

Date: 18/02/2019

Qty. | Description

1 | CRN 90-3 A-F-A-E-HQQE



Product No.: 96124229

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 DIN flanges.

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

Further product details

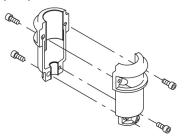
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

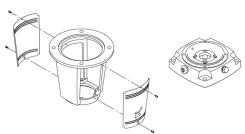
The colour code for the finished product is NCS 9000/RAL 9005.

Pump

A long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.



The motor stool connects the pump head and motor. 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.



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Primary seal:

- · Rotating seal ring material: silicon carbide (SiC)
- 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.

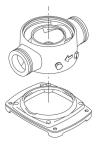




The shaft seal is retained in the pump head by a cover and screws. It can be replaced without removing the motor.

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. Both the inlet and the outlet side of the base have two pressure gauge tappings. The pump is secured to the foundation by four bolts through the base plate. The flanges are fastened to the base by means of locking rings.



Motor

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

Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (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



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Liquid temperature range: -40 .. 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 2947 rpm

Rated flow: 90 m³/h
Rated head: 65.3 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

Impeller: Stainless steel

EN 1.4401 AISI 316

Bearing: SIC Support bearing: Graflon

Installation:

Maximum ambient temperature: 60 °C Maximum operating pressure: 16 bar

Max pressure at stated temp: 16 bar / 120 °C

16 bar / -40 °C

Type of connection: DIN
Size of inlet connection: DN 100
Size of outlet connection: DN 100
Pressure rating for pipe connection: PN 16
Flange size for motor: FF300

Electrical data:

Motor standard: IEC
Motor type: 180MB
IE Efficiency class: IE3
Rated power - P2: 22 kW
Power (P2) required by pump: 22 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-415D/660-690Y V

Rated current: 39.5/22.8 A Starting current: 830 % Cos phi - power factor: 0.90-0.90 Rated speed: 2950 rpm Efficiency: IE3 92,7% Motor efficiency at full load: 92.7-92.7 % Motor efficiency at 3/4 load: 93.7 % Motor efficiency at 1/2 load: 94.4 %

Number of poles: 2

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

Insulation class (IEC 85): F

Others:

Minimum efficiency index, MEI â%¥: 0.70 Net weight: 214 kg Gross weight: 247 kg

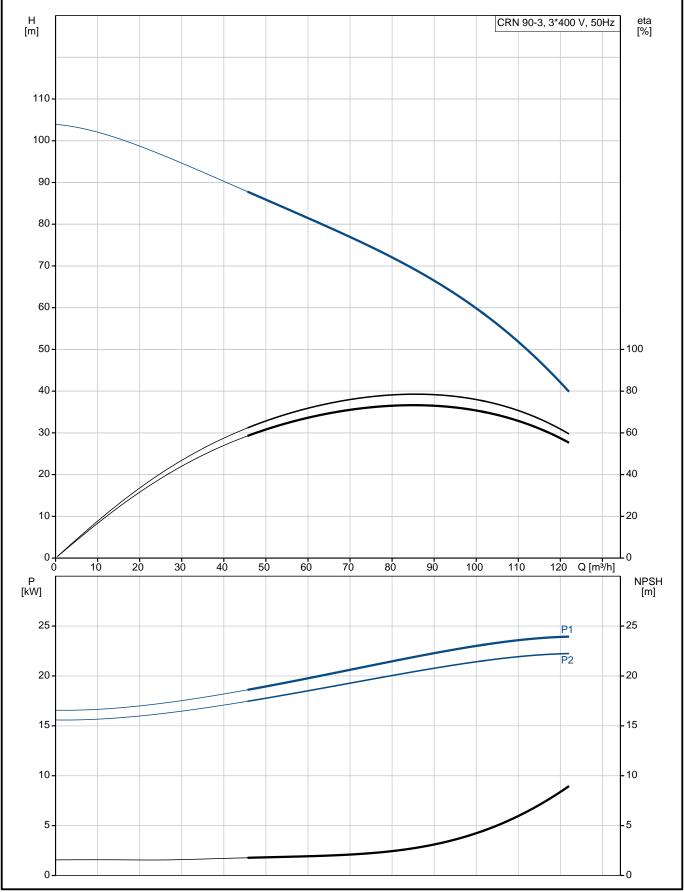


| | | | Date: | 18/02/2019 | |
|------|-------------------------------------|-----------|-------|------------|--|
| Qty. | Description | | | | |
| | | 0.495 m³ | | | |
| | Shipping volume: Danish VVS No.: | 385919030 | | | |
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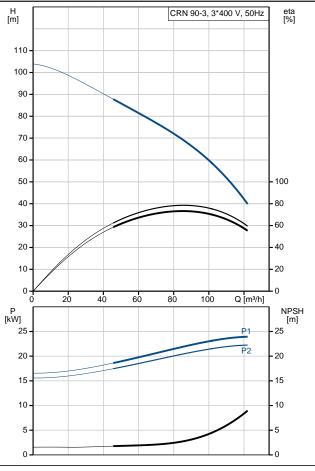
Date: 18/02/2019

