

## DWK.O.13.150.150.5.0D

Grundfos Pump 96922666



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<https://www.lenntech.com/grundfos/DWK000/96922666/DWK-O-13-150-150-5-0D.html>

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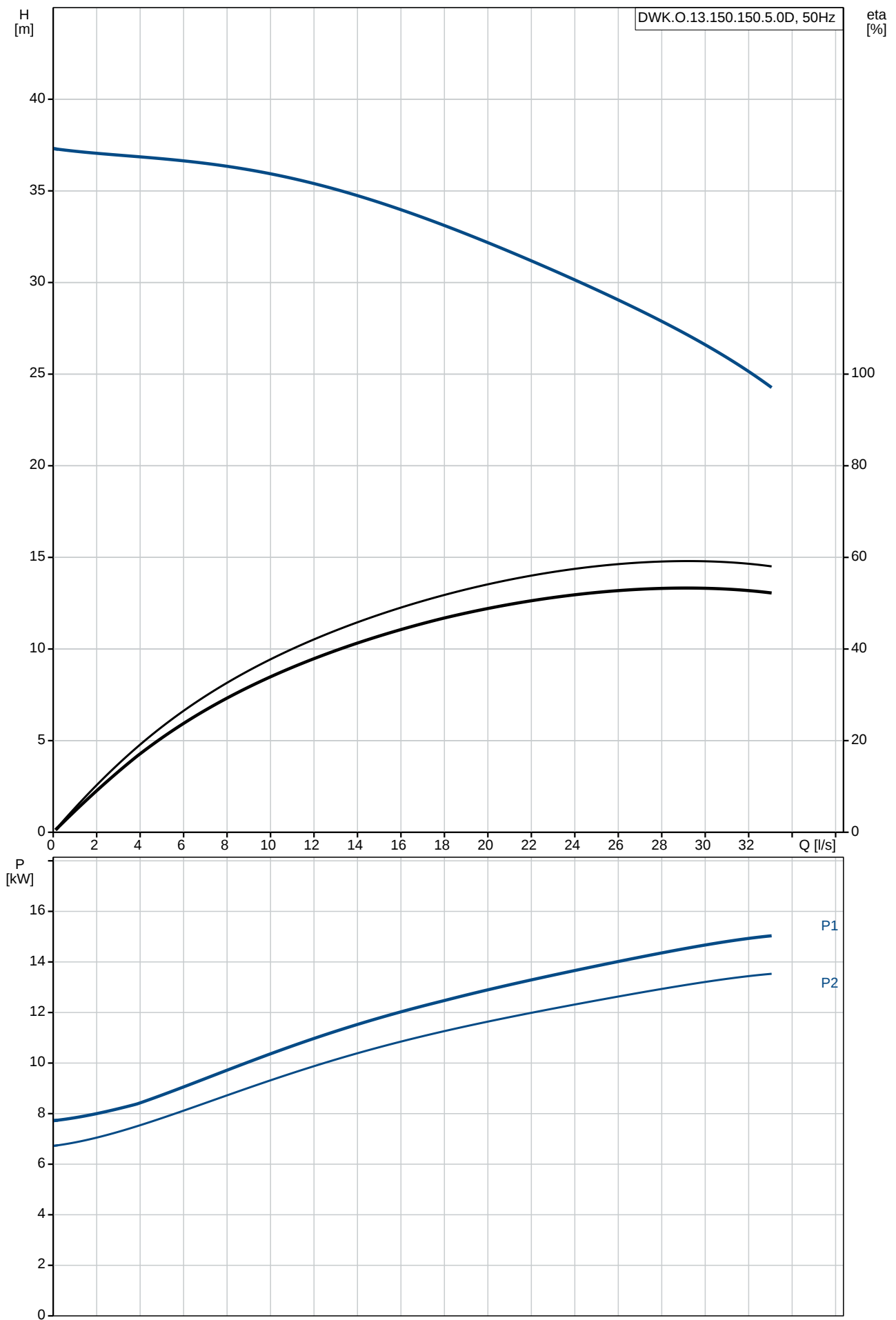
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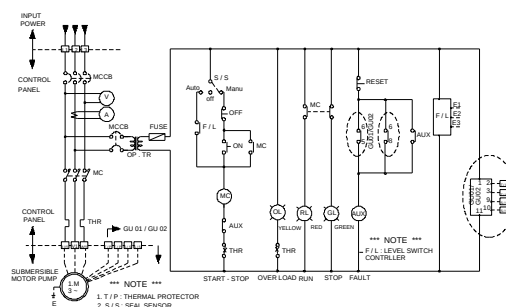
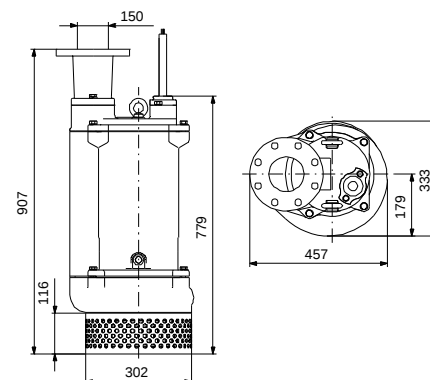
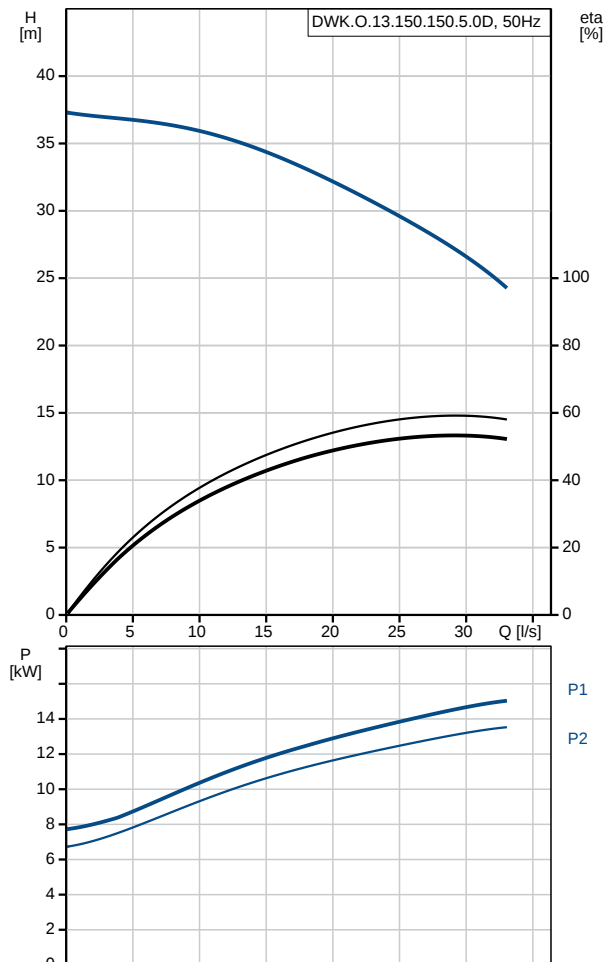
| Position                     | Qty.                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |                 |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
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|                              | 1                                         | <div><div></div><div><p>Product No.: <a href="#">96922666</a></p><p>Submersible Contractor Pump</p><p>Grundfos DWK pump is a submersible pump for dewatering and drainage applications.</p><p>The pump is suitable for pumping</p><ul style="list-style-type: none"><li>·large quantities of underground and surface water</li><li>·drainage water at high head</li><li>·water with dirt from drainage pits</li></ul><p>The compact design makes the pump suitable for both temporary and permanent installation.</p><p>The pump is cast iron, with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).</p><p>The pump has a rise pipe, a double mechanical seal and semi-open impeller type</p><p>The pump is equipped with a temperature Bi-metal sensor for motor protection in case of overheating and electrode seal sensor to detect water penetration in to the motor housing.</p><p>The pump is fitted with suction strainer, lifting handle and 10 m cable.</p><div><p><b>Controls:</b></p><table><tr><td>Seal sensor:</td><td>N</td></tr></table><p><b>Liquid:</b></p><table><tr><td>Liquid temperature range:</td><td>0 .. 40 °C</td></tr><tr><td>Density:</td><td>998.2 kg/m³</td></tr></table><p><b>Technical:</b></p><table><tr><td>Actual impeller diameter:</td><td>186 mm</td></tr><tr><td>Type of impeller:</td><td>O</td></tr><tr><td>Maximum particle size:</td><td>13 mm</td></tr><tr><td>Primary shaft seal:</td><td>SIC-SIC</td></tr><tr><td>Secondary shaft seal:</td><td>CERAMIC-CARBON</td></tr><tr><td>Max. hydraulic efficiency:</td><td>59 %</td></tr><tr><td>Curve tolerance:</td><td>ISO9906:2012 