

Company name: Created by: Phone:

**Date:** 16/02/2019

Qty. | Description

1 | CRN 5-20 A-P-A-E-HQQE



Product No.: 96517254

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade 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 PJE (Victaulic®) couplings.

The pump is fitted with a 3-phase, fan-cooled asynchronous motor.

## **Further product details**

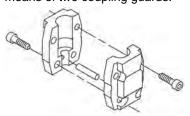
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An integral part of the process is a pretreatment. The entire process consists of these elements:

- 1) Alkaline-based cleaning.
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.

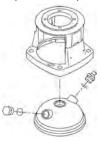
The colour code for the finished product is NCS 9000/RAL 9005.

## **Pump**

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.



The pump head and flange for motor mounting is made in one piece (cast iron). The pump head cover is a separate component (stainless steel). The pump head has a combined 1/2" priming plug and vent screw.



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.

Primary seal:

Rotating seal ring material: silicon carbide (SiC)



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Stationary seat material: silicon carbide (SiC)

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 pump has a stainless-steel base mounted on a separate base plate. The base and base plate are kept in position by the tension of the staybolts which hold the pump together. 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 prepared for connection by means of PJE (Victualic®) couplings.



### **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 has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.

The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

#### **Technical data**

**Controls:** 

Frequency converter: NONE

Liquid:

Pumped liquid: Water
Liquid temperature range: -20 .. 120 °C
Liquid temperature during operation: 20 °C
Density: 998.2 kg/m³



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#### Technical:

Pump speed on which pump data are based: 2902 rpm

Rated flow: 5.8 m³/h
Rated head: 102.9 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE
Approvals on nameplate: CE, EAC,ACS
Curve tolerance: ISO9906:2012 3B

Materials:

Base: Stainless steel

EN 1.4408 AISI 316 Stainless steel

Impeller: Stainless stee

EN 1.4401 AISI 316

Bearing: SIC

#### Installation:

Maximum ambient temperature: 60 °C Maximum operating pressure: 25 bar

Max pressure at stated temp: 25 bar / 120 °C

25 bar / -20 °C

Type of connection: PJE
Size of inlet connection: DN 32

1 1/4 inch

Size of outlet connection: DN 32

1 1/4 inch

Pressure rating for pipe connection: PN 50 Flange size for motor: FT130

#### **Electrical data:**

Motor standard: IEC
Motor type: 100LC
IE Efficiency class: IE3
Rated power - P2: 3 kW
Power (P2) required by pump: 3 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 220-240D/380-415Y V

Rated current: 11.0/6.30 A Starting current: 840-920 % Cos phi - power factor: 0.87-0.82 Rated speed: 2900-2920 rpm Efficiency: IE3 87,1% Motor efficiency at full load: 87.1 % Motor efficiency at 3/4 load: 88.0 % Motor efficiency at 1/2 load: 87.7 % Number of poles:

Enclosure class (IEC 34-5): 55 Dust/Jetting

Insulation class (IEC 85): F

#### Others:

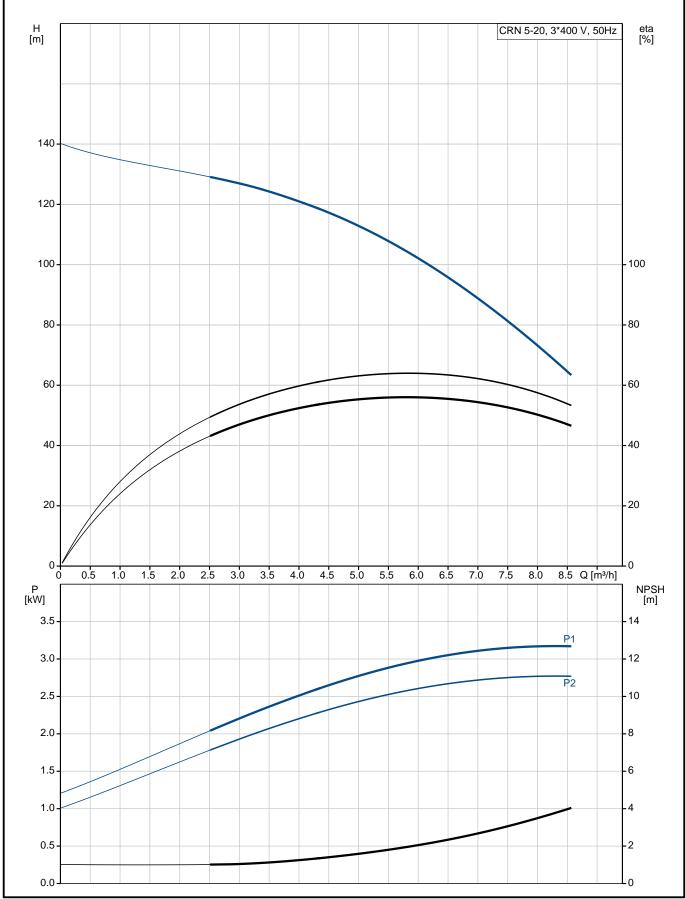
Minimum efficiency index, MEI ≥: 0.57
Net weight: 47 kg
Gross weight: 52.4 kg
Shipping volume: 0.133 m³
Danish VVS No.: 385912020



