GRUNDFOS **DATA BOOKLET**

# DPK.10.50.075.5.0D

## Grundfos pump 96884078



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

https://www.lenntech.com/grundfos/DPK000/96884078/DPK-10-50-075-5-0D.html

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| Position | Qty. | Description |
|---|---|---|
| | 1 | **DPK.10.50.075.5.0D** |



Product No.: On request

Submersible Drainage Pump

Grundfos DPK pump is a submersible pump for drainage applications.

The pump has semi-open impeller for 10mm free passage and is suitable for pumping
·large quantities of underground and surface water
·drainage water at high head

The compact design makes the pump suitable for both temporary and permanent installation.

The pump is cast iron, with side discharge port and integrated submersible 3-phase totally enclosed motor in insulation class F (155°C).

The pump has a side discharge and a double mechanical seal.

The pump is ready for installation either free-standing or on an auto-coupling system.

The pump is equipped with temperature bi-metal sensor for motor protection in case of overheating.

The pump is fitted with 10 m cable.

**Controls:**

| | |
|---|---|
| Seal sensor: | N |

**Liquid:**

| | |
|---|---|
| Liquid temperature range: | 0 .. 40 °C |
| Density: | 998.2 kg/m³ |

**Technical:**

| | |
|---|---|
| Actual impeller diameter: | 112 mm |
| Type of impeller: | O |
| Maximum particle size: | 10 mm |
| Primary shaft seal: | SIC-SIC |
| Secondary shaft seal: | CERAMIC-CARBON |
| Max. hydraulic efficiency: | 46 % |
| Curve tolerance: | NONE |

**Materials:**

| | |
|---|---|
| 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 |

**Installation:**

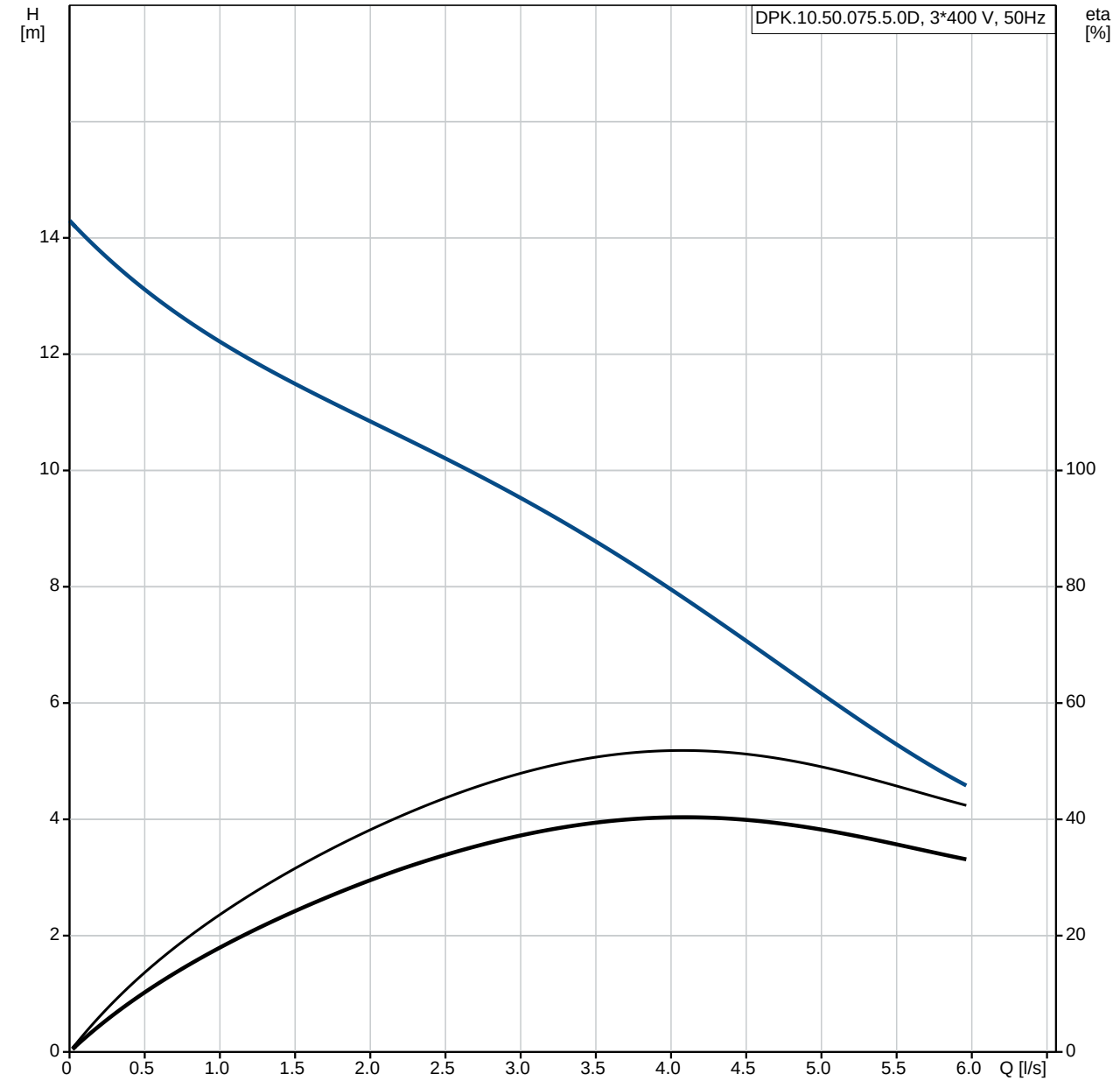
| | |
|---|---|
| Maximum ambient temperature: | 40 °C |
| Pump outlet: | DN 50 |
| Maximum installation depth: | 25 m |