3B</td></tr></table><p><b>Materials:</b></p><table><tr><td>Pump housing:</td><td>Cast iron<br/>EN1561 EN-GJL-200</td></tr><tr><td>Impeller:</td><td>Ductile cast iron<br/>EN1563 EN-GJS-450-10</td></tr><tr><td>Motor:</td><td>Cast iron<br/>EN1561 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>Pump outlet:</td><td>DN 150</td></tr><tr><td>Maximum installation depth:</td><td>25 m</td></tr></table><p><b>Electrical data:</b></p></div></div></div> | Seal sensor: | N | Liquid temperature range: | 0 .. 40 °C | Density: | 998.2 kg/m³ | Actual impeller diameter: | 186 mm | Type of impeller: | O | Maximum particle size: | 13 mm | Primary shaft seal: | SIC-SIC | Secondary shaft seal: | CERAMIC-CARBON | Max. hydraulic efficiency: | 59 % | Curve tolerance: | ISO9906:2012 3B | Pump housing: | Cast iron<br>EN1561 EN-GJL-200 | Impeller: | Ductile cast iron<br>EN1563 EN-GJS-450-10 | Motor: | Cast iron<br>EN1561 EN-GJL-200 | Maximum ambient temperature: | 40 °C | Pump outlet: | DN 150 | Maximum installation depth: | 25 m |
| Seal sensor:                 | N                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |                 |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Liquid temperature range:    | 0 .. 40 °C                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |                 |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Density:                     | 998.2 kg/m³                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |                 |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Actual impeller diameter:    | 186 mm                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |                 |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Type of impeller:            | O                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |                 |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Maximum particle size:       | 13 mm                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |                 |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Primary shaft seal:          | SIC-SIC                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |                 |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Secondary shaft seal:        | CERAMIC-CARBON                