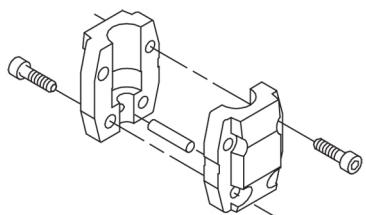
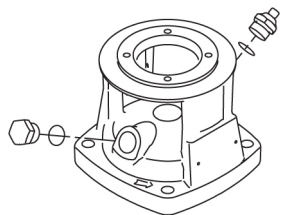


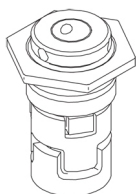
| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <p data-bbox="199 336 510 369"><b>CR 1-15 A-FGJ-A-E-HQQE</b></p> <div data-bbox="263 380 526 649">  </div> <p data-bbox="590 638 1077 672">Note! Product picture may differ from actual product</p> <p data-bbox="199 672 470 705">Product No.: <a href="#">96516250</a></p> <p data-bbox="199 728 1452 840">Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via combined DIN-ANSI-JIS flanges.</p> <p data-bbox="199 873 933 907">The pump is fitted with a 3-phase, fan-cooled asynchronous motor.</p> <p data-bbox="199 929 518 974"><b>Further product details</b></p> <p data-bbox="199 974 1452 1075">Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An integral part of the process is a pretreatment. The entire process consists of these elements:</p> <ol data-bbox="199 1086 909 1232" style="list-style-type: none"> <li>1) Alkaline-based cleaning.</li> <li>2) Zinc phosphating.</li> <li>3) Cathodic electro-deposition.</li> <li>4) Curing to a dry film thickness 18-22 my m.</li> </ol> <p data-bbox="199 1198 909 1232">The colour code for the finished product is NCS 9000/RAL 9005.</p> <p data-bbox="199 1254 287 1299"><b>Pump</b></p> <p data-bbox="199 1299 1452 1355">A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.</p> <div data-bbox="199 1355 566 1568">  </div> <p data-bbox="199 1590 1452 1657">The pump head, pump head cover and flange for motor mounting is made in one piece. The pump head has a combined 1/2" priming plug and vent screw.</p> <div data-bbox="199 1657 486 1870">  </div> <p data-bbox="199 1892 1452 2004">The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system. This seal type is assembled in a cartridge unit which makes replacement safe and easy. Due to the balancing, this seal type is suitable for high-pressure applications. The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.</p> <p data-bbox="199 2004 351 2038">Primary seal:</p> <ul data-bbox="239 2038 805 2105" style="list-style-type: none"> <li>• Rotating seal ring material: silicon carbide (SiC)</li> <li>• Stationary seat material: silicon carbide (SiC)</li> </ul> |

## Qty. Description

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

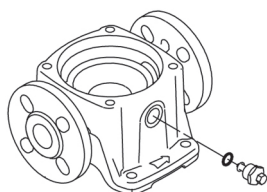
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



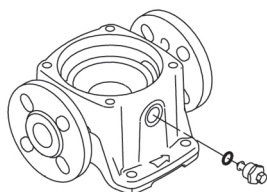
The shaft seal is screwed into the pump head.

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

The base is made of cast iron. The flanges and base are cast in one piece. The outlet side of the base has a combined drain plug and bypass valve. The pump is secured to the foundation by four bolts through the base plate.



The base is made of cast iron. The flanges and base are cast in one piece. The outlet side of the base has a combined drain plug and bypass valve. The pump is secured to the foundation by four bolts through the base plate.



## Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with tapped-hole flange (FT).

Motor-mounting designation in accordance with IEC 60034-7: IM B 14 (Code I) / IM 3601 (Code II).

Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.

The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).

## Technical data

### Controls:

Frequency converter: NONE

### Liquid:

Pumped liquid: Water

Liquid temperature range: -20 .. 120 °C

Liquid temperature during operation: 20 °C

| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <p>Density: 998.2 kg/m<sup>3</sup></p> <p><b>Technical:</b><br/> Pump speed on which pump data are based: 2864 rpm<br/> Rated flow: 1.8 m<sup>3</sup>/h<br/> Rated head: 69.6 m<br/> Pump orientation: Vertical<br/> Shaft seal arrangement: Single<br/> Code for shaft seal: HQQE<br/> Approvals on nameplate: CE, EAC, ACS<br/> Curve tolerance: ISO9906:2012 3B</p> <p><b>Materials:</b><br/> Base: Cast iron<br/> EN 1561 EN-GJL-200<br/> ASTM A48-25B<br/> Impeller: Stainless steel<br/> EN 1.4301<br/> AISI 304<br/> Bearing: SIC</p> <p><b>Installation:</b><br/> Maximum ambient temperature: 60 °C<br/> Maximum operating pressure: 25 bar<br/> Max pressure at stated temp: 25 bar / 120 °C<br/> 25 bar / -20 °C<br/> Type of connection: DIN / ANSI / JIS<br/> Size of inlet connection: DN 25/32<br/> 1 1/4 inch<br/> Size of outlet connection: DN 25/32<br/> 1 1/4 inch<br/> Pressure rating for pipe connection: PN 25<br/> Flange rating inlet: 250 lb<br/> Flange size for motor: FT100</p> <p><b>Electrical data:</b><br/> Motor standard: IEC<br/> Motor type: 80A<br/> IE Efficiency class: IE3<br/> Rated power - P2: 0.75 kW<br/> Power (P2) required by pump: 0.75 kW<br/> Mains frequency: 50 Hz<br/> Rated voltage: 3 x 220-240D/380-415Y V<br/> Rated current: 3.30/1.90 A<br/> Starting current: 580-620 %<br/> Cos phi - power factor: 0.81-0.71<br/> Rated speed: 2840-2870 rpm<br/> Efficiency: IE3 80,7%<br/> Motor efficiency at full load: 80.7 %<br/> Motor efficiency at 3/4 load: 82.7 %<br/> Motor efficiency at 1/2 load: 81.7 %<br/> Number of poles: 2<br/> Enclosure class (IEC 34-5): 55 Dust/Jetting<br/> Insulation class (IEC 85): F</p> <p><b>Others:</b><br/> Minimum efficiency index, MEI <math>\eta_{\%}</math>: 0.70<br/> Net weight: 30.3 kg<br/> Gross weight: 34.4 kg</p> |



Company name:

Created by:

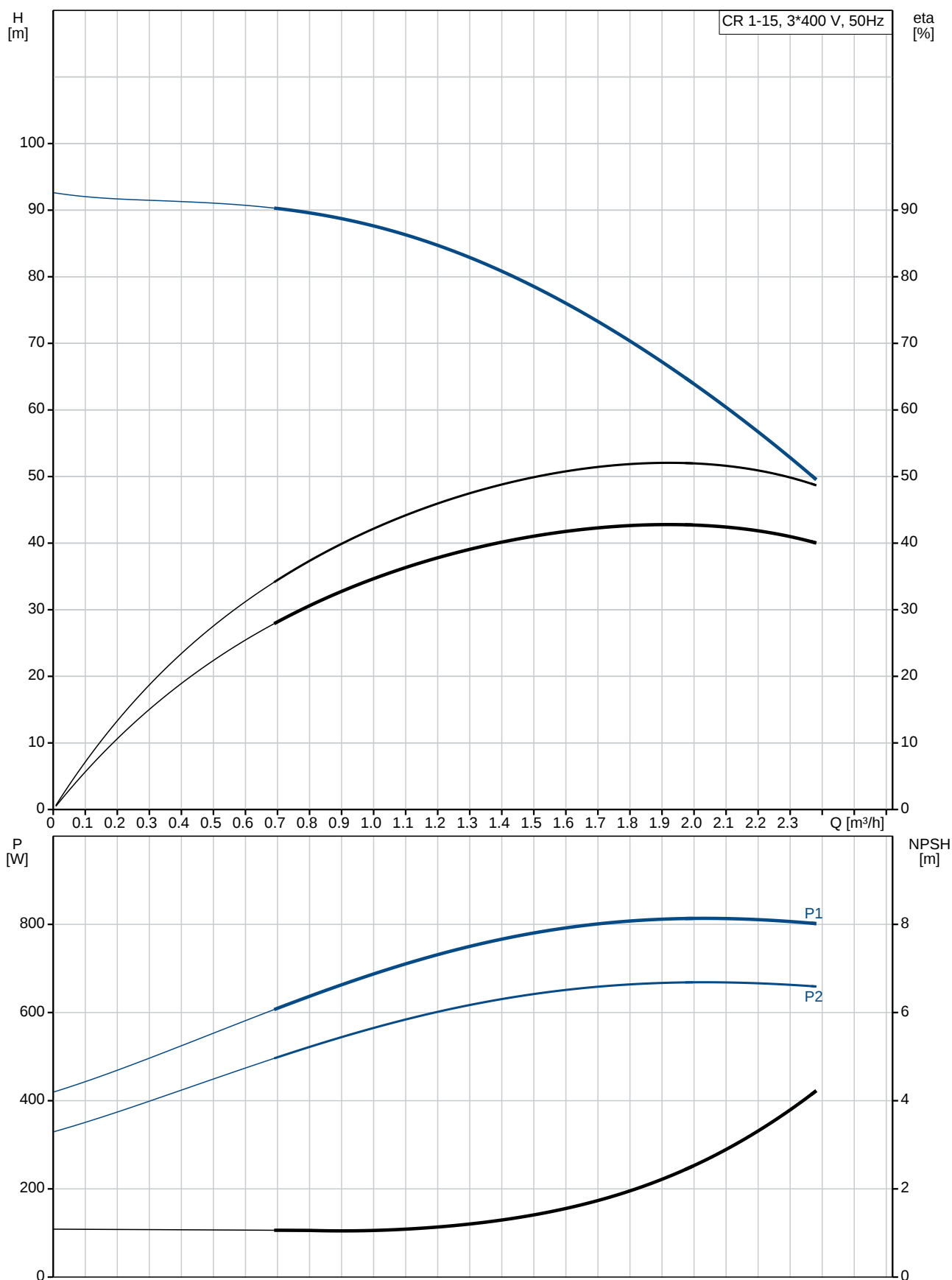
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Date:

