

**Date:** 18/02/2019

Qty. | Description

1 | CR 120-4-1 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 95922154

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

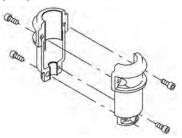
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

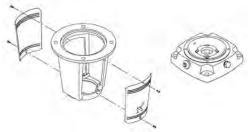
A long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.



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.

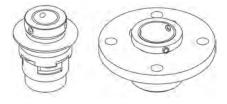
#### Primary seal:

- 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)

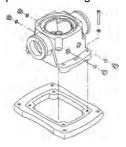
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



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 and mounted on a separate cast-iron base plate. 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.



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

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

#### **Technical data**

Controls:

Frequency converter: NONE

Liquid:

Pumped liquid: Water

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

Technical:

Pump speed on which pump data are based: 2957 rpm

Rated flow: 120 m³/h
Rated head: 82.4 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 AISI 304 SIC

Bearing: SIC Support bearing: Graflon

Installation:

Maximum ambient temperature: 55 °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 125
Size of outlet connection: DN 125
Pressure rating for pipe connection: PN 40
Flange size for motor: FF350

Electrical data:

Motor standard: IEC
Motor type: SIEMENS
IE Efficiency class: IE3
Rated power - P2: 37 kW
Power (P2) required by pump: 37 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-420D/660-725Y V Rated current: 68,0-63,0/39,0-36,0 A

Starting current: 670-670 % Cos phi - power factor: 0.88



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Rated speed: 2955 rpm
Efficiency: IE3 93,7%
Motor efficiency at full load: 93.7-93.7 %
Motor efficiency at 3/4 load: 93.9-93.9 %
Motor efficiency at 1/2 load: 93.5-93.5 %

Number of poles: 2

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

Insulation class (IEC 85): F

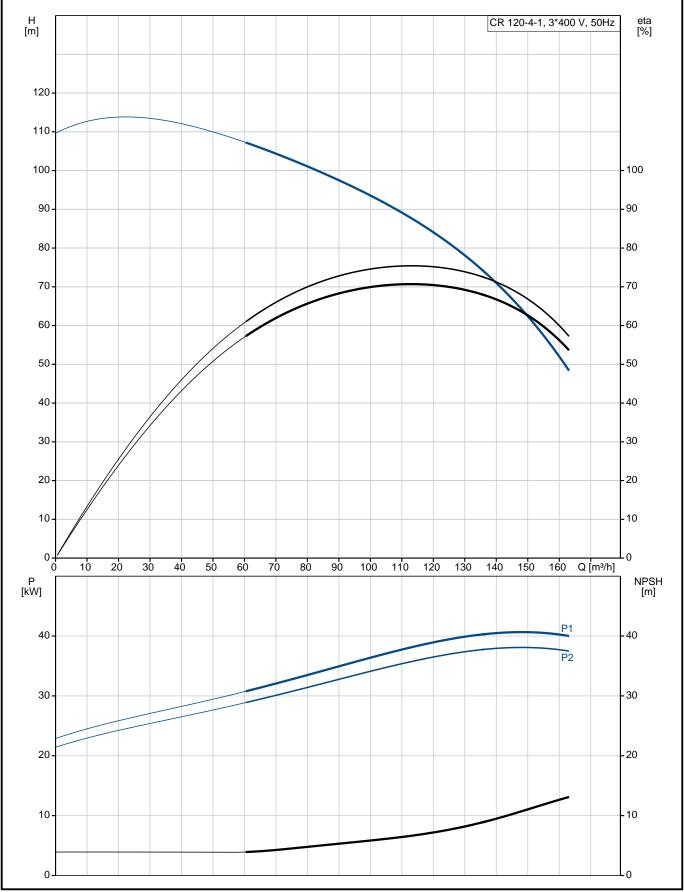
#### Others:

Minimum efficiency index, MEI ≥: 0.70 Net weight: 402 kg Gross weight: 479 kg Shipping volume: 1.32 m³