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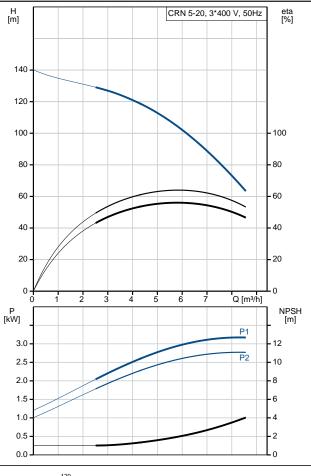
# 96517254 CRN 5-20 A-P-A-E-HQQE 50 Hz

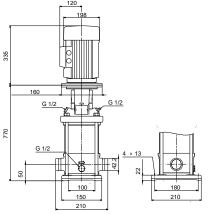


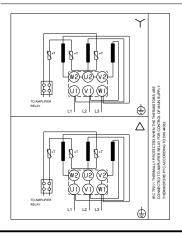


Created by: Phone:

| Description Compatible | Value                          |
|--|--------------------------------|
| General information:   | CDN 5 20                       |
| Product name:  | CRN 5-20<br>A-P-A-E-HQQE       |
| Product No:  | 96517254                       |
| EAN number:  | 5700396759265                  |
| Technical:   |                                |
| Pump speed on which pump data are  | 2002 ***                       |
| based:   | 2902 rpm                       |
| Rated flow:  | 5.8 m³/h                       |
| Rated head:  | 102.9 m                        |
| Head max:  | 136.1 m                        |
| Stages:  | 20                             |
| Impellers:   | 20                             |
| 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                              |
| Materials:   |                                |
| Base:  | Stainless steel                |
|  | EN 1.4408                      |
|  | AISI 316                       |
| Impeller:  | Stainless steel                |
|  | EN 1.4401                      |
| Matadalaada  | AISI 316                       |
| Material code:   | A                              |
| Code for rubber:   | E                              |
| Bearing: Installation:   | SIC                            |
| Maximum ambient temperature:   | 60 °C                          |
| Maximum operating pressure:  | 25 bar                         |
| Max pressure at stated temp:   | 25 bar / 120 °C                |
| wax pressure at stated temp.   | 25 bar / -20 °C                |
| Type of connection:  | PJE                            |
| Size of inlet connection:  | DN 32                          |
| Size of fillet conflection.  | 1 1/4 inch                     |
| Size of outlet connection:   | DN 32                          |
| Olze of outlet confidence.   | 1 1/4 inch                     |
| Pressure rating for pipe connection:   | PN 50                          |
| Flange size for motor:   | FT130                          |
| Connect code:  | P                              |
| Liquid:  | !                              |
| Pumped liquid:   | Water                          |
| Liquid temperature range:  | -20 120 °C                     |
| Liquid temperature during operation:   | 20 °C                          |
| Density:   | 998.2 kg/m³                    |
| Electrical data:   | g/                             |
| Motor standard:  | IEC                            |
| Motor type:  | 100LC                          |
| IE Efficiency class:   | IE3                            |
| Rated power - P2:  | 3 kW                           |
| Power (P2) required by pump:   | 3 kW                           |
|  | - NVV                          |
|  | 50 Hz                          |
| Mains frequency: Rated voltage:  | 50 Hz<br>3 x 220-240D/380-415Y |









