

## SP3A-29NE 2.2kW 3x380-415V 50Hz

Grundfos pump 10221929



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<https://www.lenntech.com/grundfos/SPNE03/10221929/SP-3A-29NE.html>

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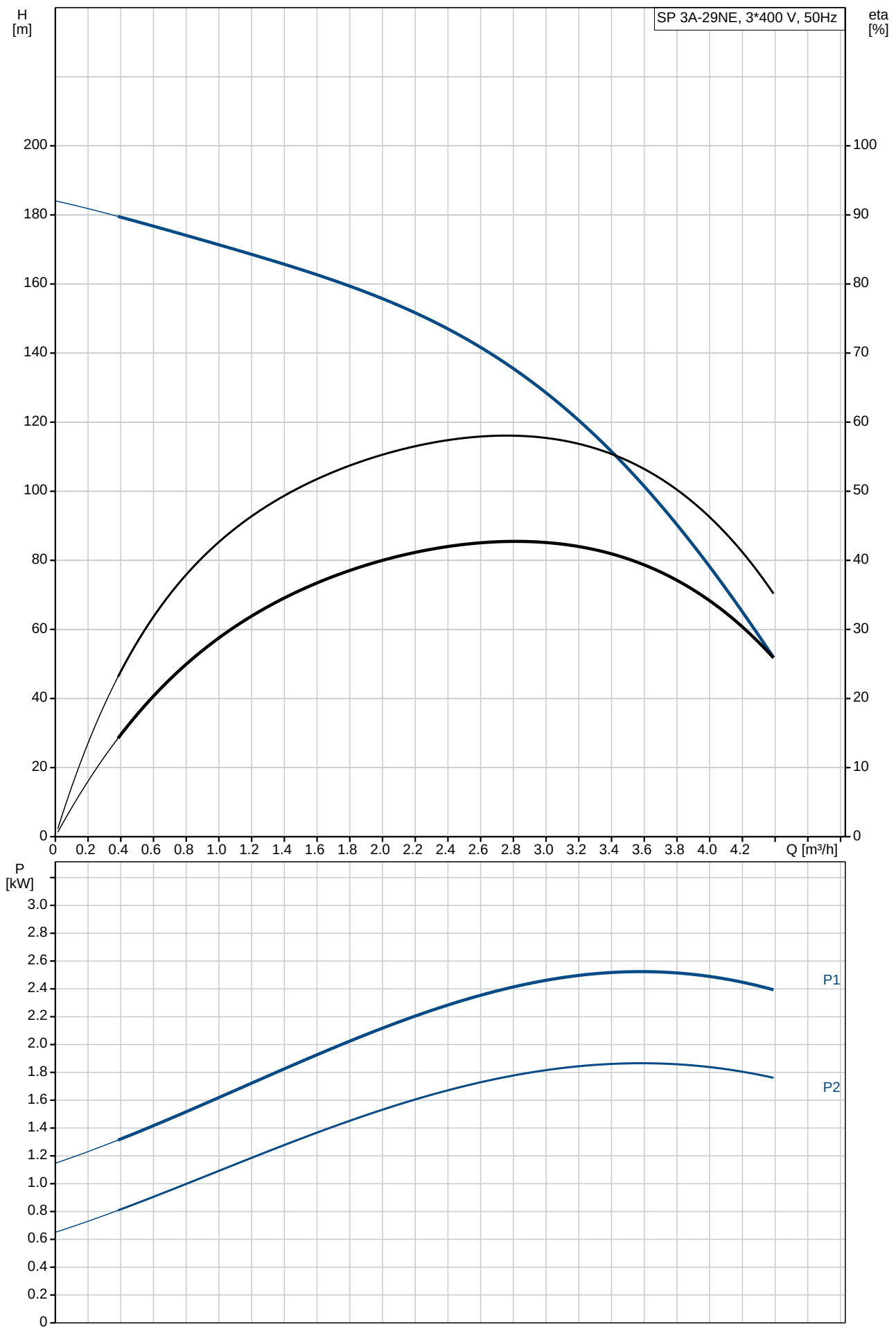
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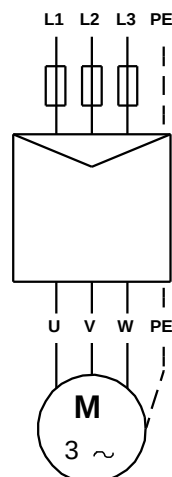
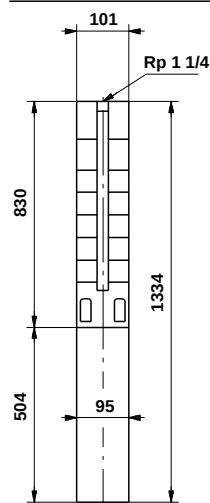
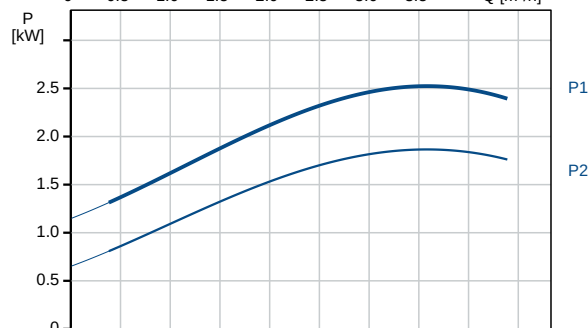
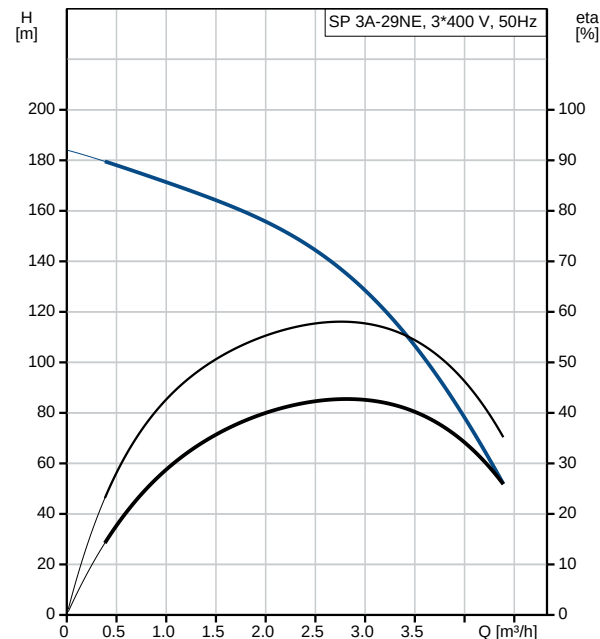
| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | 1    | <p><b>SP 3A-29NE</b></p>  <p><b>Note! Product picture may differ from actual product</b></p> <p>Product No.: On request<br/> Multi-stage submersible pump designed for pumping of chemically polluted groundwater.<br/> The pump is made entirely of Stainless steel DIN W.-Nr. DIN W.-Nr. 1.4401.</p> <p>The motor is a 3-phase motor with sand shield, mechanical shaft seal, liquid-lubricated bearings and pressure equalizing diaphragm.</p> <p>Pumpset delivered without motor cable. Motor cable to be ordered separately – EPR, Teflon or XLPE.</p> <p><b>Liquid:</b><br/> Pumped liquid: Water<br/> Max liquid t at 0.15 m/sec: 40 °C<br/> Liquid temperature during operation: 20 °C<br/> Density: 998.2 kg/m<sup>3</sup></p> <p><b>Technical:</b><br/> Rated flow: 3 m<sup>3</sup>/h<br/> Rated head: 135 m<br/> Shaft seal for motor: SIC/SIC<br/> Curve tolerance: ISO9906:2012 3B</p> <p><b>Materials:</b><br/> Pump: Stainless steel<br/> DIN W.