:              | 1.6 kW                      |
| Rated power - P2:              | 1.1 kW                      |
| Mains frequency:               | 50 Hz                       |
| Rated voltage:                 | 1 x 230 V                   |
| Voltage tolerance:             | +6/-10 %                    |
| Max starts per. hour:          | 30                          |
| Rated current:                 | 7.4 A                       |
| Rated current at 3/4 load:     | 5.8 A                       |
| Rated current at 1/2 load:     | 4.5 A                       |
| Starting current:              | 38 A                        |
| Rated current at no load:      | 2.6 A                       |
| Cos phi - power factor:        | 0.97                        |
| Cos phi - p.f. at 3/4 load:    | 0.96                        |
| Cos phi - p.f. at 1/2 load:    | 0.89                        |
| Rated speed:                   | 2830 rpm                    |
| Motor efficiency at full load: | 67 %                        |
| Motor efficiency at 3/4 load:  | 66 %                        |
| Motor efficiency at 1/2 load:  | 60 %                        |
| Capacitor size - run:          | 30 µF                       |
| Start. method:                 | direct-on-line              |
| Enclosure class (IEC 34-5):    | IP68                        |
| Insulation class (IEC 85):     | F                           |
| Explosion proof:               | no                          |
| Motor protec:                  | THERMAL SWITCH              |
| Length of cable:               | 10 m                        |
| Cable type:                    | H07RN-F                     |
| <b>Controls:</b>               |                             |
| Control box:                   | control box included        |
| Moisture sensor:               | without moisture sensors    |
| Water-in-oil sensor:           | without water-in-oil sensor |
| <b>Others:</b>                 |                             |



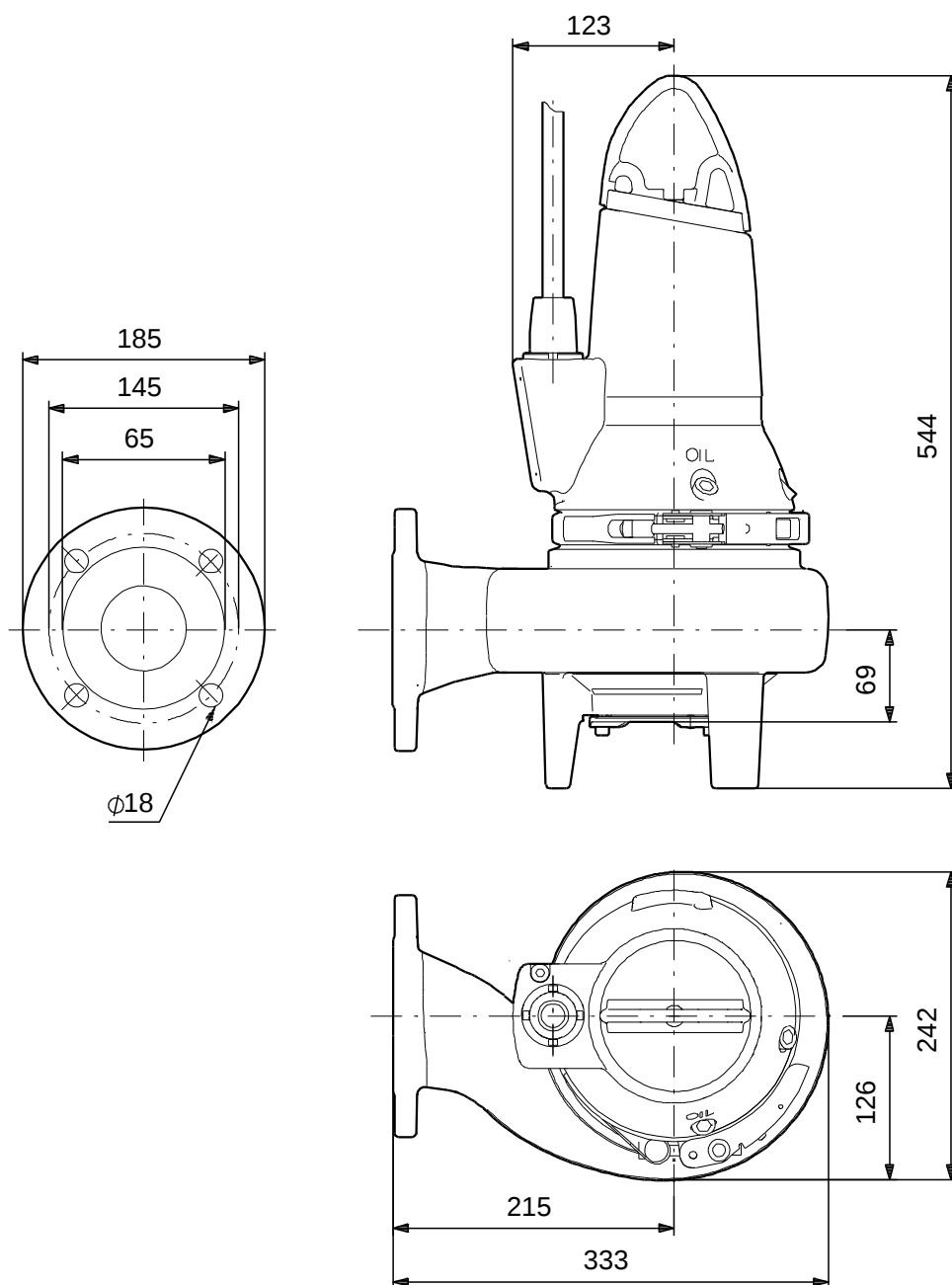
| Description     | Value     |
|-----------------|-----------|
| Net weight:     | 54.5 kg   |
| Danish VVS No.: | 391294333 |