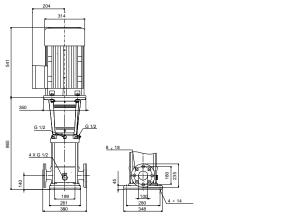
96124229 CRN 90-3 A-F-A-E-HQQE 50 Hz

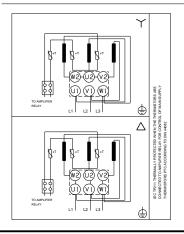




| Description | Value |
|---------------------------------------|----------------------------|
| General information: | |
| Product name: | CRN 90-3 |
| | A-F-A-E-HQQE |
| Product No: | 96124229 |
| EAN number: | 5700396705439 |
| Technical: | |
| Pump speed on which pump data are | 2947 rpm |
| based: | · |
| Rated flow: | 90 m³/h |
| Rated head: | 65.3 m |
| Head max: | 102.6 m |
| Stages: | 3 |
| Impellers: | 3 |
| 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: | В |
| Materials: | |
| Base: | Stainless steel |
| | EN 1.4408 |
| | AISI 316 |
| Impeller: | Stainless steel |
| | EN 1.4401 |
| | AISI 316 |
| Material code: | A |
| Code for rubber: | E |
| Bearing: | SIC |
| Support bearing: | Graflon |
| Installation: | 00.00 |
| Maximum ambient temperature: | 60 °C |
| Maximum operating pressure: | 16 bar |
| Max pressure at stated temp: | 16 bar / 120 °C |
| | 16 bar / -40 °C |
| Type of connection: | DIN |
| Size of inlet connection: | DN 100 |
| Size of outlet connection: | DN 100 |
| Pressure rating for pipe connection: | PN 16 |
| Flange size for motor: | FF300 |
| Connect code: | F |
| Liquid: | 10/-4 |
| Pumped liquid: | Water |
| Liquid temperature range: | -40 120 °C |
| Liquid temperature during operation: | 20 °C |
| Density: | 998.2 kg/m³ |
| Electrical data: | IFO |
| Motor standard: | IEC 190MB |
| Motor type: | 180MB |
| IE Efficiency class: | IE3 |
| Rated power - P2: | 22 kW |
| Power (P2) required by pump: | 22 kW |
| Mains frequency: | 50 Hz |
| Rated voltage: | 3 x 380-415D/660-690Y V |
| Rated current: | 39.5/22.8 A |
| | |