-Nr. 1.4401<br/> AISI 316<br/> Impeller: Stainless steel<br/> DIN W.-Nr. 1.4401<br/> AISI 316<br/> Motor: Stainless steel<br/> DIN W.-Nr. 1.4539<br/> AISI 904 L</p> <p><b>Installation:</b><br/> Pump outlet: Rp 1 1/4<br/> Motor diameter: 4 inch</p> <p><b>Electrical data:</b><br/> Motor type: MS4000<br/> Rated power - P2: 2.2 kW<br/> Mains frequency: 50 Hz<br/> Rated voltage: 3 x 380-400-415 V<br/> Rated current: 5.75-6.00-6.30 A<br/> Cos phi - power factor: 0.82-0.76-0.71<br/> Rated speed: 2840-2860-2870 rpm<br/> Start. method: direct-on-line<br/> Enclosure class (IEC 34-5): IP68<br/> Insulation class (IEC 85): F<br/> Built-in temp. transmitter: yes</p> <p><b>Others:</b></p> |

| Position | Qty. | Description                                                                                                             |
|----------|------|-------------------------------------------------------------------------------------------------------------------------|
|          |      | <p>Minimum efficiency index, MEI <math>\geq</math> 0.70</p> <p>Net weight: 30.8 kg</p> <p>Danish VVS No.: 388314290</p> |

