

## DW.150.110.3 3X400V 20M, Grundfos pump 96090222



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<https://www.lenntech.com/grundfos/DW000/96090222/DW-150-110-3.html>

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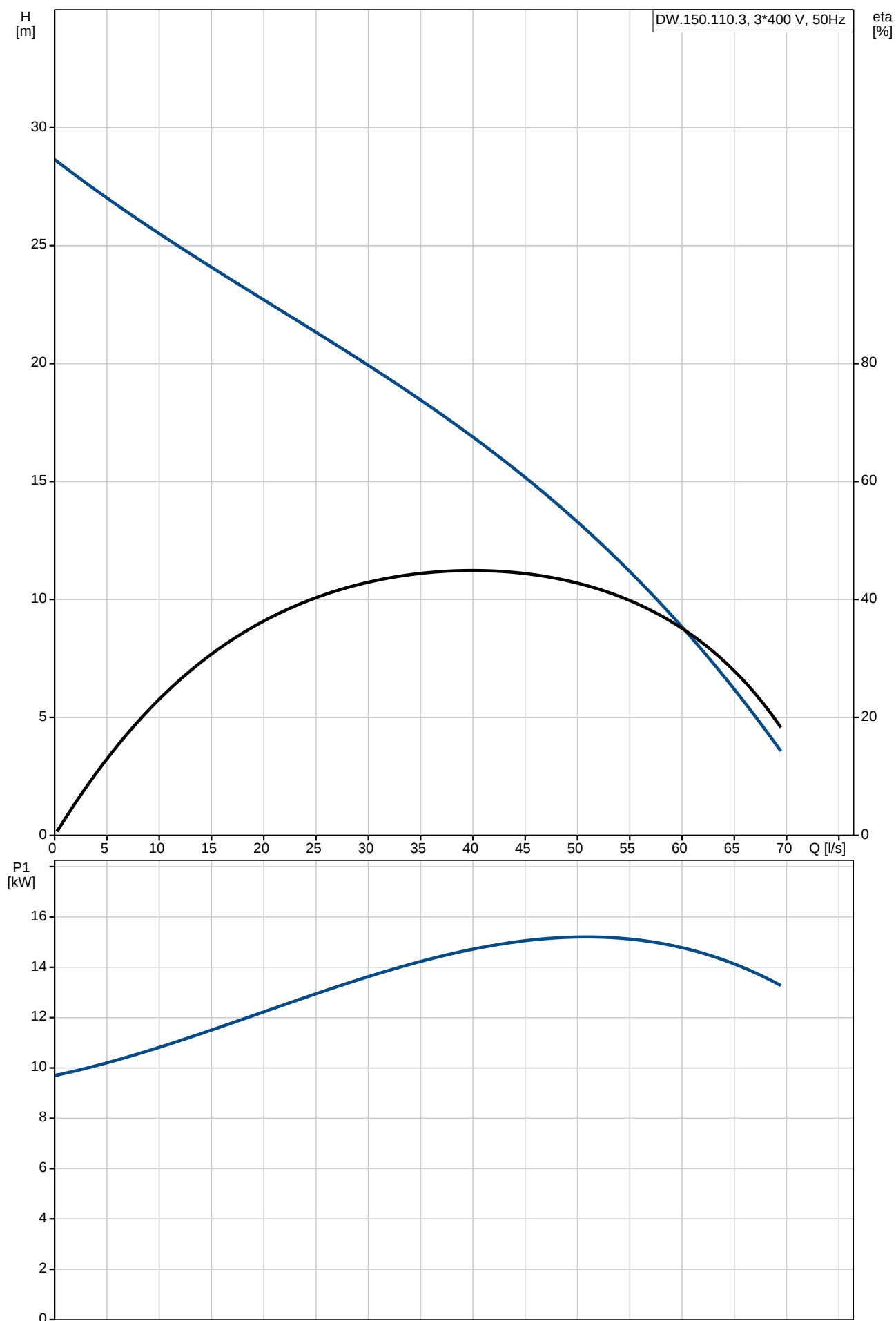
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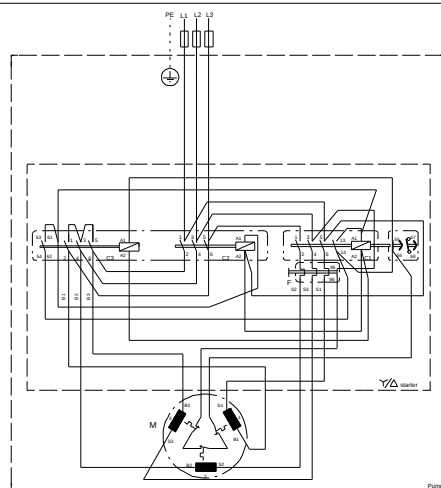
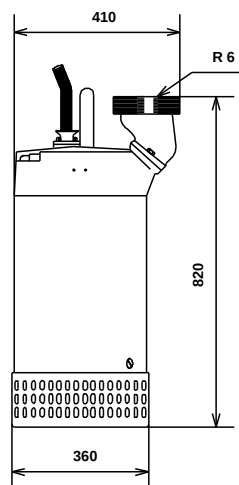
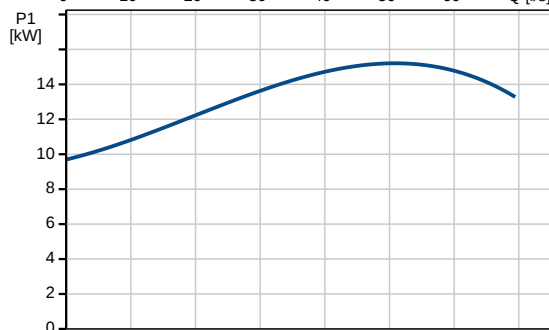
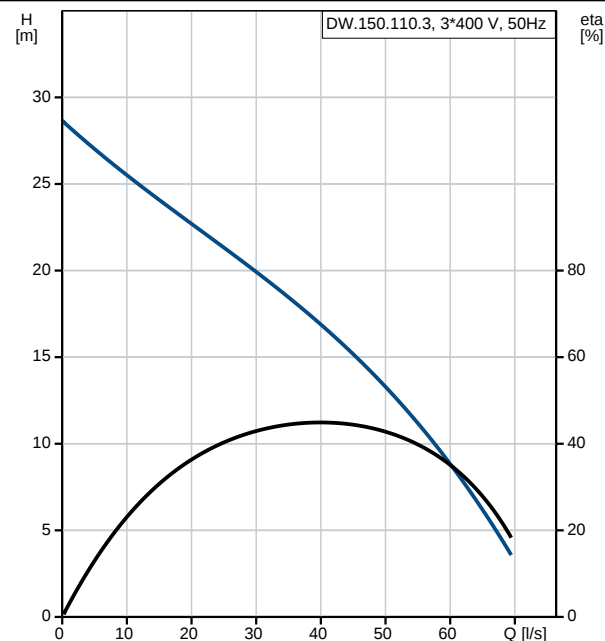
| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | 1    | <p><b>DW.150.110.3</b></p>  <p><b>Note! Product picture may differ from actual product</b></p> <p>Product No.: On request<br/>Submersible contractor pump.</p> <p>Submersible pump for dewatering in mines, tunnels, quarries and construction sites with vertical discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).</p> <p>The pump has a riser pipe, a cooling jacket for continuous cooling of the motor by the pumped liquid and long-life, deep-groove greased-for-life ball bearings. The pump has a double mechanical seal.