

## DWK.E.10.200.900.5.1D.R

Grundfos pump 96922758



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<https://www.lenntech.com/grundfos/DWK000/96922758/DWK-E-10-200-900-5-1D-R.html>

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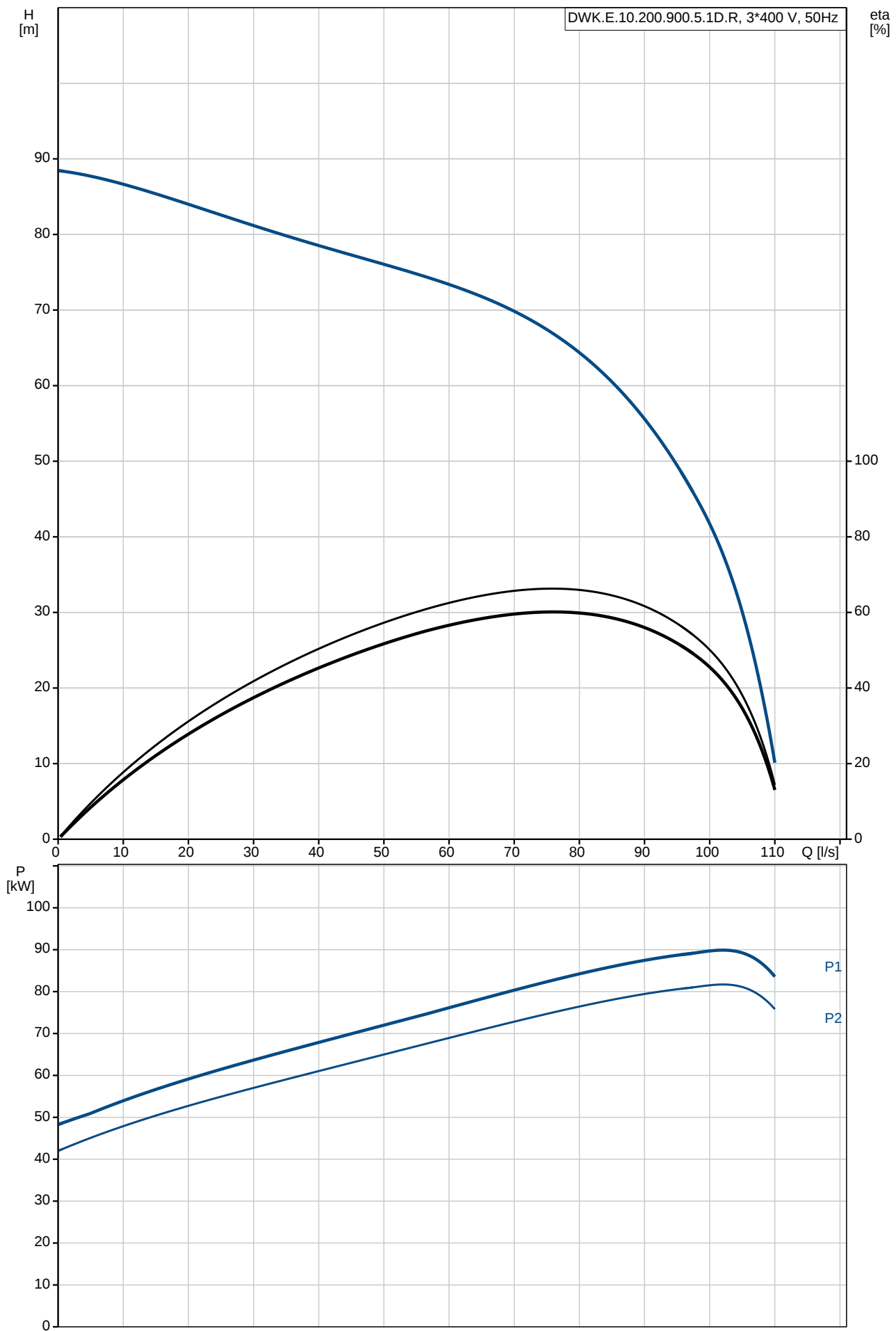
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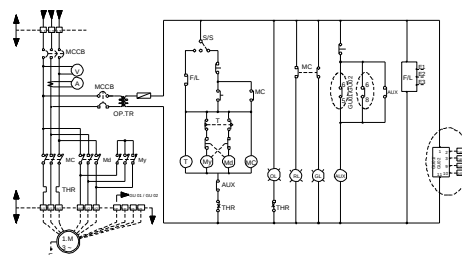
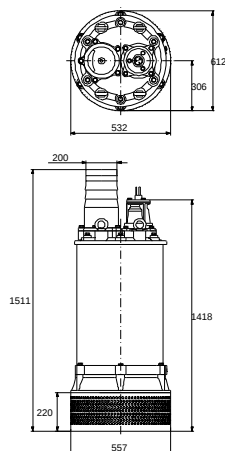
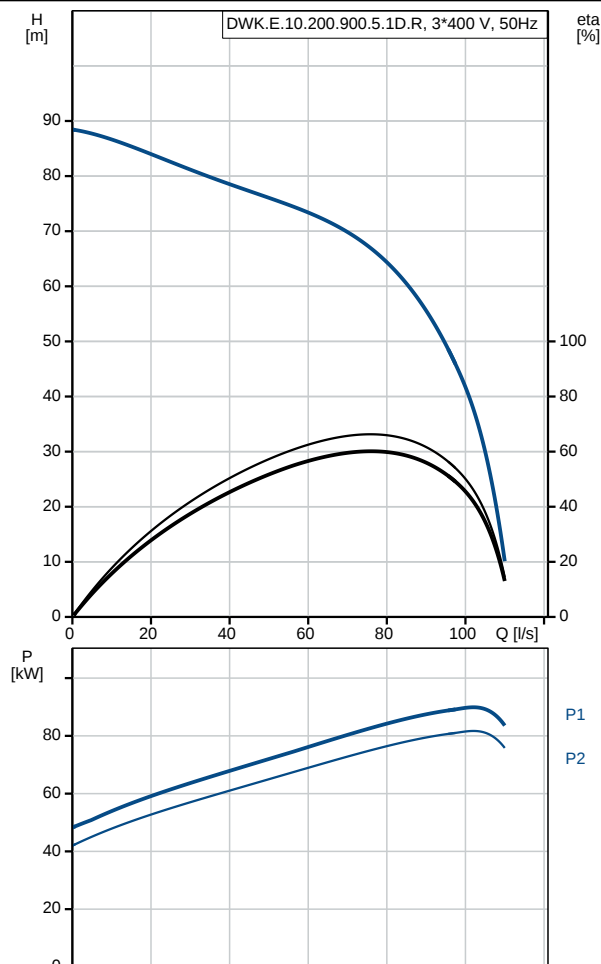
| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | 1    | <p><b>DWK.E.10.200.900.5.1D.R</b></p>  <p><b>Note! Product picture may differ from actual product</b></p> <p>Product No.: On request</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>·water with dirt from drainage pits</li> <li>·water with sand from construction sites, excavation sites and tunnels</li> </ul> <p>The pump design makes it 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 cooling jacket for continuous cooling of the motor by the pumped liquid and a high chrome stainless steel enclosed impeller to ensure high efficiency and maintained performance.</p> <p>The pump is equipped with a double mechanical seal and an additional lip seal that prevents the shaft and the mechanical seal from abrasives.</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 and 10 m cable.</p> <p>The cable sealing consist of a rubber bushing, epoxy and rubber cover that eliminates the risk of water penetration in to the motor.</p> <p>The pump is equipped with a hose coupling discharge.</p> <p><b>Controls:</b></p> <p>Seal sensor: Y</p> <p><b>Liquid:</b></p> <p>Liquid temperature range: 0 .. 40 °C</p> <p>Density: 998.2 kg/m³</p> <p><b>Technical:</b></p> <p>Actual impeller diameter: 275 mm</p> <p>Type of impeller: E</p> <p>Maximum particle size: 10 mm</p> <p>Primary shaft seal: SIC-SIC</p> <p>Secondary shaft seal: CERAMIC-CARBON</p> <p>Max. hydraulic efficiency: 70 %</p> |