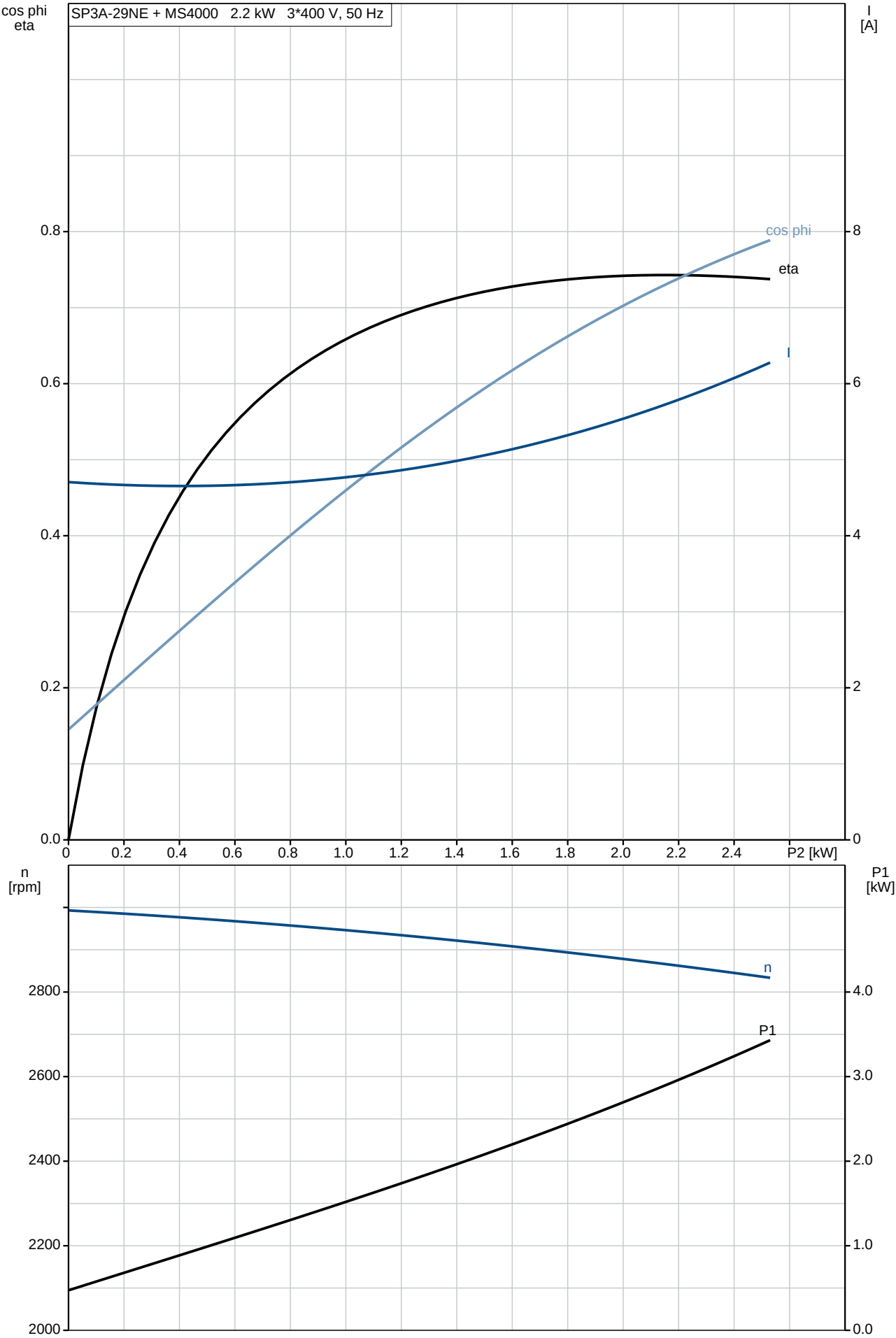
On request SP 3A-29NE 50 Hz



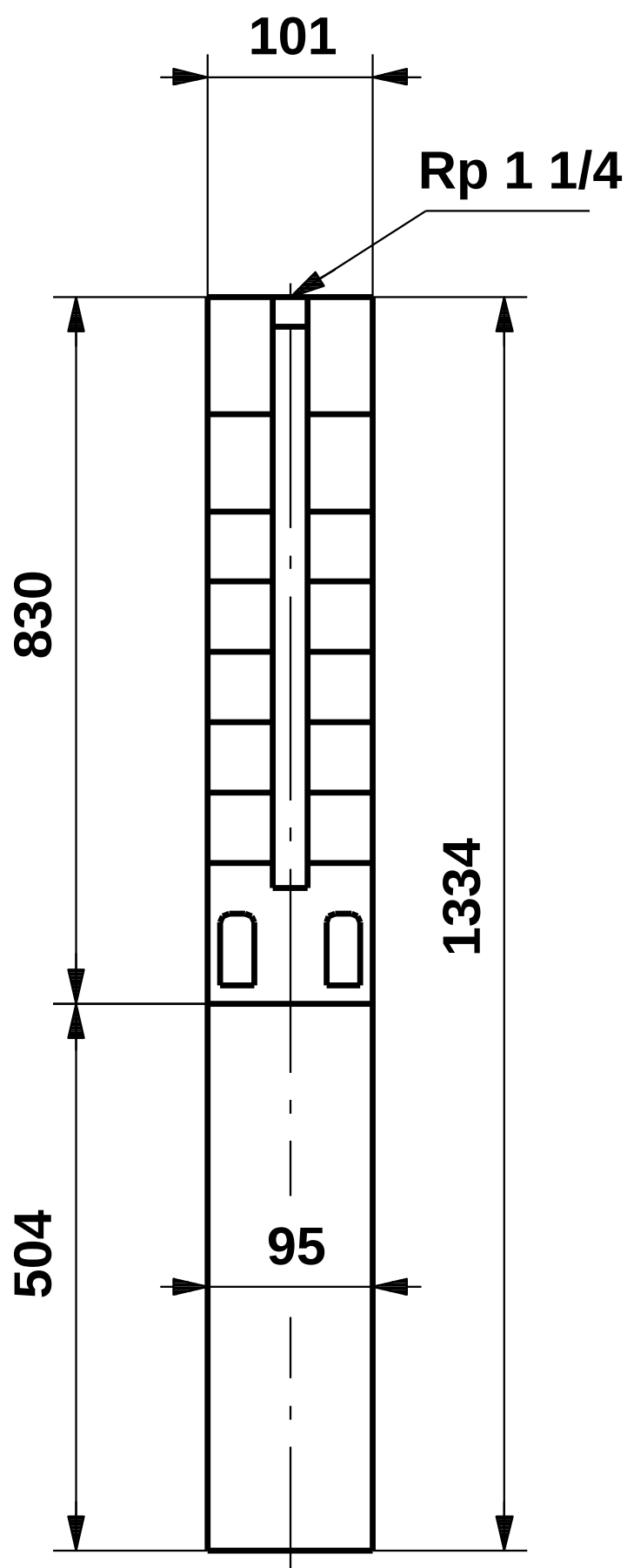
| Description                          | Value               |
|--------------------------------------|---------------------|
| <b>General information:</b>          |                     |
| Product name:                        | SP 3A-29NE          |
| Product No:                          | On request          |
| EAN number:                          | On request          |
| <b>Technical:</b>                    |                     |
| Rated flow:                          | 3 m³/h              |
| Rated head:                          | 135 m               |
| Stages:                              | 29                  |
| Shaft seal for motor:                | SIC/SIC             |
| Curve tolerance:                     | ISO9906:2012 3B     |
| Pump No:                             | 10220029            |
| Model:                               | A                   |
| Valve:                               | no non-return valve |
| <b>Materials:</b>                    |                     |
| Pump:                                | Stainless steel     |
|                                      | DIN W.-Nr. 1.4401   |
|                                      | AISI 316            |
| Impeller:                            | Stainless steel     |
|                                      | DIN W.-Nr. 1.4401   |
|                                      | AISI 316            |
| Motor:                               | Stainless steel     |
|                                      | DIN W.-Nr. 1.4539   |
|                                      | AISI 904 L          |