</p> <p>The impeller is fitted between rubber parts. A rubber-coated backplate above the impeller protects the bottom of the oil chamber against wear. A rubber liner protects against wear inside the cooling jacket. When the diffuser becomes worn, it is easily adjusted against the impeller by means of the staybolts to maintain the high performance.</p> <p>The pump is fitted with suction strainer, lifting handle and a 20 m mains cable.</p> <p>The motor has thermal overload switches in the stator windings breaking at 130°C.</p> <p>Stator housing and cooling jacket of aluminium according to DIN 1712:GA15:10Mg.</p> <p><b>Liquid:</b><br/>Liquid temperature range: 0 .. 40 °C<br/>Density: 998.2 kg/m³</p> <p><b>Technical:</b><br/>Curve tolerance: ISO9906:2012 3B</p> <p><b>Materials:</b><br/>Pump housing: Aluminium<br/>Impeller: High-chromium abrasion resistant cast iron HV600</p> <p><b>Installation:</b><br/>Pump outlet: R 6<br/>Maximum installation depth: 17 m</p> <p><b>Electrical data:</b><br/>Power input - P1: 15 kW<br/>Mains frequency: 50 Hz<br/>Rated voltage: 3 x 400 V<br/>Rated current: 21 A<br/>Rated speed: 2800 rpm<br/>Start. method: star/delta</p> |