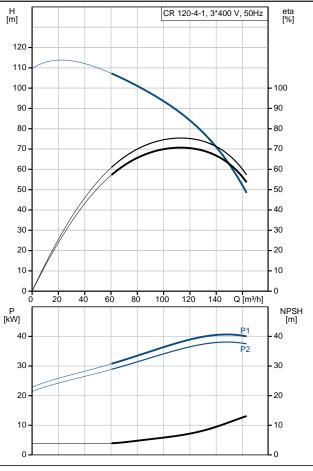
**Date:** 18/02/2019

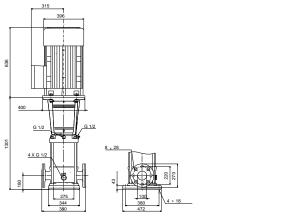
# 95922154 CR 120-4-1 A-F-A-E-HQQE 50 Hz

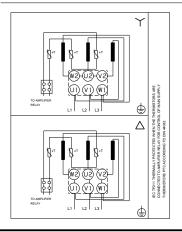




Description	Value
General information:	
Product name:	CR 120-4-1
	A-F-A-E-HQQE
Product No:	95922154
EAN number:	5700838933635
Technical:	
Pump speed on which pump data are	2957 rpm
based:	·
Rated flow:	120 m³/h
Rated head:	82.4 m
Head max:	108.1 m
Stages:	4
Impellers:	4
Number of reduced-diameter impellers:	1
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CE, EAC,ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Base:	Cast iron
	EN 1563 EN-GJS-500-7
	ASTM A536 80-55-06
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Material code:	A
Code for rubber:	E
Bearing:	SIC
Support bearing:	Graflon
Installation:	
Maximum ambient temperature:	55 °C
Maximum ambient temperature:  Maximum operating pressure:	55 °C 30 bar
·	
Maximum operating pressure:	30 bar
Maximum operating pressure:	30 bar 30 bar / 120 °C
Maximum operating pressure:  Max pressure at stated temp:	30 bar 30 bar / 120 °C 30 bar / -30 °C
Maximum operating pressure:  Max pressure at stated temp:  Type of connection:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN
Maximum operating pressure: Max pressure at stated temp:  Type of connection: Size of inlet connection:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125
Maximum operating pressure: Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125
Maximum operating pressure: Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40
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:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350
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:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350
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:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F
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:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F
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:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F Water -30 120 °C
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:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F Water -30 120 °C 20 °C
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:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F Water -30 120 °C 20 °C
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:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F Water -30 120 °C 20 °C 998.2 kg/m³
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:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F Water -30 120 °C 20 °C 998.2 kg/m³
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:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS IE3
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:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F  Water -30 120 °C 20 °C 998.2 kg/m³  IEC SIEMENS IE3 37 kW
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:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F  Water -30 120 °C 20 °C 998.2 kg/m³  IEC SIEMENS IE3 37 kW 37 kW
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: Mains frequency:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS IE3 37 kW 37 kW 50 Hz
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:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F  Water -30 120 °C 20 °C 998.2 kg/m³  IEC SIEMENS IE3 37 kW 37 kW
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: Mains frequency:	30 bar 30 bar / 120 °C 30 bar / -30 °C DIN DN 125 DN 125 PN 40 FF350 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS IE3 37 kW 37 kW 50 Hz 3 x 380-420D/660-725Y







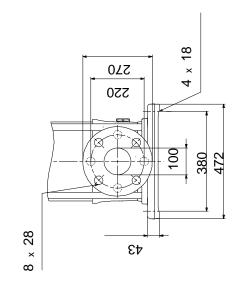


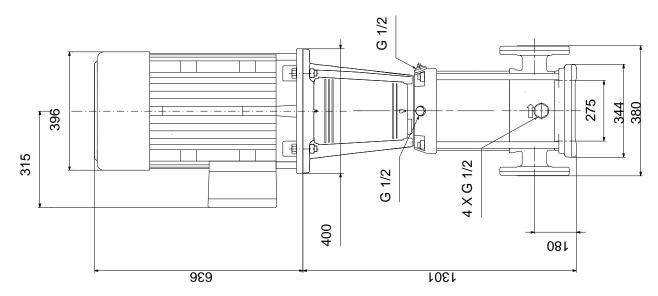
Description	Value
Starting current:	670-670 %
Cos phi - power factor:	0.88
Rated speed:	2955 rpm
Efficiency:	IE3 93,7%
Motor efficiency at full load:	93.7-93.7 %
Motor efficiency at 3/4 load:	93.9-93.9 %
Motor efficiency at 1/2 load:	93.5-93.5 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	81U15334
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	402 kg
Gross weight:	479 kg
Shipping volume:	1.32 m <sup>3</sup>



