

Date: 16/02/2019

Qty. | Description

1 CR 32-10-2 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96122024

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

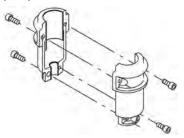
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

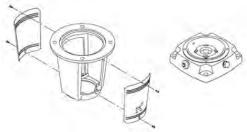
A long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.



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



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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.

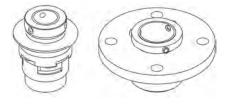
Primary seal:

- 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.



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Technical data

Controls:

Frequency converter: NONE

Liquid:

Pumped liquid: Water
Liquid temperature range: -30 .. 120 °C
Liquid temperature during operation: 20 °C
Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 2934 rpm

Rated flow:

Rated head:

Pump orientation:

Shaft seal arrangement:

Code for shaft seal:

Approvals on nameplate:

Curve tolerance:

Som m³/h

146.3 m

Vertical

Single

HQQE

CE, EAC,ACS

ISO9906:2012 3B

Materials:

Base: Cast iron

EN 1563 EN-GJS-500-7 ASTM A536 80-55-06

Impeller: Stainless steel

EN 1.4301 AISI 304

Bearing: SIC Support bearing: Graflon

Installation:

Maximum ambient temperature: 60 °C Maximum operating pressure: 30 bar

Max pressure at stated temp: 30 bar / 120 °C

30 bar / -30 °C

Type of connection: DIN
Size of inlet connection: DN 65
Size of outlet connection: DN 65
Pressure rating for pipe connection: PN 40
Flange size for motor: FF300

Electrical data:

Number of poles:

Motor standard: IEC
Motor type: 160LB
IE Efficiency class: IE3
Rated power - P2: 18.5 kW
Power (P2) required by pump: 18.5 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-415D/660-690Y V Rated current: 34,5-32,5/20,0-18,8 A

2

Starting current:

Cos phi - power factor:

Rated speed:

Efficiency:

Motor efficiency at full load:

Motor efficiency at 1/2 load:

Starting current:

830-980 %

0.89-0.85

2940-2950 rpm

IE3 92,4%

92.4-92.4 %

93.2 %

Motor efficiency at 1/2 load:

93.2 %



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

Insulation class (IEC 85):

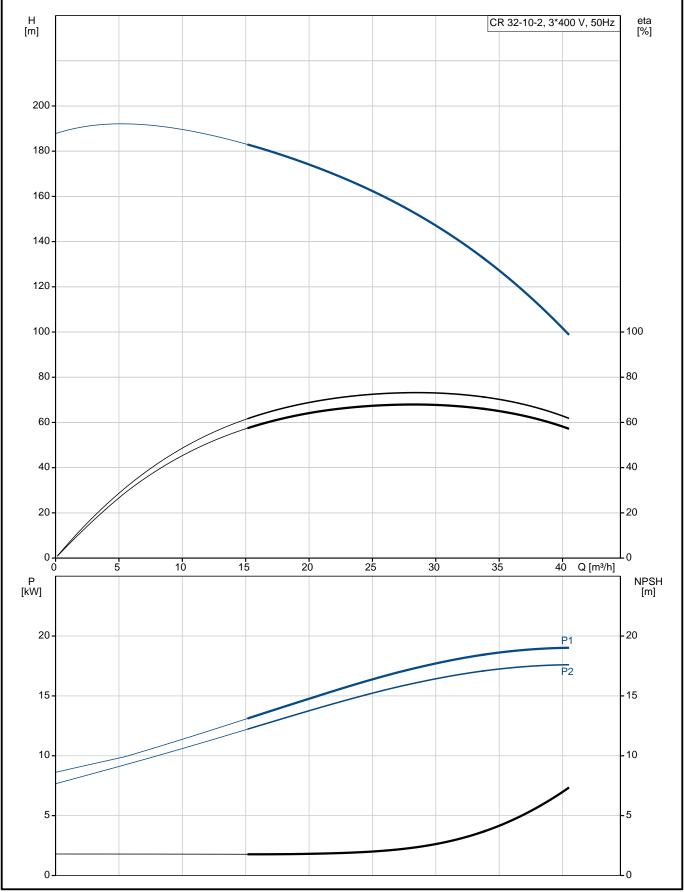
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 201 kg
Gross weight: 240 kg
Shipping volume: 0.805 m³
Danish VVS No.: 385906102
Swedish RSK No.: 5824886