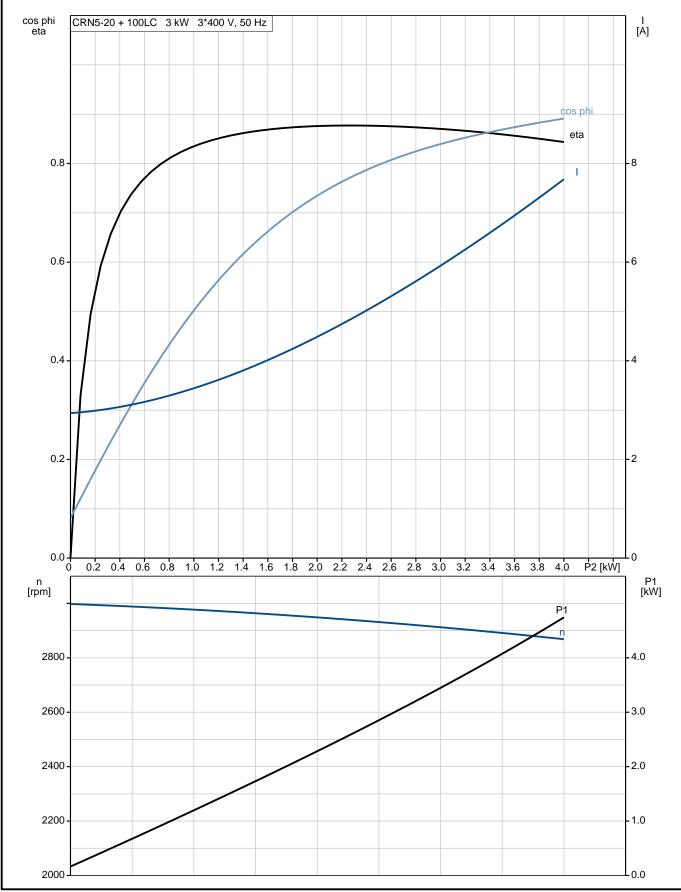
| Description                      | Value           |
|----------------------------------|-----------------|
| Rated current:                   | 11.0/6.30 A     |
| Starting current:                | 840-920 %       |
| Cos phi - power factor:          | 0.87-0.82       |
| Rated speed:                     | 2900-2920 rpm   |
| Efficiency:                      | IE3 87,1%       |
| Motor efficiency at full load:   | 87.1 %          |
| Motor efficiency at 3/4 load:    | 88.0 %          |
| Motor efficiency at 1/2 load:    | 87.7 %          |
| Number of poles:                 | 2               |
| Enclosure class (IEC 34-5):      | 55 Dust/Jetting |
| Insulation class (IEC 85):       | F               |
| Motor protec:                    | PTC             |
| Motor No:                        | 85U05510        |
| Controls:                        |                 |
| Frequency converter:             | NONE            |
| Others:                          |                 |
| Minimum efficiency index, MEI ≥: | 0.57            |
| Net weight:                      | 47 kg           |
| Gross weight:                    | 52.4 kg         |
| Shipping volume:                 | 0.133 m³        |
| Danish VVS No.:                  | 385912020       |



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# 96517254 CRN 5-20 A-P-A-E-HQQE 50 Hz

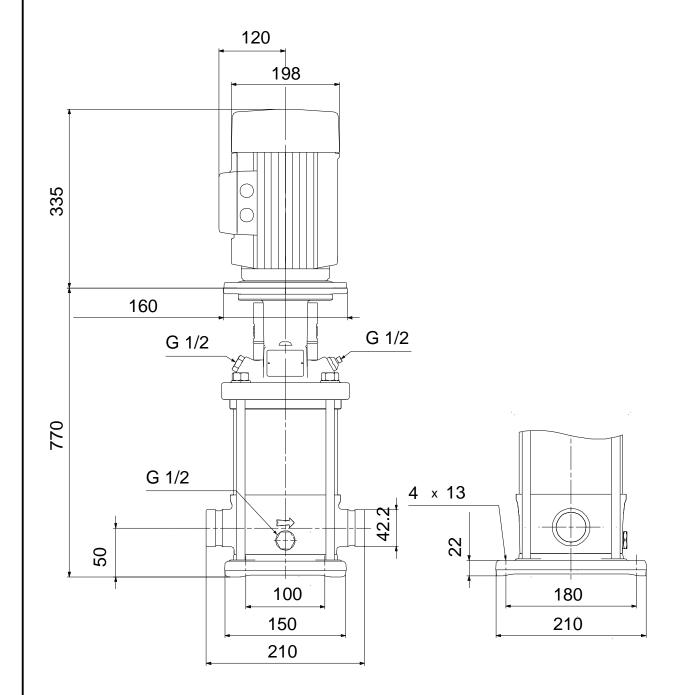




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# 96517254 CRN 5-20 A-P-A-E-HQQE 50 Hz



