

Date: 18/02/2019

Qty. | Description

1 | CRN 150-1 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 95922407

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. 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

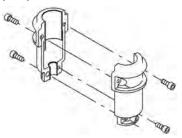
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

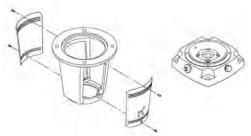
A long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.



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.

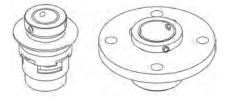
Primary seal:

- 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 pump has a stainless-steel base mounted on a separate base plate. The base and base plate are kept in position by the tension of the staybolts which hold the pump together. Both the inlet and the outlet side of the base have two pressure gauge tappings. The pump is secured to the foundation by four bolts through the base plate. The flanges are fastened to the base by means of locking rings.



Motor

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

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

Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.



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The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

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

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

Technical data

Controls:

Frequency converter: NONE

Liquid:

Pumped liquid: Water

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

Technical:

Pump speed on which pump data are based: 2923 rpm

Rated flow: 150 m³/h
Rated head: 19.7 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE

Approvals on nameplate: CE, EAC,ACS Curve tolerance: ISO9906:2012 3B

Materials:

Base: Stainless steel

EN 1.4408 AISI 316

Impeller: Stainless steel

EN 1.4401 AISI 316

Bearing: SIC Support bearing: Graflon

Installation:

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

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

30 bar / -40 °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: FF300

Electrical data:

Motor standard: IEC
Motor type: 160MD
IE Efficiency class: IE3
Rated power - P2: 15 kW
Power (P2) required by pump: 15 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-415D/660-690Y V Rated current: 28,0-26,0/16,2-15,6 A



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Starting current: 660-780 %
Cos phi - power factor: 0.89-0.87
Rated speed: 2930-2950 rpm
Efficiency: IE3 91,9%
Motor efficiency at full load: 91.9-91.9 %
Motor efficiency at 3/4 load: 92.4 %
Motor efficiency at 1/2 load: 92.4 %

Number of poles: 2

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

Insulation class (IEC 85): F

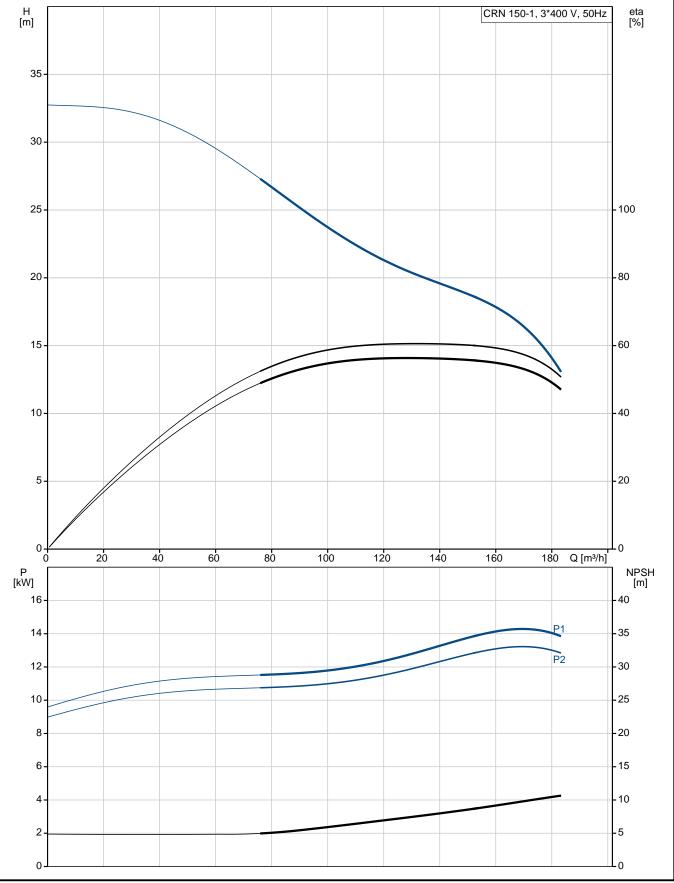
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 207 kg
Gross weight: 268 kg
Shipping volume: 1.02 m³



