

Date: 16/02/2019

Qty. | Description

1 | CR 32-12-2 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96122028

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

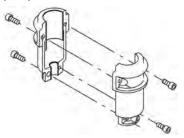
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

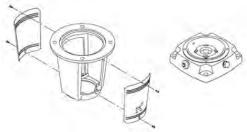
A long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.



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.

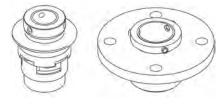
Primary seal:

- 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: 2947 rpm

Rated flow:

Rated head:

Pump orientation:

Shaft seal arrangement:

Code for shaft seal:

Approvals on nameplate:

Curve tolerance:

Som 3/h

Yertical

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 SIC

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:

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

2

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:



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

Insulation class (IEC 85):

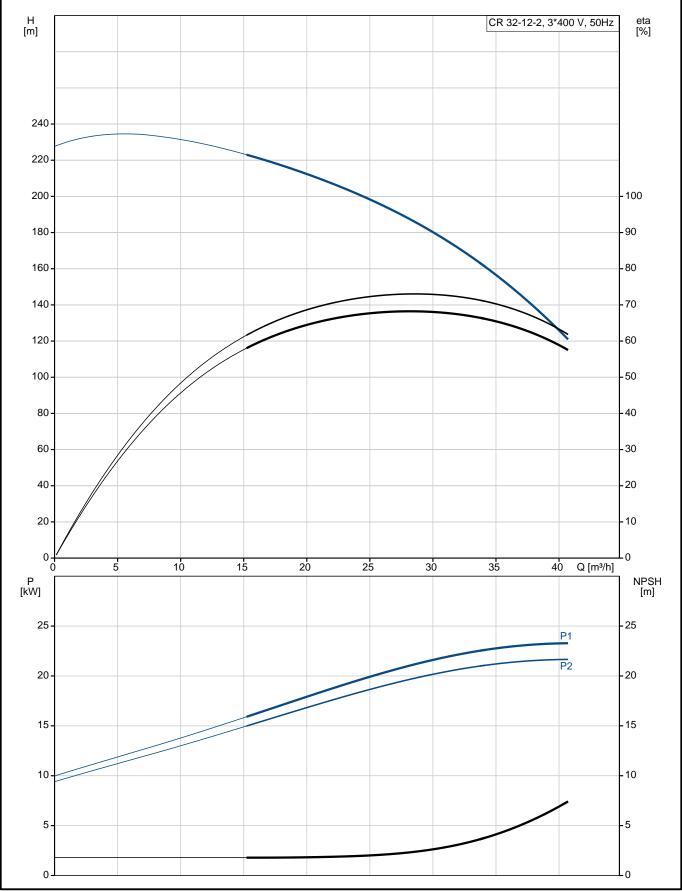
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 223 kg
Gross weight: 268 kg
Shipping volume: 0.808 m³
Danish VVS No.: 385906122
Swedish RSK No.: 5824890