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |                 |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Max. hydraulic efficiency:   | 59 %                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |                 |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Curve tolerance:             | ISO9906:2012 3B                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |                 |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Pump housing:                | Cast iron<br>EN1561 EN-GJL-200            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |                 |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Impeller:                    | Ductile cast iron<br>EN1563 EN-GJS-450-10 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |                 |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Motor:                       | Cast iron<br>EN1561 EN-GJL-200            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |                 |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Maximum ambient temperature: | 40 °C                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |                 |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Pump outlet:                 | DN 150                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |                 |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Maximum installation depth:  | 25 m                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |                 |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |      | <p>Rated power - P2: 15 kW</p> <p>Mains frequency: 50 Hz</p> <p>Rated voltage: 3 x 380-415 V</p> <p>Voltage tolerance: +5/-5 %</p> <p>Max starts per. hour: 30</p> <p>Rated current: 27.8 A</p> <p>Rated current at 3/4 load: 21.1 A</p> <p>Rated current at 1/2 load: 14.5 A</p> <p>Cos phi - power factor: 0.92</p> <p>Cos phi - p.f. at 3/4 load: 0.91</p> <p>Cos phi - p.f. at 1/2 load: 0.88</p> <p>Rated speed: 2850 rpm</p> <p>Motor efficiency at full load: 89.8 %</p> <p>Motor efficiency at 3/4 load: 90.3 %</p> <p>Motor efficiency at 1/2 load: 89.5 %</p> <p>Number of poles: 2</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: TP90/TP90</p> <p><b>Others:</b></p> <p>Net weight: 195 kg</p> |