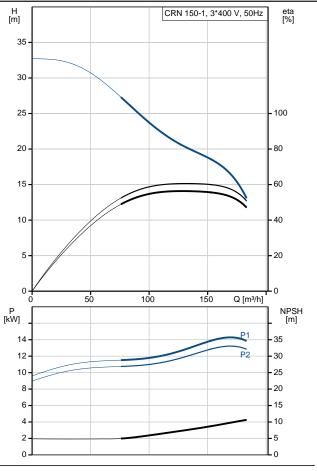
Date: 18/02/2019

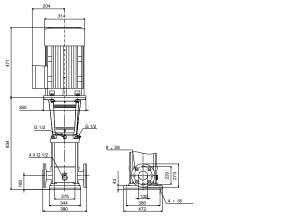
95922407 CRN 150-1 A-F-A-E-HQQE 50 Hz

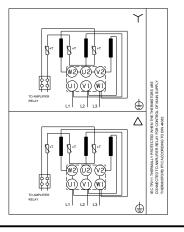




Description	Value
General information:	
Product name:	CRN 150-1
	A-F-A-E-HQQE
Product No:	95922407
EAN number:	5700838936278
Technical:	
Pump speed on which pump data are based:	2923 rpm
Rated flow:	150 m³/h
Rated head:	19.7 m
Head max:	32.9 m
Stages:	1
Impellers:	1
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CE, EAC,ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	Α
Model:	A
Materials:	
Base:	Stainless steel
Вазе.	EN 1.4408
	AISI 316
Impollari	
Impeller:	Stainless steel EN 1.4401
	AISI 316
Material code:	A
Code for rubber:	E
Code for rubber: Bearing:	E SIC
Code for rubber: Bearing: Support bearing:	E
Code for rubber: Bearing: Support bearing: Installation:	E SIC Graflon
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature:	E SIC Graflon
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure:	E SIC Graflon 60 °C 30 bar
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 125
Code for rubber: Bearing: 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:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 125 DN 125
Code for rubber: Bearing: 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:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 125 DN 125 PN 40
Code for rubber: Bearing: 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:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 125 DN 125 PN 40 FF300
Code for rubber: Bearing: 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:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 125 DN 125 PN 40 FF300
Code for rubber: Bearing: 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:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 125 DN 125 PN 40 FF300 F
Code for rubber: Bearing: 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:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 125 DN 125 PN 40 FF300 F Water
Code for rubber: Bearing: 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:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 125 DN 125 PN 40 FF300 F Water -40 120 °C
Code for rubber: Bearing: 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:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 125 DN 125 PN 40 FF300 F Water -40 120 °C 20 °C
Code for rubber: Bearing: 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:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 125 DN 125 PN 40 FF300 F Water -40 120 °C 20 °C
Code for rubber: Bearing: 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:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 125 DN 125 PN 40 FF300 F Water -40 120 °C 20 °C 998.2 kg/m³
Code for rubber: Bearing: 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:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 125 DN 125 PN 40 FF300 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC 160MD
Code for rubber: Bearing: 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:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 125 DN 125 PN 40 FF300 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC 160MD IE3
Code for rubber: Bearing: 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:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 125 DN 125 PN 40 FF300 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC 160MD IE3 15 kW
Code for rubber: Bearing: 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:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 125 DN 125 PN 40 FF300 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC 160MD IE3 15 kW 15 kW
Code for rubber: Bearing: 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: Mains frequency:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 125 DN 125 PN 40 FF300 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC 160MD IE3 15 kW 15 kW 50 Hz
Code for rubber: Bearing: 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:	E SIC Graflon 60 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 125 DN 125 PN 40 FF300 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC 160MD IE3 15 kW 15 kW