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |      | <p>Curve tolerance: ISO9906:2012 3B</p> <p><b>Materials:</b></p> <p>Pump housing: Cast iron<br/>EN1561 EN-GJL-200</p> <p>Impeller: high-chrome stainless steel<br/>DIN W.-Nr. HI-CR</p> <p>Motor: Cast iron<br/>EN1561 EN-GJL-200</p> <p><b>Installation:</b></p> <p>Maximum ambient temperature: 40 °C</p> <p>Pump outlet: DN 200</p> <p>Maximum installation depth: 25 m</p> <p><b>Electrical data:</b></p> <p>Rated power - P2: 90 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: 18</p> <p>Rated current: 172 A</p> <p>Rated current at 3/4 load: 135 A</p> <p>Rated current at 1/2 load: 101 A</p> <p>Cos phi - power factor: 0.87</p> <p>Cos phi - p.f. at 3/4 load: 0.838</p> <p>Cos phi - p.f. at 1/2 load: 0.76</p> <p>Rated speed: 2850 rpm</p> <p>Motor efficiency at full load: 91.1 %</p> <p>Motor efficiency at 3/4 load: 90.5 %</p> <p>Motor efficiency at 1/2 load: 88.5 %</p> <p>Number of poles: 2</p> <p>Start. method: star/delta</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: 1020 kg</p> |

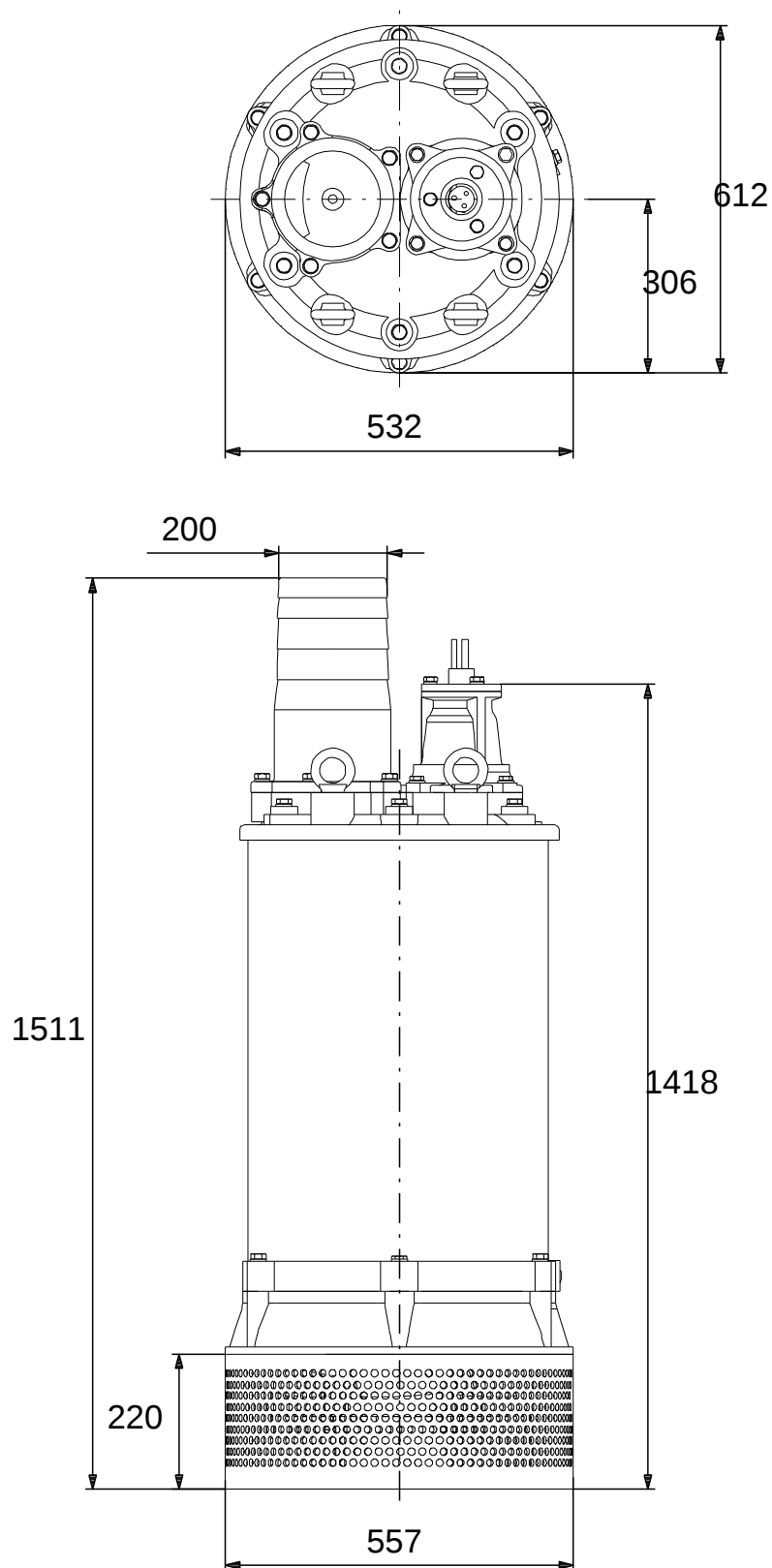
On request DWK.E.10.200.900.5.1D.R 50 Hz