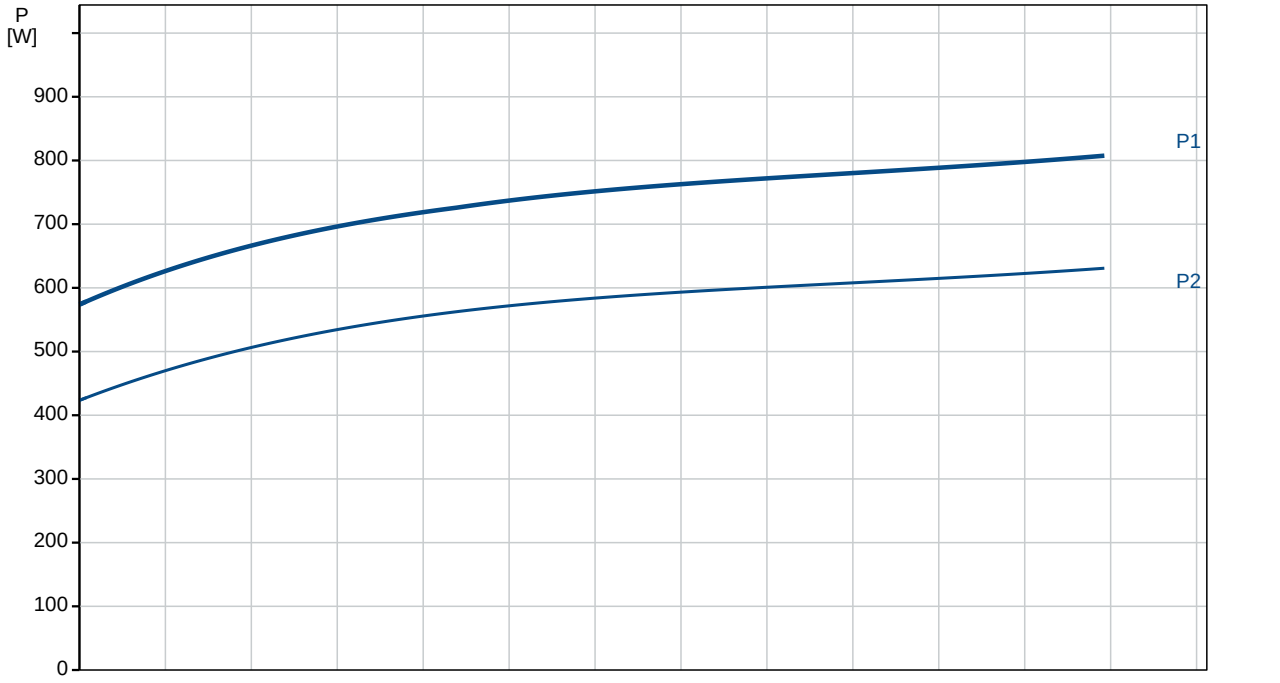
**Electrical data:**

| | |
|---|---|
| Rated power - P2: | 0.75 kW |

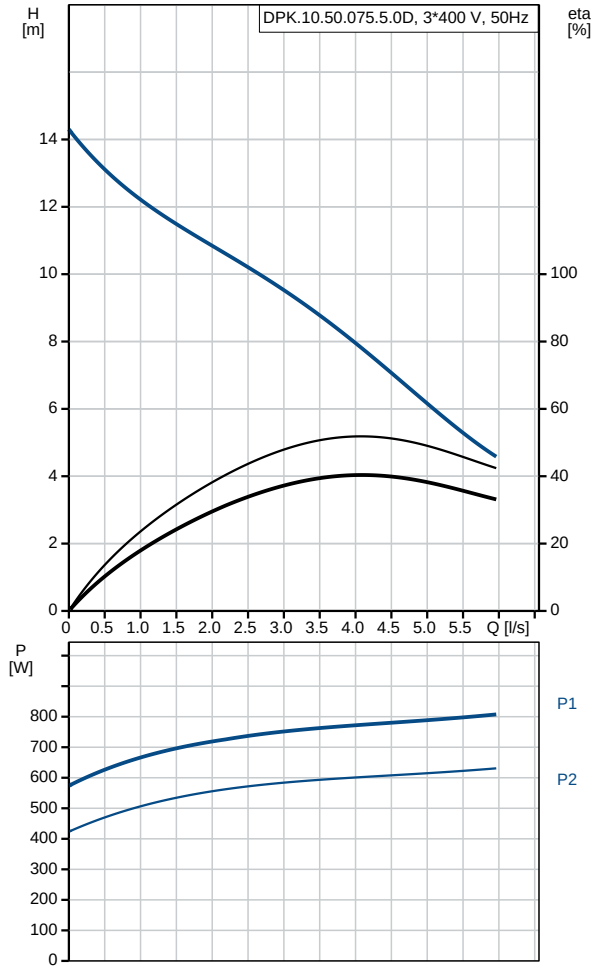
| Position | Qty. | Description | |
|---|---|---|---|
| | | Mains frequency: | 50 Hz |
| | | Rated voltage: | 3 x 380-415 V |
| | | Voltage tolerance: | +5/-5 % |
| | | Max starts per. hour: | 30 |
| | | Rated current: | 1.6 A |
| | | Rated current at 3/4 load: | 1.4 A |
| | | Rated current at 1/2 load: | 1.1 A |
| | | Maximum current consumption: | 2 A |
| | | Cos phi - power factor: | 0.88 |
| | | Cos phi - p.f. at 3/4 load: | 0.82 |
| | | Cos phi - p.f. at 1/2 load: | 0.72 |
| | | Rated speed: | 2850 rpm |
| | | Motor efficiency at full load: | 79.2 % |
| | | Motor efficiency at 3/4 load: | 77.5 % |
| | | Motor efficiency at 1/2 load: | 72.5 % |
| | | 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 |
| | | | |
| | | **Others:** | |
| | | Net weight: | 31 kg |