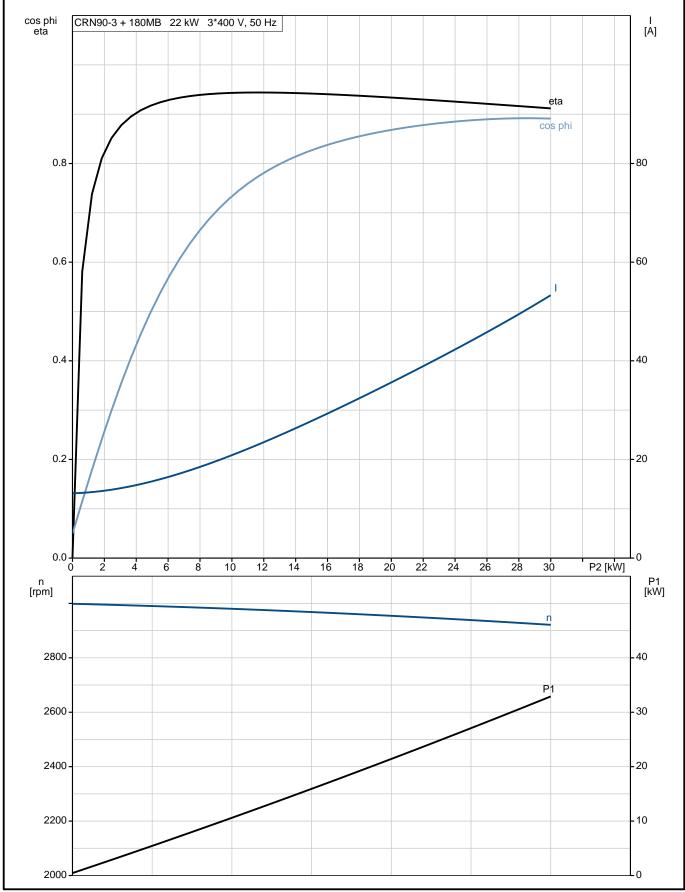


| Description | Value |
|----------------------------------|----------------------|
| Starting current: | 830 % |
| Cos phi - power factor: | 0.90-0.90 |
| Rated speed: | 2950 rpm |
| Efficiency: | IE3 92,7% |
| Motor efficiency at full load: | 92.7-92.7 % |
| Motor efficiency at 3/4 load: | 93.7 % |
| Motor efficiency at 1/2 load: | 94.4 % |
| Number of poles: | 2 |
| Enclosure class (IEC 34-5): | 55 Dust/Jetting |
| Insulation class (IEC 85): | F |
| Motor protec: | PTC |
| Motor No: | 85U17530 |
| Controls: | |
| Frequency converter: | NONE |
| Others: | |
| Minimum efficiency index, MEI ≥: | 0.70 |
| Net weight: | 214 kg |
| Gross weight: | 247 kg |
| Shipping volume: | 0.495 m ³ |
| Danish VVS No.: | 385919030 |