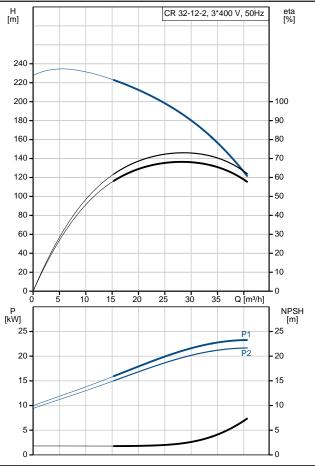
Date: 16/02/2019

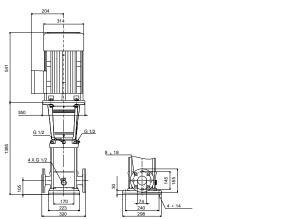
96122028 CR 32-12-2 A-F-A-E-HQQE 50 Hz

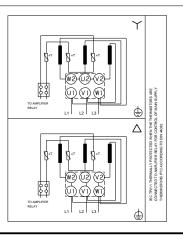




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R 32-12-2
-F-A-E-HQQE
6122028
700396680729
947 rpm
<u> </u>
0 m³/h
77.5 m
26.1 m
2
2
ertical
ingle
QQE
E, EAC,ACS
SO9906:2012 3B
ast iron
N 1563 EN-GJS-500-7
N 1563 EN-GJS-500-7 STM A536 80-55-06
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301
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N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IN
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IN N 65
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IN N 65 N 65
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IN N 65 N 65 N 40
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IN N 65 N 65 N 40 F300
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IN N 65 N 65 N 40
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IN N 65 N 65 N 40 F300
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IN N 65 N 65 N 40 F300
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IN N 65 N 65 N 40 F300
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IN N 65 N 65 N 40 F300 //ater 30 120 °C 0 °C
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IN N 65 N 65 N 40 F300
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IIN N 65 N 65 N 40 F300 /ater 30 120 °C 0 °C 98.2 kg/m³
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IIN N 65 N 65 N 40 F300 /ater 30 120 °C 0 °C 98.2 kg/m³ EC
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IIN N 65 N 65 N 40 F300 /ater 30 120 °C 0 °C 98.2 kg/m³ EC 80MB
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IN N 65 N 65 N 40 F300 /ater 30 120 °C 0 °C 98.2 kg/m³ EC BOMB 53
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IN N 65 N 40 F300 //ater 0 0 120 °C 0 °C 98.2 kg/m³ EC 800MB E3 2 kW
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IN N 65 N 65 N 40 F300 /ater 30 120 °C 0 °C 98.2 kg/m³ EC 80MB E3 2 kW 2 kW
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IN N 65 N 40 F300 //ater 0 0 120 °C 0 °C 98.2 kg/m³ EC 800MB E3 2 kW 2 kW 0 Hz
N 1563 EN-GJS-500-7 STM A536 80-55-06 tainless steel N 1.4301 ISI 304 IC raflon 0 °C 0 bar 0 bar / 120 °C 0 bar / -30 °C IN N 65 N 65 N 40 F300 /ater 30 120 °C 0 °C 98.2 kg/m³ EC 80MB E3 2 kW 2 kW







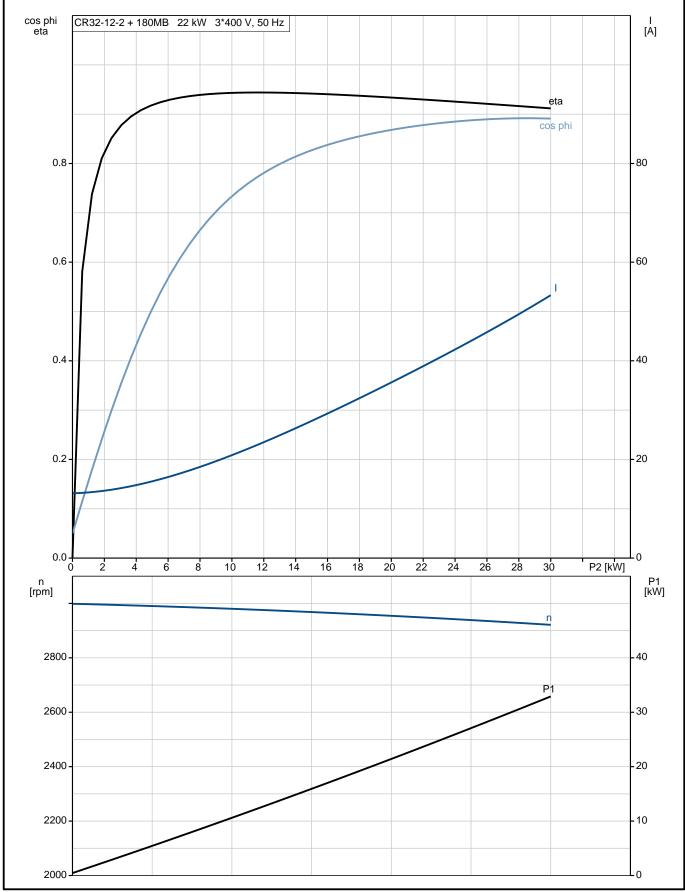


Description	Value
Starting current:	830 %
Cos phi - power factor:	0.90-0.90
Rated speed:	2950 rpm
Efficiency:	IE3 92,7%
Motor efficiency at full load:	92.7-92.7 %
Motor efficiency at 3/4 load:	93.7 %
Motor efficiency at 1/2 load:	94.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17530
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	223 kg
Gross weight:	268 kg
Shipping volume:	0.808 m ³
Danish VVS No.:	385906122
Swedish RSK No.:	5824890