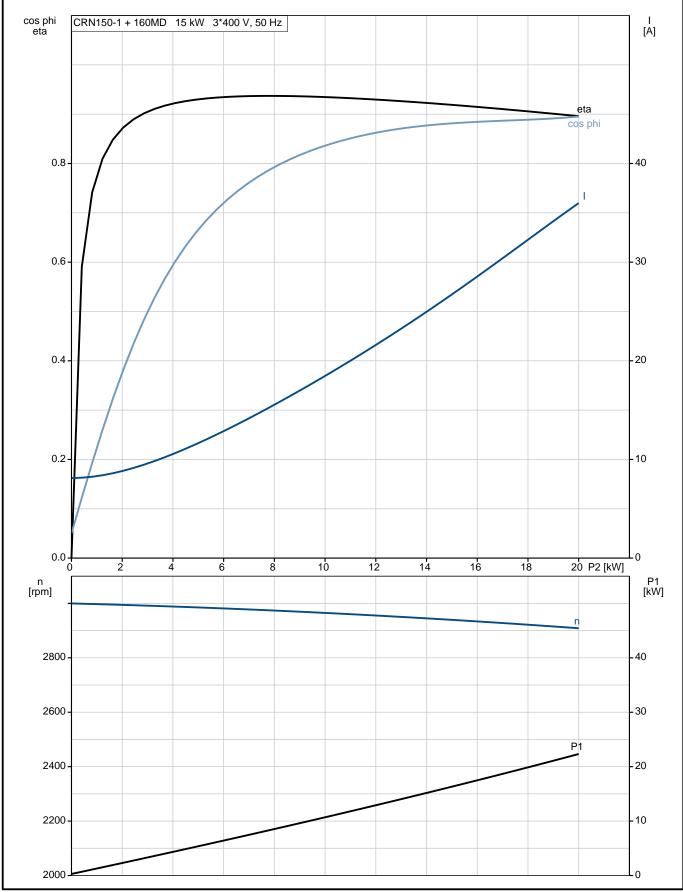


Description	Value
Starting current:	660-780 %
Cos phi - power factor:	0.89-0.87
Rated speed:	2930-2950 rpm
Efficiency:	IE3 91,9%
Motor efficiency at full load:	91.9-91.9 %
Motor efficiency at 3/4 load:	92.4 %
Motor efficiency at 1/2 load:	92.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17526
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	207 kg
Gross weight:	268 kg
Shipping volume:	1.02 m³



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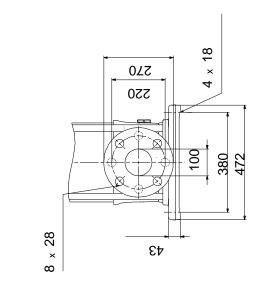
95922407 CRN 150-1 A-F-A-E-HQQE 50 Hz