Date: 18/02/2019

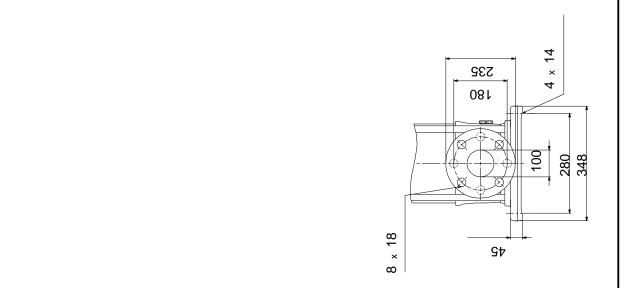
96124229 CRN 90-3 A-F-A-E-HQQE 50 Hz

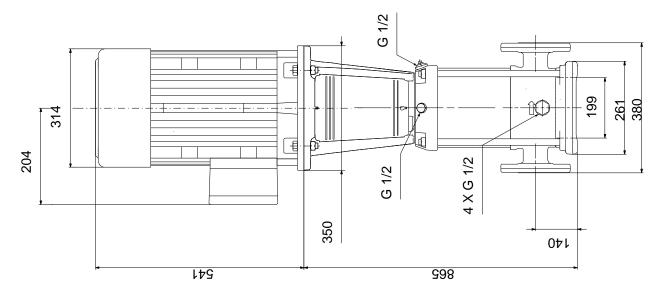




Date: 18/02/2019

96124229 CRN 90-3 A-F-A-E-HQQE 50 Hz



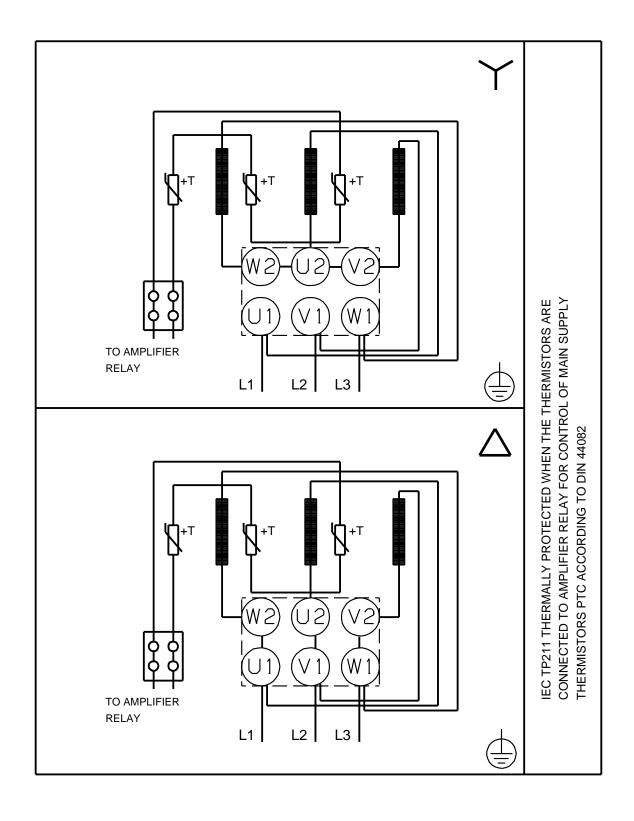


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 18/02/2019

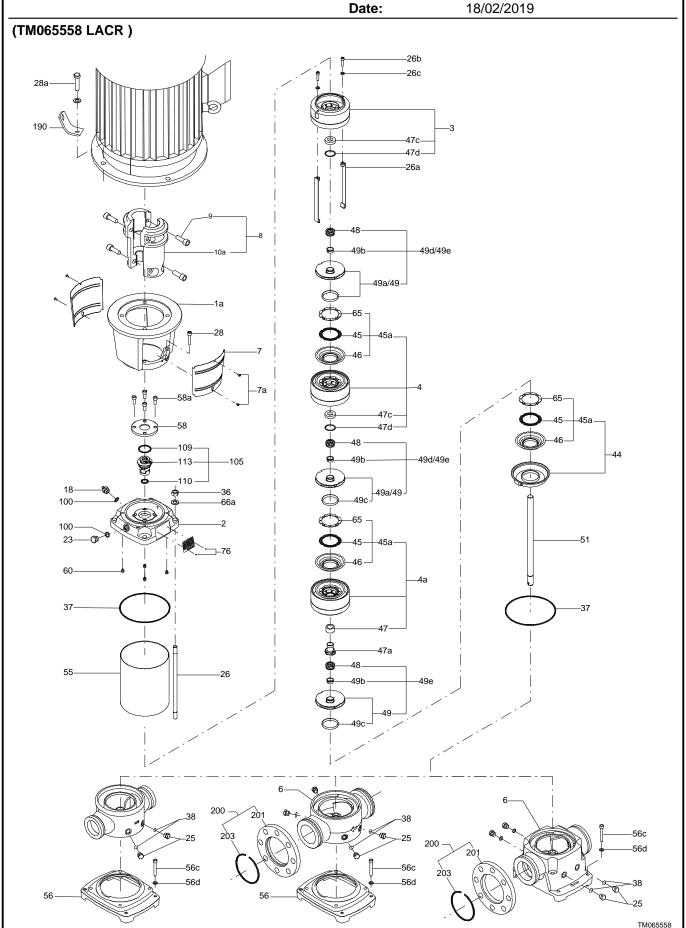
96124229 CRN 90-3 A-F-A-E-HQQE 50 Hz



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



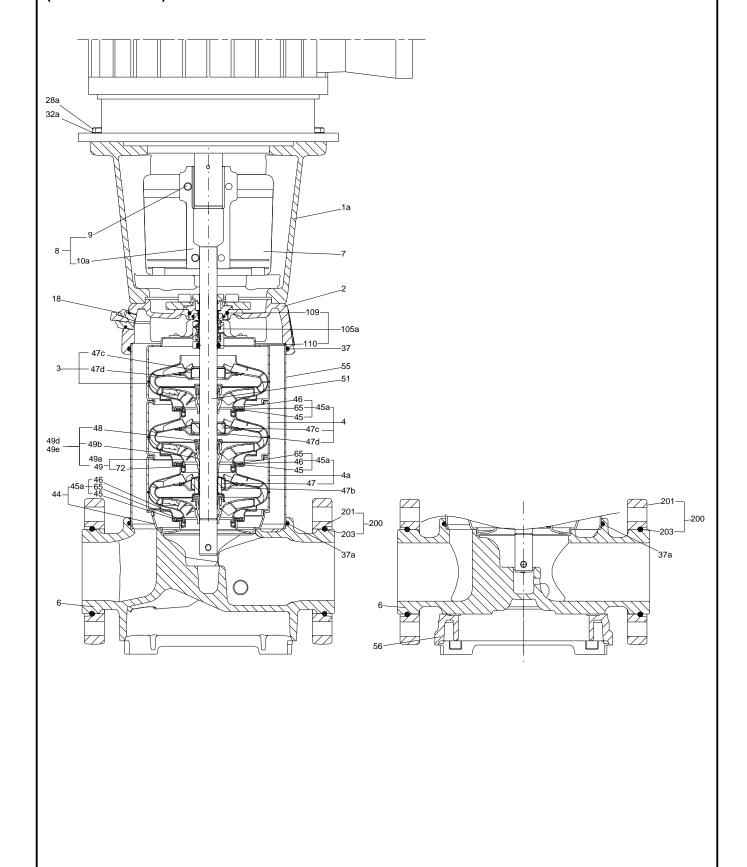
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Date: 18/02/2019

