

18/02/2019

Qty. | Description

1

CR 90-3 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96124079

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 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.

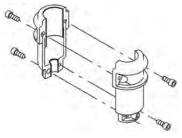
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.

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.

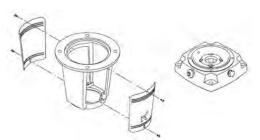


The motor stool connects the pump head and motor. The pump head has a combined 1/2" priming plug and vent screw.



Date:

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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.

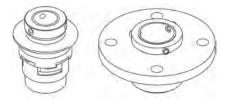
Primary seal:

- Rotating seal ring material: silicon carbide (SiC)
- 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 base is made of cast iron. 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.

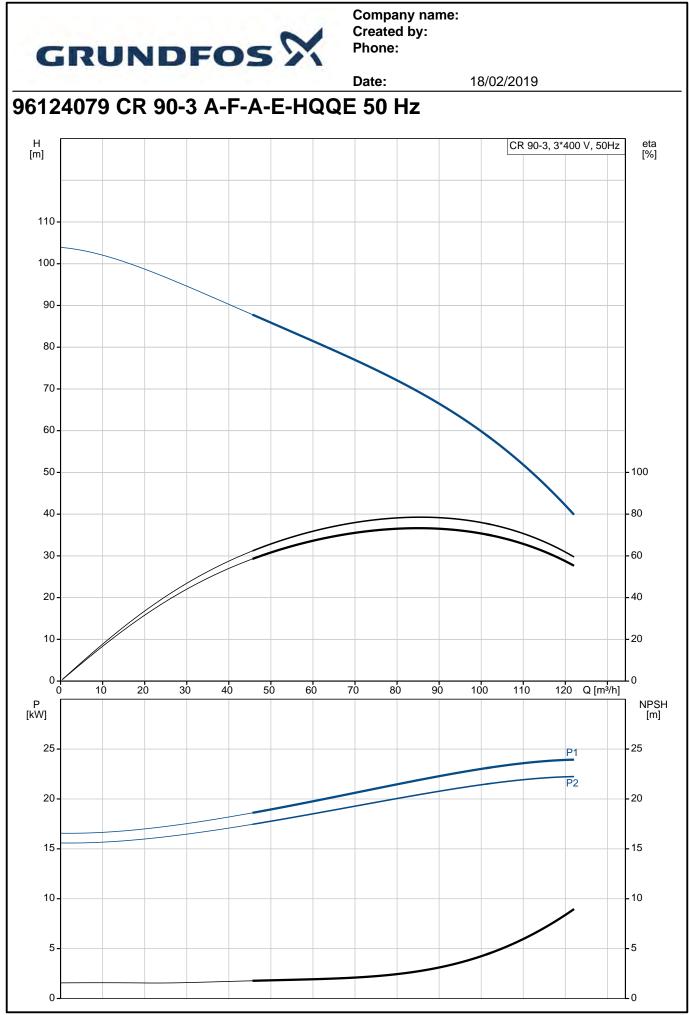
The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.