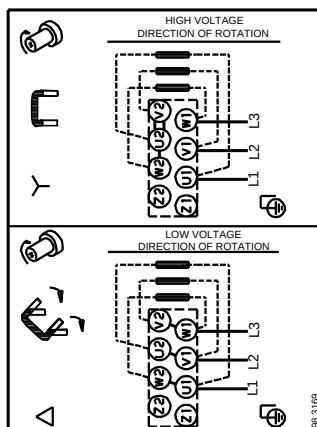
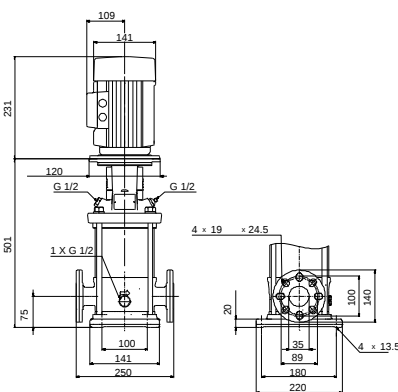
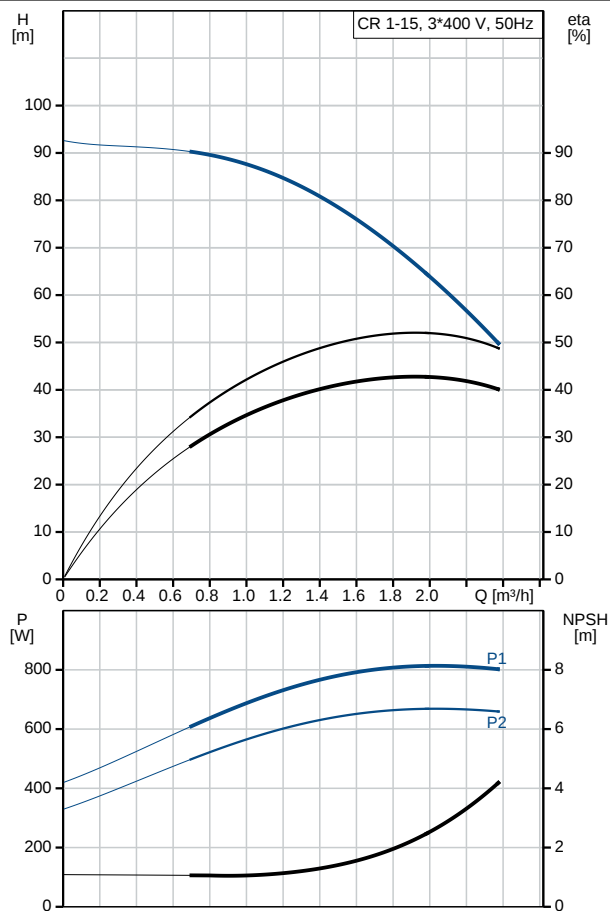
14/02/2019

| Qty. | Description                                                                  |
|------|------------------------------------------------------------------------------|
|      | <div data-bbox="193 331 1474 369">Shipping volume: 0.092 m<sup>3</sup></div> |

## 96516250 CR 1-15 A-FGJ-A-E-HQQE 50 Hz



| Description                              | Value                                           |
|------------------------------------------|-------------------------------------------------|
| <b>General information:</b>              |                                                 |
| Product name:                            | CR 1-15<br>A-FGJ-A-E-HQQE                       |
| Product No:                              | 96516250                                        |
| EAN number:                              | 5700396739458                                   |
| <b>Technical:</b>                        |                                                 |
| Pump speed on which pump data are based: | 2864 rpm                                        |
| Rated flow:                              | 1.8 m³/h                                        |
| Rated head:                              | 69.6 m                                          |
| Head max:                                | 92.6 m                                          |
| Stages:                                  | 15                                              |
| Impellers:                               | 15                                              |
| Number of reduced-diameter impellers:    | 0                                               |
| Low NPSH:                                | N                                               |
| Pump orientation:                        | Vertical                                        |
| Shaft seal arrangement:                  | Single                                          |
| Code for shaft seal:                     | HQQE                                            |
| Approvals on nameplate:                  | CE, EAC, ACS                                    |
| Curve tolerance:                         | ISO9906:2012 3B                                 |
| Pump version:                            | A                                               |
| Model:                                   | A                                               |
| <b>Materials:</b>                        |                                                 |
| Base:                                    | Cast iron<br>EN 1561 EN-GJL-200<br>ASTM A48-25B |
| Impeller:                                | Stainless steel<br>EN 1.4301<br>AISI 304        |
| Material code:                           | A                                               |
| Code for rubber:                         | E                                               |
| Bearing:                                 | SIC                                             |
| <b>Installation:</b>                     |                                                 |
| Maximum ambient temperature:             | 60 °C                                           |
| Maximum operating pressure:              | 25 bar                                          |
| Max pressure at stated temp:             | 25 bar / -20 °C                                 |
| Type of connection:                      | DIN / ANSI / JIS                                |
| Size of inlet connection:                | DN 25/32<br>1 1/4 inch                          |
| Size of outlet connection:               | DN 25/32<br>1 1/4 inch                          |
| Pressure rating for pipe connection:     | PN 25                                           |
| Flange rating inlet:                     | 250 lb                                          |
| Flange size for motor:                   | FT100                                           |
| Connect code:                            | FGJ                                             |
| <b>Liquid:</b>                           |                                                 |
| Pumped liquid:                           | Water                                           |
| Liquid temperature range:                | -20 .. 120 °C                                   |
| Liquid temperature during operation:     | 20 °C                                           |
| Density:                                 | 998.2 kg/m³                                     |
| <b>Electrical data:</b>                  |                                                 |
| Motor standard:                          | IEC                                             |
| Motor type:                              | 80A                                             |
| IE Efficiency class:                     | IE3                                             |
| Rated power - P2:                        | 0.75 kW                                         |
| Power (P2) required by pump:             | 0.75 kW                                         |
| Mains frequency:                         | 50 Hz                                           |





Company name:

Created by:

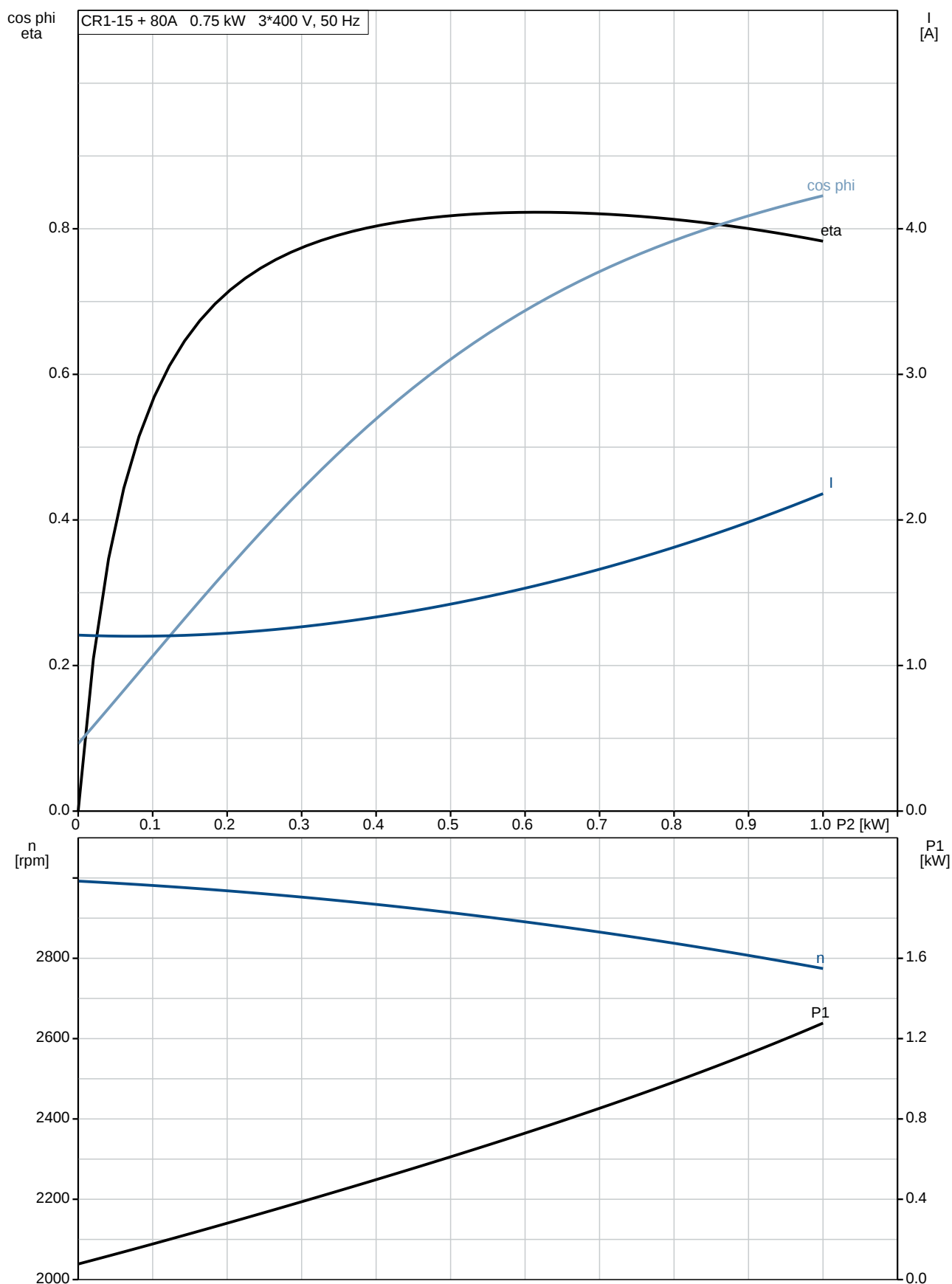
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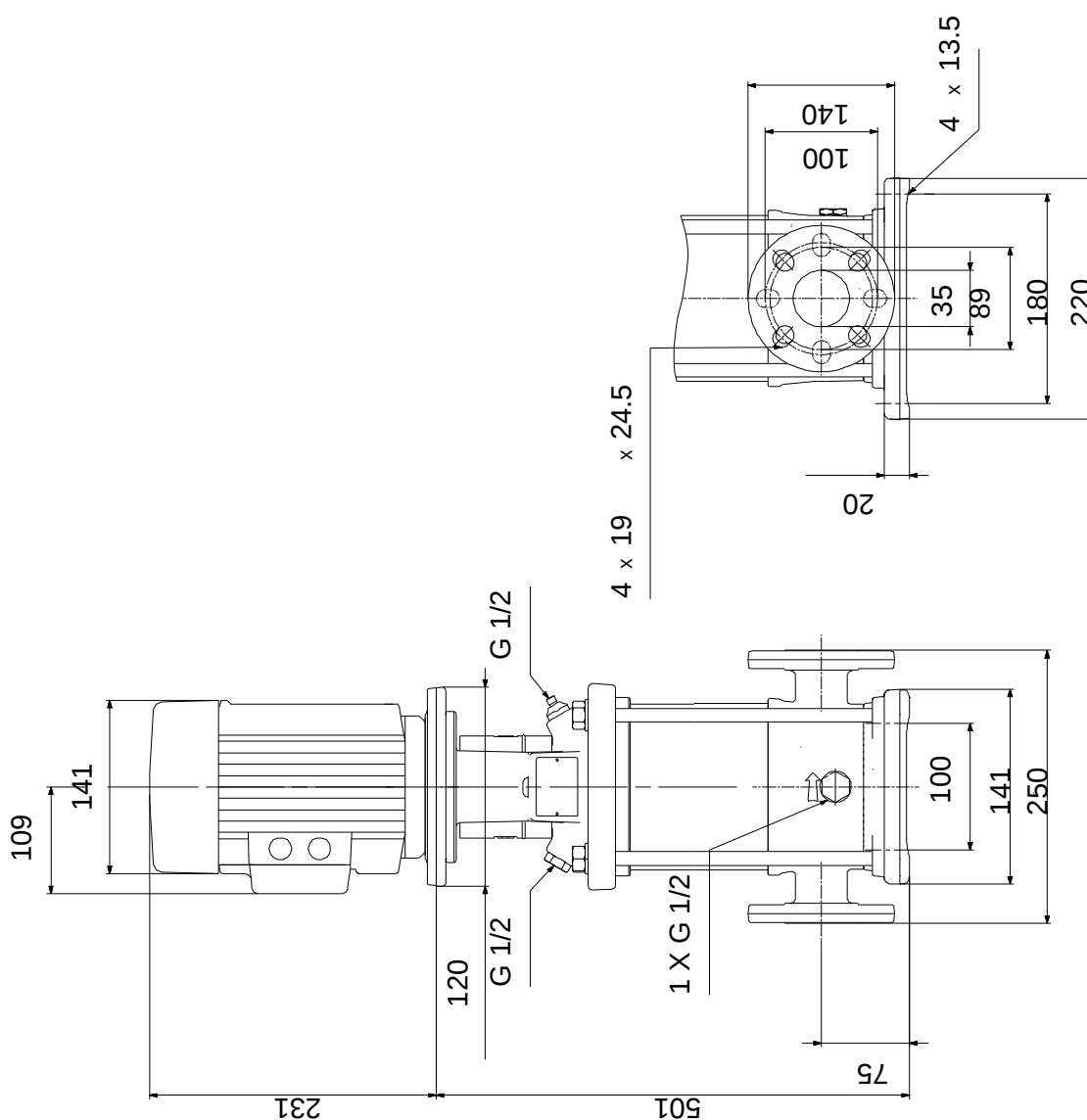
14/02/2019

| Description                      | Value                      |
|----------------------------------|----------------------------|
| Rated voltage:                   | 3 x 220-240D/380-415Y<br>V |
| Rated current:                   | 3.30/1.90 A                |
| Starting current:                | 580-620 %                  |
| Cos phi - power factor:          | 0.81-0.71                  |
| Rated speed:                     | 2840-2870 rpm              |
| Efficiency:                      | IE3 80,7%                  |
| Motor efficiency at full load:   | 80.7 %                     |
| Motor efficiency at 3/4 load:    | 82.7 %                     |
| Motor efficiency at 1/2 load:    | 81.7 %                     |
| Number of poles:                 | 2                          |
| Enclosure class (IEC 34-5):      | 55 Dust/Jetting            |
| Insulation class (IEC 85):       | F                          |
| Motor protec:                    | NONE                       |
| Motor No:                        | 85U05104                   |
| <b>Controls:</b>                 |                            |
| Frequency converter:             | NONE                       |
| <b>Others:</b>                   |                            |
| Minimum efficiency index, MEI %: | 0.70                       |
| Net weight:                      | 30.3 kg                    |
| Gross weight:                    | 34.4 kg                    |
| Shipping volume:                 | 0.092 m <sup>3</sup>       |