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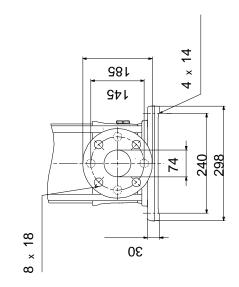
96122028 CR 32-12-2 A-F-A-E-HQQE 50 Hz

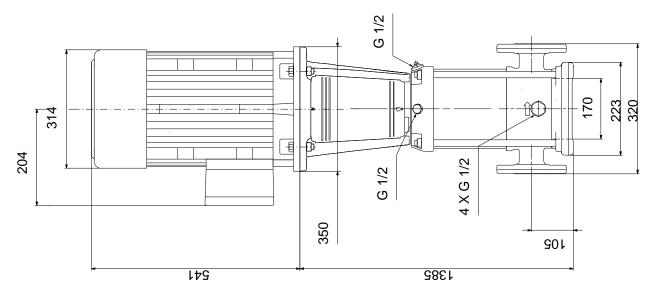




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96122028 CR 32-12-2 A-F-A-E-HQQE 50 Hz



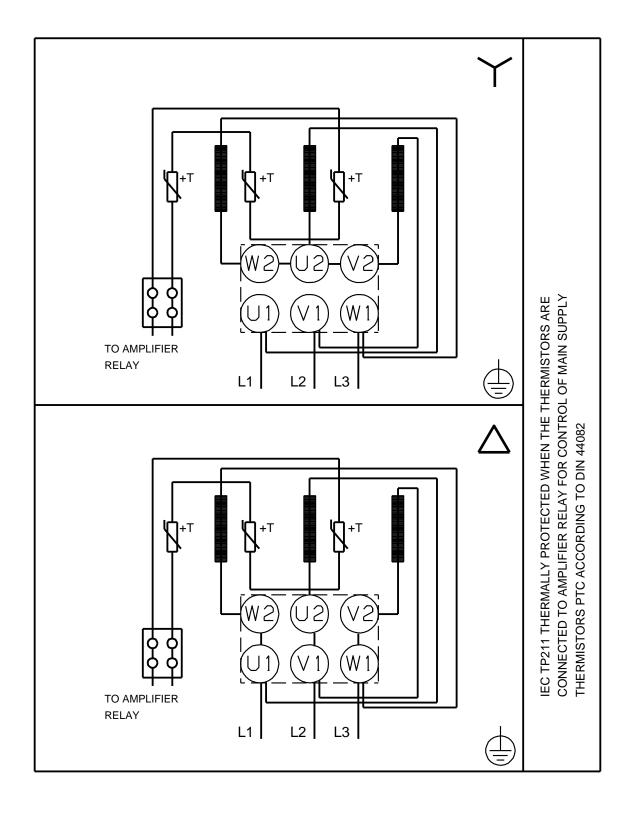


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



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96122028 CR 32-12-2 A-F-A-E-HQQE 50 Hz