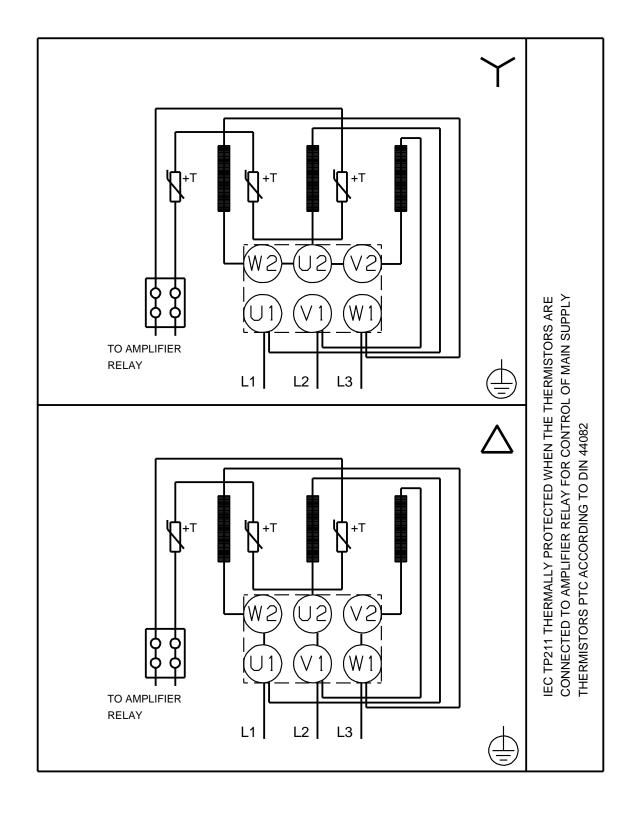
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



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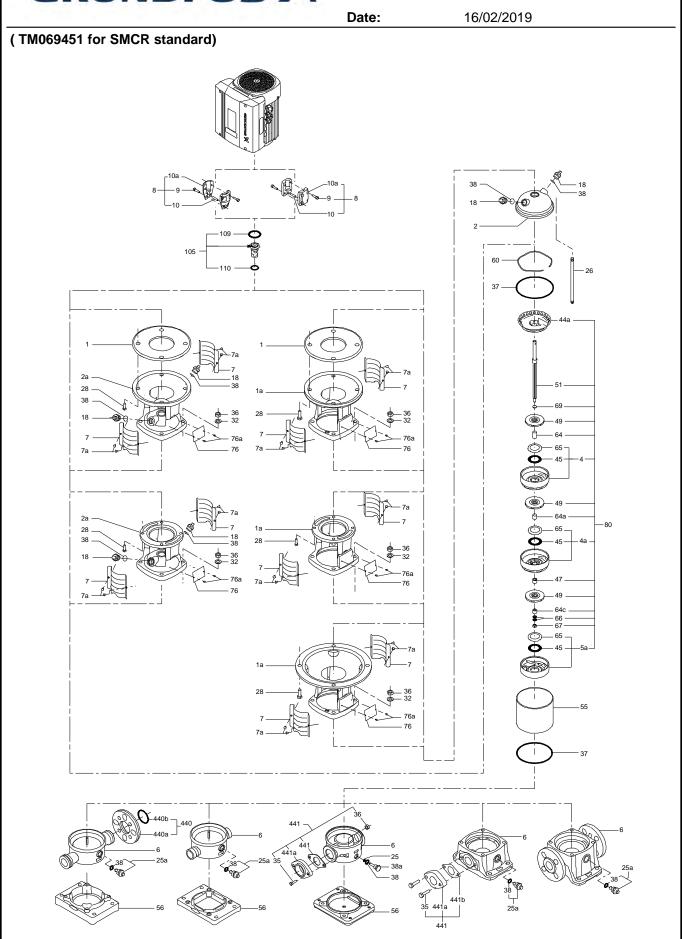
## 96517254 CRN 5-20 A-P-A-E-HQQE 50 Hz