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# 95922154 CR 120-4-1 A-F-A-E-HQQE 50 Hz



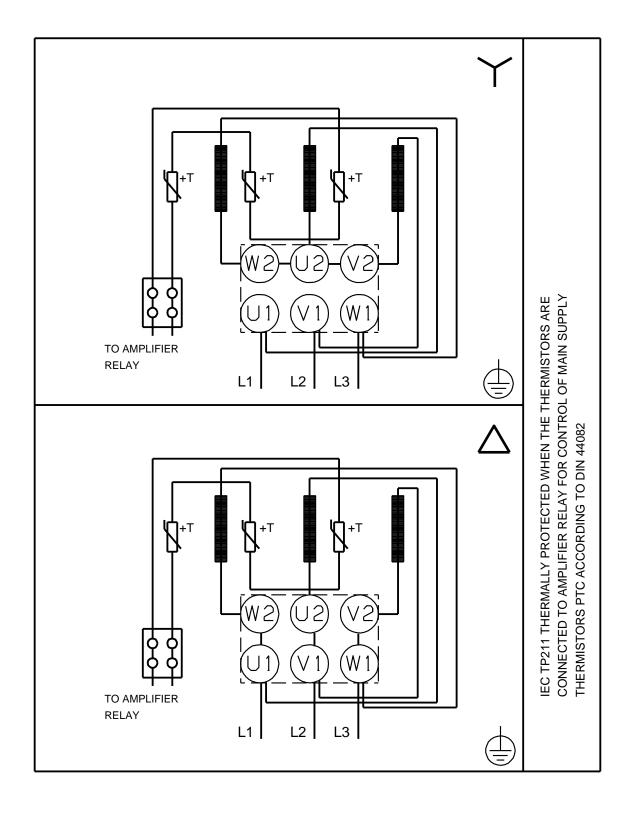


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



**Date:** 18/02/2019

## 95922154 CR 120-4-1 A-F-A-E-HQQE 50 Hz



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



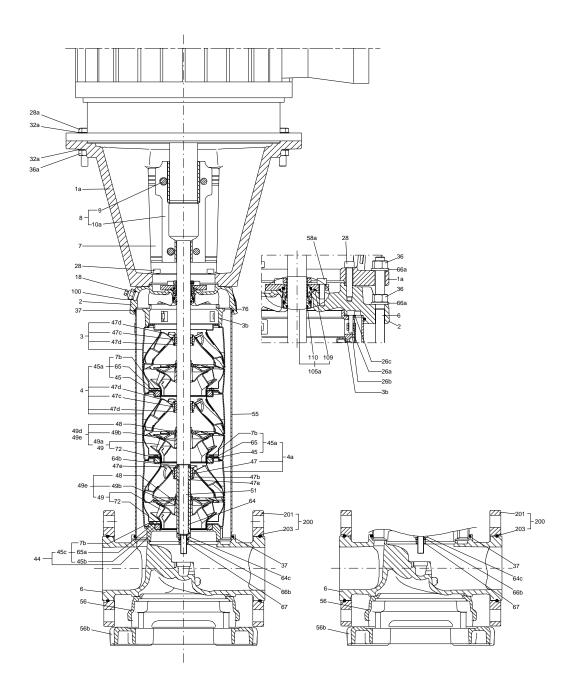
Date: 18/02/2019

(TM065565 XLCR) -26b -26c 47d -47c -47d -65 -47c -47d 66a 58a 58 36 66a -23 -100 -60 -47e -47b -64