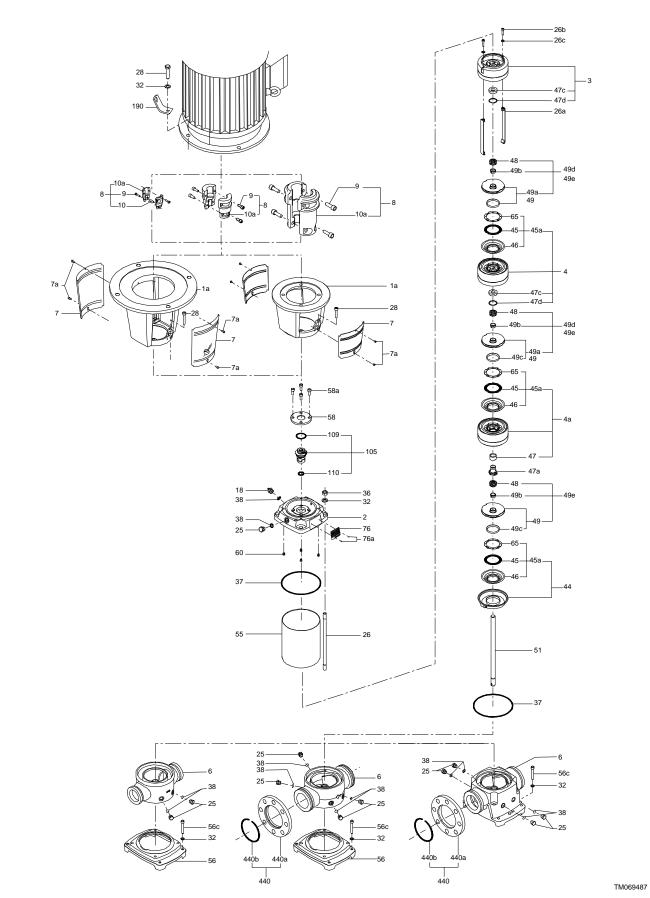


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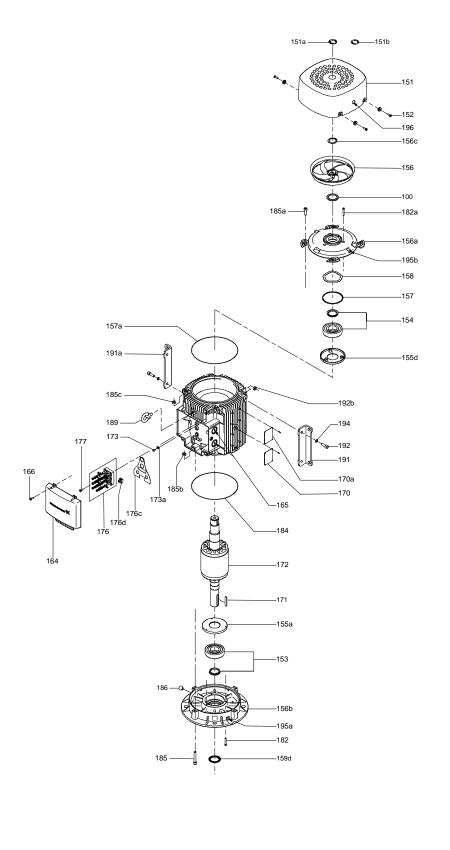
(tm069487 for LACR model B standard)



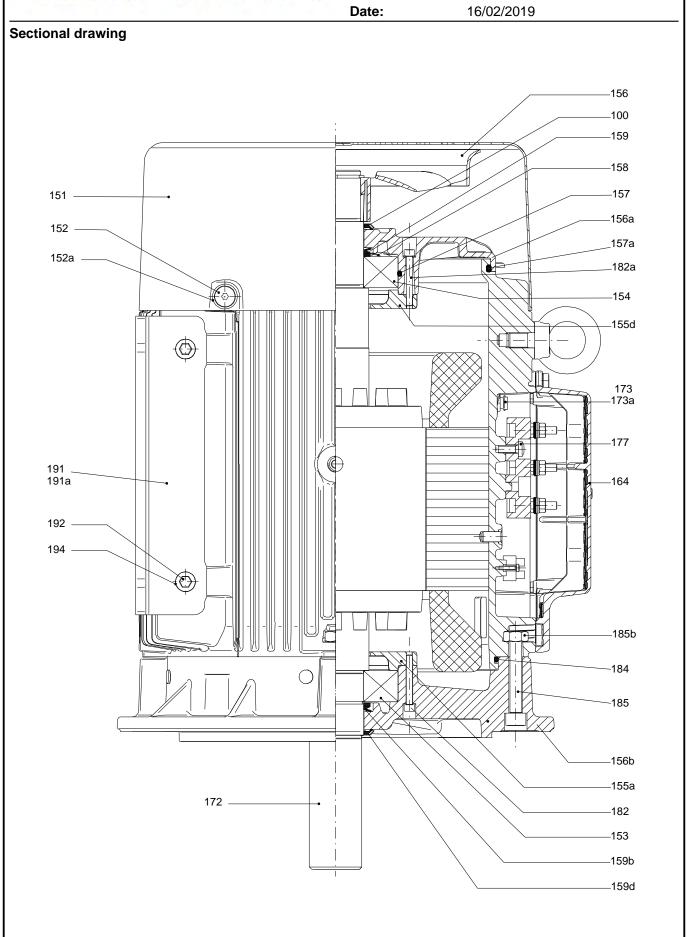


Date: 16/02/2019

Exploded view









Date: 16/02/2019

Spare parts CR 32-12-2, Product No. 96122028 Valid from 3.3.2014 (1410)