## 96516250 CR 1-15 A-FGJ-A-E-HQQE 50 Hz

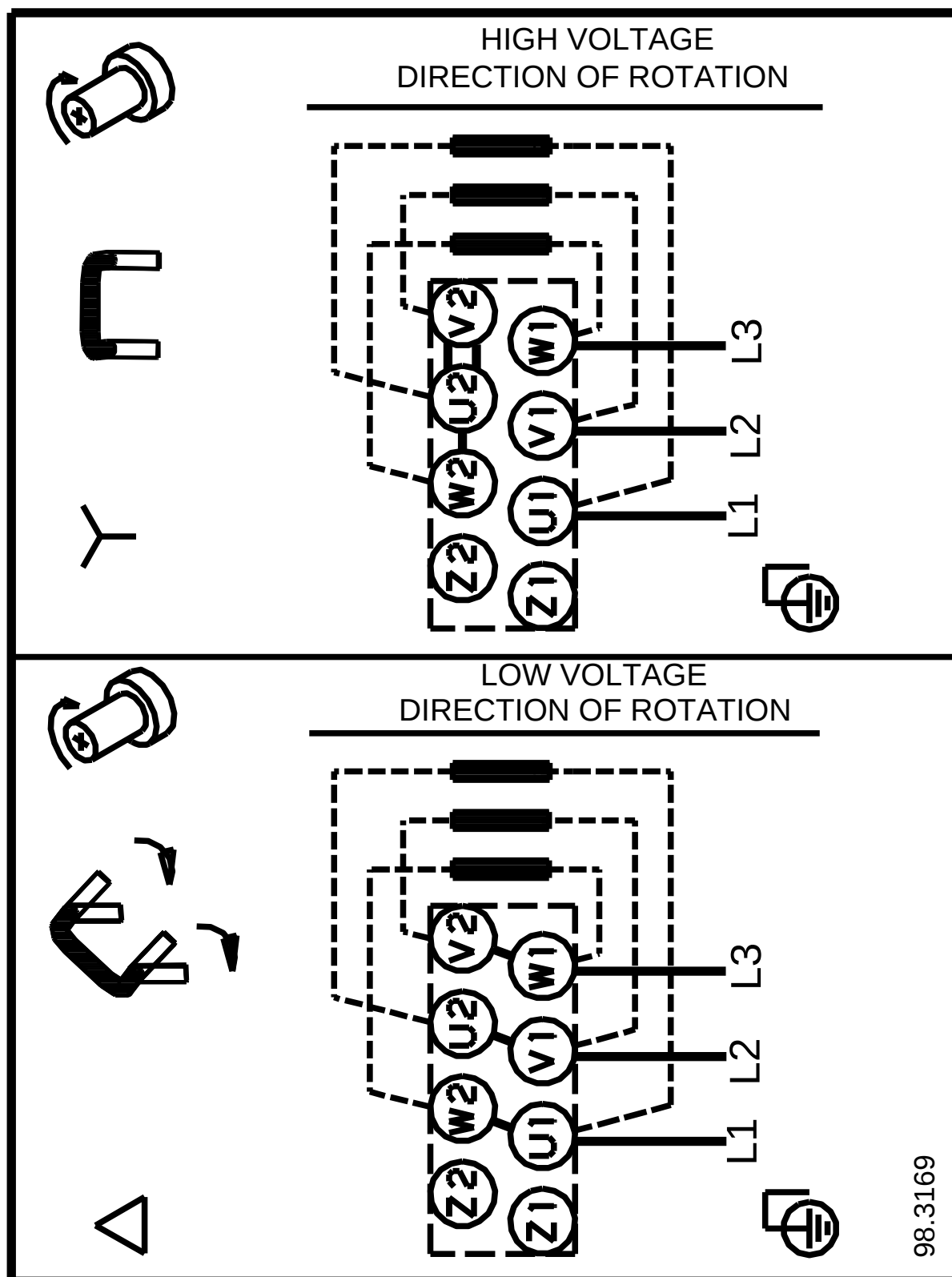


## 96516250 CR 1-15 A-FGJ-A-E-HQQE 50 Hz



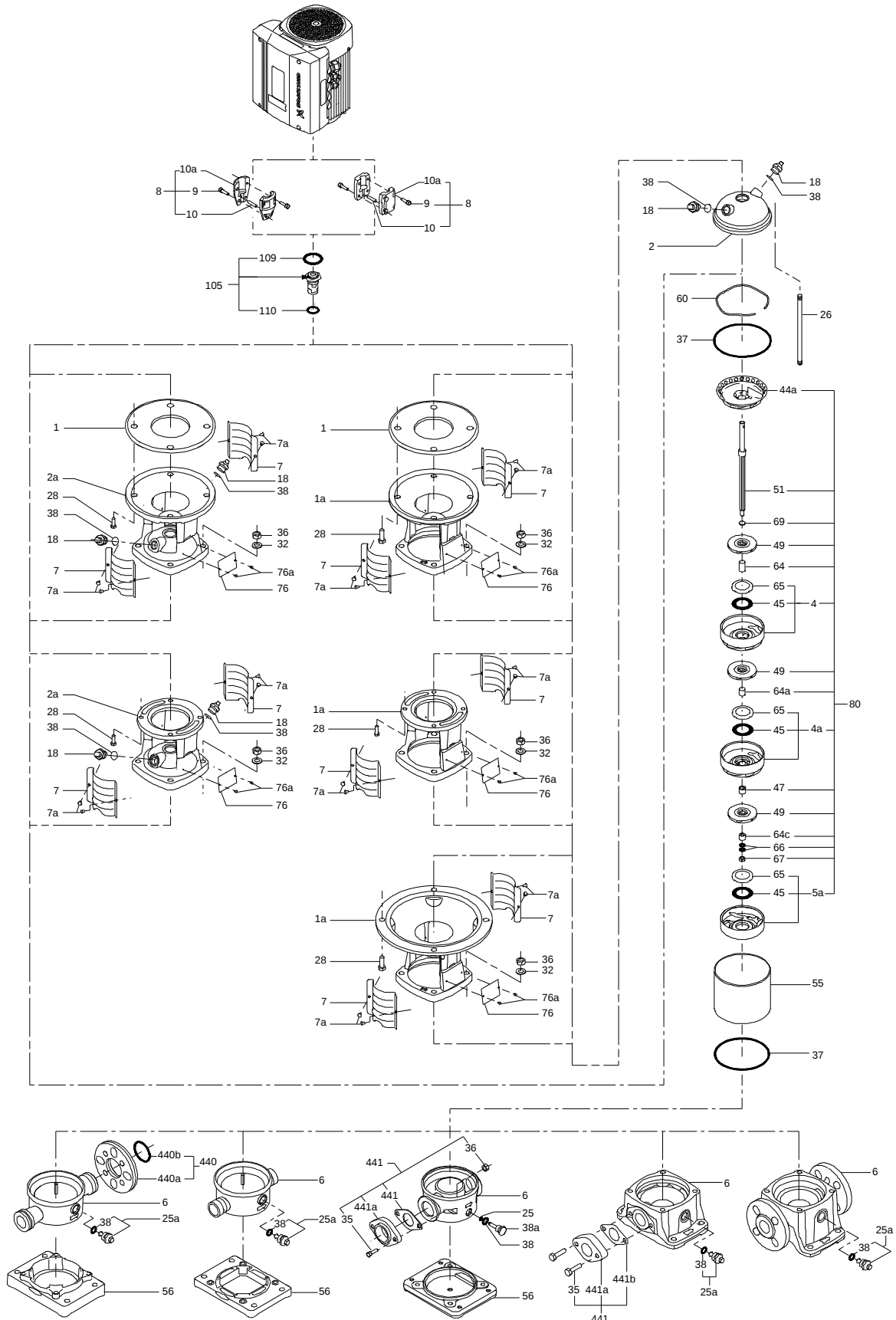
Note! All units are in [mm] unless others are stated.  
Disclaimer: This simplified dimensional drawing does not show all details.