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



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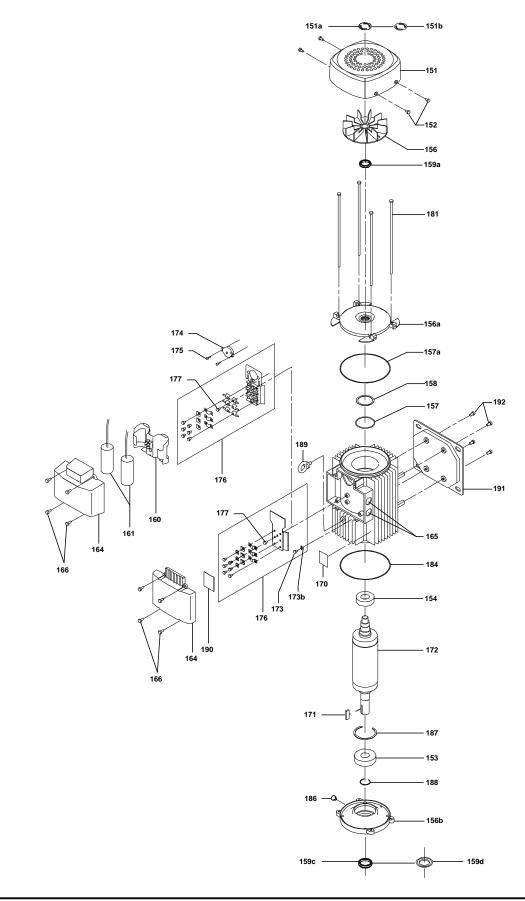




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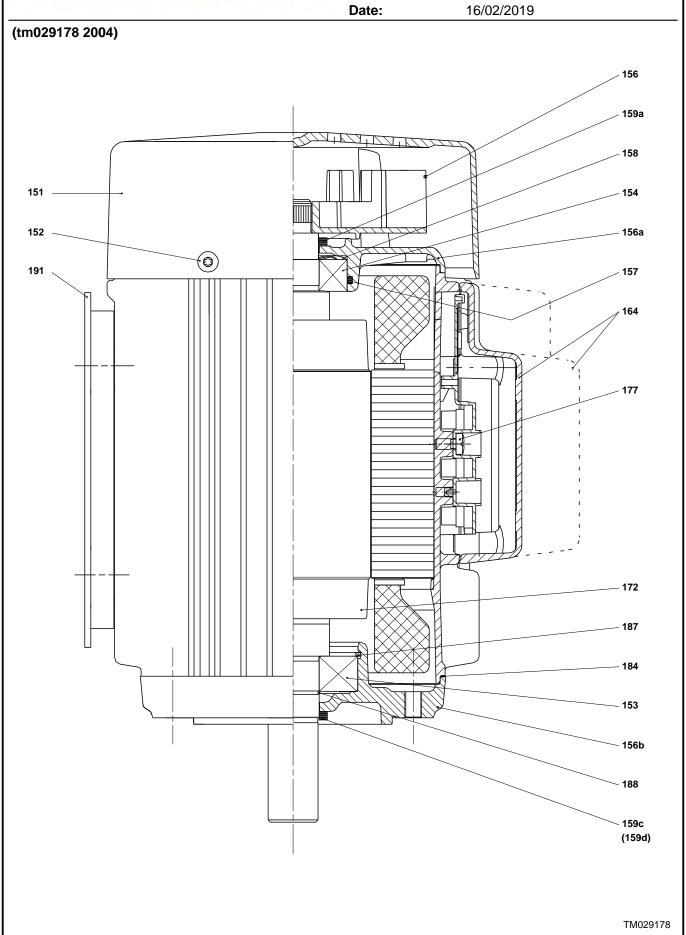
(tm029184 0505)



TM029184



Created by: Phone:





Created by: Phone:

**Date:** 16/02/2019

# Spare parts CRN 5-20, Product No. 96517254 Valid from 1.1.2011 (1152)

|     |    | Description               | Annotation | Classification Data                   | Part no. | Qty. |     |
|-----|----|---------------------------|------------|---------------------------------------|----------|------|-----|
| - 8 |    | Cit, chamber stack        |            |                                       | 96453614 | 1    | pcs |
| - 4 | а  | Chamber w. bearing cpl.   |            |                                       |          | 4    | 1   |
|     | _  | Chamber                   |            |                                       |          |      |     |
| 4   |    | Neck ring                 |            |                                       |          |      |     |
| 6   |    | Neck ring retainer        |            |                                       |          |      |     |
| - 4 |    | Chamber cpl.              |            |                                       |          | 1    | 15  |
|     |    | Chamber                   |            |                                       |          |      |     |
| 4   | 5  | Neck ring                 |            |                                       |          |      |     |
| 6   | 5  | Neck ring retainer        |            |                                       |          |      |     |
| - 5 | а  | Chamber cpl.              |            |                                       |          | 1    | 1   |
|     |    | Chamber                   |            |                                       |          |      |     |
| 4   | 5  | Neck ring                 |            |                                       |          |      |     |
| 6   | 5  | Neck ring retainer        |            |                                       |          |      |     |
| - 4 | 4a | Guide vane                |            |                                       |          | 1    | 1   |
|     |    | Plate                     |            |                                       |          |      |     |
|     |    | Guide vane                |            |                                       |          |      |     |
| 5   | 0  | Top plate                 |            |                                       |          |      |     |
| 4   | 7  | Bearing ring, rotating    |            |                                       |          | 4    | 1   |
| + 4 | 9  | Impeller cpl.             |            |                                       |          | 2    | 20  |
| 5   | 1  | Shaft, spline, cpl.       |            |                                       |          | 1    | 1   |
|     | 4d | Spacing pipe              |            | Internal diameter: 12.85              |          |      | 1   |
|     |    | - Promise Property        |            | Outer diameter: 15,85                 |          |      |     |
|     |    |                           |            | Length (mm): 4,50                     |          |      |     |
| 6   | 4c | Clamp, splined            |            | Internal diameter: 8,5                |          | 1    | 1   |
|     | 70 | Clamp, Spinica            |            | Outer diameter: 15                    |          |      | '   |
| 6   | 4a | Spacing pipe              |            | Length (mm): 13.00                    |          |      | 1   |
| 6   |    | Spacing pipe              |            | Length (mm): 26.0                     |          |      | 15  |
| 6   |    | Wedge lock washer         |            | Length (mm). 20.0                     |          | 1    |     |
| 6   |    | Lock nut                  |            | Thread: M8                            |          | 1    |     |
|     |    |                           |            |                                       |          |      |     |
| 6   |    | Spacing pipe              |            | Length (mm): 2.00                     | 00445000 | 1    |     |
|     |    | Cit, coupling             |            | Designation, DIN 042                  | 00415063 | 1    | pcs |
| 9   |    | Hex socket head cap screw |            | Designation: DIN 912                  |          | 4    | +   |
|     |    |                           |            | Length (mm): 25                       |          |      |     |
|     | _  |                           |            | Thread: M8                            |          |      |     |
|     | 0a | Coupling half             |            |                                       |          | 2    |     |
| 1   | 0  | Shaft pin                 |            | Diameter: 5                           |          | 1    | 1   |
|     |    |                           |            | Length (mm): 26                       |          |      |     |
|     |    | it, coupling guard        |            |                                       | 96505131 |      | pcs |
|     | .a | Combi Slot Torx screw     |            |                                       |          | 4    |     |
| 7   |    | Coupling guard            |            |                                       |          | 2    | 2   |
| -   | K  | iit, gaskets              |            |                                       | 96455090 |      | pcs |
| 3   | 7  | O-ring                    |            |                                       |          | 2    | 2   |
| 3   | 8  | O-ring                    |            | Diameter: 16,3                        |          | 1    | 1   |
|     |    |                           |            | Material type: EPDM                   |          |      |     |
|     |    |                           |            | Thickness: 2,4                        |          |      |     |
| 3   | 8  | O-ring                    |            | Diameter: 16,3                        |          | 2    | 2   |
|     |    |                           |            | Material type: EPDM                   |          |      |     |
|     |    |                           |            | Thickness: 2,4                        |          |      |     |
| 1   | 09 | O-ring                    |            | Diameter: 22,00                       |          | 1    | 1   |
|     |    | •                         |            | Material type: EPDM                   |          |      |     |
|     |    |                           |            | Thickness: 2,75                       |          |      |     |
|     |    |                           |            | · · · · · · · · · · · · · · · · · · · |          |      |     |
|     | k  | (it, plug                 |            |                                       | 96505133 | 1    | pcs |