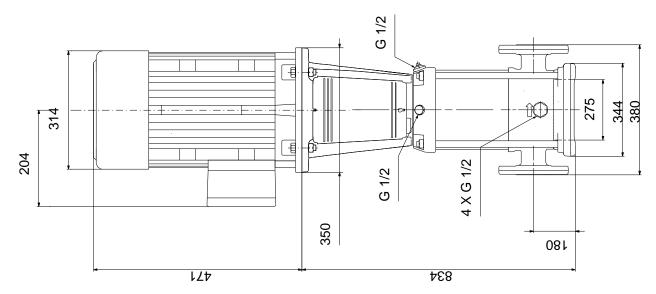




Date: 18/02/2019

95922407 CRN 150-1 A-F-A-E-HQQE 50 Hz



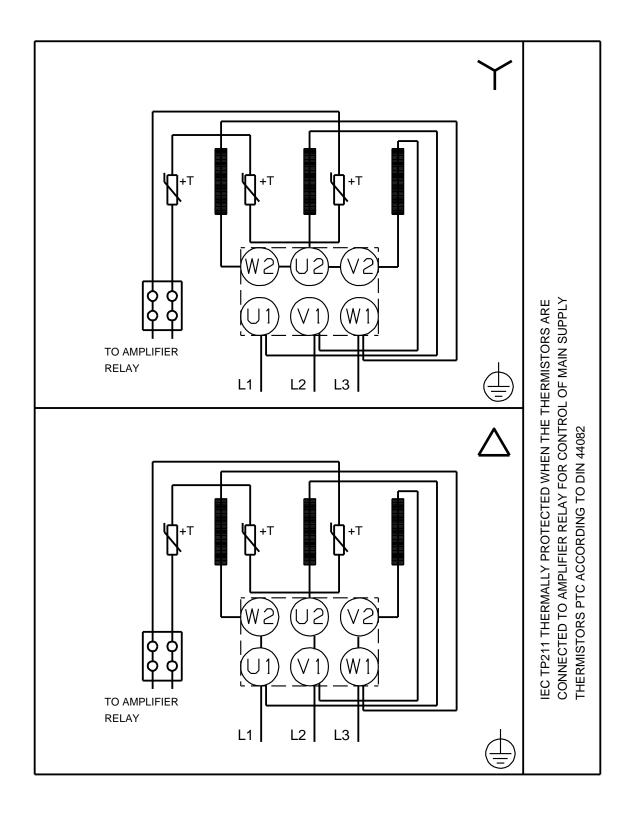


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 18/02/2019

95922407 CRN 150-1 A-F-A-E-HQQE 50 Hz



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



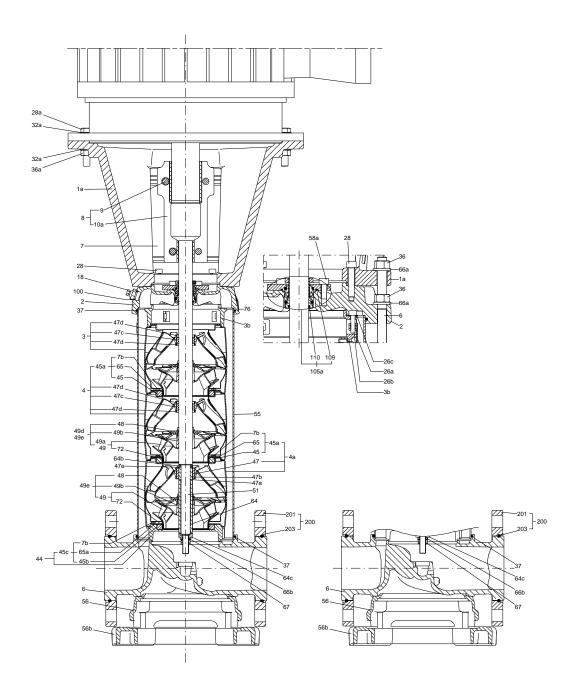
Date: 18/02/2019

(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

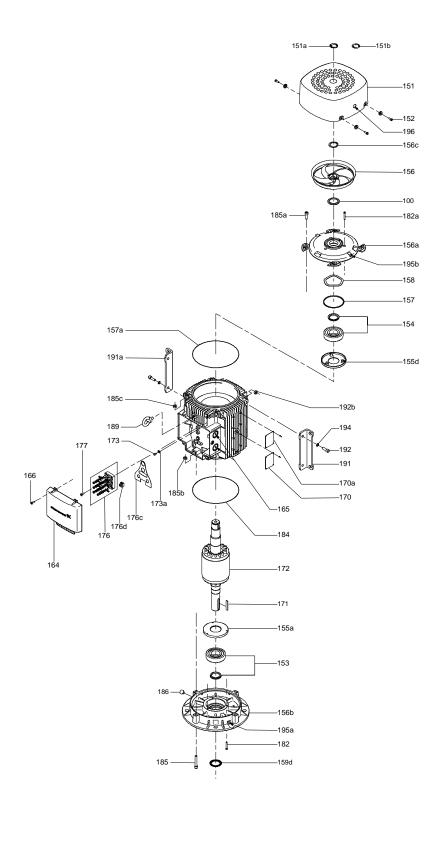
(TM065579 XLCR)