# On request SL1.50.65.11.A.2.1.502 50 Hz



Note! All units are in [mm] unless others are stated.  
Disclaimer: This simplified dimensional drawing does not show all details.

# On request SL1.50.65.11.A.2.1.502 50 Hz



Note! All units are in [mm] unless others are stated.  
Disclaimer: This simplified dimensional drawing does not show all details.

# Exploded view



Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

# Exploded view ( TM057026 for MGE model H/I )



**Parts list SL1.50.65.11.A.2.1.502, Product No. On request**  
**Valid from 1.11.2008 (0844)**

| Pos   | Description               | Annotation | Données de classification    | Référence | Quantité | Unité |
|-------|---------------------------|------------|------------------------------|-----------|----------|-------|
|       | Control box               |            |                              |           | 1        | pcs   |
| 7a    | Rivet                     |            |                              |           | 4        | pcs   |
| 9a    | Key                       |            | Dimension: 5X5X12            |           | 1        | pcs   |
| 26.a  | O-ring                    |            | Diameter: 32                 |           | 1        | pcs   |
|       |                           |            | Material type: NBR           |           |          |       |
|       |                           |            | Thickness: 4                 |           |          |       |
| 37    | O-ring                    |            | Diameter: 164                |           | 1        | pcs   |
|       |                           |            | Material type: NBR           |           |          |       |
|       |                           |            | Thickness: 3                 |           |          |       |
| 37a   | O-ring                    |            | Diameter: 114                |           | 2        | pcs   |
|       |                           |            | Material type: NBR           |           |          |       |
|       |                           |            | Thickness: 3                 |           |          |       |
| 37b   | O-ring                    |            | Diameter: 86                 |           | 1        | pcs   |
|       |                           |            | Material type: NBR           |           |          |       |
|       |                           |            | Thickness: 4                 |           |          |       |
| 49    | Impeller                  |            |                              |           | 1        | pcs   |
| 50    | Pump housing              |            |                              |           | 1        | pcs   |
| 66    | Wedge lock washer         |            | Designation: M8 A4           |           | 1        | pcs   |
| 76    | Nameplate                 |            |                              |           | 1        | pcs   |
| 92    | Clamp                     |            |                              |           | 1        | pcs   |
| 102   | O-ring                    |            | Diameter: 19                 |           | 1        | pcs   |
|       |                           |            | Material type: 72NBR872      |           |          |       |
|       |                           |            | Thickness: 1.5               |           |          |       |
| 103   | Bush                      |            |                              |           | 1        | pcs   |
| - 105 | Shaft seal                |            |                              |           | 1        | pcs   |
| 58    | Shaft seal retainer       |            |                              |           | 1        |       |
| 104   | Seal ring                 |            |                              |           | 1        |       |
| 105a  | Shaft seal                |            |                              |           | 1        |       |
| 107   | O-ring                    |            | Diameter: 47                 |           | 1        |       |
|       |                           |            | Material type: NBR           |           |          |       |