Pos	Description	Aimotation	Classification Data	Part no.	Qty.	
	Base			96547299	1	р
6	Base				1	
80	Chamber stack			96416915		р
80	Chamber stack				1	
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: D	IN 125A		
			Thickness: 1,6			
26b	Hex socket head cap screw					
26a	Strap cpl.		Length (mm): 8	349		
			Thread: M8			
44	Suction interconnector cpl.					
	Suction interconnector					
45	Seal ring					
46	Neck ring					
65	Top f/neck ring					
47a	Bearing cpl.					
	Driver					
	Holder					
	Disc spring					
	Bearing ring					
49e	Impeller cpl.					
48	Nut					
49b	Split cone					
490	Impeller					
49	The state of the s					
	Impeller hub					



Pos	Description	Annotation Classification Data	Part no.	Qty	<i>J</i>	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.		00 107 102	•	1	Poc
та	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		96416593	1		рс
	Adjusting fork		301.0000		1	P 0 1
8	Coupling cpl.	Dimension: 22/48			1	
9	Hex socket head cap screw		N 012			
9	nex socket nead 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	12		4	
		Length (mm): 25				
		Thread: M10				
58	Cover				1	
	Kit, gaskets		96416597	1		рс
	Adjusting fork		00410001	•	1	poc
37	O-ring				2	
		Diometer 40.0			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	
	-	Material type: EPDM				
		Thickness: 3,55				
	Kit, impeller		98497465	1		рс
48	Nut		100	•	1	٠,٠
48	Nut				1	
49b	Split cone				1	
49	Impeller				1	
	Impeller hub					
49c	Wear ring					
	Kit, Impeller, reduced diamete		98633832	1		pcs
48	Nut				1	



Pos	Description	Annotation Classification Data Part no. Qt	y. Ur
48	Nut		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
25	Plug		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
	- 3	Material type: FKM	-
		Thickness: 2,4	
38	O-ring	Diameter: 16,3	2
	~y	Material type: EPDM	-
		Thickness: 2,4	
38	O-ring	Diameter: 16,3	4
30	O-IIIIg	Material type: EPDM	4
		Thickness: 2,4	
	Kit, shaft seal HQQE	96525458 1	no
		90020400 1	pc
105	Grinding device Shaft seal	Material trans. LIOOF	1
105		Material type: HQQE	ı
100	Adjusting fork		
109	O-ring	Diameter 24 F	
110	O-ring	Diameter: 21,5	
		Material type: EPDM	
	129	Thickness: 4,25	
4-	Kit, wear parts	98497453 1	pc
45	Seal ring		14
47d	Lock ring		14
47c	Bush		11
49c	Wear ring		14
65	Top f/neck ring		14
	Motor	85904229 1	рс
	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
155.a	Cover		
208a	Gasket		
208	Hex socket head cap screw	Designation: DIN912	
-		Length (mm): 40	
		Thread: M5	
	Kit, eyebolt	96796712	1
189	Eyebolt	90790712	•
100	Kit, fan	96796650	1
156 ^		90/90050	ı
156.c	Retaining ring		
156	Fan	00700017	
	Kit, fan cover	96796647	1



Pos	Description	Annotation Classification Data	Part no. Qt	y. Uni
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	2.65.6.1. 255	96796671	1
195.b	Grease nipple		00100011	•
195.a	Grease nipple			
195.a	Kit, ND-end shield cpl.		96796810	1
150-			90790010	<u>'</u>
156a	End shield NDE			
158	Waved washer			
159	V-ring			
185.c	Nut			
185.a	Hex socket head cap screw			
195.b	Grease nipple			
	Kit, shaft seal		96843460	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		90790039	'
273a				
	Pan head thread forming screw		00000001 4	
1a	Motor stool		98993921 1	pcs
2	Pump head		96587722 1	pcs
3	Upper chamber cpl.		98633863 1	pcs
47c	Bulk, Bush (10 pcs)		99321194	1
4a	Bulk, Intermediate chamber cpl. (5 pcs)		99262755 3	pcs
4a	Intermediate chamber cpl.		99363114 3	pcs
4	Bulk, Intermediate chamber cpl. (3 pcs)		96534939 8	pcs
45a	Bulk, Neck ring cpl. (10 pcs)		98686545	1
45	Bulk, Seal ring (10 pcs)		97915	
65	Bulk, Top f/neck ring (10 pcs)		96534	
6	Base cpl.	Rubber type: EPDM	96587692 1	pcs
25	Bulk, Plug (10 pcs)	. (2500) (ypo. 2) 5W	96536013	•
37	Bulk, O-ring (10 pcs)		96536149	
	Bulk, O-ring (10 pcs)	Diameter 46.2		
38	Bulk, O-IIIIg (10 pcs)	Diameter: 16,3	99198815	4
		Material type: EPDM		
00	Dulle O site to (FO to)	Thickness: 2,4	00440707	
38	Bulk, O-ring (50 pcs)	Diameter: 16,3	99412727	4
		Material type: EPDM		
		Thickness: 2,4		
7a	Bulk, Socket button head screw (10 pcs)		96549696 4	pcs
	Bulk, Coupling guard (10 pcs)		96603279 2	pcs
7				-
7 18	Bulk, Air vent screw (5 pcs)		96547461 1	pcs