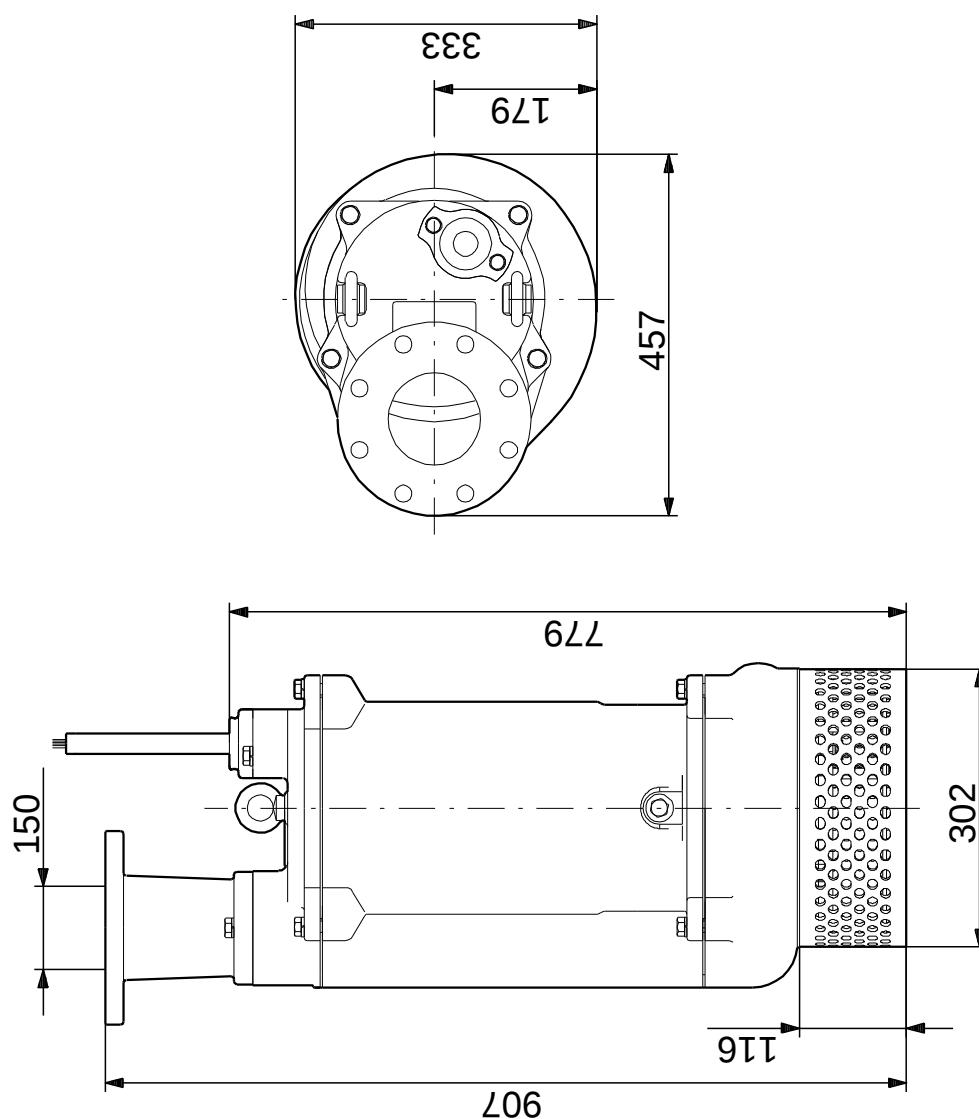
96922666 DWK.O.13.150.150.5.0D 50 Hz



| Description                    | Value                                     |
|--------------------------------|-------------------------------------------|
| <b>General information:</b>    |                                           |
| Product name:                  | DWK.O.13.150.150.5.0D                     |
| Product No:                    | 96922666                                  |
| EAN number:                    | 5700313724536                             |
| <b>Technical:</b>              |                                           |
| Max flow:                      | 33.1 l/s                                  |
| Head min:                      | 24.3 m                                    |
| Head max:                      | 37.3 m                                    |
| Actual impeller diameter:      | 186 mm                                    |
| Type of impeller:              | O                                         |
| Maximum particle size:         | 13 mm                                     |
| Primary shaft seal:            | SIC-SIC                                   |
| Secondary shaft seal:          | CERAMIC-CARBON                            |
| Max. hydraulic efficiency:     | 59 %                                      |
| Curve tolerance:               | ISO9906:2012 3B                           |
| <b>Materials:</b>              |                                           |
| Pump housing:                  | Cast iron<br>EN1561 EN-GJL-200            |
| Impeller:                      | Ductile cast iron<br>EN1563 EN-GJS-450-10 |
| Motor:                         | Cast iron<br>EN1561 EN-GJL-200            |
| <b>Installation:</b>           |                                           |
| Maximum ambient temperature:   | 40 °C                                     |
| Pump outlet:                   | DN 150                                    |
| Maximum installation depth:    | 25 m                                      |
| <b>Liquid:</b>                 |                                           |
| Liquid temperature range:      | 0 .. 40 °C                                |
| Density:                       | 998.2 kg/m <sup>3</sup>                   |
