

|                 |       |                  |       |           |       |
|-----------------|-------|------------------|-------|-----------|-------|
| PROJECT:        | _____ | UNIT TAG:        | _____ | QUANTITY: | _____ |
|                 | _____ | TYPE OF SERVICE: | _____ |           | _____ |
| REPRESENTATIVE: | _____ | SUBMITTED BY:    | _____ | DATE:     | _____ |
| ENGINEER:       | _____ | APPROVED BY:     | _____ | DATE:     | _____ |
| CONTRACTOR:     | _____ | ORDER NO.:       | _____ | DATE:     | _____ |

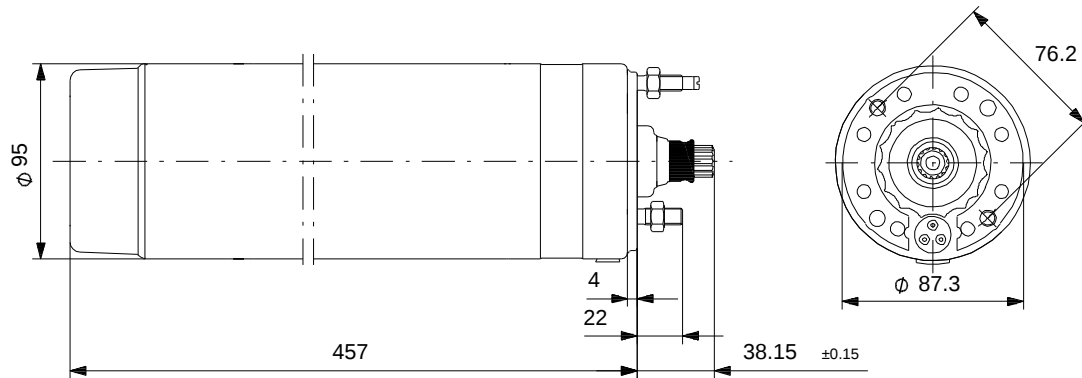


MS 4000

Submersible motors

Note! Product picture may differ from actual product

| Conditions of Service   | Pump Data                | Motor Data                   |
|-------------------------|--------------------------|------------------------------|
| Flow: _____             | Product number: 96405810 | Rated power - P2: 2.2 kW     |
| Head: _____             |                          | Rated voltage: 440-460 V     |
| Efficiency: _____       |                          | Mains frequency: 60 Hz       |
| Liquid: _____           |                          | Enclosure class: IP68        |
| Temperature: _____      |                          | Insulation class: F          |
| NPSH required: _____    |                          | Motor protection: NONE       |
| Viscosity: _____        |                          | Thermal protection: external |
| Specific Gravity: _____ |                          | Motor type: MS4000           |



**Materials:**

Motor: Stainless steel  
1.4301 EN  
AISI 304

## Tender Text



Note! Product picture may differ from actual product

Product No.: [96405810](#)

### MS 4000

The motor is a 3-phase motor of the canned type with sand shield, liquid-lubricated bearings and pressure equalizing diaphragm.

#### Technical:

Shaft seal for motor: HM/CER  
Motor version: T40

#### Materials:

Motor: Stainless steel  
1.4301 EN  
AISI 304

#### Installation:

Maximum ambient pressure: 60 bar  
Motor diameter: 4 inch

#### Electrical data:

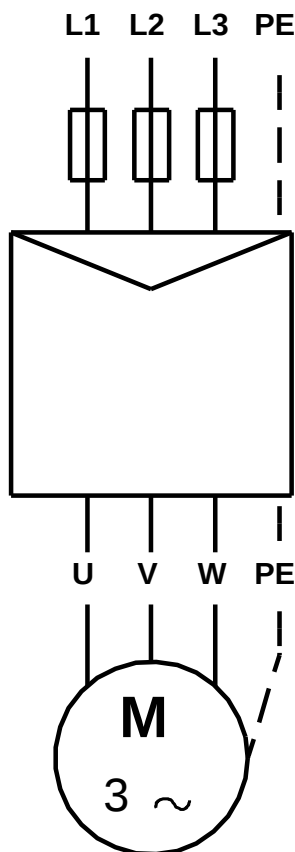
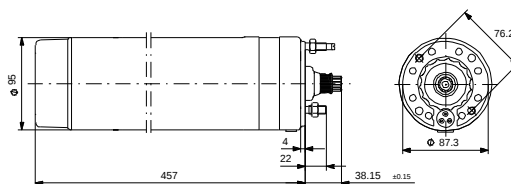
Motor type: MS4000  
Rated power - P2: 2.2 kW  
Mains frequency: 60 Hz  
Rated voltage: 3 x 440-460 V  
Voltage tolerance: +6/-10 %  
Service factor: 1,15  
Rated current: 5,65-5,80 A  
Maximum current consumption: 5.65 A  
Starting current: 510-520 %  
Cos phi - power factor: 0,82-0,78  
Rated speed: 3440-3460 rpm  
Locked-rotor torque: 170-190 %  
Moment of inertia: 0.0014 kg m<sup>2</sup>  
Start. method: direct-on-line  
Enclosure class (IEC 34-5): IP68  
Insulation class (IEC 85): F  
Built-in temp. transmitter: no  
Winding resistance: 8,20 ohm