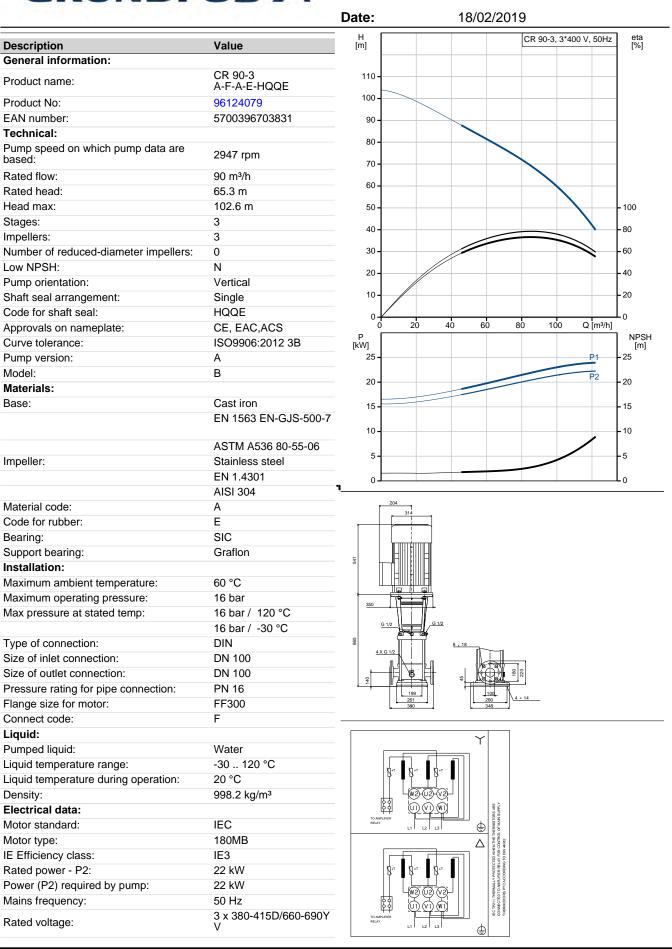
| | Date: | 18/02/2019 |
|---|--|------------|
| Description | | |
| Technical data | | |
| Controls: | | |
| Frequency converter: | NONE | |
| | | |
| Liquid: | 10/ | |
| Pumped liquid: Liquid temperature range: | Water -30 120 °C | |
| Liquid temperature during or | | |
| Density: | 998.2 kg/m ³ | |
| | | |
| Technical: Pump speed on which pump | data ara basadi 2017 ram | |
| Rated flow: | 90 m ³ /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: | Cast iron | |
| | EN 1563 EN-GJS-500-7 | |
| | ASTM A536 80-55-06 | |
| Impeller: | Stainless steel | |
| | EN 1.4301 | |
| Pagering: | AISI 304 SIC | |
| Bearing: Support bearing: | Graflon | |
| | | |
| Installation: | | |
| Maximum ambient temperat Maximum operating pressur | | |
| Max pressure at stated temp | | |
| max pressure at stated temp | 16 bar / -30 °C | |
| Type of connection: | DIN | |
| Size of inlet connection: | DN 100 | |
| Size of outlet connection: | DN 100 | |
| Pressure rating for pipe con | | |
| 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 pum | • | |
| Mains frequency: | 50 Hz 3 x 380-415D/660-690Y V | |
| Rated voltage: Rated current: | 3 X 380-415D/660-690Y V 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 | |
| | | |



| Date: 18/02/2019 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 35): Others: Minimum efficiency index, MEI 8%-W: 0.70 Net weight: 212 kg Gross weight: 242 kg Bitpiping volume: 0.465 m ³ Danish VVS No.: 385909030 | GRUNDF | OS X | Phone: | | |
|--|-------------------------------|-------------|--------|------------|--|
| Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 212 kg Gross weight: 245 kg Shipping volume: 0.495 m³ | | | | 18/02/2019 | |
| Insulation class (IEC 85): F Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 212 kg Gross weight: 245 kg Shipping volume: 0.495 m³ | | | | | |
| Others:Minimum efficiency index, MEI ≥: 0.70Net weight:212 kgGross weight:245 kgShipping volume:0.495 m³ | Enclosure class (IEC 34-5): | | | | |
| Minimum efficiency index, MEI ≥: 0.70Net weight:212 kgGross weight:245 kgShipping volume:0.495 m³ | | I | | | |
| Net weight:212 kgGross weight:245 kgShipping volume:0.495 m³ | | Ani vi a =a | | | |
| Gross weight:245 kgShipping volume:0.495 m³ | Minimum efficiency index, MEI | | | | |
| Shipping volume: 0.495 m³ Danish VVS No.: 385909030 | Gross weight: | 245 kg | | | |
| | Shipping volume: | | | | |
| | Danish VVS No.: | 382909030 | | | |
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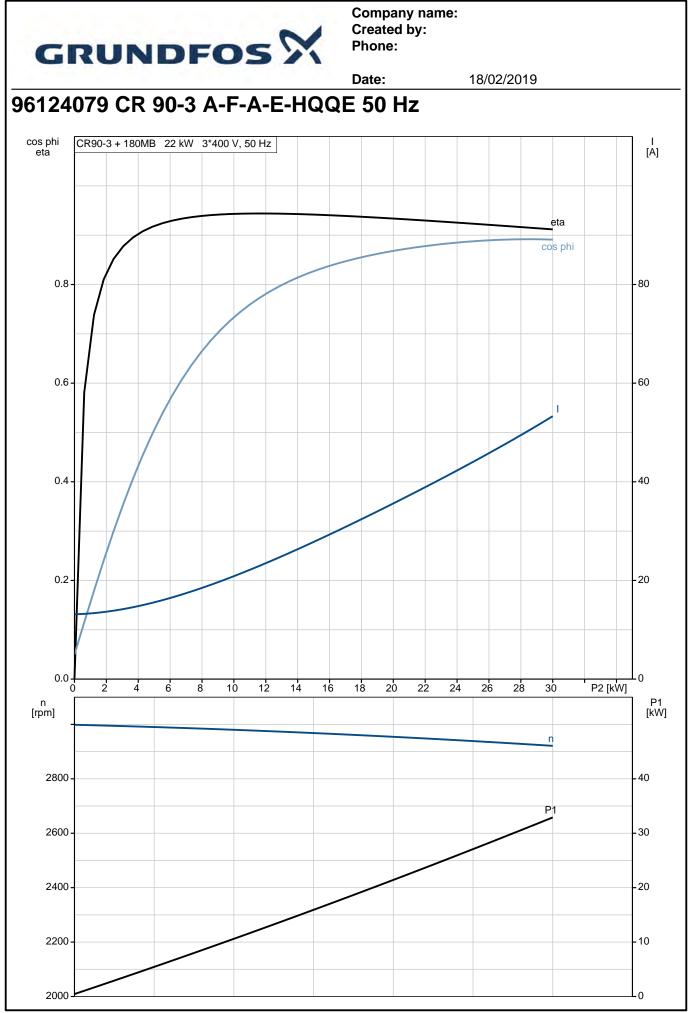




