

## DPK.20.100.150.5.0D

Grundfos pump 96884092



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<https://www.lenntech.com/grundfos/DPK000/96884092/DPK-20-100-150-5-0D.html>

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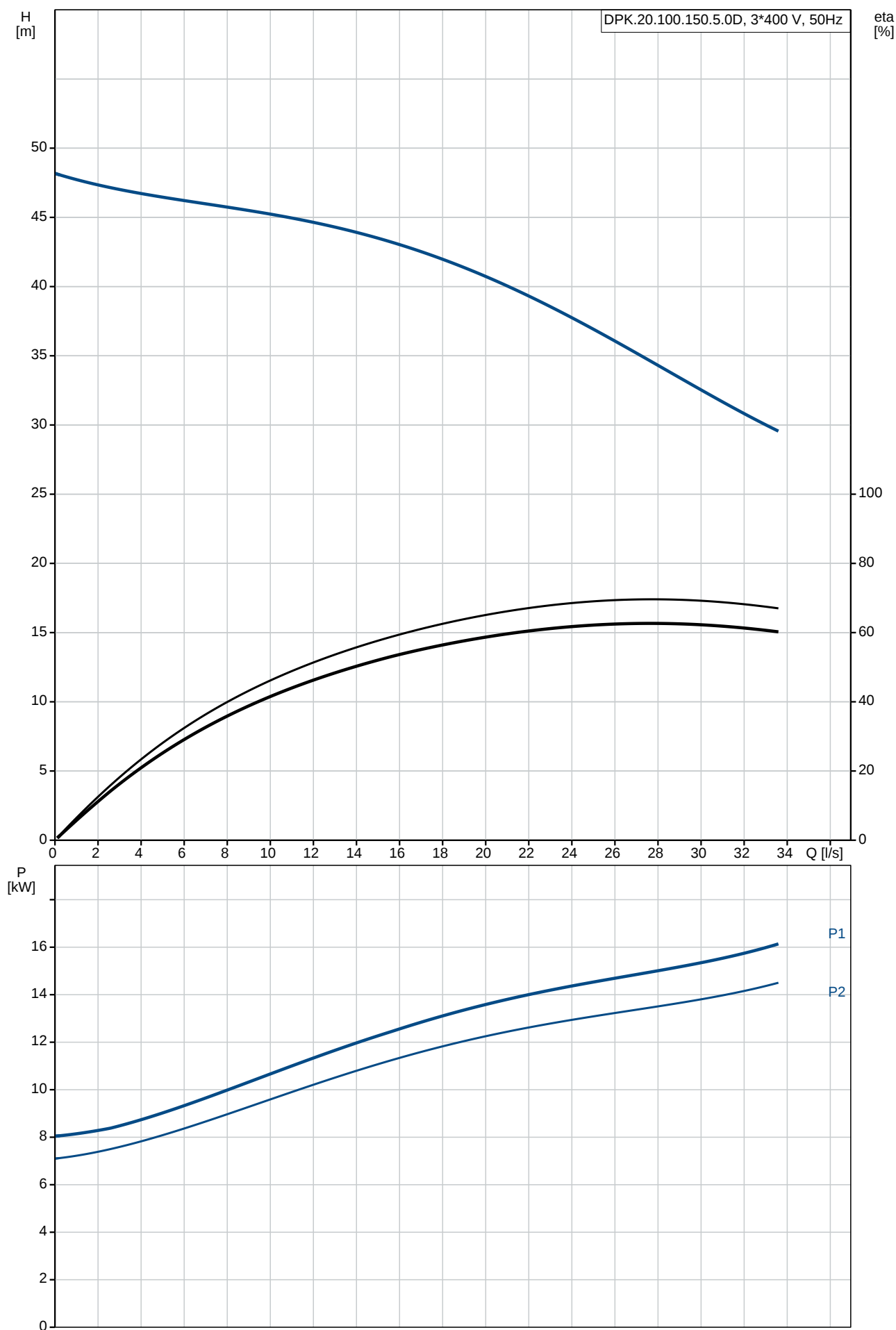
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| Position                     | Qty.                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |      |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
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|                              | 1                                         | <div><div></div><p>Product No.: On request</p><p>Submersible Drainage Pump</p><p>Grundfos DPK pump is a submersible pump for drainage applications.</p><p>The pump has semi-open impeller for 20mm free passage and 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></ul><p>The compact design makes the pump suitable for both temporary and permanent installation.</p><p>The pump is cast iron, with side discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).</p><p>The pump has a side discharge and a double mechanical seal.</p><p>The pump is ready for installation either free-standing or on an auto-coupling system.</p><p>The pump is equipped with temperature bi-metal sensor for motor protection in case of overheating and an electrode seal sensor to detect water penetration in to the motor housing.</p><p>The pump is fitted with 10 m cable.</p><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>193 mm</td></tr><tr><td>Type of impeller:</td><td>O</td></tr><tr><td>Maximum particle size:</td><td>20 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>70 %</td></tr><tr><td>Curve tolerance:</td><td>NONE</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>Cart 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 100</td></tr><tr><td>Maximum installation depth:</td><td>25 m</td></tr></table><p><b>Electrical data:</b></p></div> | Seal sensor: | N | Liquid temperature range: | 0 .. 40 °C | Density: | 998.2 kg/m³ | Actual impeller diameter: | 193 mm | Type of impeller: | O | Maximum particle size: | 20 mm | Primary shaft seal: | SIC-SIC | Secondary shaft seal: | CERAMIC-CARBON | Max. hydraulic efficiency: | 70 % | Curve tolerance: | NONE | Pump housing: | Cast iron<br>EN1561 EN-GJL-200 | Impeller: | Ductile cast iron<br>EN1563 EN-GJS-450-10 | Motor: | Cart iron<br>EN1561 EN-GJL-200 | Maximum ambient temperature: | 40 °C | Pump outlet: | DN 100 | Maximum installation depth: | 25 m |
| Seal sensor:                 | N                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |      |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Liquid temperature range:    | 0 .. 40 °C                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |      |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Density:                     | 998.2 kg/m³                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |      |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Actual impeller diameter:    | 193 mm                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |      |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Type of impeller:            | O                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |      |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Maximum particle size:       | 20 mm                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |      |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Primary shaft seal:          | SIC-SIC                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |      |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Secondary shaft seal:        | CERAMIC-CARBON                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |      |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Max. hydraulic efficiency:   | 70 %                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |      |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Curve tolerance:             | NONE                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |      |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Pump housing:                | Cast iron<br>EN1561 EN-GJL-200            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |      |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Impeller:                    | Ductile cast iron<br>EN1563 EN-GJS-450-10 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |      |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Motor:                       | Cart iron<br>EN1561 EN-GJL-200            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |      |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Maximum ambient temperature: | 40 °C                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |      |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Pump outlet:                 | DN 100                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |      |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |
| Maximum installation depth:  | 25 m                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |   |                           |            |          |             |                           |        |                   |   |                        |       |                     |         |                       |                |                            |      |                  |      |               |                                |           |                                           |        |                                |                              |       |              |        |                             |      |