#### Others:

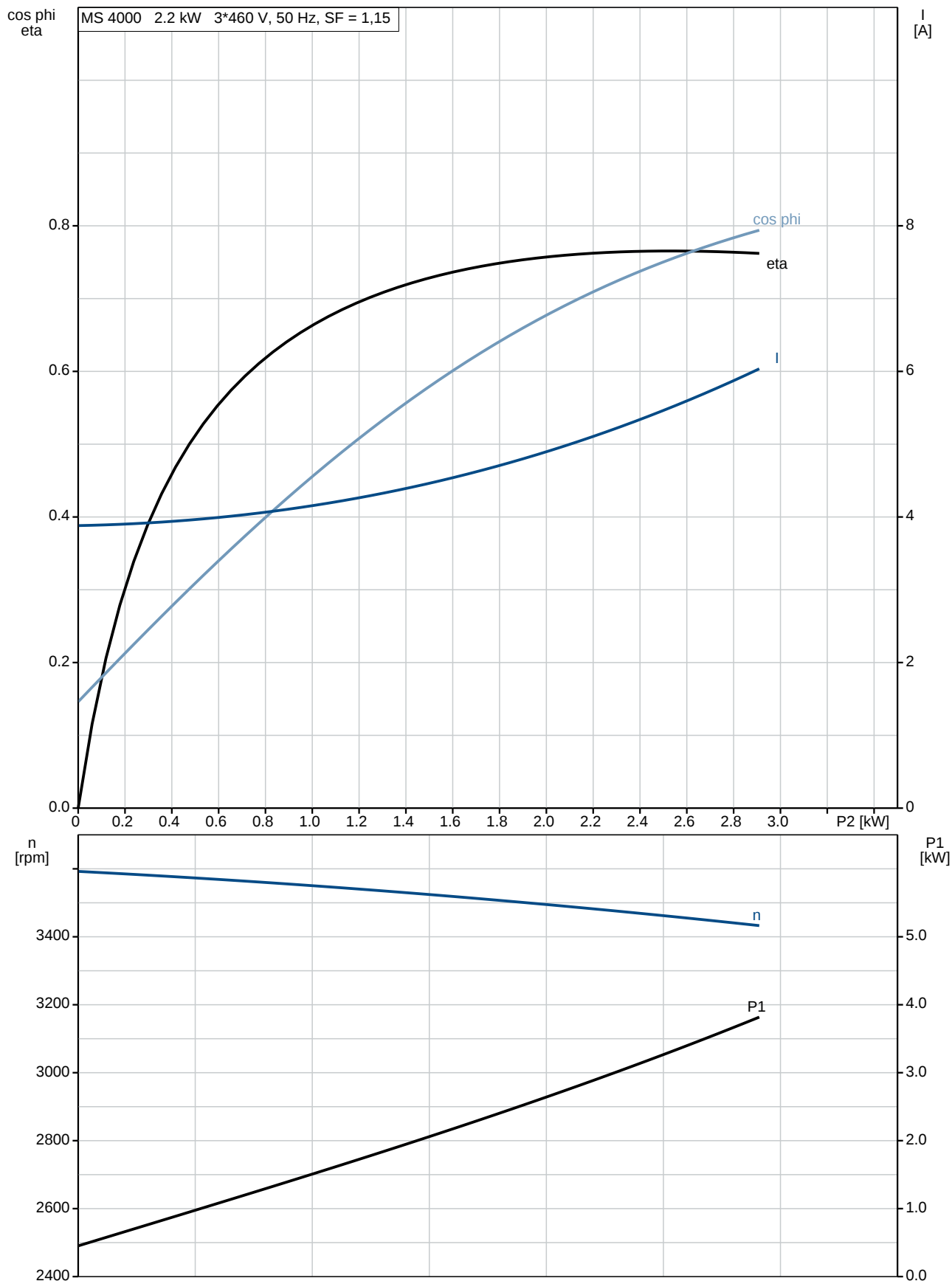
Net weight: 18 kg

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | 1    | <p><b>MS 4000</b></p>  <p>Note! Product picture may differ from actual product</p> <p>Product No.: <a href="#">96405810</a></p> <p>The motor is a 3-phase motor of the canned type with sand shield, liquid-lubricated bearings and pressure equalizing diaphragm.</p> <p><b>Technical:</b></p> <p>Shaft seal for motor: HM/CER<br/>Motor version: T40</p> <p><b>Materials:</b></p> <p>Motor: Stainless steel<br/>1.4301 EN<br/>AISI 304</p> <p><b>Installation:</b></p> <p>Maximum ambient pressure: 60 bar<br/>Motor diameter: 4 inch</p> <p><b>Electrical data:</b></p> <p>Motor type: MS4000<br/>Rated power - P2: 2.2 kW<br/>Mains frequency: 60 Hz<br/>Rated voltage: 3 x 440-460 V<br/>Voltage tolerance: +6/-10 %<br/>Service factor: 1,15<br/>Rated current: 5,65-5,80 A<br/>Maximum current consumption: 5.65 A<br/>Starting current: 510-520 %<br/>Cos phi - power factor: 0,82-0,78<br/>Rated speed: 3440-3460 rpm<br/>Locked-rotor torque: 170-190 %<br/>Moment of inertia: 0.0014 kg m<sup>2</sup><br/>Start. method: direct-on-line<br/>Enclosure class (IEC 34-5): IP68<br/>Insulation class (IEC 85): F<br/>Built-in temp. transmitter: no<br/>Winding resistance: 8,20 ohm</p> <p><b>Others:</b></p> <p>Net weight: 18 kg</p> |

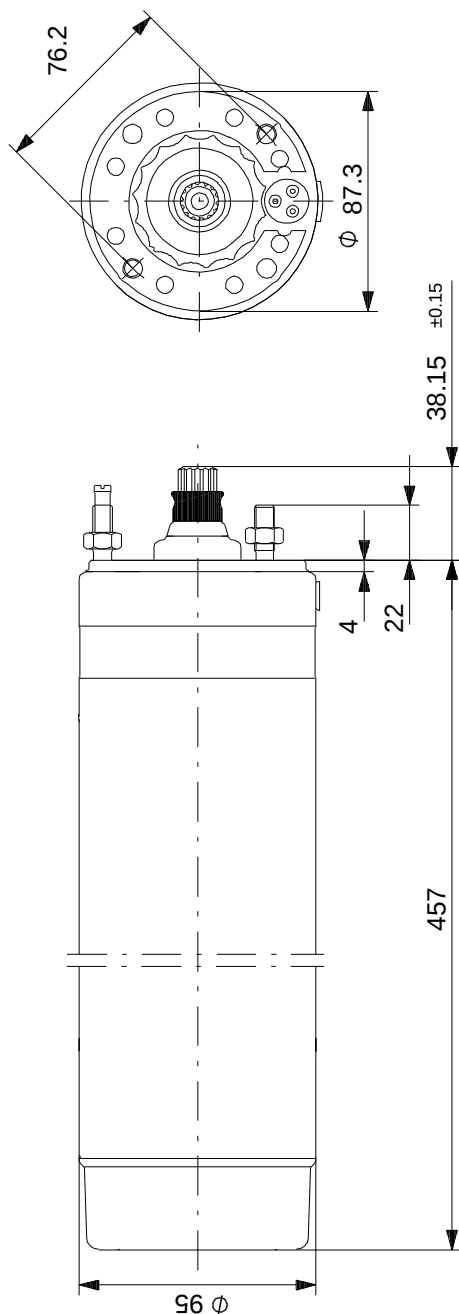
| Description                  | Value                    |
|------------------------------|--------------------------|
| <b>General information:</b>  |                          |
| Product name:                | MS 4000                  |
| Product No:                  | 96405810                 |
| EAN number:                  | 5700391231490            |
| <b>Technical:</b>            |                          |