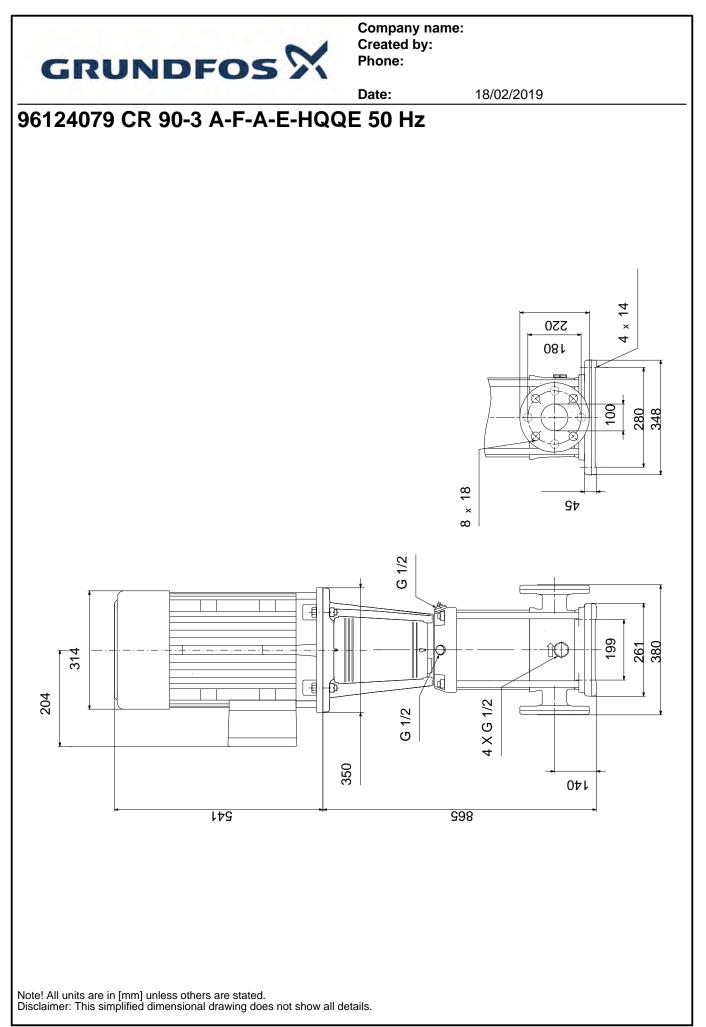


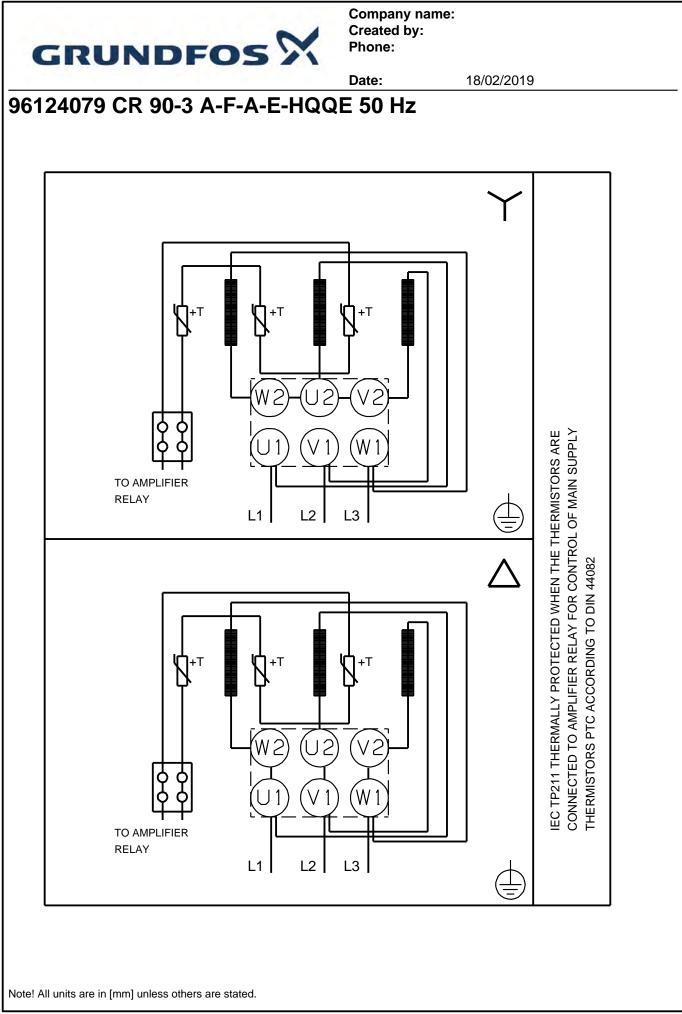


| | | Date: | 18/02/2019 |
|----------------------------------|----------------------|-------|------------|
| Description | Value | | |
| Rated current: | 39.5/22.8 A | | |
| Starting current: | 830 % | | |
| Cos phi - power factor: | 0.90-0.90 | | |
| Rated speed: | 2950 rpm | | |
| Efficiency: | IE3 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 | | |