| <b>Installation:</b>                 |                     |
| Pump outlet:                         | Rp 1 1/4            |
| Motor diameter:                      | 4 inch              |
| <b>Liquid:</b>                       |                     |
| Pumped liquid:                       | Water               |
| Max liquid t at 0.15 m/sec:          | 40 °C               |
| Liquid temperature during operation: | 20 °C               |
| Density:                             | 998.2 kg/m³         |
| <b>Electrical data:</b>              |                     |
| Motor type:                          | MS4000              |
| Rated power - P2:                    | 2.2 kW              |
| Mains frequency:                     | 50 Hz               |
| Rated voltage:                       | 3 x 380-400-415 V   |
| Rated current:                       | 5.75-6.00-6.30 A    |
| Cos phi - power factor:              | 0.82-0.76-0.71      |
| Rated speed:                         | 2840-2860-2870 rpm  |
| Start. method:                       | direct-on-line      |
| Enclosure class (IEC 34-5):          | IP68                |
| Insulation class (IEC 85):           | F                   |
| Motor protec:                        | NONE                |
| Thermal protec:                      | external            |
| Built-in temp. transmitter:          | yes                 |
| Motor No:                            | 79195407            |
| <b>Others:</b>                       |                     |
| Minimum efficiency index, MEI ≥:     | 0.70                |
| Net weight:                          | 30.8 kg             |
| Danish VVS No.:                      | 388314290           |