## 96516250 CR 1-15 A-FGJ-A-E-HQQE 50 Hz

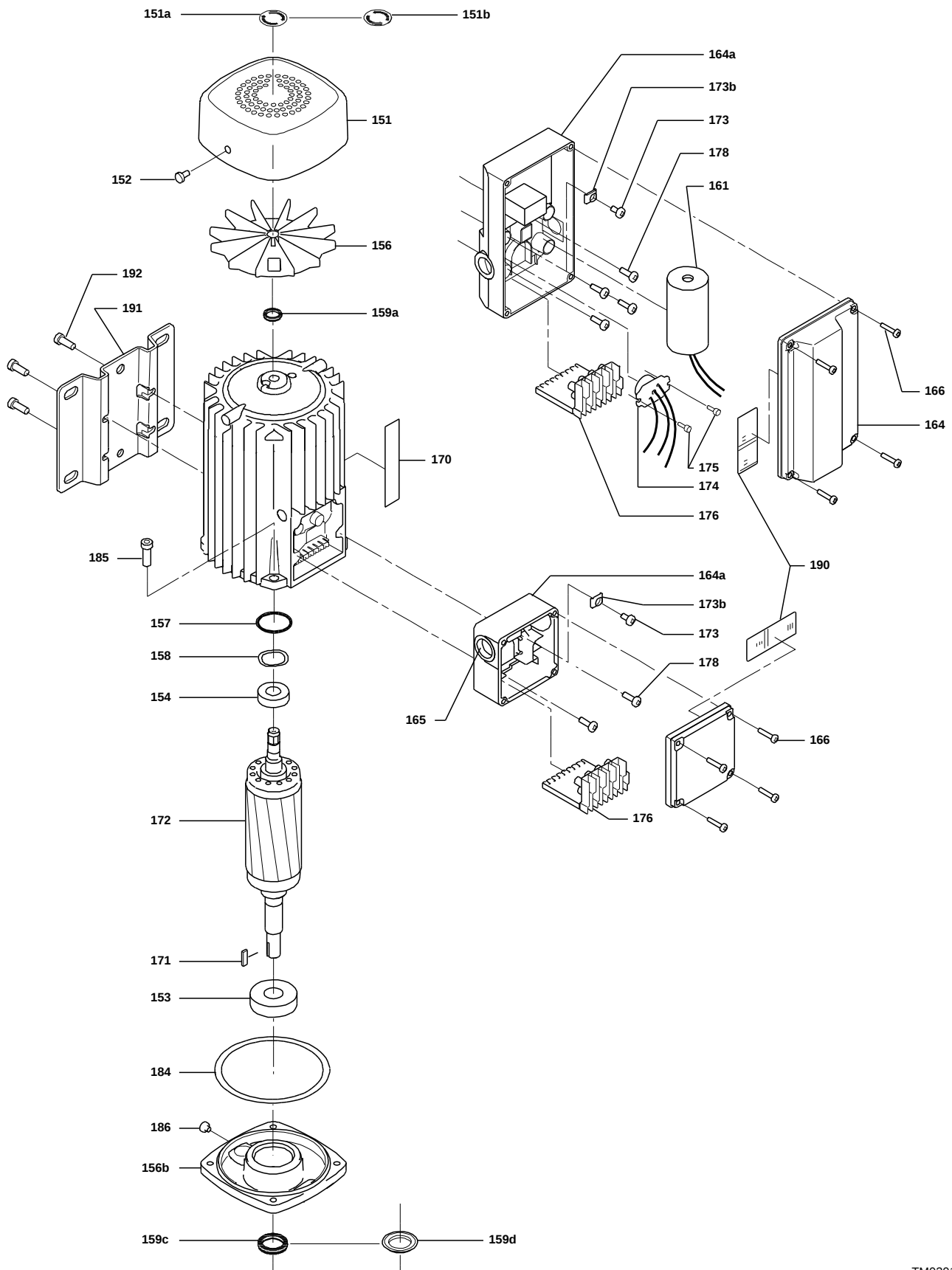


Note! All units are in [mm] unless others are stated.

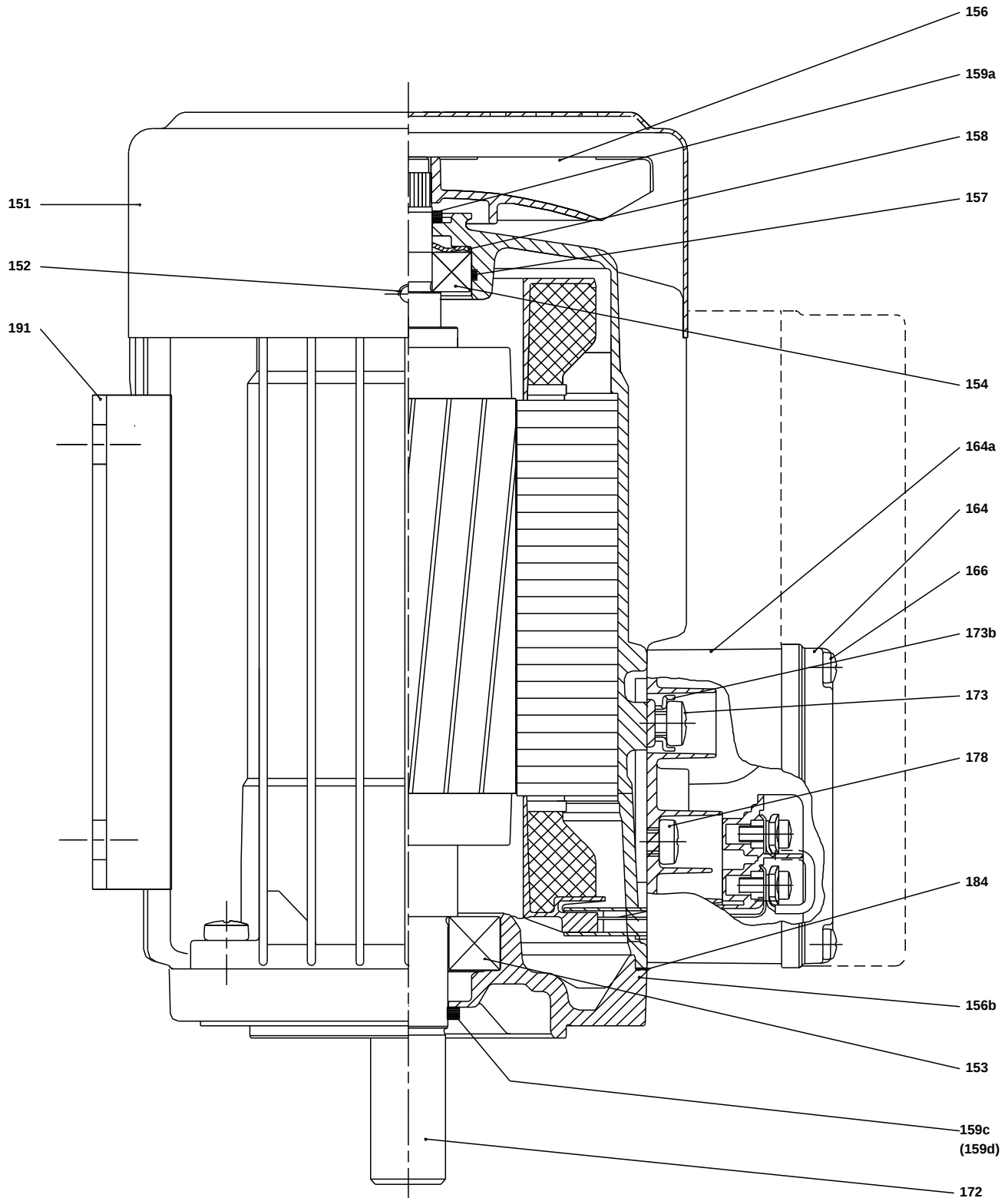
( TM069451 for SMCR standard)



(TM030163 0505)