| Motor protec: | PTC | | |
| Motor No: | 85U17530 | | |
| Controls: | | | |
| Frequency converter: | NONE | | |
| Others: | | | |
| Minimum efficiency index, MEI ≥: | 0.70 | | |
| Net weight: | 212 kg | | |
| Gross weight: | 245 kg | | |
| Shipping volume: | 0.495 m ³ | | |
| Danish VVS No.: | 385909030 | | |



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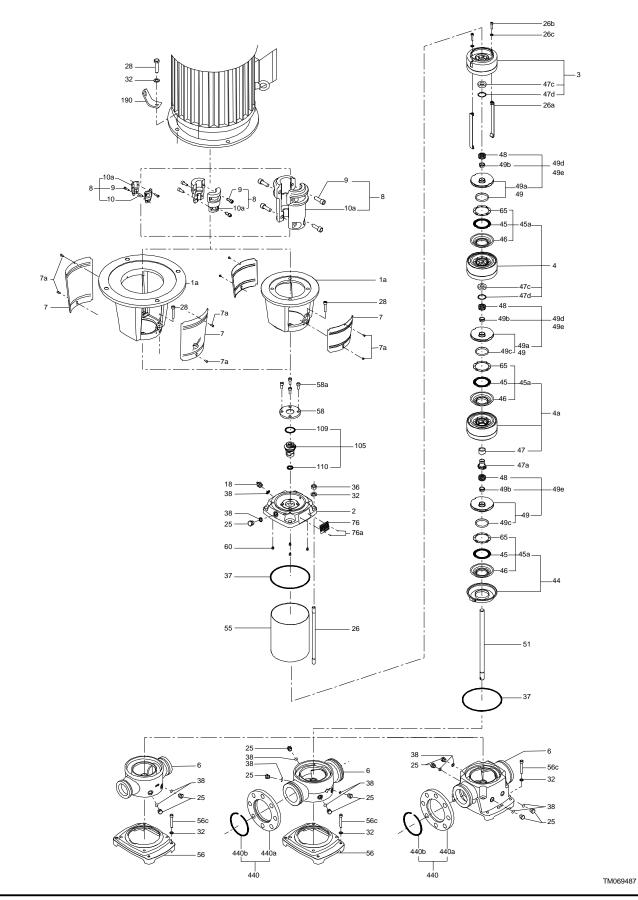