# On request SP 3A-29NE 50 Hz

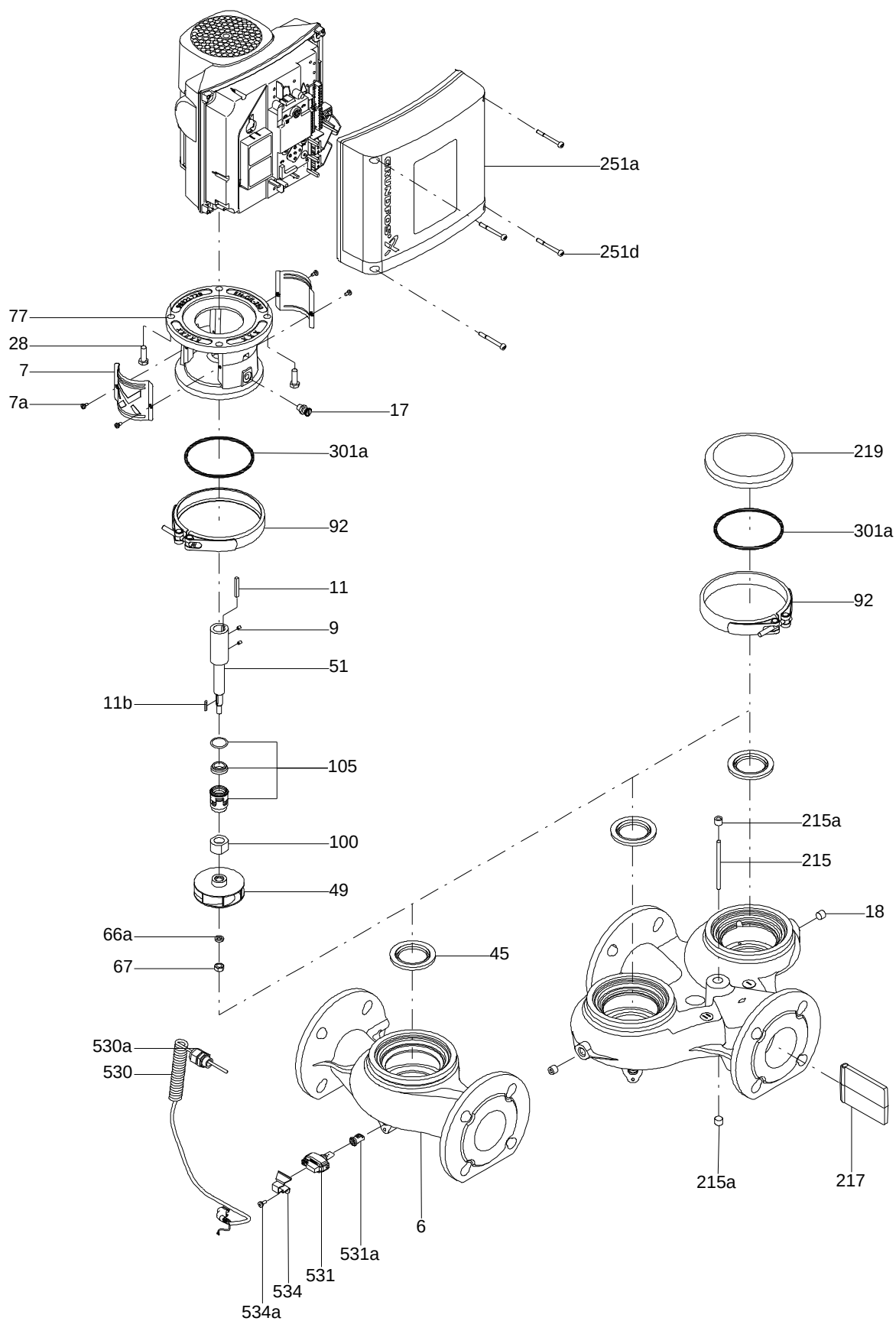


On request SP 3A-29NE 50 Hz



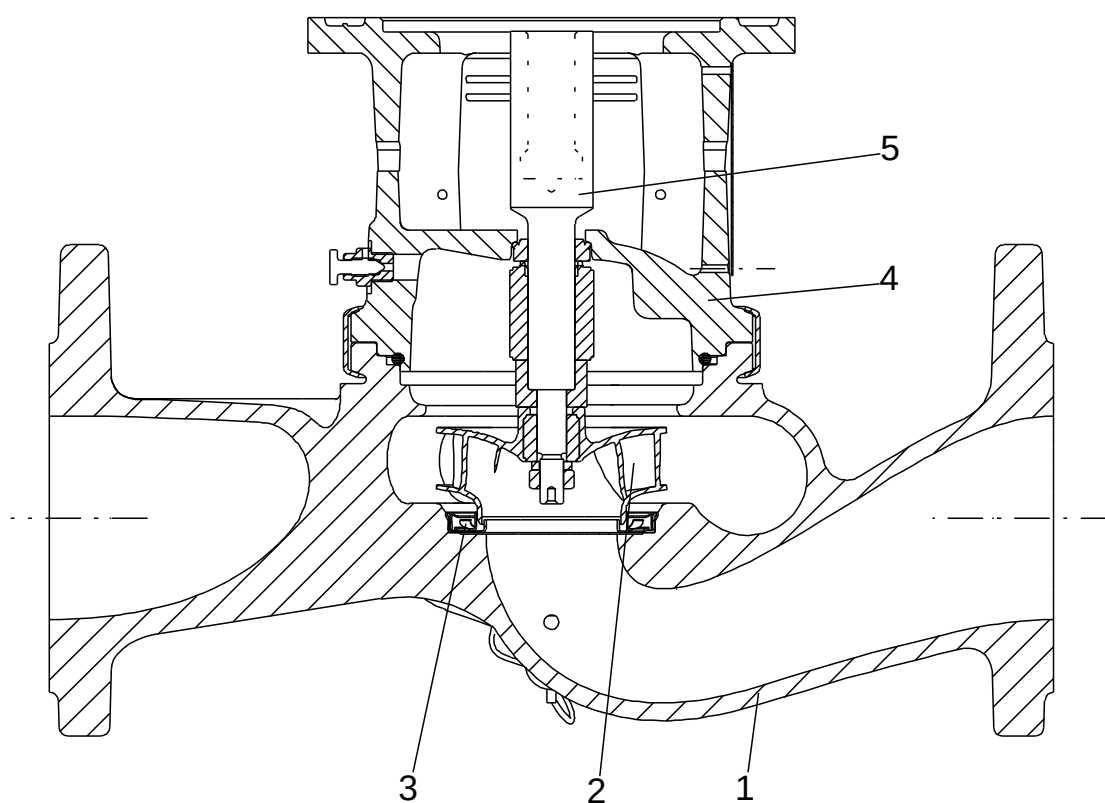
Note! All units are in [mm] unless others are stated.  
Disclaimer: This simplified dimensional drawing does not show all details.