| Position | Qty. | Description                                                                                                                                                       |
|----------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |      | Enclosure class (IEC 34-5): IP68<br>Insulation class (IEC 85): F<br>Length of cable: 20 m<br>Type of cable plug: NONE<br><br><b>Others:</b><br>Net weight: 110 kg |

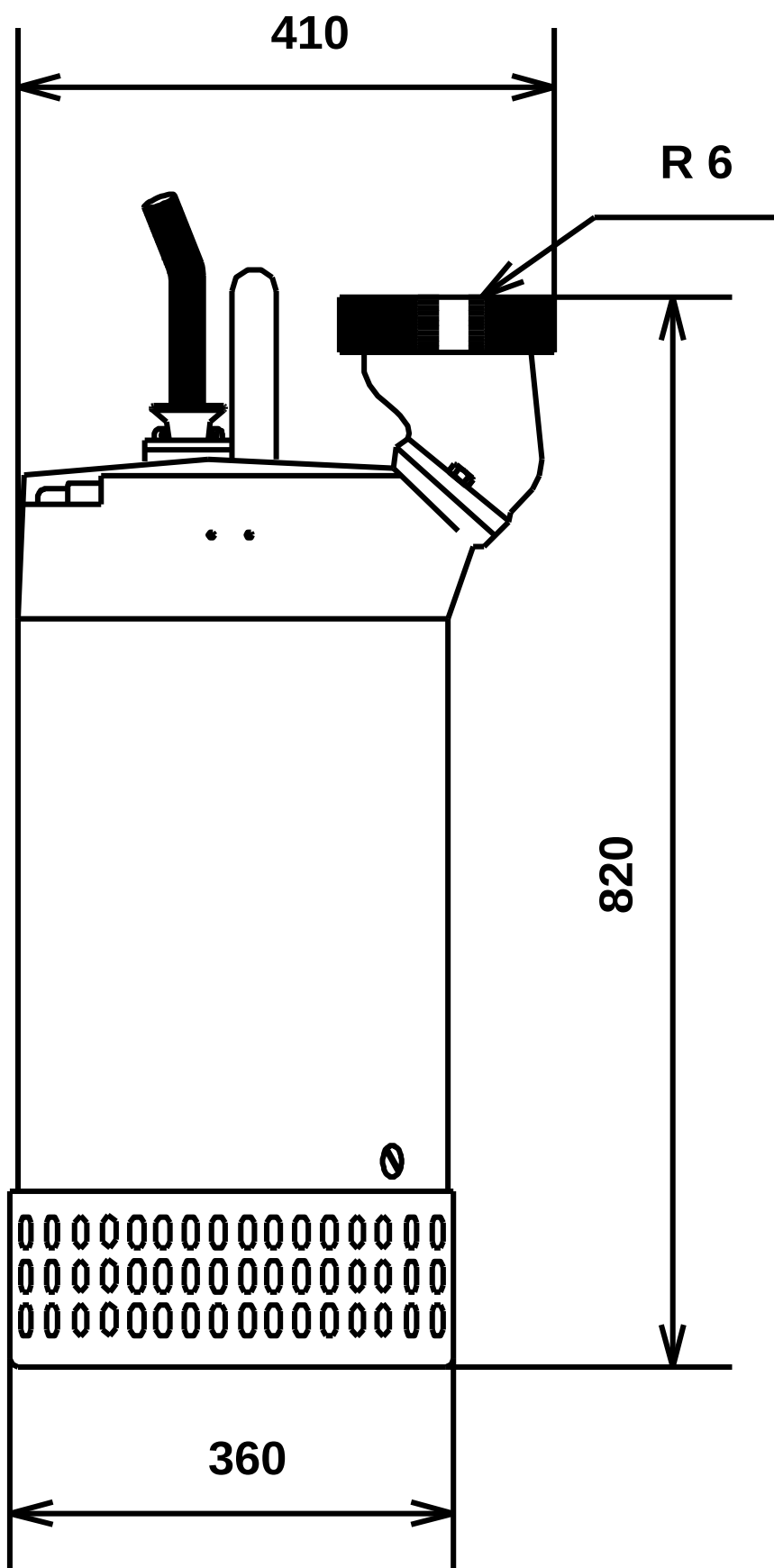
# On request DW.150.110.3 50 Hz



| Description                 | Value                                            |
|-----------------------------|--------------------------------------------------|
| <b>General information:</b> |                                                  |
| Product name:               | DW.150.110.3                                     |
| Product No:                 | On request                                       |
| EAN number:                 | On request                                       |
| <b>Technical:</b>           |                                                  |
| Max flow:                   | 68.9 l/s                                         |
| Head max:                   | 28.5 m                                           |
| Curve tolerance:            | ISO9906:2012 3B                                  |
| <b>Materials:</b>           |                                                  |
| Pump housing:               | Aluminium                                        |
| Impeller:                   | High-chromium abrasion resistant cast iron HV600 |
| <b>Installation:</b>        |                                                  |
| Pump outlet:                | R 6                                              |
| Maximum installation depth: | 17 m                                             |
| Inst dry/wet:               | S                                                |
| Installation:               | vertical                                         |
| <b>Liquid:</b>              |                                                  |
| Liquid temperature range:   | 0 .. 40 °C                                       |
| Density:                    | 998.2 kg/m <sup>3</sup>                          |
| <b>Electrical data:</b>     |                                                  |
| Power input - P1:           | 15 kW                                            |
| P2:                         | 11 kW                                            |
| Mains frequency:            | 50 Hz                                            |
| Rated voltage:              | 3 x 400 V                                        |
| Rated current:              | 21 A                                             |
| Rated speed:                | 2800 rpm                                         |
| Start. method:              | star/delta                                       |
| Enclosure class (IEC 34-5): | IP68                                             |
| Insulation class (IEC 85):  | F                                                |
| Motor protec:               | CONTACT                                          |
| Thermal protec:             | internal                                         |
| Length of cable:            | 20 m                                             |
| Type of cable plug:         | NONE                                             |
| <b>Others:</b>              |                                                  |
| Net weight:                 | 110 kg                                           |