| Description                    | Value                                           |
|--------------------------------|-------------------------------------------------|
| <b>General information:</b>    |                                                 |
| Product name:                  | DWK.E.10.200.900.5.1D.R                         |
| Product No:                    | On request                                      |
| EAN number:                    | On request                                      |
| <b>Technical:</b>              |                                                 |
| Max flow:                      | 115 l/s                                         |
| Head min:                      | 9 m                                             |
| Head max:                      | 88 m                                            |
| Actual impeller diameter:      | 275 mm                                          |
| Type of impeller:              | E                                               |
| Maximum particle size:         | 10 mm                                           |
| Primary shaft seal:            | SIC-SIC                                         |
| Secondary shaft seal:          | CERAMIC-CARBON                                  |
| Max. hydraulic efficiency:     | 70 %                                            |
| Curve tolerance:               | ISO9906:2012 3B                                 |
| <b>Materials:</b>              |                                                 |
| Pump housing:                  | Cast iron<br>EN1561 EN-GJL-200                  |
| Impeller:                      | high-chrome stainless steel<br>DIN W.-Nr. HI-CR |
| Motor:                         | Cast iron<br>EN1561 EN-GJL-200                  |
| <b>Installation:</b>           |                                                 |
| Maximum ambient temperature:   | 40 °C                                           |
| Pump outlet:                   | DN 200                                          |
| 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:              | 90 kW                                           |
| Mains frequency:               | 50 Hz                                           |
| Rated voltage:                 | 3 x 380-415 V                                   |
| Voltage tolerance:             | +5/-5 %                                         |
| Max starts per. hour:          | 18                                              |
| Rated current:                 | 172 A                                           |
| Rated current at 3/4 load:     | 135 A                                           |
| Rated current at 1/2 load:     | 101 A                                           |
| Cos phi - power factor:        | 0.87                                            |
| Cos phi - p.f. at 3/4 load:    | 0.838                                           |
| Cos phi - p.f. at 1/2 load:    | 0.76                                            |
| Rated speed:                   | 2850 rpm                                        |
| Motor efficiency at full load: | 91.1 %                                          |
| Motor efficiency at 3/4 load:  | 90.5 %                                          |
| Motor efficiency at 1/2 load:  | 88.5 %                                          |
| Number of poles:               | 2                                               |
| Start. method:                 | star/delta                                      |
| 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:                    | 4X50.0MM2+6X1MM2 * 2EA                          |
| <b>Controls:</b>               |                                                 |
| Seal sensor:                   | Y                                               |
| Sensor type:                   | BI-METAL                                        |
| <b>Others:</b>                 |                                                 |
| Net weight:                    | 1020 kg                                         |