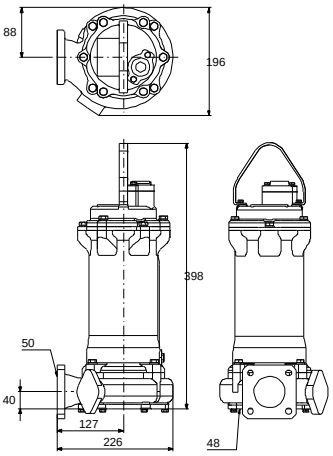
# On request DPK.10.50.075.5.0D 50 Hz

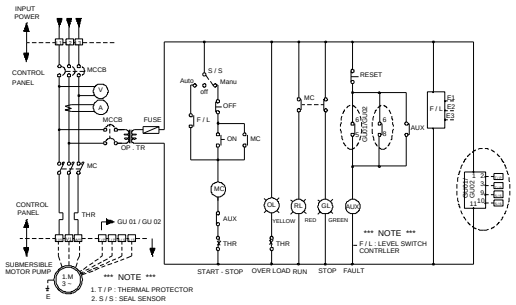


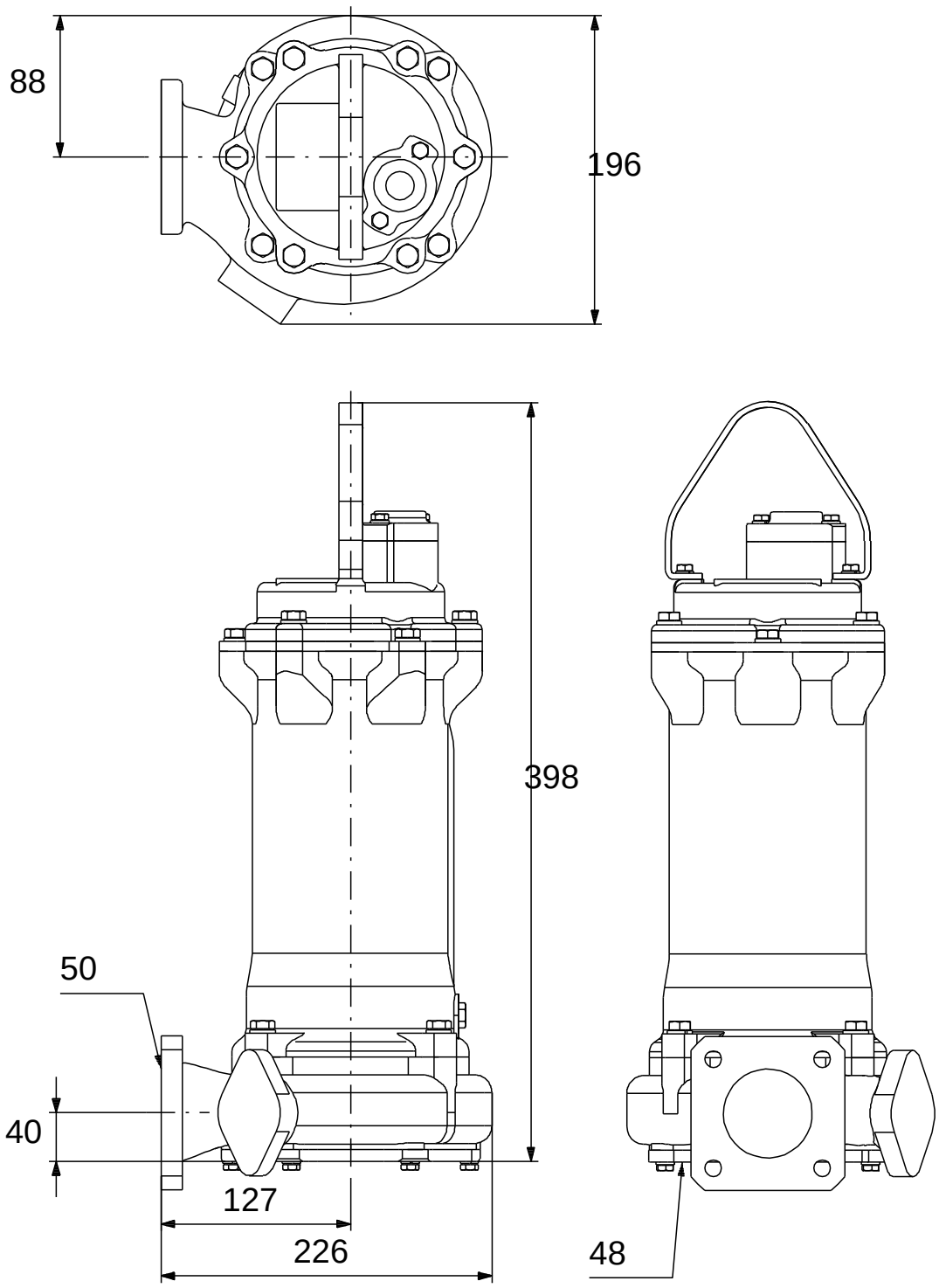
| Description | Value |
|---|---|
| **General information:** | |
| Product name: | DPK.10.50.075.5.0D |
| Product No: | On request |
| EAN number: | On request |
| **Technical:** | |
| Max flow: | 6.47 l/s |
| Head min: | 2.8 m |
| Head max: | 13.5 m |
| Actual impeller diameter: | 112 mm |
| Type of impeller: | O |
| Maximum particle size: | 10 mm |
| Primary shaft seal: | SIC-SIC |
| Secondary shaft seal: | CERAMIC-CARBON |
| Max. hydraulic efficiency: | 46 % |
| Curve tolerance: | NONE |
| **Materials:** | |
| Pump housing: | Cast iron |
| | EN1561 EN-GJL-200 |
| Impeller: | Ductile cast iron |
| | EN1563 EN-GJS-450-10 |
| Motor: | Cart iron |
| | EN1561 EN-GJL-200 |
| **Installation:** | |
| Maximum ambient temperature: | 40 °C |
| Pump outlet: | DN 50 |
| Maximum installation depth: | 25 m |
| **Liquid:** | |
| Liquid temperature range: | 0 .. 40 °C |
| Density: | 998.2 kg/m³ |
| Min. pH-value: | 4 |
| **Electrical data:** | |
| Rated power - P2: | 0.75 kW |
| Mains frequency: | 50 Hz |
| Rated voltage: | 3 x 380-415 V |
| Voltage tolerance: | +5/-5 % |
| Max starts per. hour: | 30 |
| Rated current: | 1.6 A |
| Rated current at 3/4 load: | 1.4 A |
| Rated current at 1/2 load: | 1.1 A |
| Maximum current consumption: | 2 A |
| Cos phi - power factor: | 0.88 |
| Cos phi - p.f. at 3/4 load: | 0.82 |
| Cos phi - p.f. at 1/2 load: | 0.72 |
| Rated speed: | 2850 rpm |
| Motor efficiency at full load: | 79.2 % |
| Motor efficiency at 3/4 load: | 77.5 % |
| Motor efficiency at 1/2 load: | 72.5 % |
| 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: | 4X1.5MM2+2X1MM2 |
| **Controls:** | |
| Seal sensor: | N |
| Sensor type: | N |
| **Others:** | |
| Net weight: | 31 kg |