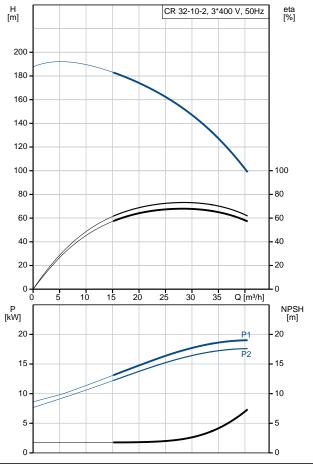
Date: 16/02/2019

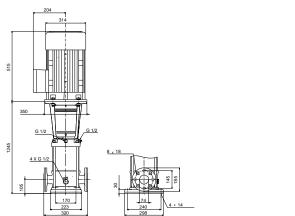
96122024 CR 32-10-2 A-F-A-E-HQQE 50 Hz

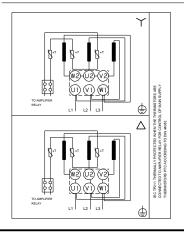




Description	Value
General information:	
Product name:	CR 32-10-2 A-F-A-E-HQQE
Product No:	96122024
EAN number:	5700396680682
Technical:	
Pump speed on which pump data are	
based:	2934 rpm
Rated flow:	30 m³/h
Rated head:	146.3 m
Head max:	187 m
Stages:	10
Impellers:	10
Number of reduced-diameter impellers:	2
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:	Cast iron
	EN 1563 EN-GJS-500-7
	ASTM A536 80-55-06
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Material code:	Α
Code for rubber:	E
Bearing:	SIC
Bearing: Support bearing:	SIC Graflon
Support bearing:	
Support bearing: Installation: Maximum ambient temperature:	Graflon
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure:	Graflon 60 °C 30 bar
Support bearing: Installation: Maximum ambient temperature:	Graflon 60 °C
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:	Graflon 60 °C 30 bar 30 bar / 120 °C
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 65 DN 65
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 65 DN 65 PN 40
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 65 DN 65
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 65 DN 65 PN 40 FF300
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 65 DN 65 PN 40 FF300 F
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 65 DN 65 PN 40 FF300 F Water
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 65 DN 65 PN 40 FF300 F Water -30 120 °C
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 65 DN 65 PN 40 FF300 F Water -30 120 °C 20 °C
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 65 DN 65 PN 40 FF300 F Water -30 120 °C
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 65 DN 65 PN 40 FF300 F Water -30 120 °C 20 °C 998.2 kg/m³
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 65 DN 65 PN 40 FF300 F Water -30 120 °C 20 °C 998.2 kg/m³
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 65 DN 65 PN 40 FF300 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC 160LB
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 65 DN 65 PN 40 FF300 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC 160LB IE3
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 65 DN 65 PN 40 FF300 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC 160LB IE3 18.5 kW
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 65 DN 65 PN 40 FF300 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC 160LB IE3 18.5 kW 18.5 kW
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 65 DN 65 PN 40 FF300 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC 160LB IE3 18.5 kW 18.5 kW 50 Hz
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 65 DN 65 PN 40 FF300 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC 160LB IE3 18.5 kW 18.5 kW







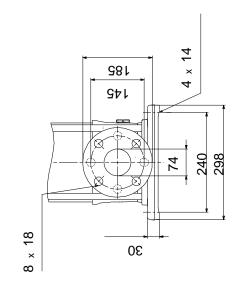


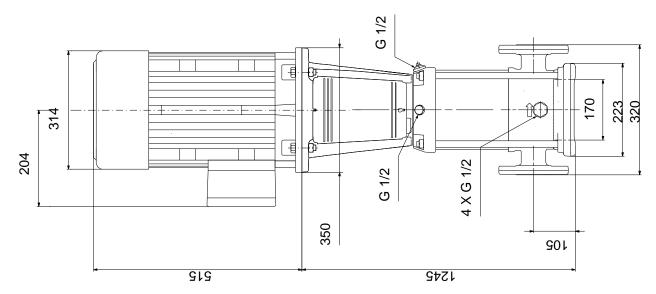
Description	Value
Starting current:	830-980 %
Cos phi - power factor:	0.89-0.85
Rated speed:	2940-2950 rpm
Efficiency:	IE3 92,4%
Motor efficiency at full load:	92.4-92.4 %
Motor efficiency at 3/4 load:	93.2 %
Motor efficiency at 1/2 load:	93.2 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17528
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	201 kg
Gross weight:	240 kg
Shipping volume:	0.805 m ³
Danish VVS No.:	385906102
Swedish RSK No.:	5824886