**Date:** 18/02/2019

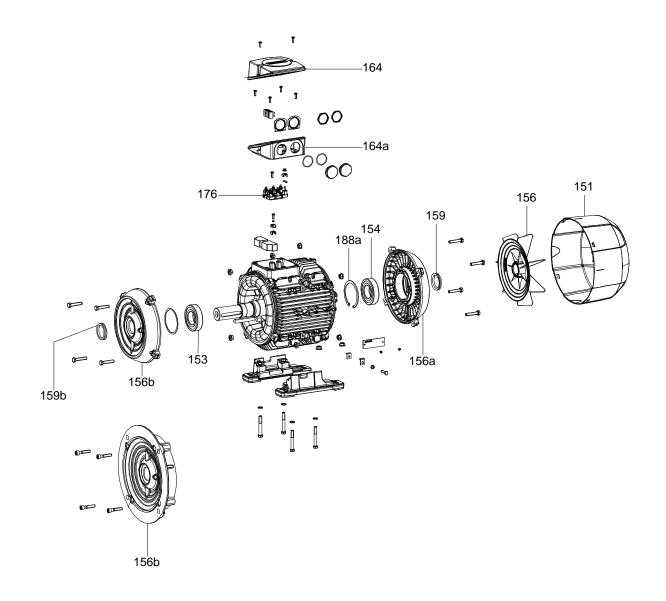
## (TM065579 XLCR)





**Date:** 18/02/2019

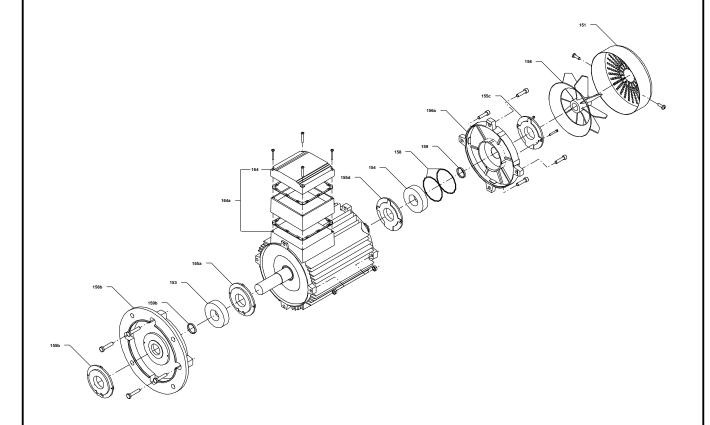
(TM058162)





**Date:** 18/02/2019

(tm019382 3200)



TM019382



**Date:** 18/02/2019

# Spare parts CR 120-4-1, Product No. 95922154 Valid from 31.3.2011 (1113)

Pos	Description	Annotation	Classification Data	Part no. 98807603	Qty.	
	Base				1	р
	Kit, bearing			96752215		р
	Adjusting fork				1	
	Adjusting fork				1	
47e	Washer		Internal diameter: D	22	2	2
			Outer diameter: D32			
47b	Bearing ring, rotating				1	
	Kit, chamber stack			95059823		р
80	Chamber stack				1	
	Shaft cpl.		Diameter: D22			
			Length (mm): 887			
47e	Washer		Internal diar	neter: D22		
			Outer diameter: D32			
47b	Bearing ring, rotating					
51	Pump shaft		Diameter: D	22		
			Length (mm): 887			
64c	Spacer ring					
64b	Wedge lock washer					
64b	Lock washer					
64	Spacing bush					
67	Hex nut		Thread: M14	4		
3	Chamber cpl.					
47d	Locking ring					
47c	Bush					
4a	Chamber cpl.					
7a	Cross recess Pan head screw					
45	Neck ring					
47	Bearing ring					
65	Retainer					
4	Chamber cpl.					
7a	Cross recess Pan head screw					
45	Neck ring					
47d	Locking ring					
47c	Bush					
65	Retainer					
7a	Cross recess Pan head screw					
26c	Washer		Designation: DI	N 125Δ		
200	vvasilei		Thickness: 1,6	N 125A		
26b	Hay sacket head can saraw		11110N11033. 1,U			
26a	Hex socket head cap screw		Length (mm): 67	70		
	Strap cpl.		Length (mm): 67	2		
44a	Discharge part					
44	Inlet part					
4 <b>5</b> L	Inlet part					
45b	Seal ring					
49e	Impeller cpl.					
48	Split cone nut					
49b	Split cone					
49a	Impeller, reduced diameter		Type: A-TRI	M		
49c	Wear ring					
49e	Impeller cpl.					
48	Split cone nut					
49b	Split cone					
49	Impeller					