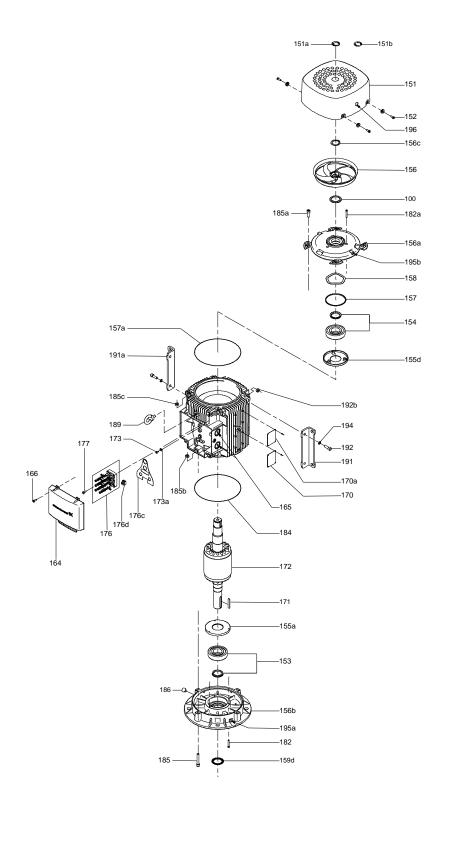
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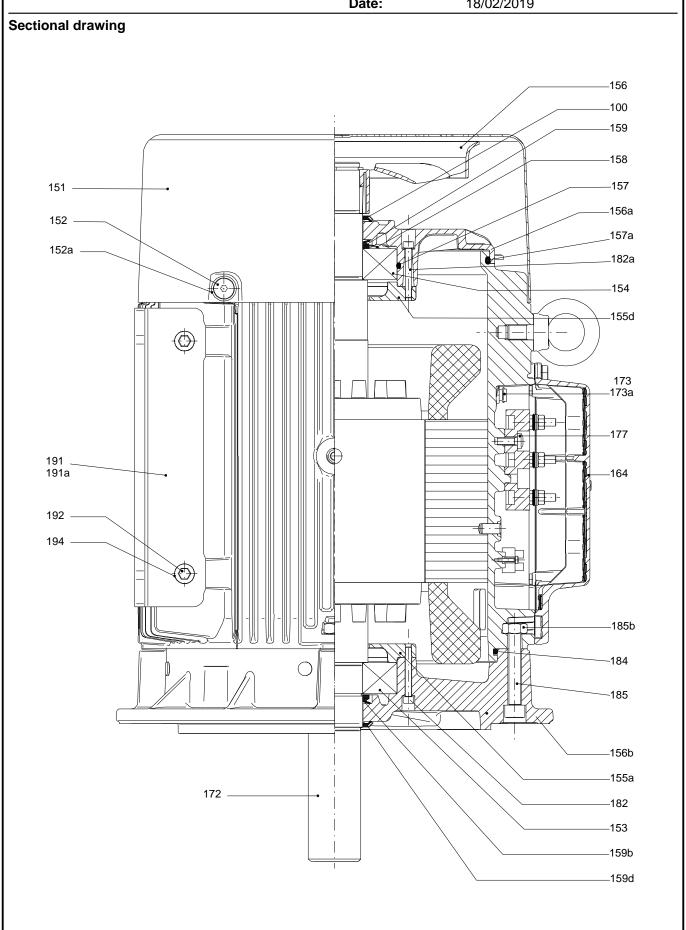


Date: 18/02/2019

Exploded view









Date: 18/02/2019

Spare parts CRN 90-3, Product No. 96124229 Valid from 3.3.2014 (1410)