Pos	Description	Annotation	Classification Data	Part no	Otv	. Uni
25	Bulk, Plug (10 pcs)	Ailliotation	Giassilication Data	Part no. 96536013	Qty 1	pcs
26c	Bulk, Washer (4 pcs)		Designation: DIN 125A	99262704		pcs
200	Buik, Washer (4 pes)		Thickness: 1,6	33202704		pos
26c	Washer		Designation: DIN 125A	96586880	2	pcs
200	VVasiloi		Thickness: 1,6	30300000		pos
26b	Bulk, Hex socket head cap screw (10 pcs)		11110K1033. 1,0	98931380	2	pcs
26a	Strap cpl.		Length (mm): 849	98961527		pcs
200	Guap opi.		Thread: M8	30301321		pos
26	Bulk, Staybolt (4 pcs)		Length (mm): 986	98558188	4	pcs
	Baix, Staybort (4 pos)		Thread: M16	30000100		poo
26	Staybolt		Length (mm): 986	98976702	4	pcs
	Giayboii		Thread: M16	00010102		Poo
28.a	Bulk, Hex head screw (20 pcs)		micaa. wro	96620478	4	pcs
28	Bulk, Hex socket head cap screw (10 pcs)		Designation: DIN 912	96536147		pcs
	Baix, Flex societ flead cap solew (10 pos)		Length (mm): 50	30000147		poo
			Thread: M10			
32	Bulk, Washer (100 pcs)		Designation: DIN 125 A	98923051	8	pcs
02	zam, vradioi (100 pod)		Internal diameter: 17	30020001		Pos
			Outer diameter: 30			
			Thickness: 3			
36	Bulk, Hex nut (20 pcs)		Thread: M16	96620480	4	pcs
37	Bulk, O-ring (10 pcs)		THIOGG. WITO	96536149		pcs
38	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815		pcs
	Baix, O mig (10 poo)		Material type: EPDM	00100010		Poo
			Thickness: 2,4			
38	Bulk, O-ring (50 pcs)		Diameter: 16,3	99412727	2	pcs
	Baint, O mily (60 poo)		Material type: EPDM	00112121	_	Poo
			Thickness: 2,4			
44	Suction interconnector cpl.		7 mora 1000. 2, 1	96547328	1	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		pcs
- 47a	Bulk, Bearing cpl. (10 pcs)			96534932		pcs
49e	Bulk, Impeller cpl. (3 pcs)			98287180		pcs
49c	Bulk, Wear ring (10 pcs)			965349		
- 49e	Bulk, Impeller cpl. (10 pcs)			96534935		pcs
- 49e	Impeller cpl.			98394455		pcs
49d	Impeller cpl. reduced diameter			98394463		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		
49a	Bulk, Impeller (10 pcs)			965349		
49a 49c	Bulk, Wear ring (10 pcs)				93 <i>1</i> 5349:	
	Outer sleeve		Outor diameter: 107.0			
55	Outer Sieeve		Outer diameter: 197,0	99051704	-1	pcs
E0	Cover		Length (mm): 865,5	00000450		P 000
58	Cover			98893158		pcs
60	Bulk, Spring (20 pcs)		Motorial tyres: LICOT	96536032		pcs
105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984086		pcs
400	Adjusting fork			965878		1
109	Bulk, O-ring (10 pcs)		M	965475		1
- 105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984070		pcs
203	Bulk, Lock ring (4 pcs)			96534918	1	pcs