Pos	Description	Annotation Classification Data	Part no.	Qty.	Hn
49c	Wear ring	Amotation Classification Data	i ait iio.	æιy.	UII
65a	Retainer				
	Kit, chambers		96751982	1	рс
	Adjusting fork			1	
	Adjusting fork			1	
4a	Chamber cpl.			1	l
7a	Cross recess Pan head screw				
45	Neck ring				
47	Bearing ring				
65	Retainer				
	Kit, coupling		96416594	1	рс
	Adjusting fork			1	
8	Coupling cpl.	Dimension: 22/5	5	1	
9	Hex socket head cap screw	Designation	: DIN 912		
		Length (mm): 25			
		Thread: M10			
10a	Coupling half				
	Kit, coupling guard		96505135	1	pc
7a	Socket button head screw		11000.00	. 4	
7	Coupling guard			2	
•	Kit, cover		98832448		pc:
	Kit, gaskets		95059804		рс
	Adjusting fork			. 1	
	Adjusting fork			1	
37	O-ring			2	
38	O-ring	Diameter: 16,3		4	
	Jg	Material type: EPDM	1		
		Thickness: 2,4	•		
38	O-ring	Diameter: 16,3		2	,
	- ····9	Material type: EPDM	1	_	_
		Thickness: 2,4	•		
60	Spring			4	1
109	O-ring			1	
109	O-ring	Material type: El	PDM	1	
110	O-ring			1	
110	O-ring	Diameter: 21,5		1	
	Jg	Material type: EPDN	1	•	
		Thickness: 4,25	•		
	Kit, plug	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	96505136	1	рс
18	Air vent screw			1	
	Spindle				
	Plug				
25	Plug			4	1
25	Plug			1	
38	O-ring	Diameter: 16,3		2	
	-	Material type: FKM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3		4	1
	<del>-</del>	Material type: FKM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3		6	6
	-	Material type: FKM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3		2	2
	•	Material type: EPDM	1		
		Thickness: 2,4			
38	O-ring	Diameter: 16,3		4	1
	3	Material type: EPDN			



Pos	Description	Annotation Classification Data Part no. Qty Thickness: 2,4	/. U
	Kit, shaft	98368846 1	р
		Diameter: D22	
	Shaft cpl.		1
47-	\\/	Length (mm): 887	
47e	Washer	Internal diameter: D22	
		Outer diameter: D32	
47b	Bearing ring, rotating		
51	Pump shaft	Diameter: D22	
		Length (mm): 887	
64c	Spacer ring		
64b	Wedge lock washer		
64b	Lock washer		
64	Spacing bush		
67	Hex nut	Thread: M14	
47e	Washer	Internal diameter: D22	2
		Outer diameter: D32	
47b	Bearing ring, rotating		1
51	Pump shaft	Diameter: D22	1
٠.	· will strait	Length (mm): 887	•
64c	Spacer ring	Longar (min). 007	1
64b	Wedge lock washer		1
64b	Lock washer		1
64			1
	Spacing bush	Thursday NAAA	
67	Hex nut	Thread: M14	1
	Kit, shaft seal HQQE	96525458 1	, po
	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	95059807 1	р
	Adjusting fork		1
	Adjusting fork		1
7a	Cross recess Pan head screw		12
45b	Seal ring		1
45	Neck ring		3
47e	Washer	Internal diameter: D22	2
		Outer diameter: D32	_
47d	Locking ring	Sator diamotor. DOZ	6
47u	Bush		3
47b			1
	Bearing ring, rotating		
49c	Wear ring		4
65a	Retainer		1
65	Retainer		3
	Bulk, Gasket (10 pcs)	99158755 1	po
	Motor	1	р
156	Kit, fan	98062265	1
151	Kit, fan cover	98062275	1
156b	Kit, flange	98062279	1
	Kit, lubrication nipple	98062531	1
156a	Kit, ND-end shield cpl.	98062517	1
159b	Kit, seal ring	98062551	1
176	Kit, terminal board	98062236	
164a	Kit, terminal board  Kit, terminal box	98062262	
1044	Motor	96002202	
153			po
	Angular-contact bearing	Designation: 7312B 00ID0375	1