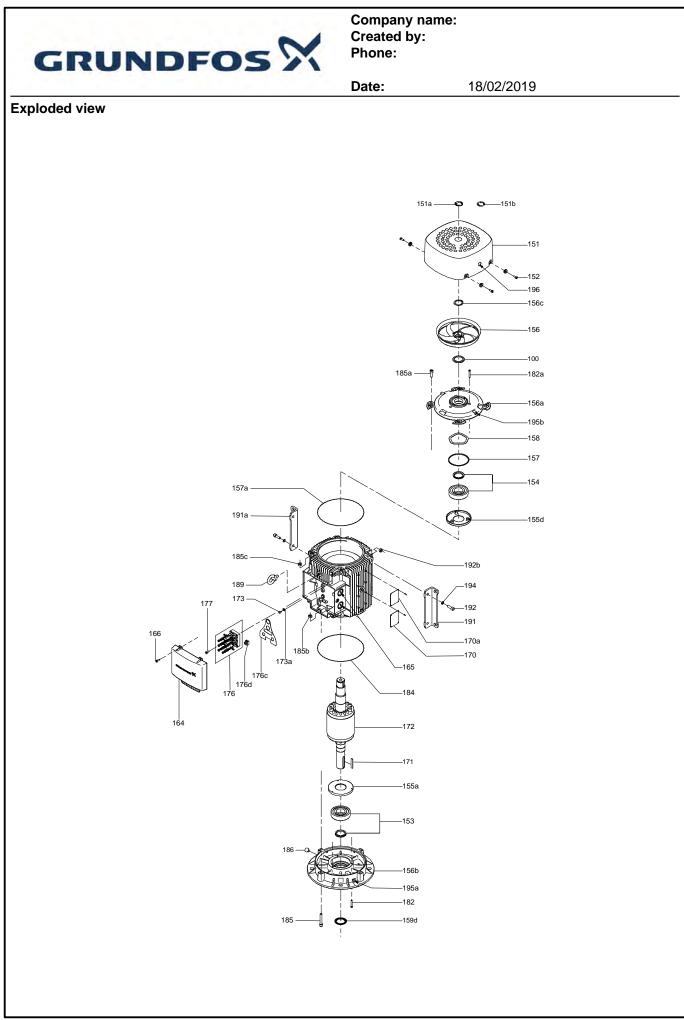


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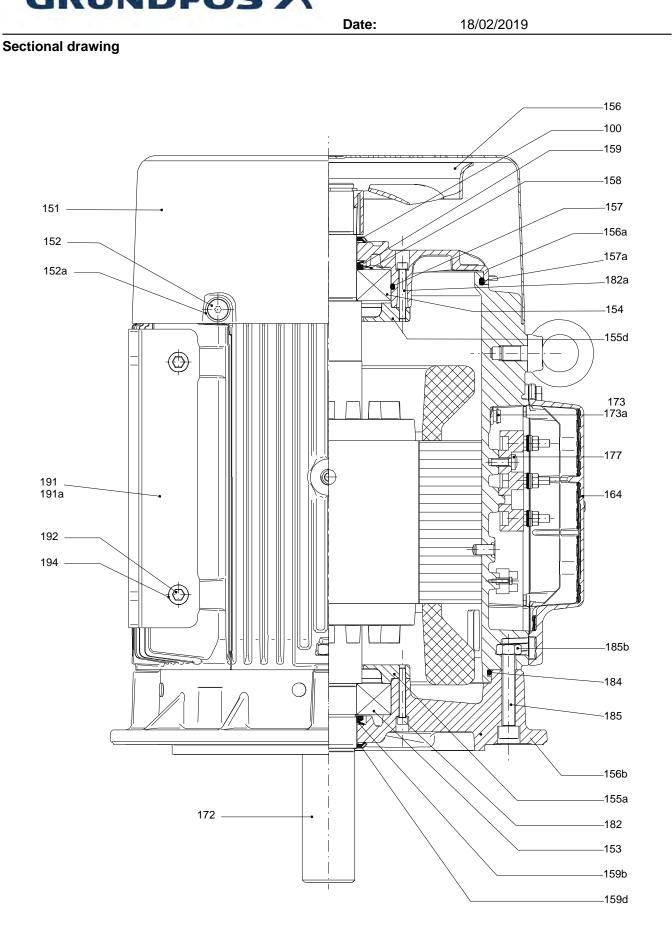
(tm069487 for LACR model B standard)



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18/02/2019

Spare parts CR 90-3, Product No. 96124079 Valid from 3.3.2014 (1410)