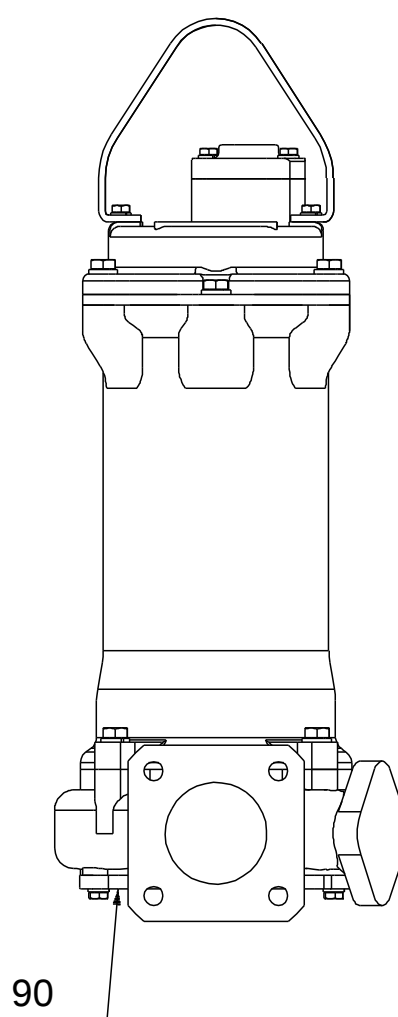
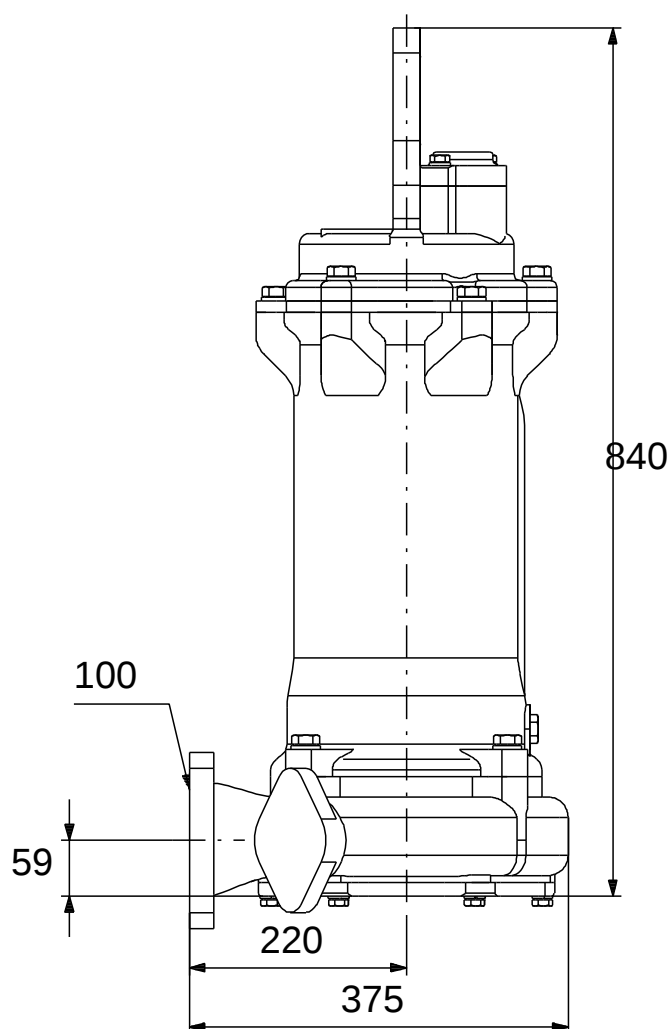
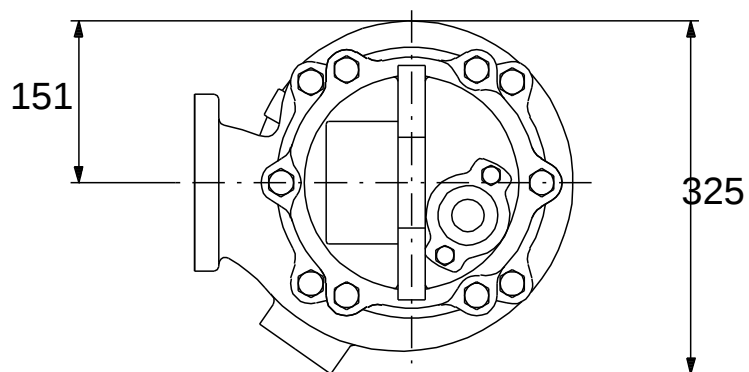
| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |      | <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>Maximum current consumption: 31 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: 177 kg</p> |