Pos	Description	Annotation	Classification Data	Part no. C	tty.	Un
155b	Bearing cover			96474946	•	
155d	Bearing cover			96474946	3 1	
158	Corrugated spring			96474950	) 2	
156a	End shield			98678160	) 1	
156b	End shield			96474949	9 1	
156	Fan			96474947	7 1	
151	Fan cover			96609659	9 1	
176	Terminal board cpl.			96476440		
164	Terminal box cover			98642779	9 1	
164a	Terminal box cpl.			98642732		
159	V-ring			96474952		
154	Ball bearing		Designation: 6312.C			
1a	Motor stool		2 00.g. a	98967671 1		рс
2	Pump head			98593647 1		pcs
- 3	Chamber cpl.			98371385 1		pcs
+ 4a	Bulk, Chamber cpl. (3 pcs)			98371389 1		pcs
+ 4a	Chamber cpl.			98371394 1		pcs
- 4a - 4	Chamber cpl.			98371387 2		pcs
6	Base			99321771 1		pcs
7a	Bulk, Socket button head screw (10 pcs)			96549696 4		pc
7a 7	Bulk, Coupling guard (10 pcs)			96603279 2		•
						pcs
+ 18	Bulk, Air vent screw (5 pcs) Air vent screw			96547461 1		pc
18				95061351 1		pcs
25	Bulk, Plug (10 pcs)		D ' (' DIN 4054	96536013 1		pcs
26c	Bulk, Washer (4 pcs)		Designation: DIN 125A	99262704 4		pc
			Thickness: 1,6			
26c	Washer		Designation: DIN 125A	96586880 4		pcs
0.01	5 II II (10 )		Thickness: 1,6			
26b	Bulk, Hex socket head cap screw (10 pcs)		1 (1 ( ) 070	98931380 4		pcs
26a	Strap cpl.		Length (mm): 672	98984446 4		pcs
26	Staybolt		Length (mm): 840	98976626 4		pcs
			Thread: M16			
28	Bulk, Hex socket head cap screw (10 pcs)		Designation: DIN 912	96536147 4		pcs
			Length (mm): 50			
			Thread: M10			
28	Bulk, Hex head screw (20 pcs)		Length (mm): 60	97506949 4		pcs
			Thread: M16			
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		рс
			Material type: EPDM			
			Thickness: 2,4			
44a	Discharge part			99052574 1		рс
+ 44	Inlet part			99106112 1		pcs
49e	Bulk, Impeller cpl. (5 pcs)			97506741 1		pc:
49c	Bulk, Wear ring (2 pcs)			96535350		•
- 49e	Impeller cpl.			97506727 1		pcs
49e	Impeller cpl.			97506694 3		pcs
48	Bulk, Split cone nut (10 pcs)			96551333		, J.
49	Bulk, Impeller (10 pcs)			9653774		
10					5350	
49c	Bulk, Wear ring (2 pcs)			unna		1



	Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
				Length (mm): 695,5			
	56b	Base plate			99048161	1	pcs
	58	Cover			98893158	1	pcs
	60	Bulk, Spring (20 pcs)			96536032	4	pcs
	65a	Retainer			98461640	1	pcs
-	105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984086	1	pcs
		Adjusting fork			965878	396 1	
	109	Bulk, O-ring (10 pcs)			965475	86 1	
+	105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984070	1	pcs
	440b	Bulk, Lock ring (4 pcs)			96547435	1	pcs