| Pos | Description | Annotation | Classification Data | Part no. | Qty. | Uni |
|-----------|-----------------------------|------------|---------------------|----------|------|-----|
| | Base | | | 98807603 | 1 | pcs |
| 6 | Base | | | | | 1 |
| 80 | Kit, chamber stack | | | 96416263 | 1 | pcs |
| 80 | Chamber stack | | | | | 1 |
| 3 | Upper chamber cpl. | | | | | |
| | Guide cup | | | | | |
| | Guide cup | | | | | |
| | Cone | | | | | |
| | Guide vane | | | | | |
| | Chamber | | | | | |
| | Chamber | | | | | |
| 47d | Lock ring | | | | | |
| 47c | Bush | | | | | |
| 4a | Intermediate chamber cpl. | | | | | |
| | Guide cup | | | | | |
| | Guide cup | | | | | |
| | Cone | | | | | |
| | Guide vane | | | | | |
| | Chamber | | | | | |
| | Chamber | | | | | |
| 45a | Neck ring cpl. | | | | | |
| 47 | Bearing | | | | | |
| 4 | Intermediate chamber cpl. | | | | | |
| | Guide cup | | | | | |
| | Guide cup | | | | | |
| | Cone | | | | | |
| | Guide vane | | | | | |
| | Chamber | | | | | |
| | Chamber | | | | | |
| 45a | Neck ring cpl. | | | | | |
| 47d | Lock ring | | | | | |
| 47c | Bush | | | | | |
| 26c | Washer | | Designation: D | IN 125A | | |
| | | | Thickness: 1,6 | | | |
| 26b | Hex socket head cap screw | | | | | |
| 26a | Strap cpl. | | Length (mm): 2 | 285 | | |
| | | | Thread: M8 | | | |
| 44 | Suction interconnector cpl. | | | | | |
| •• | Suction interconnector | | | | | |
| 45a | Neck ring cpl. | | | | | |
| 47a | Bearing | | | | | |
| 'na | Driver | | | | | |
| | Holder | | | | | |
| | Disc spring | | | | | |
| | Bearing ring | | | | | |
| 49e | Impeller cpl. | | | | | |
| 496 | Nut | | | | | |
| 40 49b | Split cone | | | | | |
| 490 | Impeller | | | | | |
| 49 49e | Impeller cpl. | | | | | |
| 49e 48 | Nut | | | | | |
| | | | | | | |
| 49b | Split cone | | | | | |
| 49 | Impeller | | | | | |



| | | | Date: | 18/02/20 | | |
|-----------|-----------------------------|------------|--|----------|-----|-------------|
| Pos | Description | Annotation | Classification Data | Part no. | Qty | . Unit |
| | Impeller hub | | | | | |
| 49c | Wear ring | | | | | |
| 51 | Shaft | | | | | |
| | Kit, chambers | | | 98497515 | 1 | pcs |
| 4a | Intermediate chamber cpl. | | | | | 1 |
| | Guide cup | | | | | |
| | Guide cup | | | | | |
| | Cone | | | | | |
| | Guide vane | | | | | |
| | Chamber | | | | | |
| | Chamber | | | | | |
| 45a | Neck ring cpl. | | | | | |
| 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: DI | N 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 9 ⁴ | | • | 4 |
| | | | Length (mm): 25 | - | | • |
| | | | Thread: M10 | | | |
| 58 | Cover | | | | | 1 |
| 50 | Kit, impeller | | | 98593752 | 1 | pcs |
| 44 | Suction interconnector cpl. | | | 0000102 | • | 1 |
| | Suction interconnector | | | | | 1 |
| 45a | Neck ring cpl. | | | | | |
| 43a 48 | Nut | | | | | 1 |
| 40 49e | Impeller cpl. | | | | | 1 |
| 49e 48 | Nut | | | | | I |
| 40 49b | Split cone | | | | | |
| 490 | Impeller | | | | | |
| 49 | | | | 08407540 | 1 | D 00 |
| 10 | Kit, impeller | | | 98497518 | 1 | pcs |
| 48 | Nut | | | | | 1 |
| 48 | Nut | | | | | 1 |
| 49b | Split cone | | | | | 1 |
| 49 | Impeller | | | | | 1 |
| | Impeller hub | | | | | |
| 49c | Wear ring | | | | , | |
| | Kit, plug | | | 96505136 | 1 | pcs |
| 18 | Air vent screw | | | | | 1 |
| | Spindle | | | | | |
| | Plug | | | | | |
| | Plug | | | | | 4 |
| 25 | Dive | | | | | 1 |
| 25 | Plug | | | | | |
| | Plug O-ring | | Diameter: 16,3 | | | 2 |
| 25 | - | | Diameter: 16,3 Material type: FKM Thickness: 2,4 | | | 2 |