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96122024 CR 32-10-2 A-F-A-E-HQQE 50 Hz



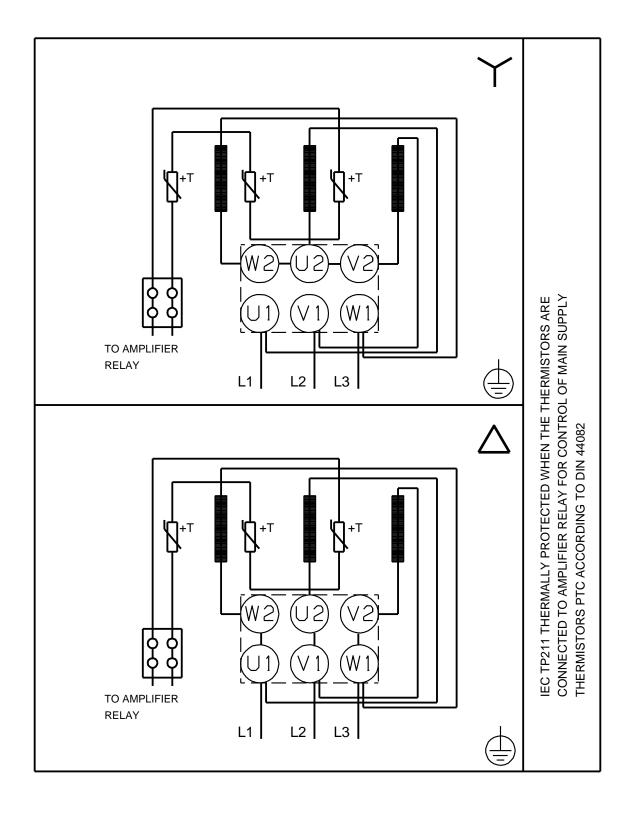


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



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96122024 CR 32-10-2 A-F-A-E-HQQE 50 Hz