**On request DW.150.110.3 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 DW.150.110.3, Product No. On request**  
**Valid from 1.12.1998 (9849)**

| Pos  | Description               | Annotation | Données de classification                                     | Référence | Quantité | Unité |
|------|---------------------------|------------|---------------------------------------------------------------|-----------|----------|-------|
|      | Kit, stator w/housing     |            |                                                               |           | 1        | pcs   |
|      | Hex head bolt             |            | Length (mm): 35<br>Thread: 10                                 |           | 3        | pcs   |
| 3    | Washer                    |            |                                                               |           | 12       | pcs   |
| 6    | Washer                    |            |                                                               |           | 6        | pcs   |
| 6    | Washer                    |            |                                                               |           | 3        | pcs   |
| 6    | Washer                    |            |                                                               |           | 2        | pcs   |
| 14   | Hex socket head cap screw |            |                                                               |           | 1        | pcs   |
| 15   | Washer                    |            | Internal diameter: 10.2<br>Outer diameter: 21<br>Thickness: 4 |           | 1        | pcs   |
| 15   | Washer                    |            |                                                               |           | 1        | pcs   |
| 16   | O-ring                    |            |                                                               |           | 1        | pcs   |
| 23   | Rubber plug               |            |                                                               |           | 2        | pcs   |
| 26   | Stud bolt                 |            |                                                               |           | 2        | pcs   |
| 31   | Seal ring                 |            |                                                               |           | 3        | pcs   |
| 34   | O-ring                    |            |                                                               |           | 1        | pcs   |
| 34   | O-ring                    |            |                                                               |           | 1        | pcs   |
| 34   | O-ring                    |            |                                                               |           | 2        | pcs   |
| 37   | Shaft seal                |            |                                                               |           | 1        | pcs   |
| 38   | Bearing retainer          |            |                                                               |           | 1        | pcs   |
| 42   | Washer                    |            |                                                               |           | 1        | pcs   |
| 46   | Hex socket head cap screw |            | Length (mm): 14<br>Thread: M12                                |           | 2        | pcs   |
| 49   | O-ring                    |            |                                                               |           | 1        | pcs   |
| 51   | O-ring                    |            |                                                               |           | 1        | pcs   |
| 54   | Ball bearing              |            |                                                               |           | 1        | pcs   |
| 55   | O-ring                    |            |                                                               |           | 1        | pcs   |
| 59   | Nut                       |            |                                                               |           | 1        | pcs   |
| 61   | O-ring                    |            | Diameter: 59.5<br>Material type: NBR<br>Thickness: 3          |           | 1        | pcs   |
| 62   | Cover                     |            |                                                               |           | 1        | pcs   |
| 65   | Hex socket head cap screw |            |                                                               |           | 3        | pcs   |
| 74   | Cover                     |            |                                                               |           | 1        | pcs   |
| 75   | Washer                    |            |                                                               |           | 1        | pcs   |
| 76   | Rubber bush               |            |                                                               |           | 1        | pcs   |
| 77   | Washer                    |            |                                                               |           | 1        | pcs   |
| 81   | Slot cheese head screw    |            |                                                               |           | 2        | pcs   |
| 83   | O-ring                    |            |                                                               |           | 2        | pcs   |
| 84   | Handle                    |            |                                                               |           | 1        | pcs   |
| 89   | Hex socket head cap screw |            |                                                               |           | 2        | pcs   |
| 92   | Main switch contactor     |            |                                                               |           | 1        | pcs   |
| 97   | Socket pan head screw     |            |                                                               |           | 6        | pcs   |
| 99   | Washer                    |            |                                                               |           | 1        | pcs   |
| 101  | Y/D starter               |            |                                                               |           | 1        | pcs   |
| 105  | Retaining ring            |            |                                                               |           | 1        | pcs   |
| 106  | O-ring                    |            | Diameter: 62<br>Material type: NBR<br>Thickness: 3            |           | 1        | pcs   |
| 118a | Hex socket head cap screw |            |                                                               |           | 3        | pcs   |

*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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