

18/02/2019

Qty. | Description

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CRN 120-4-1 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 95922186

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. 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.

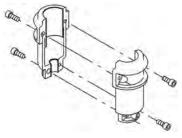
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.

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.

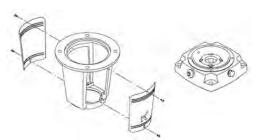


The motor stool connects the pump head and motor. The pump head has a combined 1/2" priming plug and vent screw.



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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.

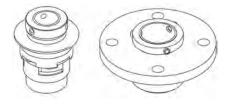
Primary seal:

- 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)

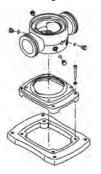
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



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
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Liquid:

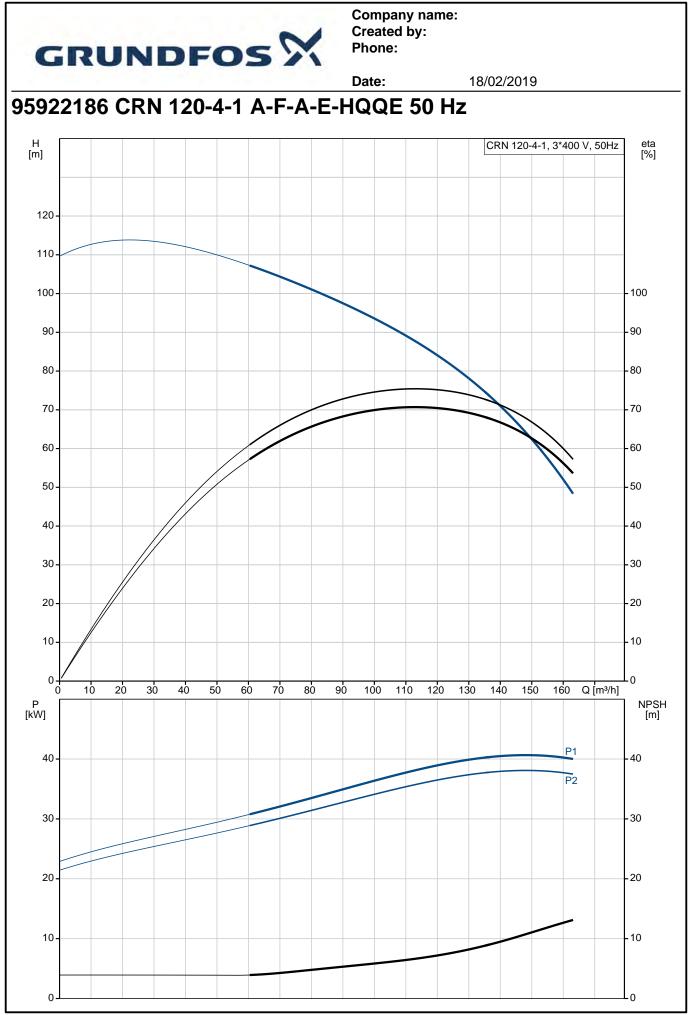
Pumped liquid:	Water
Liquid temperature range:	-40 120 °C
Liquid temperature during	operation: 20 °C
Density:	998.2 kg/m³

Technical:

Pump speed on which pump dat Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance:	a are based: 2957 rpm 120 m³/h 82.4 m Vertical Single HQQE CE, EAC,ACS ISO9906:2012 3B
Materials: Base:	Stainless steel EN 1.4408 AISI 316
Impeller:	Stainless steel EN 1.4401 AISI 316
Bearing: Support bearing:	SIC Graflon
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:	55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connect Flange size for motor:	DIN DN 125 DN 125
Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current:	IEC SIEMENS IE3 37 kW 37 kW 50 Hz 3 x 380-420D/660-725Y V 68,0-63,0/39,0-36,0 A



		Date:	18/02/2019	
Description				
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			
Others:				
Minimum efficiency index, ME				
Net weight:	392 kg			
Gross weight:	469 kg			
Shipping volume:	1.32 m³			