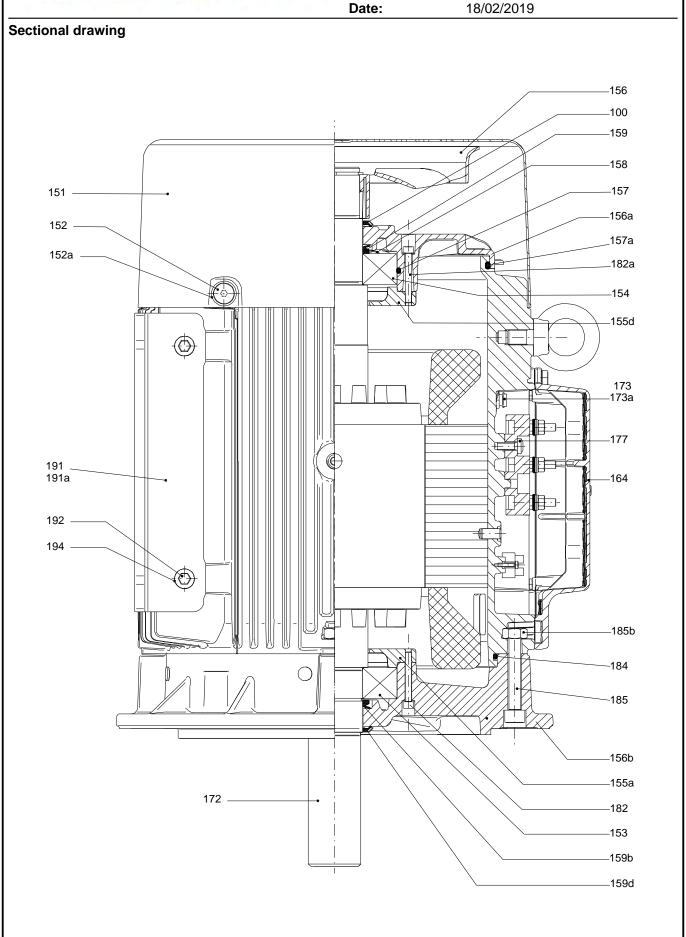
Date: 18/02/2019

Exploded view





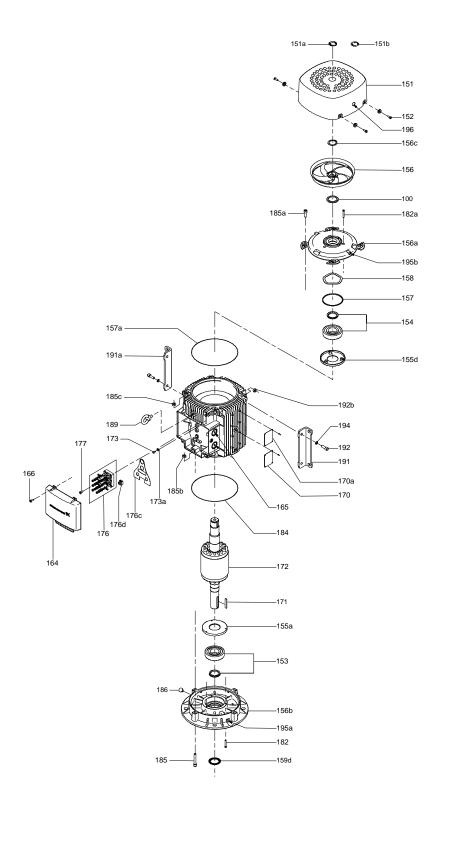
Date:



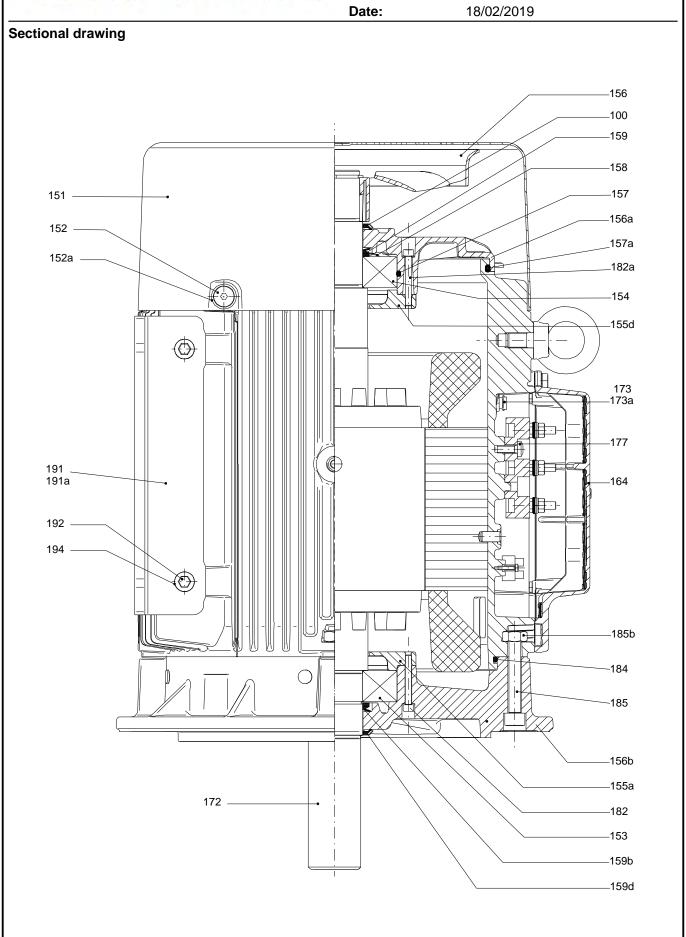


Date: 18/02/2019

Exploded view









Date: 18/02/2019

Spare parts CRN 150-1, Product No. 95922407 Valid from 1.1.2011 (1152)

Pos	Description Base	Aimotation	Classification Data	Part no. 96587699	Qty 1	. Un
	Kit, bearing			96752215		рс
	Adjusting fork			00102210	'	ρυ 1
	Adjusting fork					1
47e	Washer		Internal diameter: D	122		2
476	Washer		Outer diameter: D32			_
47b	Bearing ring, rotating		Outer diameter. D32			1
470	Kit, chamber stack			95059856	1	•
00	· · · · · · · · · · · · · · · · · · ·			93039636	ı	pc 1
80	Chamber stack		Diameter D00			1
	Shaft cpl.		Diameter: D22			
47-	10/k		Length (mm): 420,5			
47e	Washer		Internal dia	meter: D22		
471	D : : : : : : : :		Outer diameter: D32			
47b	Bearing ring, rotating					
51	Pump shaft		Diameter: D)22		
			Length (mm): 420,5			
64c	Spacer ring					
64b	Wedge lock washer					
64b	Lock washer					
64	Spacing bush					
67	Hex nut		Thread: M1	4		
3	Chamber cpl.					
	O-ring		Diameter: 4	2		
			Material type: FKM			
			Thickness: 4			
47	Bearing ring					
7a	Cross recess Pan head screw					
26c	Washer		Designation: DI	N 125A		
			Thickness: 1,6			
26b	Hex socket head cap screw					
26a	Strap cpl.					
44a	Discharge part					
44	Inlet part					
	Inlet part					
45b	Neck ring					
49e	Impeller cpl.					
65a	Retainer					
	Kit, chambers			96751989	1	рс
	Adjusting fork					1
3	Chamber cpl.					1
	O-ring		Diameter: 42			
	- 3		Material type: FKM			
			Thickness: 4			
47	Bearing ring					
	Kit, coupling			96416592	1	рс
	Adjusting fork			220002	-	1
8	Coupling cpl.		Dimension: 22/42			1
9	Hex socket head cap screw		Designation: DI	N 912		•
5	TION SOURCE HEAD CAP SCIEW		Length (mm): 25	14 014		
			Thread: M10			
100	Coupling half		TITIEdu. IVITU			
10a	Coupling half			06505405		
_	Kit, coupling guard			96505135		рс
7a	Socket button head screw					4