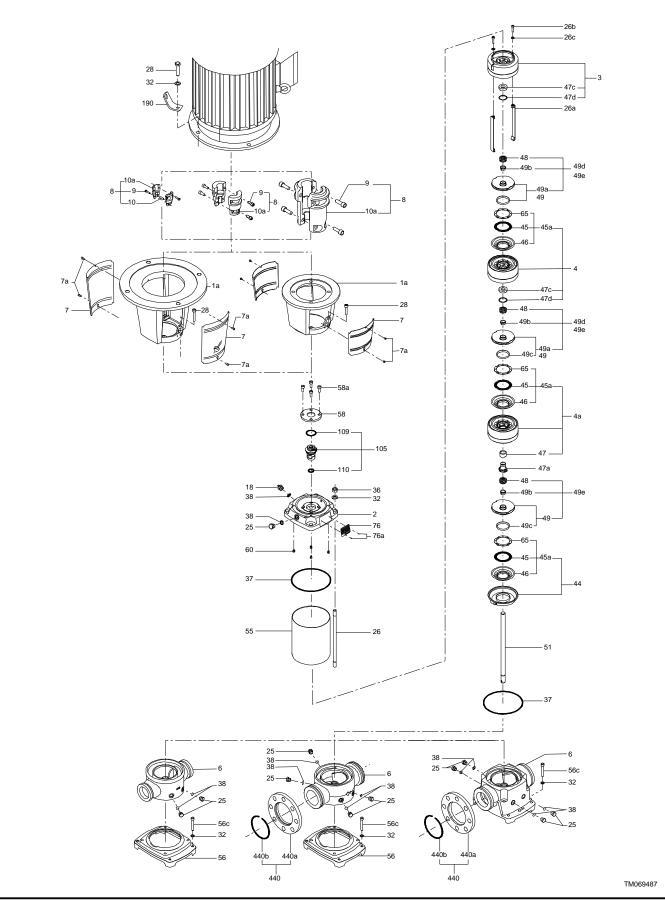


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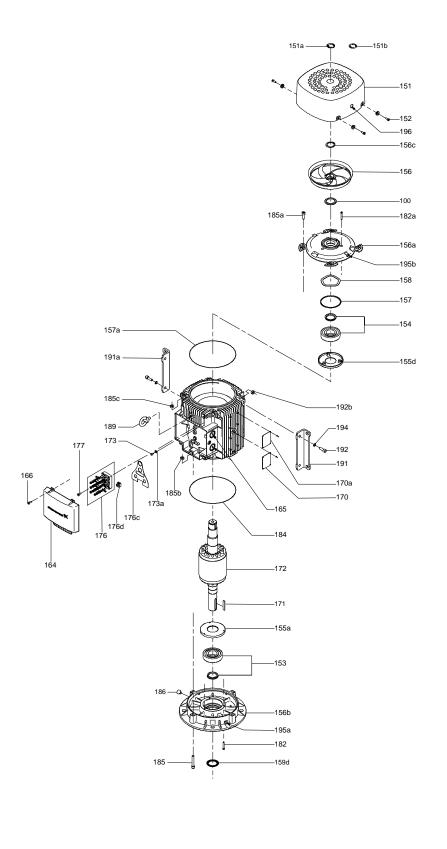
(tm069487 for LACR model B standard)



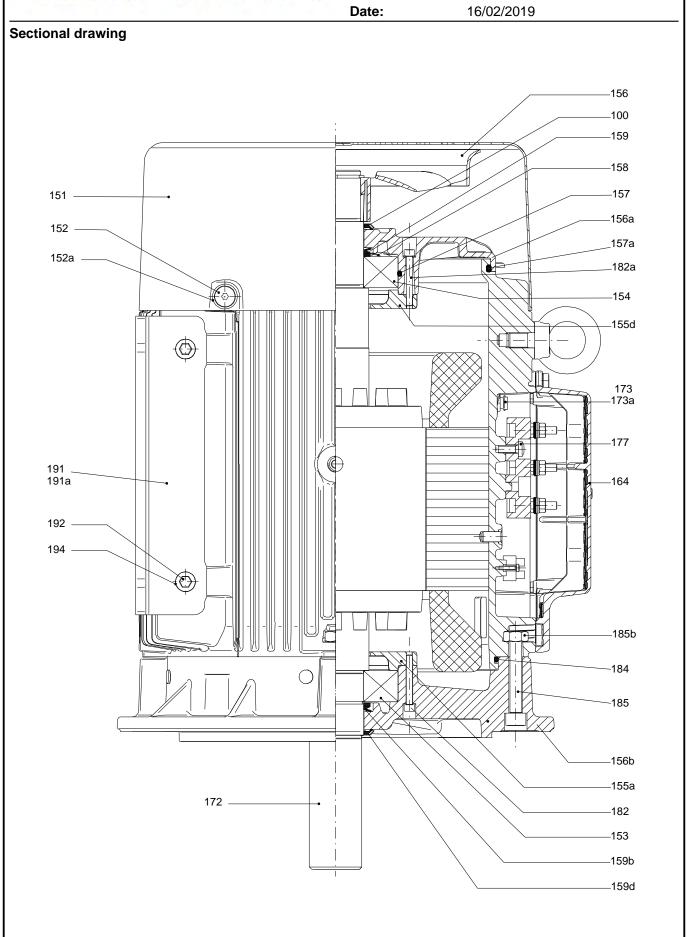


Date: 16/02/2019

Exploded view









Date: 16/02/2019

Spare parts CR 32-10-2, Product No. 96122024 Valid from 3.3.2014 (1410)

Pos	Description	Annotation	Classification Data	Part no.	Qty.	
-	Base			96547299	1	pcs
6	Base				1	l
- 80	Kit, chamber stack			96416913		pcs
- 80	Chamber stack				1	l
- 3	Upper chamber cpl.					
	Cone					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Guide					
47d	Lock ring					
47c	Bush					
- 4a	Intermediate chamber cpl.					
	Intermediate chamber cpl.					
- 45a	Neck ring cpl.					
45	Seal ring					
46	Neck ring					
65	Top f/neck ring					
47	Bearing					
- 4	Intermediate chamber cpl.					
	Cone					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Guide					
- 45a	Neck ring cpl.					
45	Seal ring					
46	Neck ring					
65	Top f/neck ring					
47d	Lock ring					
47c	Bush					
26c	Washer		Designation: DI	N 125A		
200	Tracino		Thickness: 1,6	11 120/1		
26b	Hex socket head cap screw		77110101000. 1,0			
26a	Strap cpl.		Length (mm): 7	ng		
200	στιάρ τρι.		Thread: M8	00		
- 44	Suction interconnector cpl.		Till Caa. Wo			
77	Suction interconnector					
45	Seal ring					
46	Neck ring					
65	Top f/neck ring					
- 47a	Bearing cpl. Driver					
	Holder					
	Disc spring					
40	Bearing ring					
- 49e	Impeller cpl.					
48	Nut					
49b	Split cone					
- 49	Impeller					
	Impeller hub					