|       |                           |            | Thickness: 3                 |           |          |       |
| 107   | O-ring                    |            | Diameter: 50                 |           | 1        |       |
|       |                           |            | Material type: NBR           |           |          |       |
|       |                           |            | Thickness: 3                 |           |          |       |
| 153   | Ball bearing              |            | Designation: 6204 2CS C3 SYN |           | 1        | pcs   |
| 154   | Ball bearing              |            |                              |           | 1        | pcs   |
| 155   | Oil chamber               |            |                              |           | 1        | pcs   |
| 158   | Waved washer              |            |                              |           | 1        | pcs   |
| 162   | Suction cover             |            |                              |           | 1        | pcs   |
| 172   | Shaft w/rotor             |            |                              |           | 1        | pcs   |
| - 181 | Cable cpl.                |            |                              |           | 1        | pcs   |
| 198   | O-ring                    |            | Diameter: 34.2               |           | 1        |       |
|       |                           |            | Material type: NBR           |           |          |       |
|       |                           |            | Thickness: 3                 |           |          |       |
| 188.a | Hex socket head cap screw |            | Length (mm): 25              |           | 8        | pcs   |
|       |                           |            | Thread: M8                   |           |          |       |
| 188b  | Hex socket head cap screw |            | Designation: INNER HEXAGON   |           | 3        | pcs   |
|       |                           |            | Length (mm): 25              |           |          |       |
|       |                           |            | Thread: M8                   |           |          |       |
| 189   | Socket set screw          |            | Designation: INNER HEXAGON   |           | 3        | pcs   |
|       |                           |            | Length (mm): 12              |           |          |       |
|       |                           |            | Thread: M12                  |           |          |       |
| 190   | Lifting bracket           |            |                              |           | 1        | pcs   |
| 193   | Hex socket head cap screw |            | Designation: A2-70           |           | 2        | pcs   |
|       |                           |            | Length (mm): 20              |           |          |       |
|       |                           |            | Thread: M12                  |           |          |       |
| 193a  | Oil                       |            | Type: SHELL ONDINA 919       |           | 0        | L     |
| 194   | Washer                    |            | Internal diameter: 19        |           | 2        | pcs   |
|       |                           |            | Outer diameter: 12.2         |           |          |       |

| Pos | Description | Annotation | Données de classification | Référence | Quantité | Unité |
|-----|-------------|------------|---------------------------|-----------|----------|-------|
|     |             |            | Thickness: 4.4            |           |          |       |
| 208 | Washer      |            | Internal diameter: 20     |           | 1        | pcs   |
|     |             |            | Outer diameter: 28        |           |          |       |
|     |             |            | Thickness: 2              |           |          |       |

*Disclaimer: The information about the Grundfos pump in this document may be outdated.*

*Data may be subject to alterations without further notice.*

*Please contact us to verify the data above is still accurate/up-to-date.*

*All information is copyright Grundfos.*



[info@lenntech.com](mailto:info@lenntech.com)

<https://www.lenntech.com>

tel. +31 152 610 900

fax. +31 152 616 289