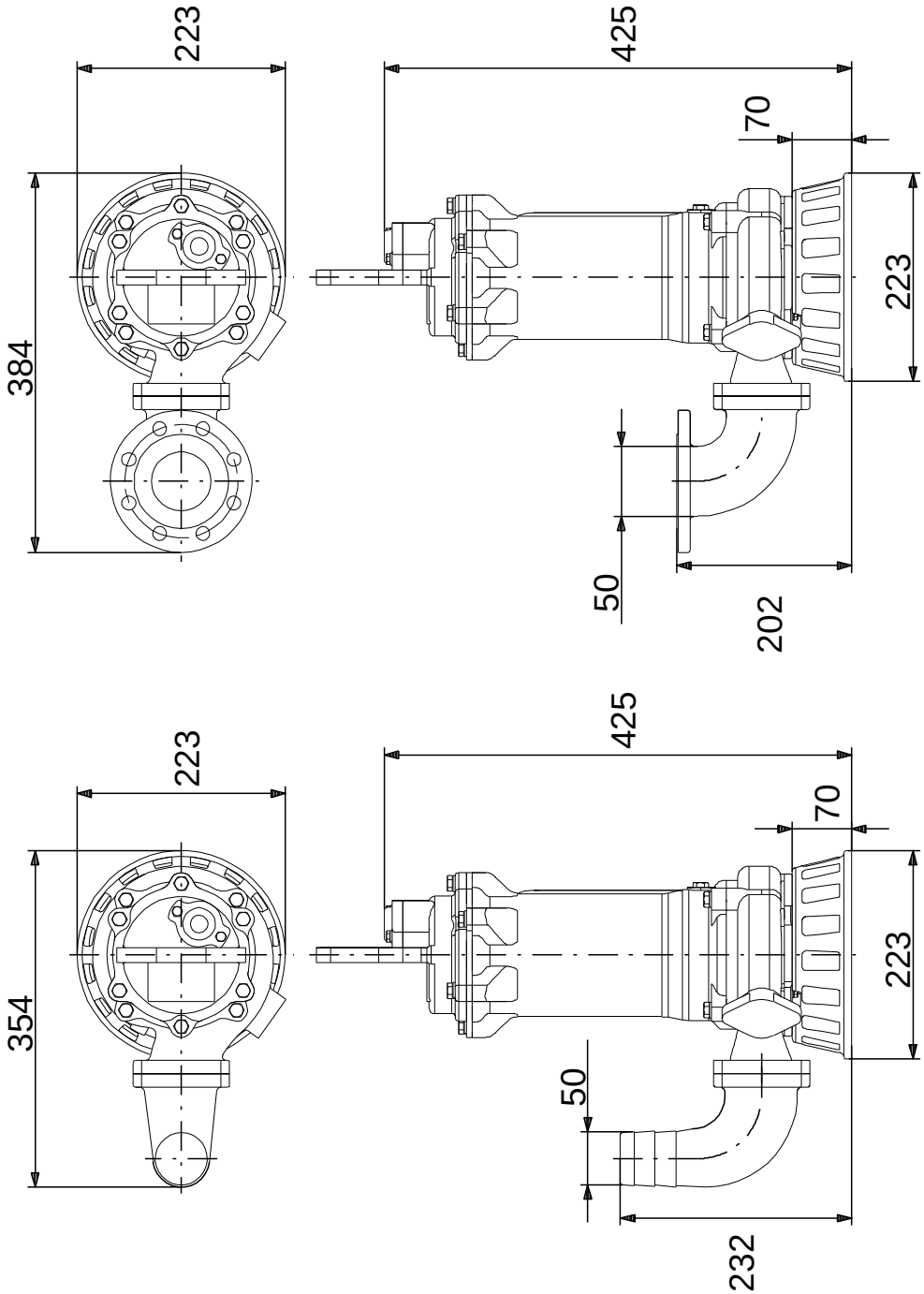



# On request DPK.10.50.075.5.0D 50 Hz



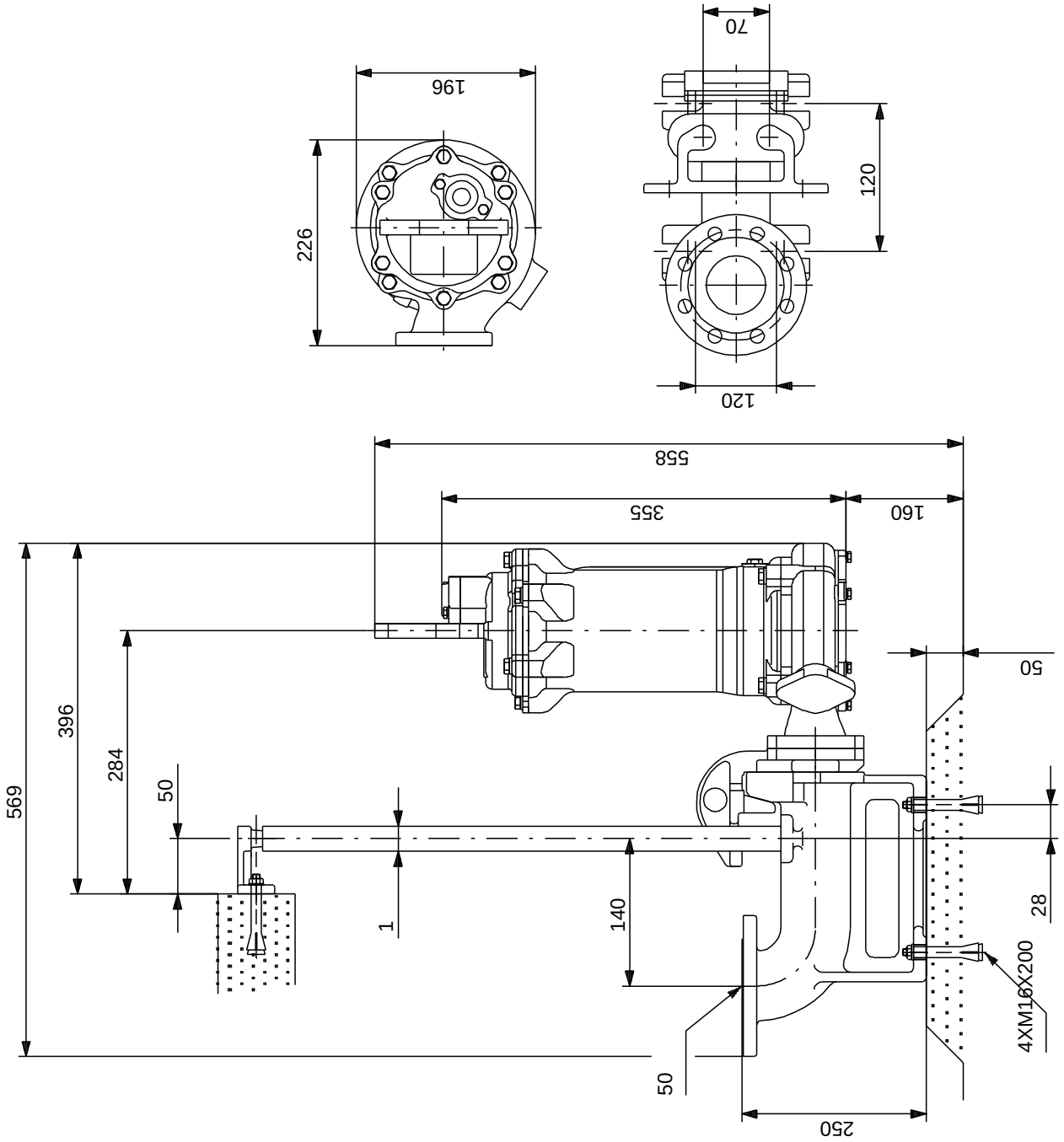

Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

# On request DPK.10.50.075.5.0D 50 Hz



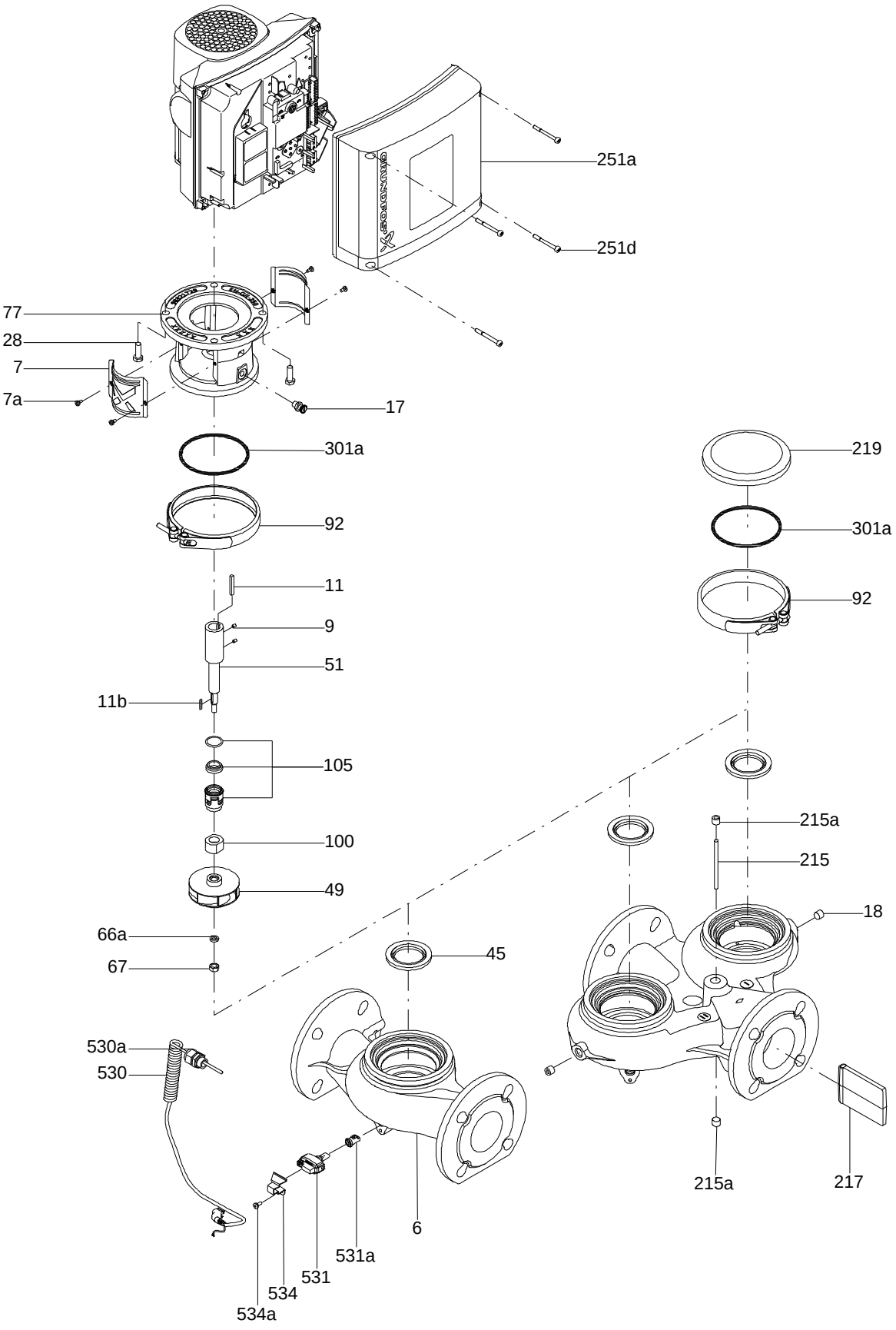

Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

# On request DPK.10.50.075.5.0D 50 Hz

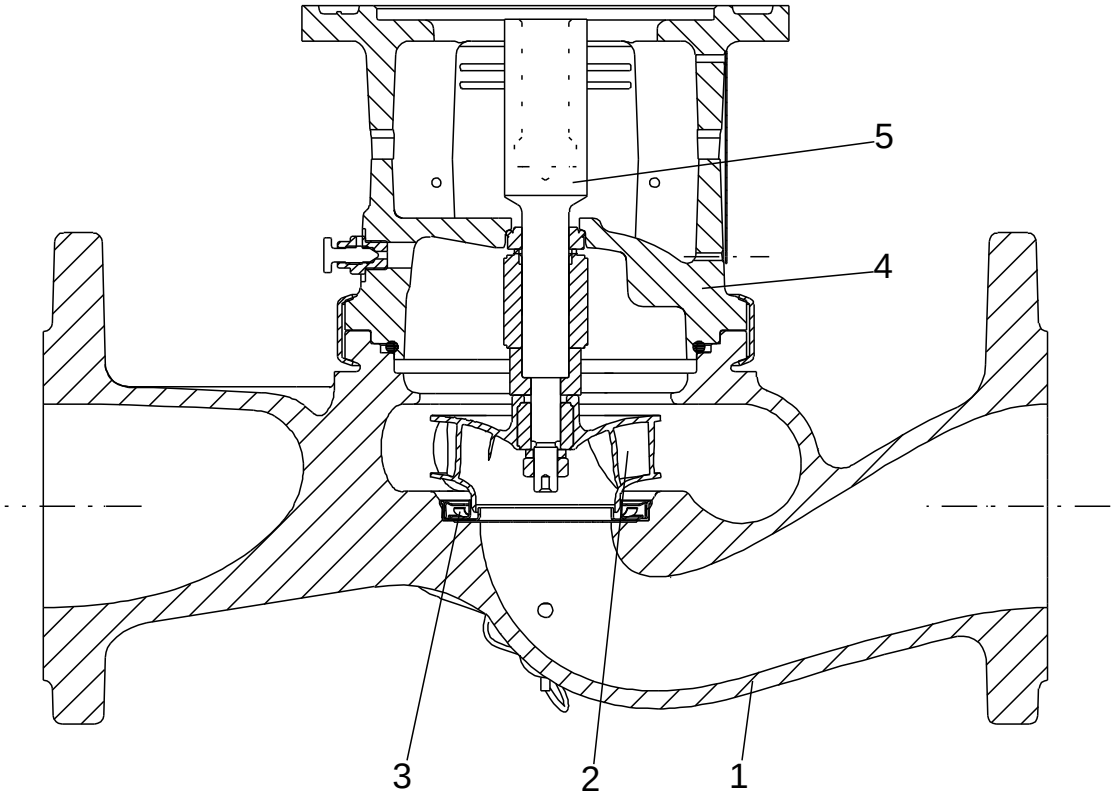



Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

## Exploded view

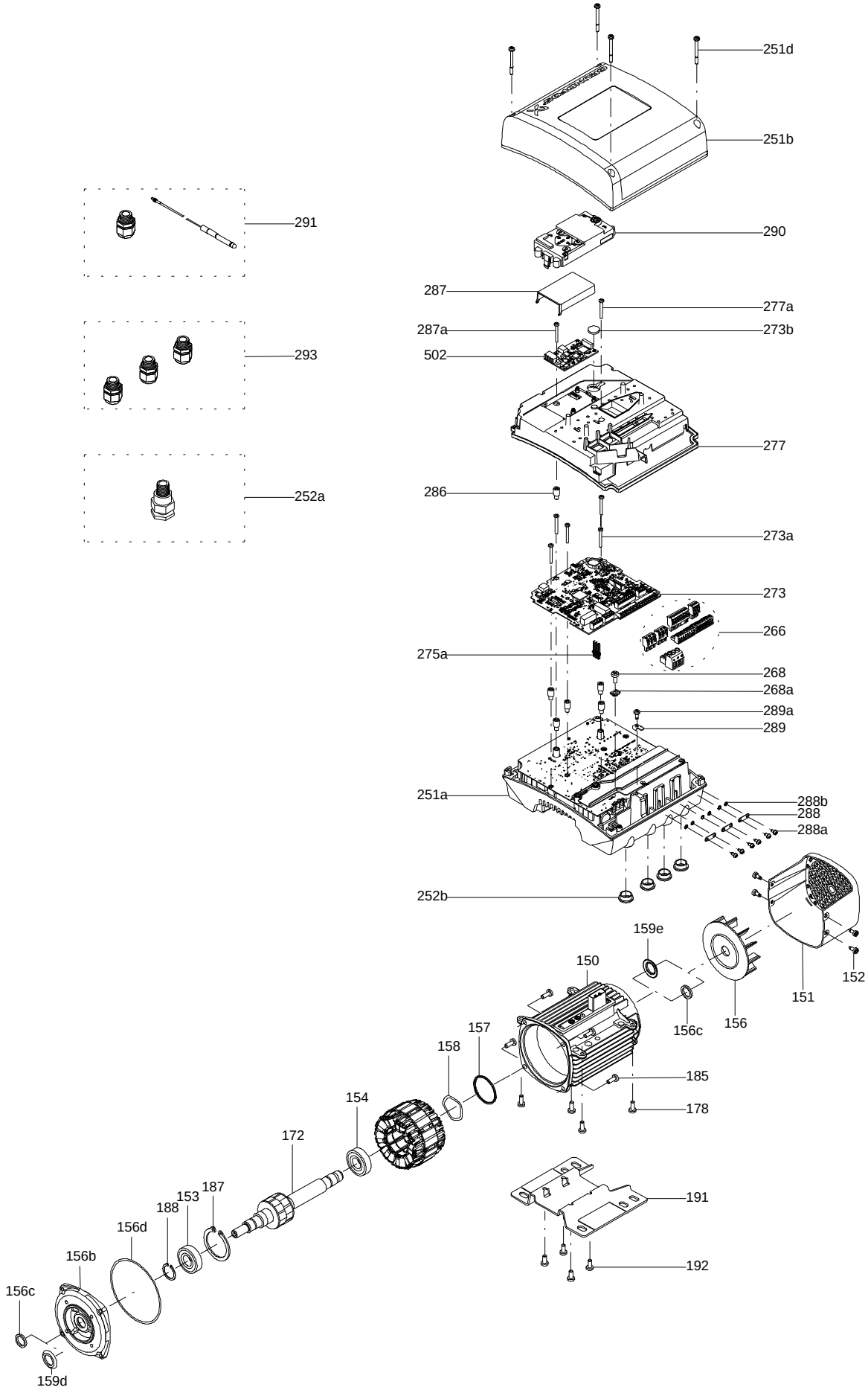


**Sectional drawing (TM058200 for TPE2,TPE3)**




TM058200

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