| os | Description | Annotation Classi | fication Data | Part no. | Qty. Unit |
|----------|---------------------------|-------------------|-------------------|-----------|-----------|
| 38 | O-ring | | ameter: 16,3 | i alt no. | 4 |
| | <u> </u> | | al type: FKM | | |
| | | | ess: 2,4 | | |
| 38 | O-ring | | ameter: 16,3 | | 6 |
| | - | | al type: FKM | | |
| | | | ess: 2,4 | | |
| 38 | O-ring | | ameter: 16,3 | | 2 |
| | 5 | | al type: EPDM | | |
| | | | ess: 2,4 | | |
| 38 | O-ring | Dia | ameter: 16,3 | | 4 |
| | | Materia | al type: EPDM | | |
| | | Thickn | ess: 2,4 | | |
| | Kit, seals | | | 96416601 | 1 pcs |
| | Adjusting fork | | | | 1 |
| 37 | O-ring | | | | 2 |
| 38 | O-ring | | ameter: 16,3 | | 2 |
| | | | al type: EPDM | | |
| | | | ess: 2,4 | | |
| 38 | O-ring | | ameter: 16,3 | | 4 |
| | | | al type: EPDM | | |
| | | Thickn | ess: 2,4 | | |
| 60 | Spring | | | | 4 |
| 09 | O-ring | | | | 1 |
| 10 | O-ring | | ameter: 21,2 | | 1 |
| | | | al type: EPDM | | |
| | | Thickn | ess: 3,55 | | |
| | Kit, shaft seal HQQE | | | 96525458 | 1 pcs |
| | Grinding device | | | | 1 |
| 05 | Shaft seal | Ma | aterial type: HQQ | E | 1 |
| | Adjusting fork | | | | |
| 109 | O-ring | | | | |
| 10 | O-ring | | Diameter: 21,5 | | |
| | | | al type: EPDM | | |
| | | Thickn | ess: 4,25 | | |
| | Kit, wear parts | | | 98497510 | • |
| 15 | Seal ring | | | | 1 |
| 15 | Neck ring | | | | 6 |
| 17d | Lock ring | | | | 6 |
| 17c | Bush | | | | 4 |
| 19c | Wear ring | | | | 1 |
| 19c | Wear ring | | | | 6 |
| 65 NG | Top f/neck ring | | | | 1 |
| 65 | Top f/neck ring | | | 05004000 | 6 |
| | Motor | | | 85904229 | |
| 150 | Kit, bearing cpl. | | Designed ==== | 967968 | 12 1 |
| 153 | Angular-contact bearing | | Designation: 73 | TUB | |
| 154 | Ball bearing | | | | |
| 158 | Waved washer | | | | |
| 159 | V-ring | | | 00-00- | 00 1 |
| | Kit, bearing plate | | | 967968 | 09 1 |
| 155.a | Cover | | | | |
| 208a | Gasket | | . | 1046 | |
| 208 | Hex socket head cap screw | · · · | Designation: DI | N912 | |
| | | | (mm): 40 | | |
| | | Thread | 1: M5 | | 10 · |
| | Kit, eyebolt | | | 967967 | 12 1 |
| 89 | Eyebolt | | | | |
| | Kit, fan | | | 967966 | 50 1 |



| | | Date: | | |
|-------|--|--------------------------------|---------------|------|
| Pos | Description | Annotation Classification Data | Part no. Qty. | Unit |
| 156.c | Retaining ring | | | |
| 156 | Fan | | | |
| | Kit, fan cover | | 96796647 | 1 |
| 151 | Fan cover | | | |
| 152.a | Rubber bush | | | |
| 152 | Hex head cap screw | | | |
| 196 | Diaphragm | | | |
| | Kit, flange | | 96796807 | 1 |
| 156.b | Flange | | | |
| 159.b | Seal ring | | | |
| 185 | Hex socket head cap screw | | | |
| 186 | Drain plug | | | |
| 195.a | Grease nipple | | | |
| | Kit, gaskets | | 96798508 | 1 |
| 184 | O-ring | Diameter: 235 | | |
| | Kit, lubrication nipple | | 96796671 | 1 |
| 195.b | Grease nipple | | | |
| 195.a | Grease nipple | | | |
| | Kit, ND-end shield cpl. | | 96796810 | 1 |
| 156a | End shield NDE | | | |
| 158 | Waved washer | | | |
| 159 | V-ring | | | |
| 185.c | Nut | | | |
| 185.a | Hex socket head cap screw | | | |
| 195.b | Grease nipple | | | |
| 100.0 | Kit, shaft seal | | 96843460 | 1 |
| 159.b | V-ring | | 30043400 | • |
| 159 | V-ring | | | |
| 100 | Kit, terminal board | | 96796657 | 1 |
| | Terminal connection | | 90790037 | 1 |
| | Washer | | | |
| 36 | Hex nut | | | |
| 173 | Torx Screw | | | |
| 176.d | Terminal board | | | |
| 176.u | Terminal board | | | |
| 177 | Torx Screw | | | |
| 177 | | | 00700050 | 4 |
| 101 | Kit, terminal box cover | | 96796659 | 1 |
| 164 | Terminal box cover | | | |
| 273a | Pan head thread forming screw | | 0000001 1 | |
| 1a | Motor stool | | 98993921 1 | pcs |
| 2 | Pump head | | 98593647 1 | pcs |
| 3 | Upper chamber cpl. | | 98635130 1 | pcs |
| 47c | Bulk, Bush (10 pcs) | | 99321194 | |
| 4 | Bulk, Intermediate chamber cpl. (3 pcs) | | 99481466 1 | pcs |
| 4a | Bulk, Intermediate chamber cpl. (5 pcs) | | 99262903 1 | pcs |
| 4 | Bulk, Intermediate chamber cpl. (10 pcs) | | 99481467 1 | pcs |
| 45a | Bulk, Neck ring cpl. (10 pcs) | | | 1 |
| 6 | Base | | 99321771 1 | pcs |
| 7a | Bulk, Socket button head screw (10 pcs) | | 96549696 4 | pcs |
| 7 | Bulk, Coupling guard (10 pcs) | | 96603279 2 | pcs |
| 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 |
| 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 | | |
| | Bulk, Hex socket head cap screw (10 pcs) | | 98931380 2 | |