| | Pos | Description | Annotation | Classification Data | Part no. | Qt | y . | Unit |
|---|-----------|--------------------------------|------------|----------------------|----------|----|------------|------|
| - | _ | Base | | | 96587699 | 1 | | pcs |
| | 6 | Base | | | 000011= | _ | 1 | |
| - | | Kit, chambers | | | 98634157 | 1 | | pcs |
| - | 4a | Intermediate chamber cpl. | | | | | 1 | |
| | | Cone | | | | | | |
| | | Spare, turbulence optimizer KP | | | | | | |
| | | Spare, turbulence optimizer KP | | | | | | |
| | | Spare, turbulence optimizer KP | | | | | | |
| | | Spare, turbulence optimizer KP | | | | | | |
| | | Spare, turbulence optimizer KP | | | | | | |
| - | 45a | Neck ring cpl. | | | | | | |
| | 45 | Neck ring | | | | | | |
| | 46 | Neck ring | | | | | | |
| | 65 | Top f/neck ring | | | | | | |
| | 47 | Bearing | | | | | | |
| - | 47a | Bearing | | | | | 1 | |
| | | Driver | | | | | | |
| | | Holder | | | | | | |
| | | Disc spring | | | | | | |
| | | Bearing ring | | | | | | |
| - | | Kit, coupling | | | 96416593 | 1 | | pcs |
| | | Adjusting fork | | | | | 1 | |
| - | 8 | Coupling cpl. | | Dimension: 22/48 | | | 1 | |
| | 9 | Hex socket head cap screw | | Designation: DIN | l 912 | | | |
| | | | | Length (mm): 25 | | | | |
| | | | | Thread: M10 | | | | |
| | 10a | Coupling half | | | | | | |
| - | | Kit, coupling guard | | | 96505135 | 1 | | pcs |
| | 7a | Socket button head screw | | | | | 4 | |
| | 7 | Coupling guard | | | | | 2 | |
| - | | Kit, cover | | | 98832448 | 1 | | pcs |
| | 58a | Hex socket head cap screw | | Designation: DIN 912 | 2 | | 4 | |
| | | | | Length (mm): 25 | | | | |
| | | | | Thread: M10 | | | | |
| | 58 | Cover | | | | | 1 | |
| - | | Kit, impeller | | | 98593752 | 1 | | pcs |
| - | 44 | Suction interconnector cpl. | | | | | 1 | • |
| | | Suction interconnector | | | | | | |
| | 45a | Neck ring cpl. | | | | | | |
| | 48 | Nut | | | | | 1 | |
| - | 49e | Impeller cpl. | | | | | 1 | |
| | 48 | Nut | | | | | • | |
| | 49b | Split cone | | | | | | |
| | 49 | Impeller | | | | | | |
| - | .5 | Kit, impeller | | | 98635108 | 1 | | pcs |
| | 48 | Nut | | | 20000100 | ' | 1 | pos |
| | 48 | Nut | | | | | 1 | |
| | 46 49b | Split cone | | | | | 1 | |
| | 49b 49 | Impeller | | | | | 1 | |
| - | 43 | | | | | | 1 | |
| | 400 | Impeller hub | | | | | | |
| | 49c | Wear ring | | | 06505400 | 4 | | n |
| - | | Kit, plug | | | 96505136 | 1 | | pcs |
| | 18 | Air vent screw | | | | | 1 | |



| Pos | Description Spindle | Annotation Classification Data Part no. Q | ty. U |
|-----|----------------------------|---|-------|
| | | | |
| ~= | Plug | | |
| 25 | Plug | | 4 |
| 25 | Plug | B | 1 |
| 38 | O-ring | Diameter: 16,3 | 2 |
| | | Material type: FKM | |
| | | Thickness: 2,4 | |
| 38 | O-ring | Diameter: 16,3 | 4 |
| | | Material type: FKM | |
| | | Thickness: 2,4 | |
| 38 | O-ring | Diameter: 16,3 | 6 |
| | | Material type: FKM | |
| | | Thickness: 2,4 | |
| 38 | O-ring | Diameter: 16,3 | 2 |
| | | Material type: EPDM | |
| | | Thickness: 2,4 | |
| 38 | O-ring | Diameter: 16,3 | 4 |
| | - 3 | Material type: EPDM | |
| | | Thickness: 2,4 | |
| | Kit, seals | 96416601 1 | р |
| | Adjusting fork | 30410001 1 | 1 |
| 37 | O-ring | | 2 |
| 38 | O-ring | Diameter: 16,3 | 2 |
| 30 | O-IIIIg | | 2 |
| | | Material type: EPDM | |
| 00 | 2 : | Thickness: 2,4 | |
| 38 | O-ring | Diameter: 16,3 | 4 |
| | | Material type: EPDM | |
| | | Thickness: 2,4 | |
| 60 | Spring | | 4 |
| 109 | O-ring | | 1 |
| 110 | O-ring | Diameter: 21,2 | 1 |
| | | Material type: EPDM | |
| | | Thickness: 3,55 | |
| | Kit, shaft seal HQQE | 96525458 1 | р |
| | Grinding device | | 1 |
| 105 | Shaft seal | Material type: HQQE | 1 |
| | Adjusting fork | | |
| 109 | O-ring | | |
| 110 | O-ring | Diameter: 21,5 | |
| | | Material type: EPDM | |
| | | Thickness: 4,25 | |
| | Kit, wear parts | 98497510 1 | р |
| 45 | Seal ring | 22.2.010 | 1 |
| 45 | Neck ring | | 6 |
| 47d | Lock ring | | 6 |
| 47c | Bush | | 4 |
| 49c | Wear ring | | 1 |
| 49C | Wear ring | | 6 |
| | | | 1 |
| 65 | Top f/neck ring | | |
| 65 | Top f/neck ring | A=0.1 · | 6 |
| | Motor | 85904229 1 | p |
| | Kit, bearing cpl. | 96796812 | 1 |
| 153 | Angular-contact bearing | Designation: 7310B | |
| 154 | Ball bearing | | |
| 158 | Waved washer | | |
| 159 | V-ring | | |
| | Kit, bearing plate | 96796809 | 1 |
| | Cover | | |