| Min. pH-value:                 | 4                                         |
| <b>Electrical data:</b>        |                                           |
| Rated power - P2:              | 15 kW                                     |
| Mains frequency:               | 50 Hz                                     |
| Rated voltage:                 | 3 x 380-415 V                             |
| Voltage tolerance:             | +5/-5 %                                   |
| Max starts per. hour:          | 30                                        |
| Rated current:                 | 27.8 A                                    |
| Rated current at 3/4 load:     | 21.1 A                                    |
| Rated current at 1/2 load:     | 14.5 A                                    |
| Cos phi - power factor:        | 0.92                                      |
| Cos phi - p.f. at 3/4 load:    | 0.91                                      |
| Cos phi - p.f. at 1/2 load:    | 0.88                                      |
| Rated speed:                   | 2850 rpm                                  |
| Motor efficiency at full load: | 89.8 %                                    |
| Motor efficiency at 3/4 load:  | 90.3 %                                    |
| Motor efficiency at 1/2 load:  | 89.5 %                                    |
| Number of poles:               | 2                                         |
| Start. method:                 | direct-on-line                            |
| Enclosure class (IEC 34-5):    | IP68                                      |
| Insulation class (IEC 85):     | F                                         |
| Explosion proof:               | no                                        |
| Length of cable:               | 10 m                                      |
| Cable type:                    | TP90/TP90                                 |
| Cable size:                    | 4X6.0MM2+4X1MM2                           |
| <b>Controls:</b>               |                                           |
| Seal sensor:                   | N                                         |
| Sensor type:                   | Y                                         |
| <b>Others:</b>                 |                                           |
| Net weight:                    | 195 kg                                    |