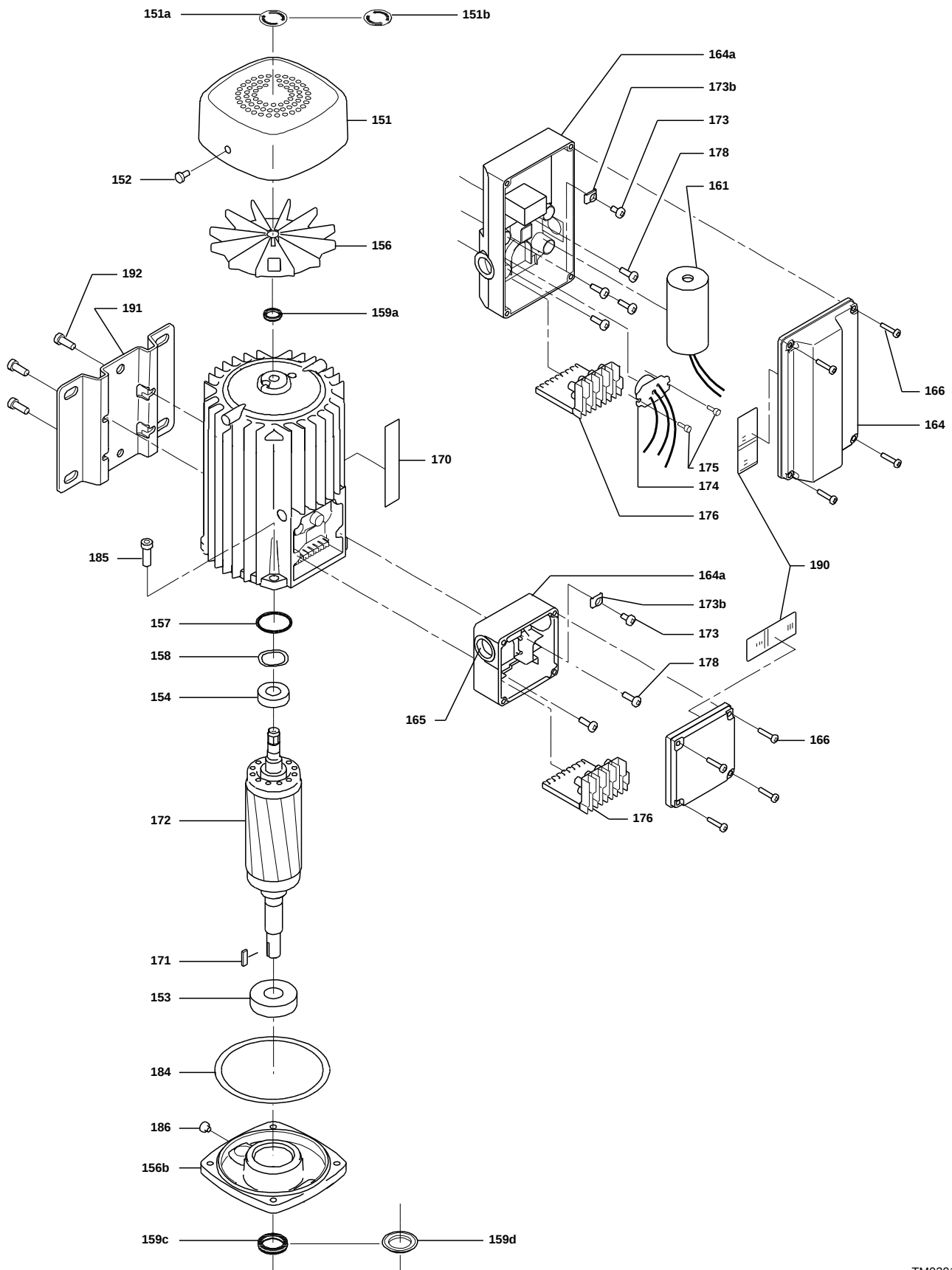


(TM029177)

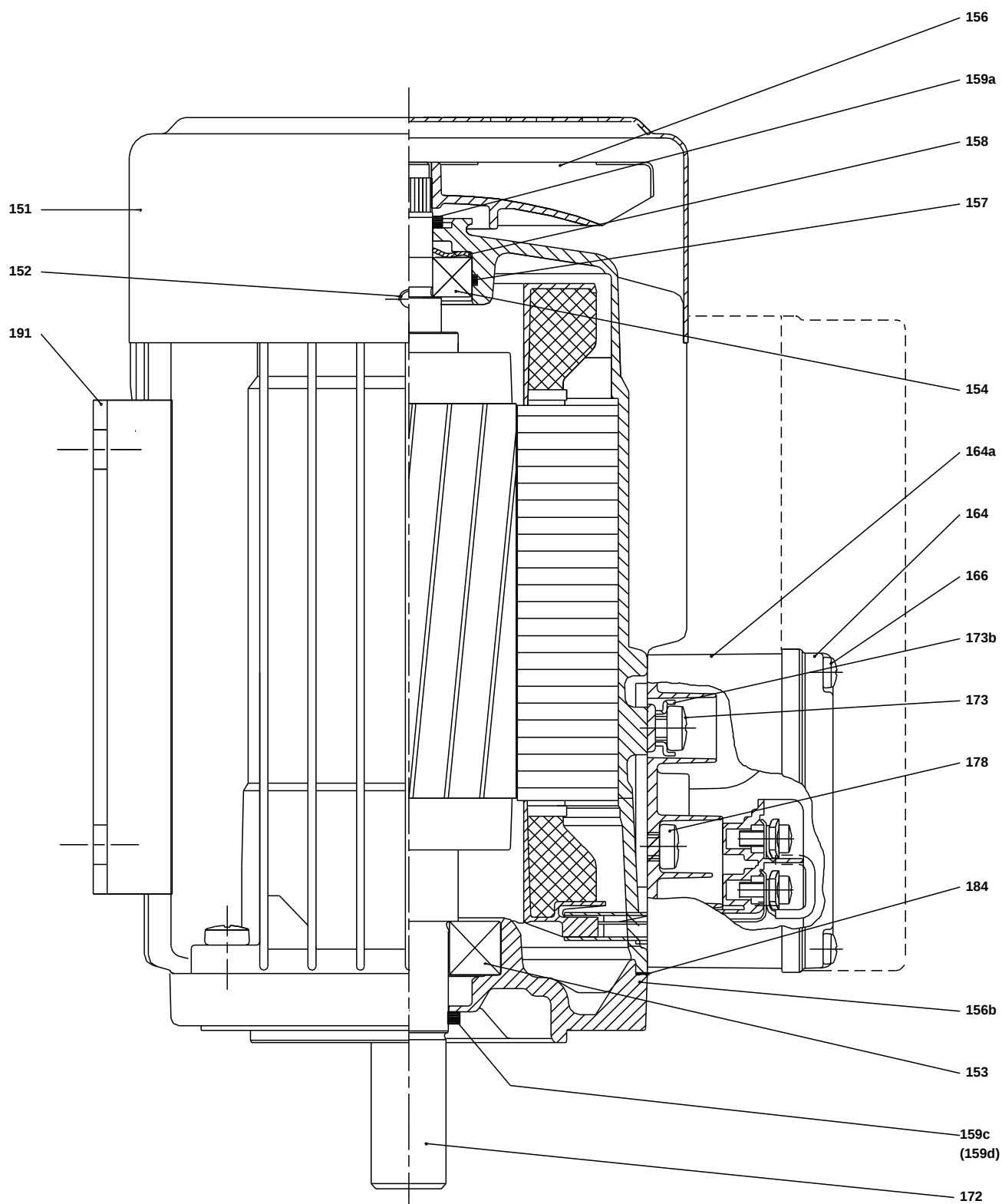


TM029177)

(TM030163 0505)



(TM029177)



TM029177)

## Spare parts CR 1-15, Product No. 96516250

Valid from 1.1.2011 (1152)