# Exploded view



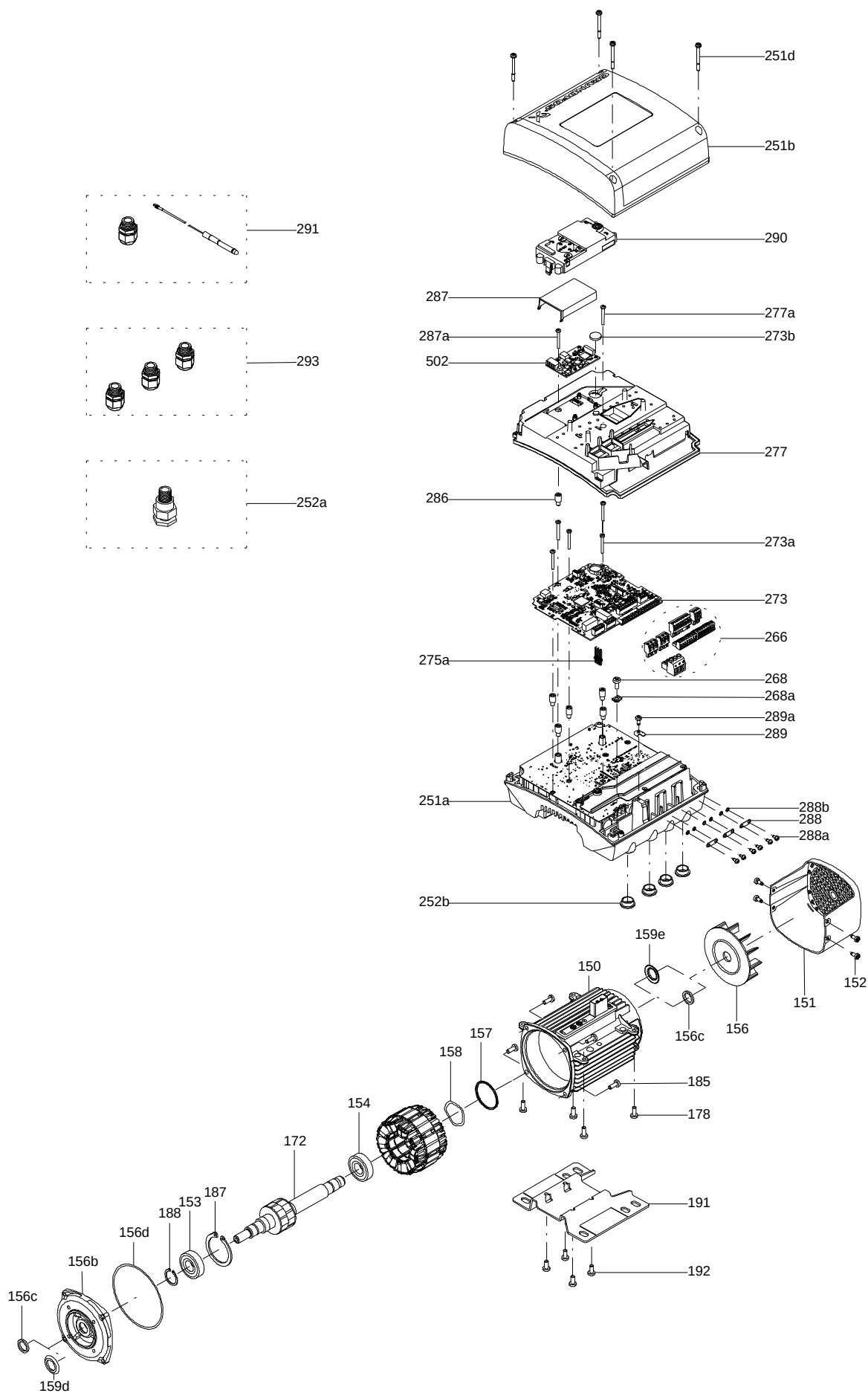


Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

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



**Parts list SP 3A-29NE, Product No. On request**  
**Valid from 18.4.1995 (9516)**

| Pos   | Description               | Annotation | Données de classification | Référence | Quantité | Unité |
|-------|---------------------------|------------|---------------------------|-----------|----------|-------|
| -     | Pump w/o motor            |            |                           |           | 1        | pcs   |
|       | Stop ring                 |            |                           |           | 3        |       |
|       | Retainer                  |            |                           |           | 1        |       |
| - 1   | Valve casing cpl.         |            |                           |           | 1        |       |
|       | Valve casing              |            |                           |           | 1        |       |
| 6     | Bearing                   |            |                           |           | 1        |       |
| - 9   | Intermediate chamber cpl. |            |                           |           | 29       |       |
|       | Chamber                   |            |                           |           | 1        |       |
| 7     | Seal ring                 |            |                           |           | 1        |       |
| - 10  | Chamber cpl.              |            |                           |           | 1        |       |
| 7     | Seal ring                 |            |                           |           | 1        |       |
| - 13a | Impeller cpl.             |            |                           |           | 29       |       |
|       | Impeller                  |            |                           |           | 1        |       |
| - 11  | Split cone nut            |            |                           |           | 1        |       |
|       | Split cone nut            |            |                           |           |          |       |
| 11a   | O-ring                    |            |                           |           |          |       |
| 12    | Split cone                |            |                           |           | 1        |       |
| 14    | Suction interconnector    |            |                           |           | 1        |       |
| 15    | Strainer                  |            |                           |           | 1        |       |
| 16    | Shaft cpl.                |            | Length (mm): 717          |           | 1        |       |
| 17    | Strap cpl.                |            | Length (mm): 737          |           | 4        |       |
|       |                           |            | Thread: M8                |           |          |       |
| 18    | Cable guard cpl.          |            |                           |           | 1        |       |
| 18d   | Hex nut                   |            |                           |           | 2        |       |
| 19    | Nut                       |            |                           |           | 4        |       |
| 78    | Nameplate                 |            |                           |           | 1        |       |
| -     | Motor                     |            |                           |           | 1        | pcs   |
| 1     | Stator w/housing          |            |                           |           | 1        |       |
| 2     | Shaft w/rotor             |            |                           |           | 1        |       |
| 3     | Thrust ring support cpl.  |            |                           |           | 1        |       |
| 4     | Radial bearing            |            |                           |           | 1        |       |