| Pos  | Description Spindle         | Annotation Classification Data Part no. Qty | y. Un |
|------|-----------------------------|---|-------|
|      | 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: SIC 96455099 1               | pcs   |
| 4a   | Chamber w. bearing cpl.     | Material type. Gro                          | 4     |
| та   | Chamber w. bearing cpi.     |   | -     |
| 45   | Neck ring                   |   |       |
|      |                             |   |       |
| 65   | Neck ring retainer          |   | 40    |
| 45   | Neck ring                   |   | 18    |
| 47   | Bearing ring, rotating      |   | 4     |
| 64c  | Clamp, splined              | Internal diameter: 8,5                      | 1     |
|      |                             | Outer diameter: 15                          |       |
| 64a  | Spacing pipe                | Length (mm): 13.00                          | 4     |
| 65   | Neck ring retainer          |   | 18    |
| 66   | Wedge lock washer           |   | 1     |
| 67   | Lock nut                    | Thread: M8                                  | 1     |
| 441b | Gasket                      |   | 2     |
|      | Motor                       | 85903730 1                                  | pcs   |
|      | Kit, Ball bearing           | 96279795                                    | 1     |
| 99a  | Retaining ring              |   |       |
| 99   | Retaining ring              |   |       |
| 111  | Ball bearing                |   |       |
| 111  | Ball bearing                |   |       |
| 157  | O-ring                      | Diameter: 52                                |       |
|      |                             | Material type: NBR                          |       |
|      |                             | Thickness: 3                                |       |
| 158  | Waved washer                |   |       |
|      | Kit, end shield             | 96279831                                    | 1     |
| 156a | End shield                  | 002.000.                                    |       |
| 157  | O-ring                      | Diameter: 52                                |       |
| .01  | y                           | Material type: NBR                          |       |
|      |                             | Thickness: 3                                |       |
| 158  | Waved washer                | HIIIONIGGG. J                               |       |
| 159a | Seal ring                   |   |       |
| 1398 |                             | 00070777                                    | 1     |
| 450  | Kit, fan                    | 96279757                                    | 1     |
| 156  | Fan                         |   |       |
| 159a | Seal ring                   |   |       |
|      | Kit, fan cover              | 96279826                                    | 1     |
| 151b | Label                       |   |       |
| 151  | Fan cover                   |   |       |
| 152  | Pan head thread forming scr | rew   |       |
|      | Kit, flange                 | 96279828                                    | 1     |
|      | Flange                      |   |       |



| Pos      | Description                            | Annotation Classification Data Part no. Qt | y. Un |
|----------|--|--|-------|
| 156.c    | Drain plug                             |  |       |
| 159.c    | Seal ring                              | 00070700                                   |       |
|          | Kit, retaining ring                    | 96279799                                   | 1     |
| 99       | Retaining ring                         |  |       |
| 188      | Retaining ring                         |  |       |
|          | Kit, shaft seal                        | 96279762                                   | 1     |
| 159c     | Seal ring                              |  |       |
| 159a     | Seal ring                              |  |       |
|          | Kit, staybolts                         | 96279832                                   | 1     |
| 181      | Pan head staybolt                      |  |       |
|          | Kit, terminal board                    | 96279769                                   | 1     |
| 173a     | Base                                   |  |       |
| 173      | Pan head thread forming screw          | Designation: COMBI TORX T25                |       |
| 176      | Slot cheese head screw                 | Designation: COMBI TORX T25                |       |
|          |  | Length (mm): 10                            |       |
|          |  | Thread: M5                                 |       |
| 176      | Terminal                               | THICAU. IVIO                               |       |
| 176      | Connecting piece                       |  |       |
| 176      | Wire clamp                             |  |       |
|          | •                                      |  |       |
| 176      | Terminal board                         |  |       |
| 177      | Pan head screw                         | 00070774                                   | 4     |
|          | Kit, terminal box                      | 96279771                                   | 1     |
| 164      | Terminal box cover w/gasket            |  |       |
| 166      | Pan head thread forming screw          |  |       |
| 1a       | Pump head                              | 98804047 1                                 | pc    |
| 2        | Pump cover                             | 96588244 1                                 | pc    |
| 4a       | Bulk, Chamber w. bearing cpl. (5 pcs)  | 96547653 4                                 | рс    |
| 4a       | Chamber w. bearing cpl.                | 98371281 4                                 | рс    |
| 4        | Chamber cpl.                           | 98371279 15                                | рс    |
| 45       | Bulk, Neck ring (24 pcs)               | 96547603                                   | 1     |
| 5a       | Chamber cpl.                           | 98371278 1                                 | pc    |
| 6        | Base                                   | 96588139 1                                 | pc    |
| 7.a      | Bulk, Combi Slot Torx screw (1000 pcs) | 96886324 4                                 | pc    |
| 7.a<br>7 |  | 96603690 2                                 |       |
|          | Bulk, Coupling guard (10 pcs)          |  | pc    |
| 10       | Bulk, Shaft pin (10 pcs)               | Diameter: 5 96536473 1                     | pc    |
|          |  | Length (mm): 26                            |       |
| 18       | Bulk, Air vent screw (5 pcs)           | 96547461 1                                 | pc    |
| 18       | Air vent screw                         | 95061351 1                                 | pc    |
| 25       | Bulk, Plug (10 pcs)                    | 96536013 1                                 | pc    |
| 25a      | Drain plug w/bypass valve              | 96588243 1                                 | pc    |
| 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     |
|          | , 3(1,)                                | Material type: EPDM                        |       |
|          |  | Thickness: 2,4                             |       |
| 26       | Staybolt                               | Length (mm): 637 98985635 4                | рс    |
| 20       | Clayboil                               | Thread: M12                                | PC    |
| 28       | Rulk Hey head screw (4 pcs)            | Length (mm): 25 99335941 4                 | 200   |
| 20       | Bulk, Hex head screw (4 pcs)           |  | pc    |
| 07       | Pulls Onion (04                        | Thread: M8                                 |       |
| 37       | Bulk, O-ring (24 pcs)                  | 96547656 2                                 | pc    |
| 38       | Bulk, O-ring (10 pcs)                  | Diameter: 16,3 99198815 2                  | pc    |
|          |  | Material type: EPDM                        |       |
|          |  | Thickness: 2,4                             |       |
| 38       | Bulk, O-ring (50 pcs)                  | Diameter: 16,3 99412727 2                  | рс    |
|          | - · · ·                                | Material type: EPDM                        | •     |
|          |  | Thickness: 2,4                             |       |
|          |  | HIICKIESS, Z.4                             |       |