Pos	Description	Annotation	Classification Data	Part no.	Qty		Uni
7	Coupling guard					2	
•	Kit, cover			98832448	1		pcs
	Kit, gaskets			95059804	1		pc
	Adjusting fork					1	
	Adjusting fork					1	
37	O-ring					2	
38	O-ring		Diameter: 16,3			4	
			Material type: EPDM				
			Thickness: 2,4				
38	O-ring		Diameter: 16,3			2	
			Material type: EPDM				
			Thickness: 2,4				
60	Spring					4	
109	O-ring					1	
109	O-ring		Material type: EPDM			1	
110	O-ring		· · · · · · · · · · · · · · · · · · ·			1	
110	O-ring		Diameter: 21,5			1	
	3		Material type: EPDM				
			Thickness: 4,25				
	Kit, plug		,,	96505136	1		pcs
18	Air vent screw				•	1	P 0 1
	Spindle					•	
	Plug						
25	Plug					4	
25	Plug					1	
38	O-ring		Diameter: 16,3			2	
30	O-fillig		Material type: FKM			_	
			Thickness: 2,4				
38	O-ring		Diameter: 16,3			4	
30	O-IIIIg		Material type: FKM			4	
			Thickness: 2,4				
38	O ring		Diameter: 16,3			6	
30	O-ring					O	
			Material type: FKM Thickness: 2,4				
20	O win w		Diameter: 16,3			2	
38	O-ring		·			2	
			Material type: EPDM				
			Thickness: 2,4				
38	O-ring		Diameter: 16,3			4	
			Material type: EPDM				
			Thickness: 2,4				
	Kit, shaft			98368854	1		pcs
	Shaft cpl.		Diameter: D22			1	
			Length (mm): 420,5				
47e	Washer		Internal diameter	: D22			
			Outer diameter: D32				
47b	Bearing ring, rotating						
51	Pump shaft		Diameter: D22				
			Length (mm): 420,5				
64c	Spacer ring						
64b	Wedge lock washer						
64b	Lock washer						
64	Spacing bush						
67	Hex nut		Thread: M14				
47e	Washer		Internal diameter: D2	2		2	
			Outer diameter: D32				
47b	Bearing ring, rotating		-			1	
51	Pump shaft		Diameter: D22			1	



Pos 64c	Description Spacer ring	Annotation Classification Data Part no.	Qty.	1
				•
64b	Wedge lock washer			1
64b	Lock washer			1
64	Spacing bush			1
67	Hex nut	Thread: M14		1
	Kit, shaft seal HQQE	96525458		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	95059809	1	рс
	Adjusting fork			1
7a	Cross recess Pan head screw			3
45	Neck ring			1
43 47e	Washer	Internal diameter: D22		2
47 E	vvasilei		•	_
171-	Decile a view veteties	Outer diameter: D32		4
47b	Bearing ring, rotating			1
49c	Wear ring			1
65a	Retainer			1
	Bulk, Gasket (10 pcs)		1	po
	Motor	85904134	1	po
	Kit, bearing cpl.	967966	76	1
	Kit, bearing plate	967966	64	1
155.a	Bearing cover			
208a	Gasket			
208	Hex socket head cap screw	Designation: DIN912		
	I Solice	Length (mm): 40		
		Thread: M5		
	Kit, eyebolt	967967	12	1
189		301301	12	
109	Eyebolt	007000	- 4	,
	Kit, fan	967966	54	1
156.c	Retaining ring			
156	Fan			
	Kit, fan cover	967966	47	1
151	Fan cover			
152.a	Rubber bush			
152	Hex head cap screw			
196	Diaphragm			
	Kit, flange	967966	62	1
156.b	Flange			
159.b	Seal ring			
185.b	Nut			
185	Hex socket head cap screw			
186	•			
195.a	Drain plug			
195.8	Grease nipple	00=00=	20	4
	Kit, gaskets	967985	JR .	1
184	O-ring	Diameter: 235		
	Kit, lubrication nipple	967966	71	1
195.b	Grease nipple			
195.a	Grease nipple			
	Kit, ND-end shield cpl.	967966	69	1
32b	Waved washer			
156.a	End shield NDE			
157	O-ring			