On request DWK.E.10.200.900.5.1D.R 50 Hz



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

# Exploded view

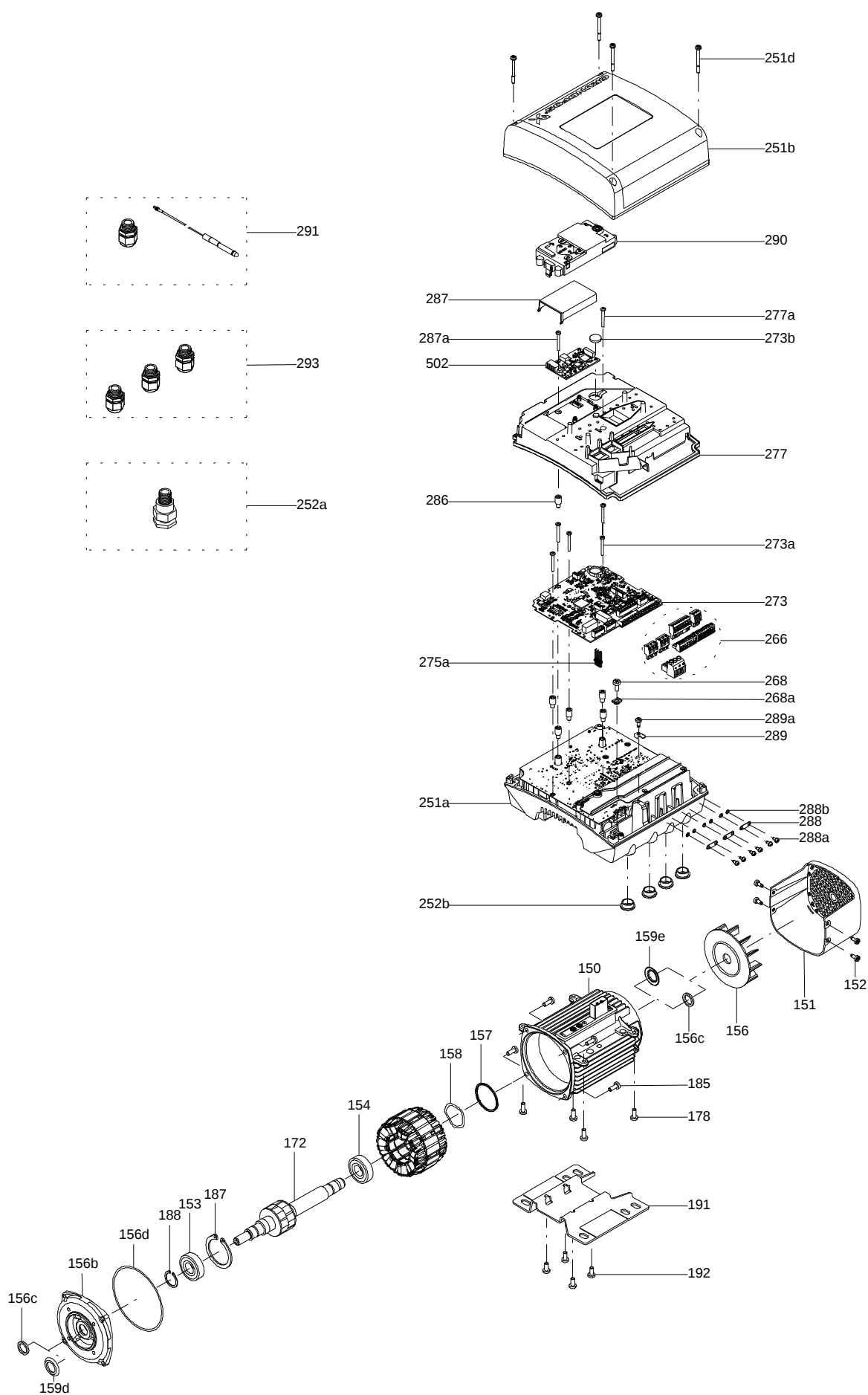


Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

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



**Parts list DWK.E.10.200.900.5.1D.R, Product No. On request**  
**Valid from 1.5.2009 (0918)**

| Pos  | Description     | Annotation | Données de classification | Référence | Quantité | Unité |
|------|-----------------|------------|---------------------------|-----------|----------|-------|
| 50   | Pump housing    |            |                           |           | 1        | pcs   |
| 55   | Frame           |            |                           |           | 1        | pcs   |
| 60   | Bearing housing |            |                           |           | 1        | pcs   |
| 84a  | Strainer        |            |                           |           | 1        | pcs   |
| 151  | Bracket         |            |                           |           | 1        | pcs   |
| 190d | Eyebolt         |            |                           |           | 1        | 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.*

*All information is copyright Grundfos.*



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