|   | Pos | Description                           | Annotation | Classification Data    | Part no. | Qty. | Unit |
|---|-----|---------------------------------------|------------|------------------------|----------|------|------|
|   | 47  | Bulk, Bearing ring, rotating (10 pcs) |            |                        | 97905743 | 4    | pcs  |
|   | 47  | Bearing ring, rotating                |            |                        | 96547649 | 4    | pcs  |
| + | 49  | Bulk, Impeller cpl. (10 pcs)          |            |                        | 97643331 | 20   | pcs  |
| + | 49  | Bulk, Impeller cpl. (24 pcs)          |            |                        | 96547650 | 20   | pcs  |
| + | 49  | Impeller cpl.                         |            |                        | 98394423 | 20   | pcs  |
|   | 51  | Shaft, spline, cpl.                   |            |                        | 98368526 | 1    | pcs  |
|   | 55  | Outer sleeve                          |            |                        | 98811277 | 1    | pcs  |
|   | 56  | Base plate                            |            |                        | 96588142 | 1    | pcs  |
|   | 60  | Formed wire spring                    |            |                        | 96547664 | 1    | pcs  |
|   | 64c | Bulk, Clamp, splined (5 pcs)          |            | Internal diameter: 8,5 | 98496968 | 1    | pcs  |
|   |     |                                       |            | Outer diameter: 15     |          |      |      |
|   | 64a | Bulk, Spacing pipe (24 pcs)           |            | Length (mm): 13.00     | 96536452 | 4    | pcs  |
|   | 64a | Spacing pipe                          |            | Length (mm): 13.00     | 98520104 | 4    | pcs  |
|   | 64  | Bulk, Spacing pipe (24 pcs)           |            | Length (mm): 26.0      | 96536304 | 15   | pcs  |
|   | 66  | Bulk, Wedge lock washer (10 pcs)      |            |                        | 96536157 | 1    | pcs  |
|   | 67  | Bulk, Lock nut (10 pcs)               |            | Thread: M8             | 98277008 | 1    | pcs  |
|   | 69  | Bulk, Spacing pipe (10 pcs)           |            | Length (mm): 2.00      | 96536451 | 1    | pcs  |
| + | 105 | Bulk, Shaft seal (15 pcs)             |            | Material type: HQQE    | 96983415 | 1    | pcs  |