| Description Gasket Hex socket head cap screw | Annotation | Classification Data | Part no. Qt | y. U |
|--|---|---|--|--|
| | | | | |
| Hex socket head cap screw | | | | |
| | | Designation: DI Length (mm): 40 | N912 | |
| | | Thread: M5 | 00700740 | _ |
| Kit, eyebolt | | | 96796712 | 1 |
| Eyebolt | | | 00700050 | |
| | | | 96796650 | 1 |
| | | | | |
| | | | 00700047 | |
| • | | | 96796647 | 1 |
| | | | | |
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| | | | 06706807 | 1 |
| | | | 907 90007 | 1 |
| - | | | | |
| <u> </u> | | | | |
| • | | | | |
| | | | | |
| | | | 96798508 | 1 |
| = | | Diameter: 235 | 00100000 | • |
| | | Biamotor. 200 | 96796671 | 1 |
| * * | | | 00700071 | • |
| * * | | | | |
| | | | 96796810 | 1 |
| | | | 00700010 | • |
| | | | | |
| | | | | |
| Nut | | | | |
| Hex socket head cap screw | | | | |
| | | | | |
| Kit, shaft seal | | | 96843460 | 1 |
| V-ring | | | | |
| V-ring | | | | |
| Kit, terminal board | | | 96796657 | 1 |
| Terminal connection | | | | |
| Washer | | | | |
| Hex nut | | | | |
| Torx Screw | | | | |
| Terminal board | | | | |
| Terminal board | | | | |
| Torx Screw | | | | |
| • | | | 96796659 | 1 |
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| | Kit, fan Retaining ring Fan Kit, fan cover Fan cover Rubber bush Hex head cap screw Diaphragm Kit, flange Flange Seal ring Hex socket head cap screw Drain plug Grease nipple Kit, gaskets O-ring Kit, lubrication nipple Grease nipple Grease nipple Kit, ND-end shield cpl. End shield NDE Waved washer V-ring Nut Hex socket head cap screw Grease nipple Kit, shaft seal V-ring V-ring Kit, terminal board Terminal connection Washer Hex nut Torx Screw Terminal board Terminal board Terminal board | Kit, fan Retaining ring Fan Kit, fan cover Fan cover Rubber bush Hex head cap screw Diaphragm Kit, flange Flange Seal ring Hex socket head cap screw Drain plug Grease nipple Kit, gaskets O-ring Kit, lubrication nipple Grease nipple Grease nipple Kit, ND-end shield cpl. End shield NDE Waved washer V-ring Nut Hex socket head cap screw Grease nipple Kit, shaft seal V-ring V-ring Kit, terminal board Terminal connection Washer Hex nut Torx Screw Terminal board Terminal board Terminal board Terminal board Terminal box cover Terminal box cover Pan head thread forming screw Motor stool Pump head Upper chamber cpl. Bulk, Bush (10 pcs) Bulk, Intermediate chamber cpl. (3 pcs) Bulk, Intermediate chamber cpl. (10 pcs) Bulk, Neck ring cpl. (5 pcs) Intermediate chamber cpl. Base Bulk, Nock ton lead screw (10 pcs) | Kit, fan Retaining ring Fan Kit, fan cover Fan cover Rubber bush Hex head cap screw Diaphragm Kit, flange Flange Seal ring Hex socket head cap screw Drain plug Grease nipple Kit, gaskets O-ring Diameter: 235 Kit, lubrication nipple Grease nipple Grease nipple Kit, ND-end shield cpl. End shield NDE Waved washer V-ring Nut Hex socket head cap screw Grease nipple Kit, shaft seal V-ring Kit, terminal board Terminal connection Washer Hex nut Torx Screw Terminal board | Kit, fan cover 96796650 Retaining ring Fan Kit, fan cover 96796647 Fan cover Rubber bush Hex head cap screw Diaphragm Kit, flange 96796807 Flange Seal ring Hex socket head cap screw Drain plug Grease nipple Kit, gaskets 96798508 O-ring Diameter: 235 Kit, lubrication nipple 96796671 Grease nipple Grease nipple Grease nipple Kit, ND-end shield cpl. 96796810 End shield NDE Waved washer V-ring Nut Hex socket head cap screw Grease nipple Kit, shaft seal 96843460 V-ring V-ring Kit, terminal board Torx Screw Kit, terminal board Terminal board Tor Screw Kit, terminal board Tor Screw Terminal board Tor Screw Kit, terminal board Tor Screw Kit, terminal board Tor Screw Ter |