Pos 185.c	Description	Annotation Classification Data Part no. Qty	/. U
	Nut		
185.a	Hex socket head cap screw		
195.b	Grease nipple	00040450	_
	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		
273a	Pan head thread forming screv	V	
	Motor	85904034 1	р
	Kit, bearing cpl.	96796676	1
	Kit, bearing plate	96796664	1
155.a	Bearing cover		
208a	Gasket		
208	Hex socket head cap screw	Designation: DIN912	
		Length (mm): 40	
		Thread: M5	
	Kit, eyebolt	96796712	1
189	Eyebolt		
	Kit, fan	96796654	1
156.c	Retaining ring		
156	Fan		
	Kit, fan cover	96796647	1
151	Fan cover	00100011	•
152.a	Rubber bush		
152.4	Hex head cap screw		
196	Diaphragm		
100	Kit, flange	96796662	1
156.b	Flange	90790002	'
150.b	-		
185.b	Seal ring Nut		
185	Hex socket head cap screw		
186 195.a	Drain plug		
เชอ.ล	Grease nipple	00700500	1
104	Kit, gaskets	96798508	1
184	O-ring	Diameter: 235	,
405 '	Kit, lubrication nipple	96796671	1
195.b	Grease nipple		
195.a	Grease nipple	^	
001	Kit, ND-end shield cpl.	96796669	1
32b	Waved washer		
156.a	End shield NDE		
157	O-ring		
159	V-ring		
185.c	Nut		
185.a	Hex socket head cap screw		
195.b	Grease nipple		
	Kit, shaft seal	96843459	1
450 b	V-ring		
159.b	·9		



	Pos	Description	Annotation	Classification Data	Part no.		. Un
		Kit, terminal board			967966	5/	1
		Terminal connection					
		Washer					
	36	Hex nut					
	173	Torx Screw					
	176.d	Terminal board					
	176	Terminal board					
	177	Torx Screw					
		Kit, terminal box cover			967966	59	1
	164	Terminal box cover					
	273a	Pan head thread forming screw					
	1a	Motor stool			98993921	1	рс
	2	Pump head			97789459		рс
	6	Base			97974018		рс
	7a	Bulk, Socket button head screw (10 pcs)			96549696		рс
	7	Bulk, Coupling guard (10 pcs)			96603279		рс
	8	Coupling cpl.		Dimension: 22/42	96587704		
_		· - ·		Diffiction. 22/42			pc
	18	Bulk, Air vent screw (5 pcs)			96547461		рс
	18	Air vent screw			95061351		рс
	25	Bulk, Plug (10 pcs)		<u> </u>	96536013		рс
	26c	Bulk, Washer (4 pcs)		Designation: DIN 125A	99262704	4	рс
				Thickness: 1,6			
	26c	Washer		Designation: DIN 125A	96586880	4	рс
				Thickness: 1,6			
	26b	Bulk, Hex socket head cap screw (10 pcs)			98931380	4	рс
	26a	Strap cpl.			98984443	4	рс
	26	Staybolt		Length (mm): 434,5	98976647	4	рс
				Thread: M16			
	28.a	Bulk, Hex head screw (20 pcs)			96620478	4	рс
	28	Bulk, Hex socket head cap screw (10 pcs)		Designation: DIN 912	96536147		рс
		(р)		Length (mm): 50			
				Thread: M10			
	32	Bulk, Washer (100 pcs)		Designation: DIN 125 A	08023051	Ω	рс
	32	buik, Washer (100 pcs)		Internal diameter: 17	90923031	0	рс
				Outer diameter: 30			
	00	D. II. 11 (00)		Thickness: 3	00000400		
	36	Bulk, Hex nut (20 pcs)		Thread: M16	96620480		рс
	38	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815	2	рс
				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	рс
	49e	Bulk, Impeller cpl. (5 pcs)			96915630		pc
	49e	Impeller cpl.			96903236		рс
	55	Outer sleeve		Outer diameter: 225	99046895		рс
	55	2		Length (mm): 229	300-10000	•	PC
	56b	Base plate		Longui (IIIII). 223	99048161	1	no
	56				97789433		pc
		Base plate					pc
	58	Cover			98893158		рс
	60	Bulk, Spring (20 pcs)			96536032		рс
	65a	Retainer			98461640		рс
	105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984086		рс
		Adjusting fork			965878		1
	109	Bulk, O-ring (10 pcs)			965475	86	1
	105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984070	1	рс



Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
440b	Bulk, Lock ring (4 pcs)			96547435	1	pcs