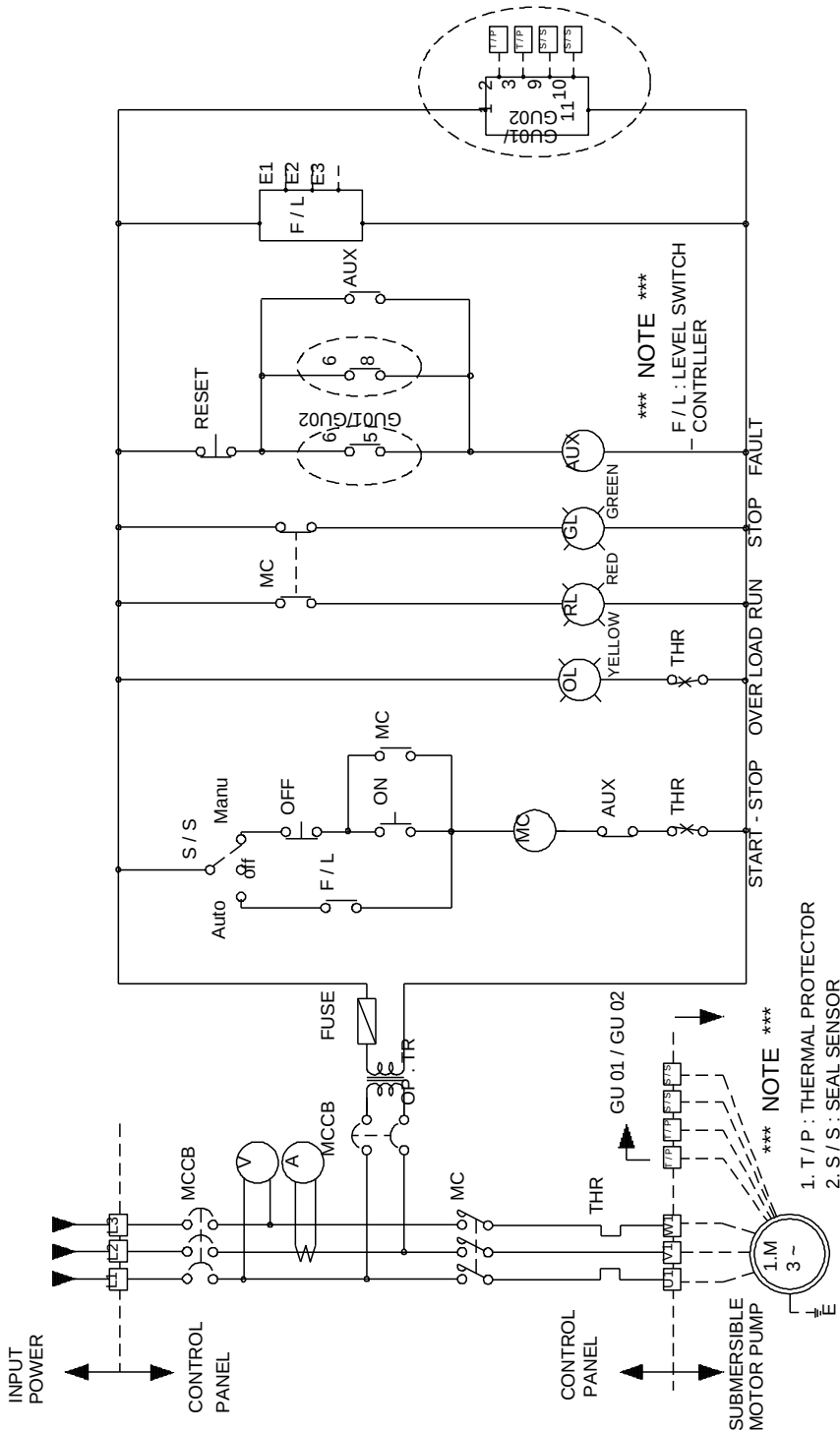


# 96922666 DWK.O.13.150.150.5.0D 50 Hz



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

**96922666 DWK.O.13.150.150.5.0D 50 Hz**



Note! All units are in [mm] unless others are stated.

*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.*

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