| | Pos | Description | Annotation | Classification Data | Part no. | Qty. | Unit |
|------------|------|--|------------|------------------------|----------|------|------|
| + | 18 | Bulk, Air vent screw (5 pcs) | | | 96547461 | 1 | pcs |
| + | 18 | Air vent screw | | | 95061351 | 1 | pcs |
| | 25 | Bulk, Plug (10 pcs) | | | 96536013 | 1 | pcs |
| | 26 | Staybolt | | Length (mm): 505 | 98976758 | 4 | pcs |
| | | | | Thread: M16 | | | |
| | 26c | Bulk, Washer (4 pcs) | | Designation: DIN 125A | 99262704 | 2 | pcs |
| | | | | Thickness: 1,6 | | | |
| | 26c | Washer | | Designation: DIN 125A | 96586880 | 2 | pcs |
| | | | | Thickness: 1,6 | | | |
| | 26b | Bulk, Hex socket head cap screw (10 pcs) | | | 98931380 | 2 | pcs |
| | 26a | Strap cpl. | | | 98983913 | 2 | pcs |
| | 28.a | Bulk, Hex head screw (20 pcs) | | | 96620478 | 4 | pcs |
| | 28 | Bulk, Hex socket head cap screw (10 pcs) | | Designation: DIN 912 | 96536147 | 4 | pcs |
| | | | | Length (mm): 50 | | | |
| | | | | Thread: M10 | | | |
| | 32 | Bulk, Washer (100 pcs) | | Designation: DIN 125 A | 98923051 | 8 | pcs |
| | | | | Internal diameter: 17 | | | |
| | | | | Outer diameter: 30 | | | |
| | | | | Thickness: 3 | | | |
| | 36 | Bulk, Hex nut (20 pcs) | | Thread: M16 | 96620480 | 4 | 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 | | | |
| + | 47a | Bulk, Bearing (5 pcs) | | | 99270663 | | pcs |
| | 48 | Bulk, Nut (3 pcs) | | | 99262680 | | pcs |
| | 48 | Bulk, Nut (10 pcs) | | | 99262683 | | pcs |
| | 48 | Bulk, Nut (10 pcs) | | | 96536016 | | pcs |
| l <u>-</u> | 49e | Bulk, Impeller cpl. (10 pcs) | | | 99557799 | | pcs |
| | 48 | Bulk, Nut (3 pcs) | | | 992626 | | |
| | 48 | Bulk, Nut (10 pcs) | | | 992626 | | |
| | 48 | Bulk, Nut (10 pcs) | | | 965360 | | |
| | 49b | Bulk, Split cone (10 pcs) | | | 965360 | | |
| | 49b | Bulk, Split cone (10 pcs) | | | 96536010 | | pcs |
| | 55 | Outer sleeve | | | 98820408 | | pcs |
| | 56 | Base plate | | | 97789433 | | pcs |
| | 58 | Cover | | | | 1 | pcs |
| | 60 | Bulk, Spring (20 pcs) | | Material trans. LIOCE | 96536032 | | pcs |
| I | 105 | Bulk, Shaft seal (12 pcs) | | Material type: HQQE | 96984086 | | pcs |
| | 100 | Adjusting fork | | | 965878 | | |
| l | 109 | Bulk, O-ring (10 pcs) | | Motorial type: HOOF | 965475 | | |
| + | 105 | Bulk, Shaft seal (12 pcs) | | Material type: HQQE | 96984070 | | pcs |
| | 440b | Bulk, Lock ring (4 pcs) | | | 96547435 | 1 | pcs |