Pos	Description	Annotation Classification Data	Part no.	Qty	J.	Uni
49c	Wear ring					
49d	Impeller cpl. reduced diameter					
48	Nut					
49b	Split cone					
49a	Impeller					
	Impeller hub					
49c	Wear ring					
51	Shaft					
	Kit, chambers		98497462	1		pcs
4a	Intermediate chamber cpl.				1	
	Intermediate chamber cpl.					
45a	Neck ring cpl.					
45	Seal ring					
46	Neck ring					
65	Top f/neck ring					
47	Bearing					
47a	Bearing cpl.				1	
	Driver					
	Holder					
	Disc spring					
	Bearing ring					
	Kit, coupling		96416592	1		pcs
	Adjusting fork		30410332		1	pus
8	Coupling cpl.	Dimension: 22/42			1	
9	Hex socket head cap screw		N 012			
9	nex socket nead cap screw	Designation: Di	N 912			
		Length (mm): 25				
40	0 1 1 1	Thread: M10				
10a	Coupling half		00505405			
	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	12		4	
		Length (mm): 25				
		Thread: M10				
58	Cover				1	
	Kit, gaskets		96416597	1		pcs
	Adjusting fork				1	
37	O-ring				2	
38	O-ring	Diameter: 16,3			2	
		Material type: EPDM				
		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	
	- ····g	Material type: EPDM			•	
		Thickness: 3,55				
	Kit, impeller	1110001033. 0,00	98497465	1		pcs
48	Nut		00+01+00	•	1	Pos
48	Nut				1	
49b	Split cone				1	
496					1	
49	Impeller				-1	
	Impeller hub					
10 -						
49c	Wear ring Kit, Impeller, reduced diamete		98633832			pcs



Pos 48	Description Nut	Annotation	Classification Data	Part no. C	tty. 1	
49b	Split cone				1	
49a	Impeller				1	
	Impeller hub					
49c	Wear ring					
	Kit, plug			96505136 1		рс
18	Air vent screw				1	
	Spindle					
	Plug					
25	Plug				4	ŀ
25	Plug				1	
38	O-ring		Diameter: 16,3		2	<u>,</u>
			Material type: FKM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3		4	1
	g		Material type: FKM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3		6	
30	O-IIIIg		Material type: FKM			,
20	O vim v		Thickness: 2,4			
38	O-ring		Diameter: 16,3		2	
			Material type: EPDM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3		4	ļ.
			Material type: EPDM			
			Thickness: 2,4			
	Kit, shaft seal HQQE			96525458 1		рс
	Grinding device				1	
105	Shaft seal		Material type: HQQE		1	
	Adjusting fork					
109	O-ring					
110	O-ring		Diameter: 21,5			
	<u> </u>		Material type: EPDM			
			Thickness: 4,25			
	Kit, wear parts		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	98497452 1		рс
45	Seal ring			00107102		1
47d	Lock ring					1
47c	Bush				8	
49c	Wear ring					11
65	Top f/neck ring				1	1
	Motor			85904228 1		рс
	Kit, bearing cpl.			9679667	6 1	
32b	Waved washer					
153	Angular-contact bearing					
154	Ball bearing					
157	O-ring					
159	V-ring					
	Kit, bearing plate			9679666	1 1	
155.a	Bearing cover					
208a	Gasket					
208	Hex socket head cap screw		Designation: DIN	N912		
			Length (mm): 40			
			Thread: M5			
	Kit, eyebolt		0	96796712) 1	
189	Eyebolt			3013011	- '	
109				0670005	1 4	
450	Kit, fan			9679665	+ 1	
156.c	Retaining ring					
156	Fan					
	Kit, fan cover			9679664	7 1	