# On request DPK.20.100.150.5.0D 50 Hz



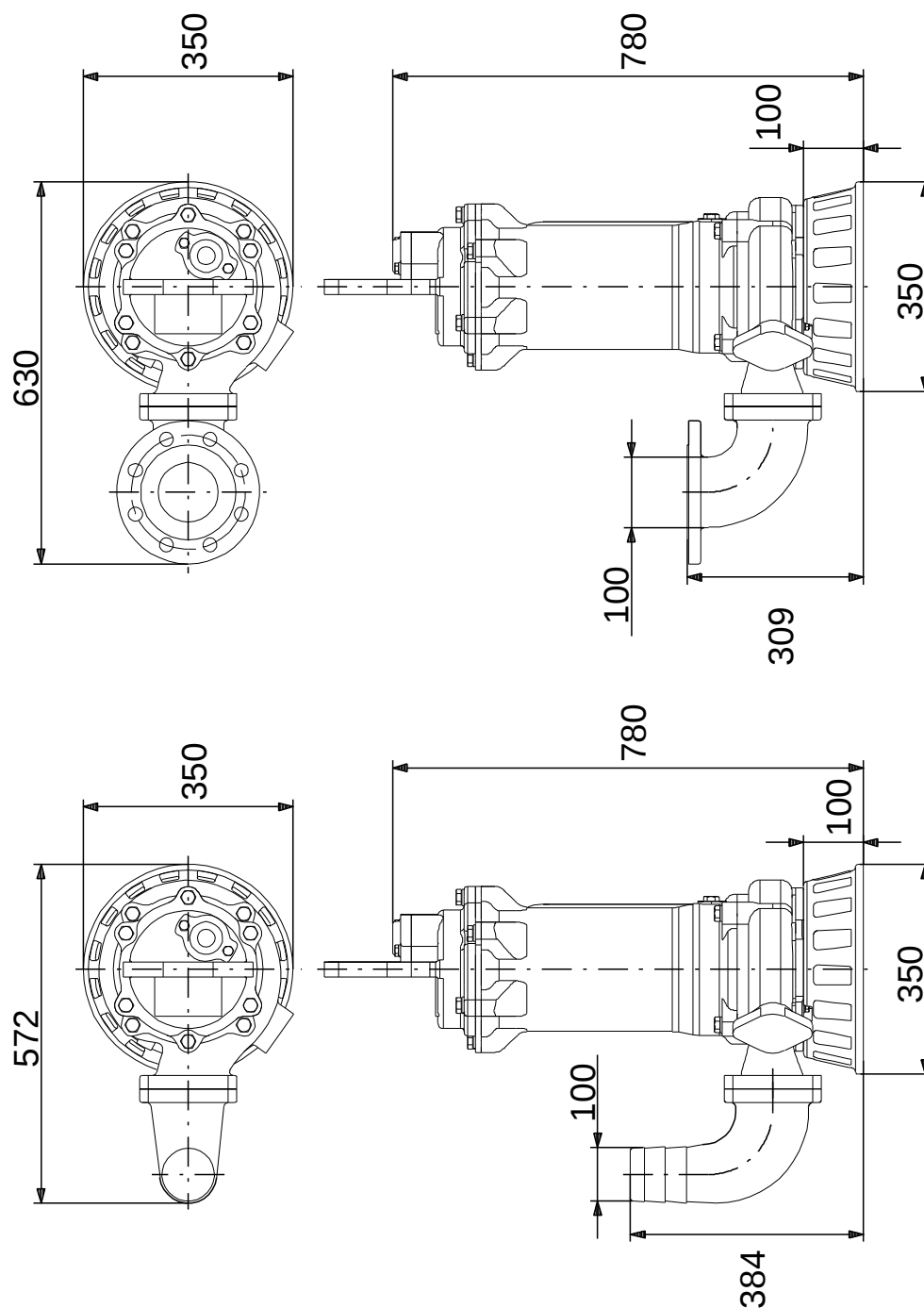


# On request DPK.20.100.150.5.0D 50 Hz



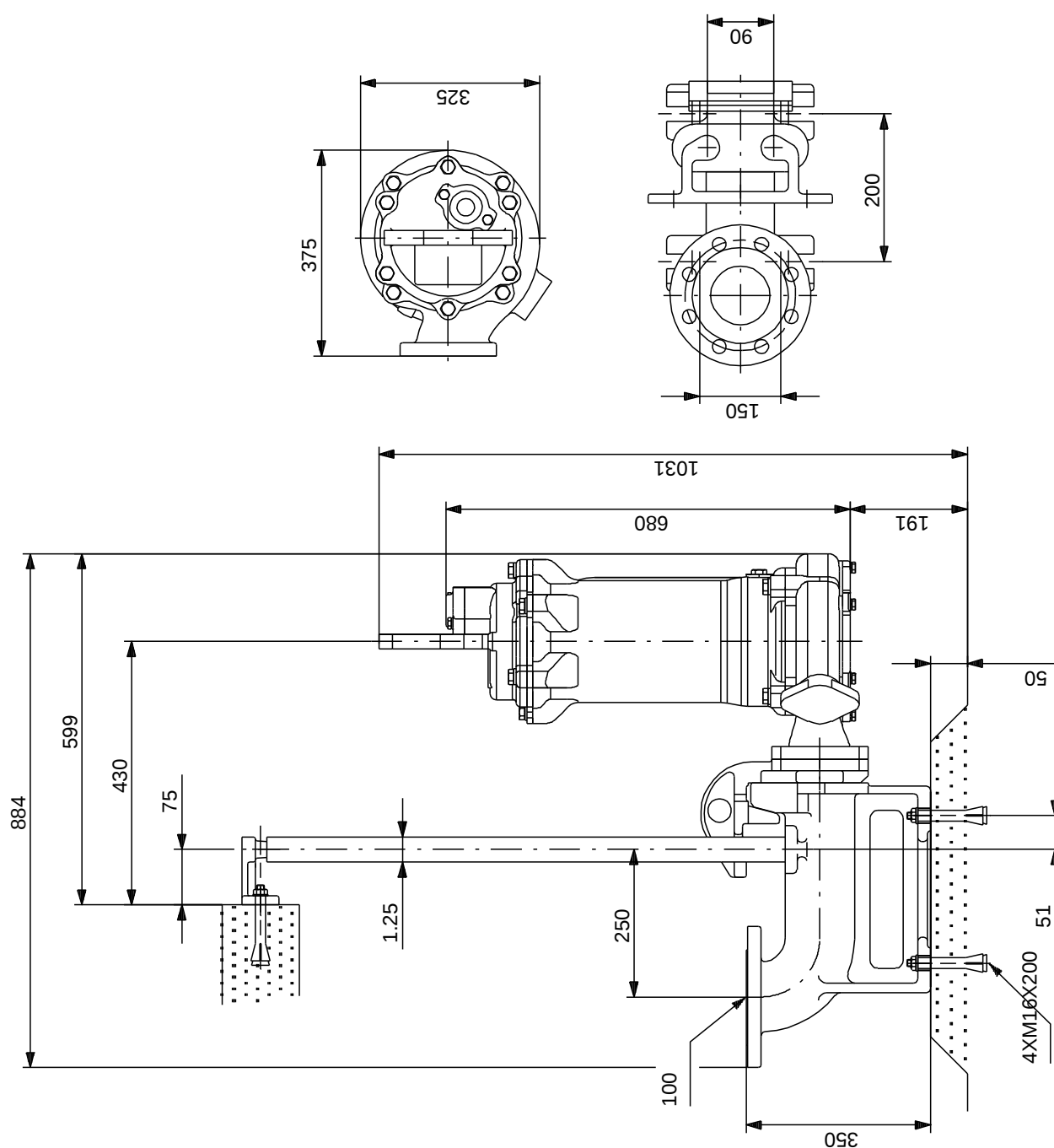
Note! All units are in [mm] unless others are stated.  
Disclaimer: This simplified dimensional drawing does not show all details.