| 5     | Bearing pipe              |            |                           |           | 1        |       |
| 6     | Thrust bearing            |            |                           |           | 1        |       |
| 7     | Lock ring                 |            |                           |           | 1        |       |
| 10    | Bearing retainer          |            |                           |           | 1        |       |
| 11    | Adjusting screw           |            |                           |           | 1        |       |
| 12    | Diaphragm                 |            |                           |           | 1        |       |
| 13    | End shield                |            |                           |           | 1        |       |
| 15    | Nut                       |            |                           |           | 1        |       |
| 16    | Lock washer               |            |                           |           | 1        |       |
| 18    | Nut                       |            | Thread: M8 DIN 934        |           | 1        |       |
| 21    | Nut                       |            | Thread: M8 DIN 934        |           | 4        |       |
| 22    | Staybolt                  |            | Thread: M8 X M8           |           | 3        |       |
| 22a   | Staybolt                  |            | Thread: M8 X M8 R         |           | 1        |       |
| 22b   | Cheese head screw         |            |                           |           | 1        |       |
| 22c   | O-ring                    |            | Diameter: 4               |           | 1        |       |
|       |                           |            | Material type: FKM        |           |          |       |
|       |                           |            | Thickness: 1              |           |          |       |
| 24    | O-ring                    |            | Diameter: 40              |           | 1        |       |
|       |                           |            | Material type: FKM        |           |          |       |
|       |                           |            | Thickness: 2              |           |          |       |
| 25    | Shaft seal housing        |            |                           |           | 1        |       |
| 27    | Spline protector          |            |                           |           | 1        |       |
| 28    | Supporting ring           |            |                           |           | 1        |       |
| 29    | Sand shield               |            |                           |           | 1        |       |
| 30    | Compression spring        |            |                           |           | 1        |       |
| 31    | Supporting ring           |            |                           |           | 1        |       |
| 32    | Shaft seal cpl.           |            |                           |           | 1        |       |
| - 34  | Shaft seal cpl.           |            |                           |           | 1        |       |

| Pos | Description         | Annotation | Données de classification | Référence | Quantité | Unité |
|-----|---------------------|------------|---------------------------|-----------|----------|-------|
|     | Seal ring           |            |                           |           | 1        |       |
|     | Seal ring, rotating |            |                           |           | 1        |       |
| 33  | O-ring              |            | Diameter: 16              |           | 1        |       |
|     |                     |            | Material type: VITON      |           |          |       |
|     |                     |            | Thickness: 2.5            |           |          |       |

*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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