| Pos   | Description               | Annotation | Classification Data      | Part no. | Qty. | Unit |
|-------|---------------------------|------------|--------------------------|----------|------|------|
| - 80  | Kit, chamber stack        |            |                          | 96453497 | 1    | pcs  |
| - 4a  | Chamber w. bearing cpl.   |            |                          |          | 2    |      |
|       | Vane                      |            |                          |          |      |      |
|       | Intermediate chamber      |            |                          |          |      |      |
|       | Retainer for bearing      |            |                          |          |      |      |
|       | Guide vane                |            |                          |          |      |      |
| 45    | Neck ring                 |            |                          |          |      |      |
| 47    | Bearing bush              |            |                          |          |      |      |
| 65    | Retainer                  |            |                          |          |      |      |
| 65    | Retainer                  |            |                          |          |      |      |
| - 4   | Chamber cpl.              |            |                          |          | 12   |      |
|       | Vane                      |            |                          |          |      |      |
|       | Intermediate chamber      |            |                          |          |      |      |
|       | Plate                     |            |                          |          |      |      |
|       | Guide vane                |            |                          |          |      |      |
| 45    | Neck ring                 |            |                          |          |      |      |
| 65    | Retainer                  |            |                          |          |      |      |
| 65    | Retainer                  |            |                          |          |      |      |
| - 5a  | Chamber cpl.              |            |                          |          | 1    |      |
|       | Vane                      |            |                          |          |      |      |
|       | Intermediate chamber      |            |                          |          |      |      |
| 45    | Neck ring                 |            |                          |          |      |      |
| 65    | Retainer                  |            |                          |          |      |      |
| 65    | Retainer                  |            |                          |          |      |      |
| - 44a | Guide vane cpl.           |            |                          |          | 1    |      |
|       | Plate                     |            |                          |          |      |      |
|       | Guide vane                |            |                          |          |      |      |
| 50    | Top plate                 |            |                          |          |      |      |
| 47    | Bearing ring, rotating    |            |                          |          | 2    |      |
| 49    | Impeller                  |            |                          |          | 15   |      |
| - 51  | Shaft, spline, cpl.       |            |                          |          | 1    |      |
|       | Shaft                     |            |                          |          |      |      |
| 62    | Stop ring                 |            |                          |          |      |      |
| 64d   | Spacing pipe              |            | Internal diameter: 12,85 |          | 2    |      |
|       |                           |            | Outer diameter: 15,85    |          |      |      |
|       |                           |            | Length (mm): 4,50        |          |      |      |
| 64c   | Clamp, splined            |            | Internal diameter: 8,5   |          | 1    |      |
|       |                           |            | Outer diameter: 15       |          |      |      |
| 64a   | Spacing pipe              |            |                          |          | 12   |      |
| 66    | Wedge lock washer         |            |                          |          | 1    |      |
| 67    | Lock nut                  |            | Thread: M8               |          | 1    |      |
| -     | Kit, coupling             |            |                          | 00415061 | 1    | pcs  |
| 9     | Hex socket head cap screw |            | Designation: DIN 912     |          | 4    |      |
|       |                           |            | Length (mm): 20          |          |      |      |
|       |                           |            | Thread: M6               |          |      |      |
| 10a   | Coupling half             |            |                          |          | 2    |      |
| 10    | Shaft pin                 |            | Diameter: 5              |          | 1    |      |
|       |                           |            | Length (mm): 26          |          |      |      |
| -     | Kit, coupling guard       |            |                          | 96505130 | 1    | pcs  |
| 7.a   | Combi Slot Torx screw     |            |                          |          | 4    |      |
| 7     | Coupling guard            |            |                          |          | 2    |      |
| -     | Kit, gaskets              |            |                          | 96455090 | 1    | pcs  |
| 37    | O-ring                    |            |                          |          | 2    |      |

| Pos   | Description             | Annotation | Classification Data            | Part no. | Qty. | Unit |
|-------|-------------------------|------------|--------------------------------|----------|------|------|
| 38    | O-ring                  |            | Diameter: 16,3                 |          | 1    |      |
|       |                         |            | Material type: EPDM            |          |      |      |
|       |                         |            | Thickness: 2,4                 |          |      |      |
| 38    | O-ring                  |            | Diameter: 16,3                 |          | 2    |      |
|       |                         |            | Material type: EPDM            |          |      |      |
|       |                         |            | Thickness: 2,4                 |          |      |      |
| 109   | O-ring                  |            | Diameter: 22,00                |          | 1    |      |
|       |                         |            | Material type: EPDM            |          |      |      |
|       |                         |            | Thickness: 2,75                |          |      |      |
| -     | Kit, plug               |            |                                | 96505133 | 1    | pcs  |
| - 18  | Air vent screw          |            |                                |          | 1    |      |
|       | Spindle                 |            |                                |          |      |      |
|       | Plug                    |            |                                |          |      |      |
| 23b   | Spindle                 |            |                                |          | 1    |      |
| 25    | Plug                    |            |                                |          | 1    |      |
| 25    | Plug                    |            |                                |          | 1    |      |
| 38    | O-ring                  |            | Diameter: 16,3                 |          | 1    |      |
|       |                         |            | Material type: FKM             |          |      |      |
|       |                         |            | Thickness: 2,4                 |          |      |      |
| 38    | O-ring                  |            | Diameter: 16,3                 |          | 2    |      |
|       |                         |            | Material type: FKM             |          |      |      |
|       |                         |            | Thickness: 2,4                 |          |      |      |
| 38    | O-ring                  |            | Diameter: 16,3                 |          | 1    |      |
|       |                         |            | Material type: EPDM            |          |      |      |
|       |                         |            | Thickness: 2,4                 |          |      |      |
| 38    | O-ring                  |            | Diameter: 16,3                 |          | 2    |      |
|       |                         |            | Material type: EPDM            |          |      |      |
|       |                         |            | Thickness: 2,4                 |          |      |      |
| -     | Kit, shaft seal HQQE    |            |                                | 96455086 | 1    | pcs  |
| + 105 | Shaft seal              |            | Material type: HQQE            |          | 1    |      |
| -     | Kit, wear parts         |            | Material type: SILICON CARBIDE | 96455092 | 1    | pcs  |
| - 4a  | Chamber w. bearing cpl. |            |                                |          | 2    |      |
| 4a    | Intermediate chamber    |            |                                |          |      |      |
| 45    | Neck ring               |            |                                |          |      |      |
| 65    | Neck ring retainer      |            |                                |          |      |      |
| 45    | Neck ring               |            |                                |          | 17   |      |
| 47    | Bearing ring, rotating  |            |                                |          | 2    |      |
| 64d   | Spacing pipe            |            | Internal diameter: 12,85       |          | 2    |      |
|       |                         |            | Outer diameter: 15,85          |          |      |      |
|       |                         |            | Length (mm): 4,50              |          |      |      |
| 64c   | Clamp, splined          |            | Internal diameter: 8,5         |          | 1    |      |
|       |                         |            | Outer diameter: 15             |          |      |      |
| 65    | Neck ring retainer      |            |                                |          | 17   |      |
| 66    | Wedge lock washer       |            |                                |          | 1    |      |
| 67    | Lock nut                |            | Thread: M8                     |          | 1    |      |
| 441b  | Gasket                  |            |                                |          | 2    |      |
| -     | Motor                   |            |                                | 85903982 | 1    | pcs  |
| -     | Kit, Ball bearing       |            |                                | 96279730 | 1    |      |
| 111   | Ball bearing            |            | Designation: 6204.2Z.C3.SYN    |          |      |      |
| 111   | Ball bearing            |            |                                |          |      |      |
| 157   | O-ring                  |            | Diameter: 32                   |          |      |      |
|       |                         |            | Material type: NBR             |          |      |      |
|       |                         |            | Thickness: 2                   |          |      |      |
| 158   | Waved washer            |            |                                |          |      |      |
| -     | Kit, fan                |            |                                | 96279721 | 1    |      |
| 156   | Fan                     |            |                                |          |      |      |
| 159a  | Seal ring               |            |                                |          |      |      |
| -     | Kit, fan cover          |            |                                | 96279720 | 1    |      |