# On request DPK.20.100.150.5.0D 50 Hz



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

# On request DPK.20.100.150.5.0D 50 Hz



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

# Exploded view



Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

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



**Parts list DPK.20.100.150.5.0D, Product No. On request**  
**Valid from 5.3.2012 (1210)**

| Pos  | Description             | Annotation | Données de classification | Référence | Quantité | Unité |
|------|-------------------------|------------|---------------------------|-----------|----------|-------|
| -    | O-ring                  |            |                           |           | 1        | pcs   |
| 37   | O-ring                  |            |                           |           | 1        |       |
| 37a  | O-ring                  |            |                           |           | 1        |       |
| 109  | O-ring                  |            |                           |           | 1        |       |
| -    | Cable                   |            |                           |           | 1        | pcs   |
|      | Hex head screw          |            |                           |           | 2        |       |
|      | Hex head screw          |            |                           |           | 1        |       |
|      | Nut                     |            |                           |           | 2        |       |
|      | Nut                     |            |                           |           | 1        |       |
|      | Clamp                   |            |                           |           | 1        |       |
|      | Rubber bush             |            |                           |           | 1        |       |
|      | Cable clamp             |            |                           |           | 1        |       |
| 168  | Cable gland             |            |                           |           | 1        |       |
| 181  | Power cable             |            |                           |           | 1        |       |
| 181a | Hex head bolt           |            |                           |           | 2        |       |
| 181b | Spring lock washer      |            |                           |           | 2        |       |
| 198  | Rubber bush             |            |                           |           | 2        |       |
| 198a | Washer                  |            |                           |           | 2        |       |
| -    | Motor assembly          |            |                           |           | 1        | pcs   |
|      | Bolt                    |            |                           |           | 1        |       |
|      | Sensor                  |            |                           |           | 1        |       |
| 35   | Hex head screw          |            |                           |           | 6        |       |
| 48   | Stator                  |            |                           |           | 1        |       |
| 55   | Motor housing           |            |                           |           | 1        |       |
| 59   | Bearing cover           |            |                           |           | 1        |       |
| 60   | Bearing housing         |            |                           |           | 1        |       |
| 60a  | Hex head screw          |            |                           |           | 4        |       |
| 60b  | Spring lock washer      |            |                           |           | 4        |       |
| 102  | Stop ring               |            |                           |           | 1        |       |
| 151  | Pump head cover         |            |                           |           | 1        |       |
| 153  | Angular-contact bearing |            |                           |           | 1        |       |
| 153a | Ball bearing            |            |                           |           | 1        |       |
| 154  | Ball bearing            |            |                           |           | 1        |       |
| 154a | Insulation plate        |            |                           |           | 1        |       |
| 172  | Shaft w/rotor           |            |                           |           | 1        |       |
| 178  | Hex head screw          |            |                           |           | 2        |       |
| 178a | Spring lock washer      |            |                           |           | 2        |       |
| 182  | Hex head screw          |            |                           |           | 6        |       |
| 182a | Spring lock washer      |            |                           |           | 6        |       |
| 183  | Hex head screw          |            |                           |           | 6        |       |
| 183a | Spring lock washer      |            |                           |           | 12       |       |
| 190  | Lifting device          |            |                           |           | 1        |       |
| 193  | Plug                    |            |                           |           | 2        |       |
| -    | Hydraulic assembly      |            |                           |           | 1        | pcs   |
| 9a   | Key                     |            |                           |           | 1        |       |
| 46   | Sealing part            |            |                           |           | 2        |       |
| 49   | Impeller                |            |                           |           | 1        |       |
| 50   | Pump housing            |            |                           |           | 1        |       |
| 66   | Washer                  |            |                           |           | 1        |       |
| 105  | Mechanical seal cpl.    |            |                           |           | 1        |       |
| 105b | Pan head screw          |            |                           |           | 3        |       |
| 188  | Cap nut                 |            |                           |           | 1        |       |
| 188a | Hex head screw          |            |                           |           | 6        |       |
| 188b | Spring lock washer      |            |                           |           | 6        |       |
| 189  | Suction cover           |            |                           |           | 1        |       |

*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.*



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