| | | | | | 18/02/2019 | | | |
|-----|------|--|------------|------------------------|------------|-----|------|------|
| Pos | | Description | Annotation | Classification Data | Part no. | Qty | /. U | Init |
| | 26a | Strap cpl. | | Length (mm): 285 | 98983907 | 2 | р | cs |
| | | | | Thread: M8 | | | | |
| | 26 | Bulk, Staybolt (4 pcs) | | Length (mm): 444 | 96547449 | 4 | р | cs |
| | | | | Thread: M16 | | | | |
| | 26 | Staybolt | | Length (mm): 444 | 98976752 | 4 | р | cs |
| | | | | Thread: M16 | | | | |
| | 28.a | Bulk, Hex head screw (20 pcs) | | | 96620478 | 4 | р | cs |
| | 28 | Bulk, Hex socket head cap screw (10 pcs) | | Designation: DIN 912 | 96536147 | 4 | р | cs |
| | | | | Length (mm): 50 | | | | |
| | | | | Thread: M10 | | | | |
| | 32 | Bulk, Washer (100 pcs) | | Designation: DIN 125 A | 98923051 | 8 | р | cs |
| | | | | Internal diameter: 17 | | | | |
| | | | | Outer diameter: 30 | | | | |
| | | | | Thickness: 3 | | | | |
| | 36 | Bulk, Hex nut (20 pcs) | | Thread: M16 | 96620480 | 4 | р | cs |
| | 38 | Bulk, O-ring (10 pcs) | | Diameter: 16,3 | 99198815 | 2 | р | cs |
| | | | | Material type: EPDM | | | | |
| | | | | Thickness: 2,4 | | | | |
| | 38 | Bulk, O-ring (50 pcs) | | Diameter: 16,3 | 99412727 | 2 | р | cs |
| | | | | Material type: EPDM | | | | |
| | | | | Thickness: 2,4 | | | | |
| - | 47a | Bulk, Bearing (5 pcs) | | | 99270663 | 1 | р | cs |
| | 49e | Bulk, Impeller cpl. (3 pcs) | | | 98394373 | 2 | р | cs |
| | 48 | Bulk, Nut (3 pcs) | | | 992626 | 680 | 1 | |
| | 48 | Bulk, Nut (10 pcs) | | | 992626 | 683 | 1 | |
| | 48 | Bulk, Nut (10 pcs) | | | 965360 |)16 | 1 | |
| | 49b | Bulk, Split cone (10 pcs) | | | 965360 |)10 | 1 | |
| - | 49e | Bulk, Impeller cpl. (5 pcs) | | | 96536041 | 2 | р | cs |
| - | 49e | Bulk, Impeller cpl. (10 pcs) | | | 99557799 | 1 | р | cs |
| | 55 | Outer sleeve | | Outer diameter: 225,0 | 98820402 | 1 | р | cs |
| | | | | Length (mm): 299,5 | | | | |
| | 58 | Cover | | | 98893158 | 1 | р | cs |
| | 60 | Bulk, Spring (20 pcs) | | | 96536032 | 4 | р | cs |
| | 105 | Bulk, Shaft seal (12 pcs) | | Material type: HQQE | 96984086 | 1 | р | cs |
| | | Adjusting fork | | | 965878 | 396 | 1 | |
| | 109 | Bulk, O-ring (10 pcs) | | | 965475 | 586 | 1 | |
| - | 105 | Bulk, Shaft seal (12 pcs) | | Material type: HQQE | 96984070 | 1 | р | cs |
| | 440b | Bulk, Lock ring (4 pcs) | | | 96547435 | 1 | | cs |