| Shaft seal for motor:        | HM/CER                   |
| Motor version:               | T40                      |
| <b>Materials:</b>            |                          |
| Motor:                       | Stainless steel          |
|                              | 1.4301 EN                |
|                              | AISI 304                 |
| <b>Installation:</b>         |                          |
| Maximum ambient pressure:    | 60 bar                   |
| Motor diameter:              | 4 inch                   |
| Staybolt:                    | 5/16-24 UNF              |
| <b>Electrical data:</b>      |                          |
| Motor type:                  | MS4000                   |
| Rated power - P2:            | 2.2 kW                   |
| KVA code:                    | J                        |
| Mains frequency:             | 60 Hz                    |
| Rated voltage:               | 3 x 440-460 V            |
| Voltage tolerance:           | +6/-10 %                 |
| Service factor:              | 1,15                     |
| Rated current:               | 5,65-5,80 A              |
| Maximum current consumption: | 5.65 A                   |
| Starting current:            | 510-520 %                |
| Cos phi - power factor:      | 0,82-0,78                |
| Rated speed:                 | 3440-3460 rpm            |
| Locked-rotor torque:         | 170-190 %                |
| Moment of inertia:           | 0.0014 kg m <sup>2</sup> |
| Axial load max:              | 450 kg                   |
| 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:  | no                       |
| Winding resistance:          | 8,20 ohm                 |
| <b>Others:</b>               |                          |
| Net weight:                  | 18 kg                    |