| Pos  | Description                   | Annotation | Classification Data                                                                      | Part no. | Qty. | Unit |
|------|-------------------------------|------------|------------------------------------------------------------------------------------------|----------|------|------|
| 151  | Fan cover                     |            |                                                                                          |          |      |      |
| 152  | Pan head thread forming screw |            |                                                                                          |          |      |      |
| -    | Kit, flange                   |            |                                                                                          | 96279854 | 1    |      |
| 156b | Flange                        |            |                                                                                          |          |      |      |
| 159c | Seal ring                     |            |                                                                                          |          |      |      |
| 184  | Gasket                        |            | Internal diameter: 114,80<br>Outer diameter: 121,20<br>Thickness: 0,25                   |          |      |      |
| 185  | Pan head screw                |            |                                                                                          |          |      |      |
| 186  | Drain plug                    |            |                                                                                          |          |      |      |
| -    | Kit, shaft seal               |            |                                                                                          | 96279722 | 1    |      |
| 159c | Seal ring                     |            |                                                                                          |          |      |      |
| 159a | Seal ring                     |            |                                                                                          |          |      |      |
| -    | Kit, terminal box             |            |                                                                                          | 96279724 | 1    |      |
| 152  | Pan head thread forming screw |            |                                                                                          |          |      |      |
| 164a | Terminal box w/gasket         |            |                                                                                          |          |      |      |
| 164  | Terminal box cover w/gasket   |            |                                                                                          |          |      |      |
| 173a | Washer                        |            | Designation: SQUARE<br>Internal diameter: 5,5<br>Outer diameter: 10X10<br>Thickness: 1,5 |          |      |      |
| 173a | Base                          |            |                                                                                          |          |      |      |
| 173  | Pan head thread forming screw |            | Designation: COMBI TORX T25                                                              |          |      |      |
| 173  | Pan head screw                |            | Designation: DIN 7985                                                                    |          |      |      |
| 175  | Pan head screw                |            | Designation: DIN 7985                                                                    |          |      |      |
| 176  | Terminal cpl.                 |            |                                                                                          |          |      |      |
| -    | Motor                         |            |                                                                                          | 85900490 | 1    | pcs  |
| -    | Kit, Ball bearing             |            |                                                                                          | 96279730 | 1    |      |
| 111  | Ball bearing                  |            | Designation: 6204.2Z.C3.SYN                                                              |          |      |      |
| 111  | Ball bearing                  |            |                                                                                          |          |      |      |
| 157  | O-ring                        |            | Diameter: 32<br>Material type: NBR<br>Thickness: 2                                       |          |      |      |
| 158  | Waved washer                  |            |                                                                                          |          |      |      |
| -    | Kit, fan                      |            |                                                                                          | 96279721 | 1    |      |
| 156  | Fan                           |            |                                                                                          |          |      |      |
| 159a | Seal ring                     |            |                                                                                          |          |      |      |
| -    | Kit, fan cover                |            |                                                                                          | 96279720 | 1    |      |
| 151  | Fan cover                     |            |                                                                                          |          |      |      |
| 152  | Pan head thread forming screw |            |                                                                                          |          |      |      |
| -    | Kit, flange                   |            |                                                                                          | 96279854 | 1    |      |
| 156b | Flange                        |            |                                                                                          |          |      |      |
| 159c | Seal ring                     |            |                                                                                          |          |      |      |
| 184  | Gasket                        |            | Internal diameter: 114,80<br>Outer diameter: 121,20<br>Thickness: 0,25                   |          |      |      |
| 185  | Pan head screw                |            |                                                                                          |          |      |      |
| 186  | Drain plug                    |            |                                                                                          |          |      |      |
| -    | Kit, shaft seal               |            |                                                                                          | 96279722 | 1    |      |
| 159c | Seal ring                     |            |                                                                                          |          |      |      |
| 159a | Seal ring                     |            |                                                                                          |          |      |      |
| -    | Kit, terminal box             |            |                                                                                          | 96279724 | 1    |      |
| 152  | Pan head thread forming screw |            |                                                                                          |          |      |      |
| 164a | Terminal box w/gasket         |            |                                                                                          |          |      |      |
| 164  | Terminal box cover w/gasket   |            |                                                                                          |          |      |      |
| 173a | Washer                        |            | Designation: SQUARE<br>Internal diameter: 5,5<br>Outer diameter: 10X10                   |          |      |      |

| Pos            | Description                           | Annotation | Classification Data                          | Part no. | Qty. | Unit |
|----------------|---------------------------------------|------------|----------------------------------------------|----------|------|------|
| Thickness: 1,5 |                                       |            |                                              |          |      |      |
| 173a           | Base                                  |            |                                              |          |      |      |
| 173            | Pan head thread forming screw         |            | Designation: COMBI TORX T25                  |          |      |      |
| 173            | Pan head screw                        |            | Designation: DIN 7985                        |          |      |      |
| 175            | Pan head screw                        |            | Designation: DIN 7985                        |          |      |      |
| 176            | Terminal cpl.                         |            |                                              |          |      |      |
| + 4a           | Bulk, Chamber w. bearing cpl. (3 pcs) |            |                                              | 98371208 | 2    | pcs  |
| + 4a           | Bulk, Chamber w. bearing cpl. (5 pcs) |            |                                              | 97690601 | 2    | pcs  |
| + 4a           | Bulk, Chamber w. bearing cpl. (5 pcs) |            |                                              | 97690590 | 2    | pcs  |
| + 4a           | Chamber w. bearing cpl.               |            |                                              | 98371207 | 2    | pcs  |
| - 4            | Bulk, Chamber cpl. (5 pcs)            |            |                                              | 97690020 | 12   | pcs  |
| 45             | Bulk, Neck ring (24 pcs)              |            |                                              | 96536194 | 1    |      |
| 65             | Bulk, Retainer (24 pcs)               |            |                                              | 98270018 | 1    |      |
| + 4            | Bulk, Chamber cpl. (10 pcs)           |            |                                              | 96547662 | 12   | pcs  |
| + 4            | Chamber cpl.                          |            |                                              | 98371206 | 12   | pcs  |
| + 5a           | Bulk, Chamber cpl. (10 pcs)           |            |                                              | 98371205 | 1    | pcs  |
| + 5a           | Chamber cpl.                          |            |                                              | 96588148 | 1    | pcs  |
| 6              | Base                                  |            |                                              | 96588146 | 1    | pcs  |
| 10a            | Coupling half                         |            |                                              | 96588030 | 2    | pcs  |
| 10             | Bulk, Shaft pin (10 pcs)              |            | Diameter: 5<br>Length (mm): 26               | 96536473 | 1    | pcs  |
| - 25a          | Drain plug w/bypass valve             |            |                                              | 96588242 | 1    | pcs  |
| 38             | Bulk, O-ring (10 pcs)                 |            | Diameter: 16,3                               | 99198815 | 1    |      |
|                |                                       |            | Material type: EPDM                          |          |      |      |
|                |                                       |            | Thickness: 2,4                               |          |      |      |
| 38             | Bulk, O-ring (50 pcs)                 |            | Diameter: 16,3                               | 99412727 | 1    |      |
|                |                                       |            | Material type: EPDM                          |          |      |      |
|                |                                       |            | Thickness: 2,4                               |          |      |      |
| 26             | Staybolt                              |            | Length (mm): 292                             | 98914860 | 4    | pcs  |
|                |                                       |            | Thread: M12                                  |          |      |      |
| 36             | Bulk, Nut (20 pcs)                    |            | Thread: M12                                  | 96620479 | 4    | pcs  |
| 37             | Bulk, O-ring (24 pcs)                 |            |                                              | 96547656 | 2    | pcs  |
| 38             | Bulk, O-ring (10 pcs)                 |            | Diameter: 16,3                               | 99198815 | 2    | pcs  |
|                |                                       |            | Material type: EPDM                          |          |      |      |
|                |                                       |            | Thickness: 2,4                               |          |      |      |
| 38             | Bulk, O-ring (50 pcs)                 |            | Diameter: 16,3                               | 99412727 | 2    | pcs  |
|                |                                       |            | Material type: EPDM                          |          |      |      |
|                |                                       |            | Thickness: 2,4                               |          |      |      |
| + 44a          | Bulk, Guide vane cpl. (5 pcs)         |            |                                              | 96547669 | 1    | pcs  |
| + 44a          | Guide vane cpl.                       |            |                                              | 98371221 | 1    | pcs  |
| 47             | Bulk, Bearing ring, rotating (10 pcs) |            |                                              | 97905743 | 2    | pcs  |
| 47             | Bearing ring, rotating                |            |                                              | 96547649 | 2    | pcs  |
| 49             | Bulk, Impeller (10 pcs)               |            |                                              | 98394237 | 15   | pcs  |
| 49             | Bulk, Impeller (24 pcs)               |            |                                              | 96547665 | 15   | pcs  |
| 49             | Impeller                              |            |                                              | 98394397 | 15   | pcs  |
| + 51           | Shaft, spline, cpl.                   |            |                                              | 96588235 | 1    | pcs  |
| 64c            | Bulk, Clamp, splined (5 pcs)          |            | Internal diameter: 8,5<br>Outer diameter: 15 | 98496968 | 1    | pcs  |
| 64a            | Bulk, Spacing pipe (24 pcs)           |            |                                              | 96536198 | 12   | pcs  |
| 66             | Bulk, Wedge lock washer (10 pcs)      |            |                                              | 96536157 | 1    | pcs  |
| 67             | Bulk, Lock nut (10 pcs)               |            | Thread: M8                                   | 98277008 | 1    | pcs  |
| + 105          | Bulk, Shaft seal (15 pcs)             |            | Material type: HQQE                          | 96983415 | 1    | pcs  |