# Parts list DPK.10.50.075.5.0D, Product No. On request
# Valid from 1.5.2009 (0918)

| | 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 | | | | 1 | |
| | | Hex head screw | | | | 1 | |
| | | Nut | | | | 1 | |
| | | Nut | | | | 1 | |
| | | Clamp | | | | 1 | |
| | | Clamp | | | | 1 | |
| | | Rubber bush | | | | 1 | |
| | 168 | Stuffing box | | | | 1 | |
| | 168a | Rubber | | | | 1 | |
| | 181 | Power cable | | | | 1 | |
| | 181a | Screw | | Designation: AISI 304 | | 3 | |
| | | | | Length (mm): 16 | | | |
| | | | | Thread: M6 | | | |
| | 181b | Lock washer | | | | 3 | |
| + | | Kit, base stand vertikal | | | | 1 | pcs |
| - | | Motor assembly | | | | 1 | pcs |
| | | Bolt | | | | 1 | |
| | 48 | Stator | | | | 1 | |
| | 55 | Motor housing | | | | 1 | |
| | 59 | Bearing cover | | | | 1 | |
| | 59 | Spring lock washer | | | | 3 | |
| | 60 | Bearing housing | | | | 1 | |
| | 60b | Hex head screw | | | | 3 | |
| | 102 | Stop ring | | | | 1 | |
| | 151 | Pump head cover | | | | 1 | |
| | 153 | Ball bearing | | | | 1 | |
| | 154 | Ball bearing | | | | 1 | |
| | 154 | Hex head bolt | | | | 4 | |
| | 154a | Insulation plate | | | | 1 | |
| | 172 | Shaft w/rotor | | | | 1 | |
| | 178a | Hex head screw | | | | 2 | |
| | 181a | Hex head bolt | | | | 4 | |
| | 182a | Hex socket head cap screw | | Length (mm): 20 | | 3 | |
| | | | | Thread: M8 | | | |
| | 183 | Lock washer | | | | 6 | |
| | 183a | Spring lock washer | | | | 4 | |
| | 186a | Spring lock washer | | | | 3 | |
| | 190 | Lifting device | | | | 1 | |
| | 193 | Plug | | | | 2 | |
| - | | Hydraulic assembly | | | | 1 | pcs |
| | 9a | Key | | | | 1 | |
| | 49 | Impeller | | | | 1 | |
| | 50 | Pump housing | | | | 1 | |
| | 66 | Spring lock washer | | | | 1 | |
| | 84a | Stand | | | | 1 | |
| | 105 | Mechanical seal cpl. | | | | 1 | |
| | 188 | Cap nut | | | | 1 | |
| | 188a | Hex head screw | | | | 6 | |
| | 188b | 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.*

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