## 96405810 MS 4000 60 Hz

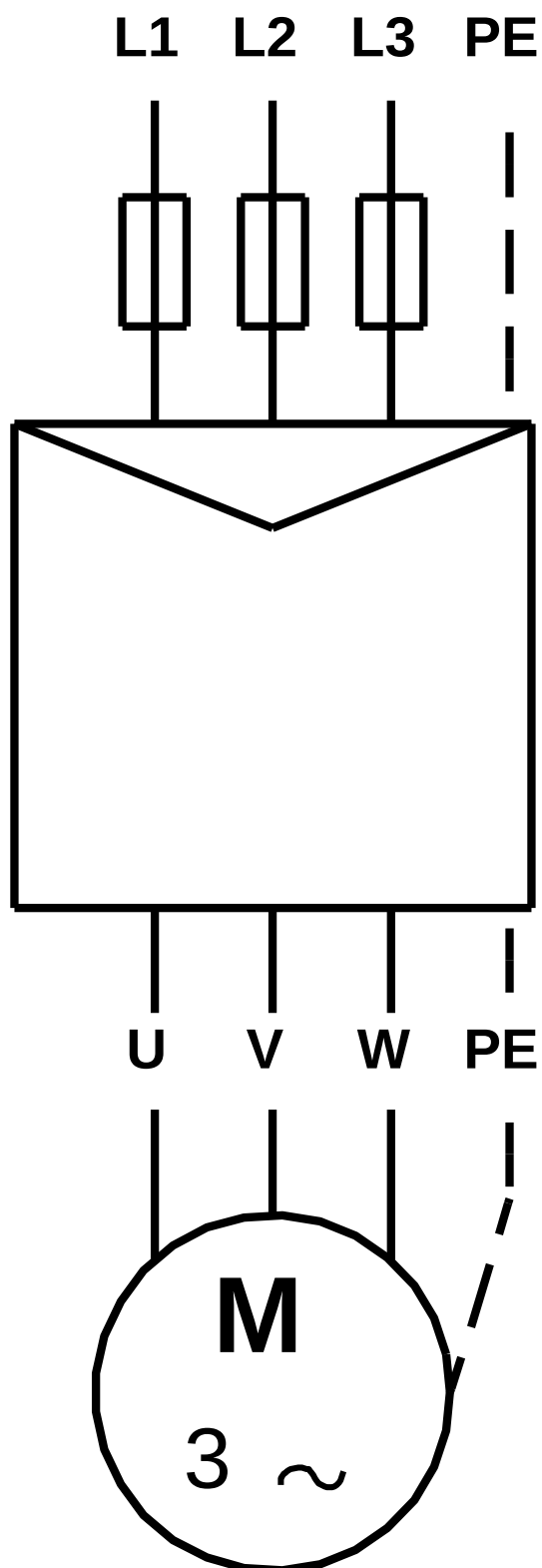


## 96405810 MS 4000 60 Hz



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

**96405810 MS 4000 60 Hz**



Note! All units are in [mm] unless others are stated.