151	Ean cover		
450	Fan cover		
152.a	Rubber bush		
152	Hex head cap screw		
196	Diaphragm		
	Kit, flange	96796662	1
156.b	Flange		
159.b	Seal ring		
185.b	Nut		
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		
100.0	Kit, ND-end shield cpl.	96796669	1
32b	Waved washer	00700000	•
156.a	End shield NDE		
150.a 157			
157	O-ring		
	V-ring Nut		
185.c			
185.a	Hex socket head cap screw		
195.b	Grease nipple		
	Kit, shaft seal	96843459	1
159.b	V-ring		
159	V-ring		
	Kit, terminal board	96796657	1
	Terminal connection		
	Washer		
36	Hex nut		
173	Torx Screw		
176.d	Terminal board		
176	Terminal board		
177	Torx Screw		
	Kit, terminal box cover	96796659	1
164	Terminal box cover	50.0000	•
273a	Pan head thread forming screw		
1a	Motor stool	98993921 1	р
		96587722 1	
2	Pump head		po
3	Upper chamber cpl.	98633863 1	po
47c	Bulk, Bush (10 pcs)	99321194	
4a	Bulk, Intermediate chamber cpl. (5 pcs)	99262755 3	р
4a	Intermediate chamber cpl.	99363114 3	po
4	Bulk, Intermediate chamber cpl. (3 pcs)	96534939 6	po
45a	Bulk, Neck ring cpl. (10 pcs)	98686545	1
45	Bulk, Seal ring (10 pcs)	97915	217
65	Bulk, Top f/neck ring (10 pcs)	96534	931
6	Base cpl.	Rubber type: EPDM 96587692 1	р
25	Bulk, Plug (10 pcs)	96536013	
37	Bulk, O-ring (10 pcs)	96536149	
38	Bulk, O-ring (10 pcs)	Diameter: 16,3 99198815	
	2011, 2 111g (10 poo)	Material type: EPDM	т
		Thickness: 2,4	
20	Bulk Oring (50 pop)		1
38	Bulk, O-ring (50 pcs)	Diameter: 16,3 99412727	4
		Material type: EPDM Thickness: 2,4	



	Pos	•	Annotation Classification Data	Part no.	Qt	у	Uni
	7	Bulk, Coupling guard (10 pcs)		96603279			pcs
+	8	Coupling cpl.	Dimension: 22/42	96587704			pcs
+	18	Bulk, Air vent screw (5 pcs)		96547461			pcs
+	18	Air vent screw		95061351			pcs
	25	Bulk, Plug (10 pcs)		96536013			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				
	26b	Bulk, Hex socket head cap screw (10 pcs)		98931380			pcs
	26a	Strap cpl.	Length (mm): 709	98983852	2		pcs
			Thread: M8				
	26	Bulk, Staybolt (4 pcs)	Length (mm): 846	96547327	4		pcs
			Thread: M16				
	26	Staybolt	Length (mm): 846	98976700	4		pcs
			Thread: M16				
	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
	37	Bulk, O-ring (10 pcs)		96536149	1		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				
-	44	Suction interconnector cpl.		96547328			pcs
	45	Bulk, Seal ring (10 pcs)		979152			
	65	Bulk, Top f/neck ring (10 pcs)		965349		1	
+	47a	Bulk, Bearing cpl. (5 pcs)		99366796	3		pcs
+	47a	Bulk, Bearing cpl. (10 pcs)		96534932	3		pcs
	49e	Bulk, Impeller cpl. (3 pcs)		98287180	8		pcs
	49c	Bulk, Wear ring (10 pcs)		965349	30	1	
+	49e	Bulk, Impeller cpl. (10 pcs)		96534935	8		pcs
+	49e	Impeller cpl.		98394455	8		pcs
	49d	Impeller cpl. reduced diameter		98394463	2		pcs
	48	Bulk, Nut (3 pcs)		992626	086	1	
	48	Bulk, Nut (10 pcs)		992626	383	1	
	48	Bulk, Nut (10 pcs)		965360)16	1	
	49b	Bulk, Split cone (10 pcs)		965360)10	1	
	49a	Bulk, Impeller (10 pcs)		965349) 37	1	
	49c	Bulk, Wear ring (10 pcs)		96	5349	930)
	55	Outer sleeve	Outer diameter: 197,0	99051703	1		pcs
			Length (mm): 725,5				
	58	Cover		98893158	1		pcs
	60	Bulk, Spring (20 pcs)		96536032	4		pcs
	105	Bulk, Shaft seal (12 pcs)	Material type: HQQE	96984086			pcs
		Adjusting fork	71	965878		1	•
	109	Bulk, O-ring (10 pcs)		965475		1	
+	105	Bulk, Shaft seal (12 pcs)	Material type: HQQE	96984070	1		pcs