Company name:

Created by:

Phone:

Date:

21/02/2018

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**Order Data:**

Product name: MS 4000

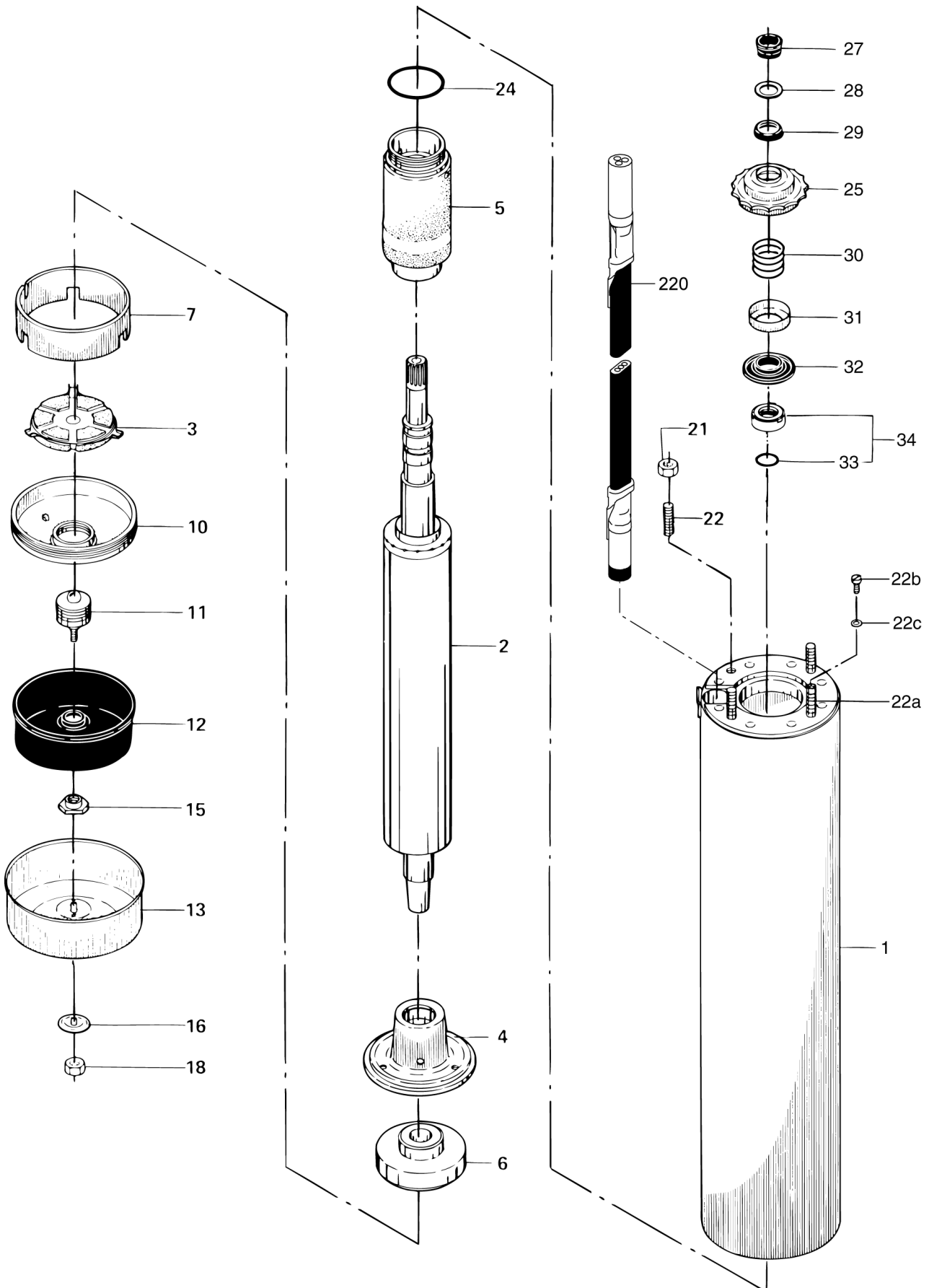
Amount: 1

Product No: 96405810

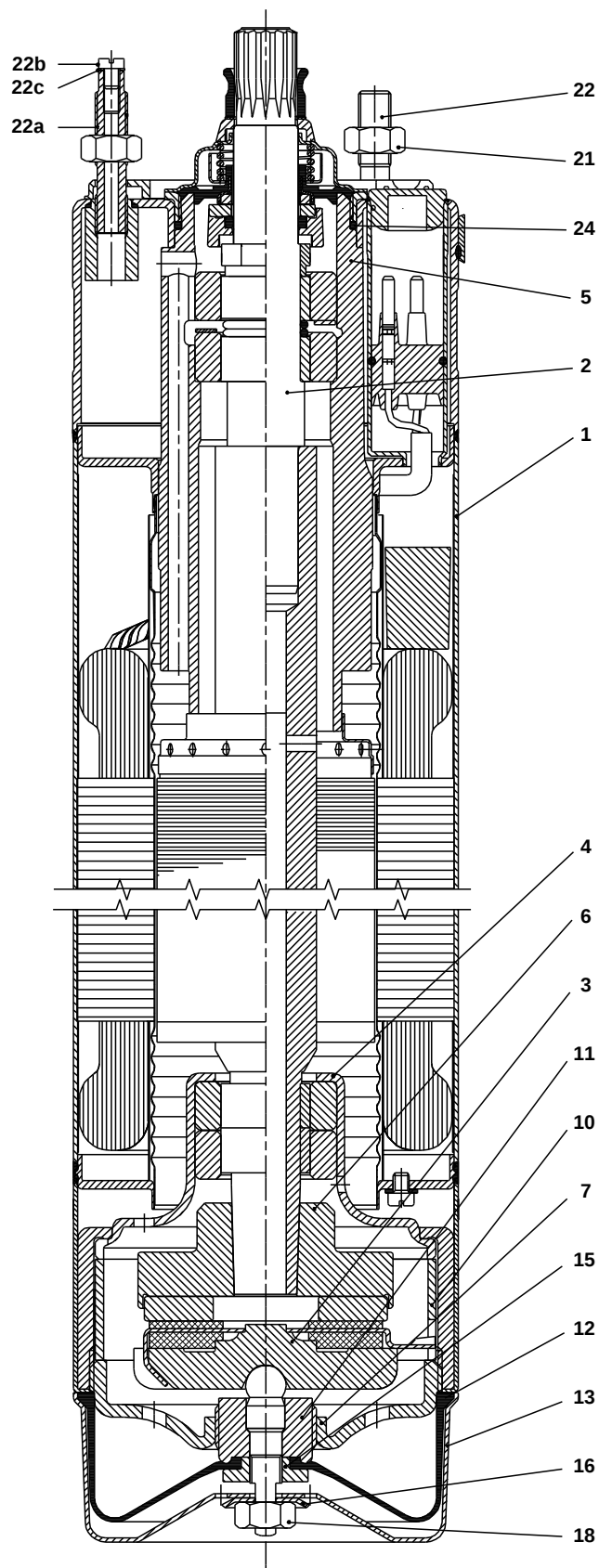
Total: Price on request

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## Exploded view



## Sectional drawing



**Parts list MS 4000, Product No. 96405810**

**Valid from 18.4.1995 (9516)**

| Pos | Description              | Annotation | Classification Data | Part no. | Qty. | Unit |
|-----|--------------------------|------------|---------------------|----------|------|------|
| -   | Motor                    |            |                     |          | 1    | pcs  |
| 1   | Stator                   |            |                     |          | 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          |          | 1    |      |
| 21  | Hex nut                  |            | Thread: 5/16"       |          | 4    |      |
| 22  | Staybolt                 |            |                     |          | 4    |      |
| 22  | Staybolt                 |            |                     |          | 4    |      |
| 22b | Cheese head screw        |            |                     |          | 1    |      |
| 22c | O-ring                   |            | Diameter: 4         |          | 1    |      |
|     |                          |            | Material type: NBR  |          |      |      |
|     |                          |            | Thickness: 1        |          |      |      |
| 24  | O-ring                   |            | Diameter: 40        |          | 1    |      |
|     |                          |            | Material type: NBR  |          |      |      |
|     |                          |            | Thickness: 2        |          |      |      |
| 25  | Shaft seal housing       |            |                     |          | 1    |      |
| 27  | Spline protector         |            |                     |          | 1    |      |
| 28  | Support                  |            |                     |          | 1    |      |
| 29  | Sand shield              |            |                     |          | 1    |      |
| 30  | Compression spring       |            |                     |          | 1    |      |
| 31  | Supporting ring          |            |                     |          | 1    |      |
| 32  | Sleeve                   |            |                     |          | 1    |      |
| 34  | Shaft seal cpl.          |            |                     |          | 1    |      |
| 20  | Motor cable              |            |                     |          | 1    | pcs  |