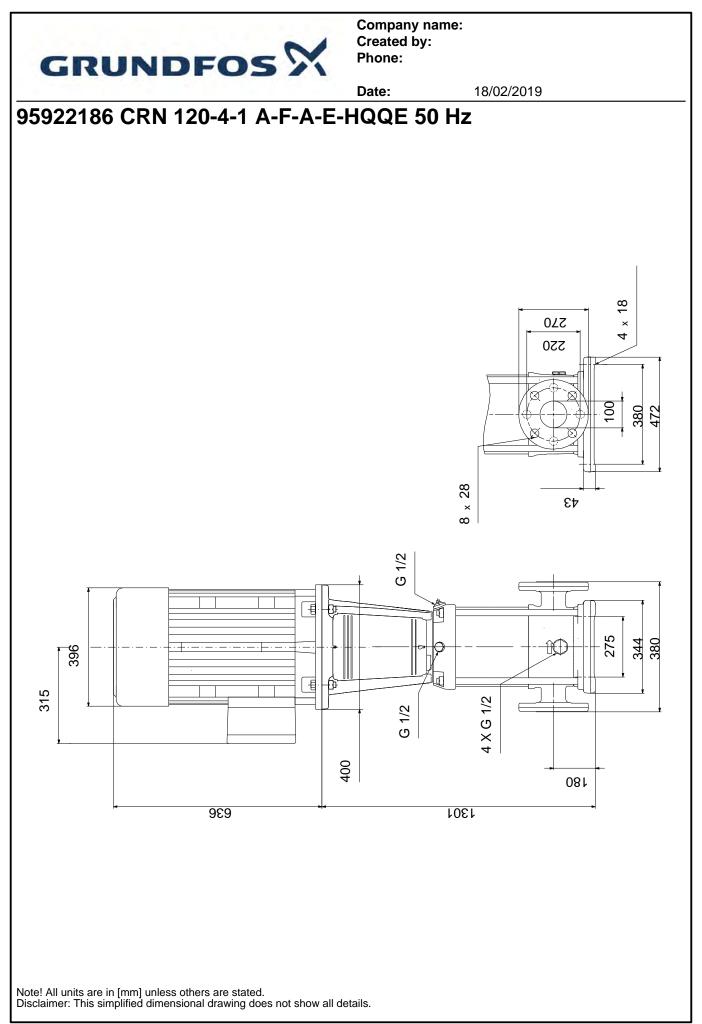


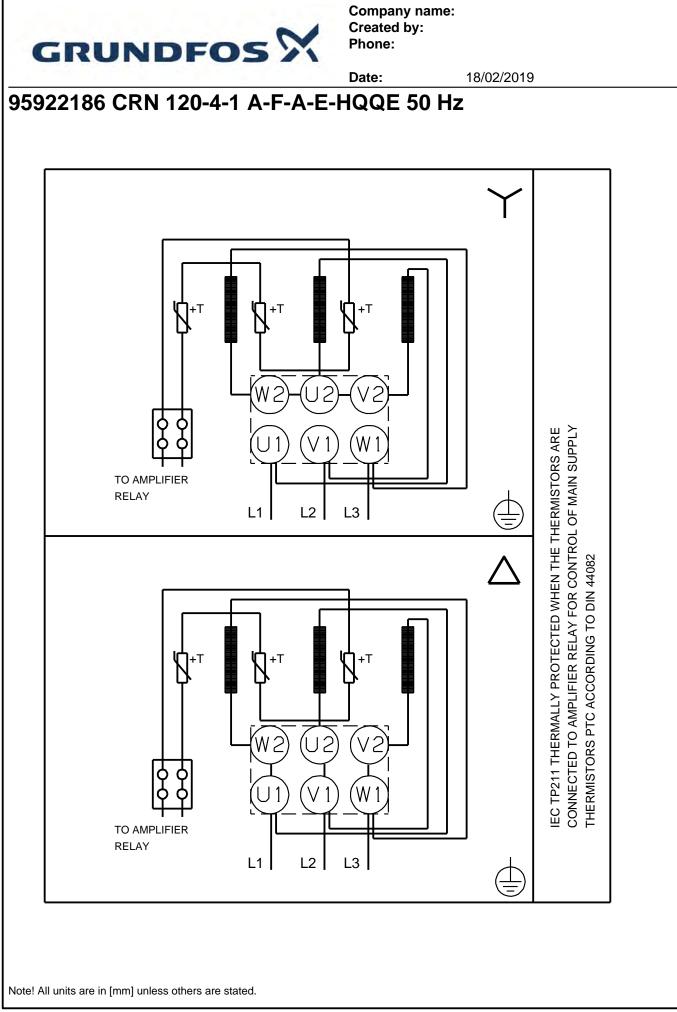
Description Value General Information: CRN 120-4-1 ArF-A-E-HOQE 6952/166 EAN number: 5700338933956 Technical: 2957 rpm Rated How: 120 m/h Rated How: 120 m/h Rated How: 120 m/h Rated How: 103.1 m Stages: 4 Impoliers: 4 Number of reduced-diameter impellers: 1 Low NPSH: N Pump version: A Approvals on nameplate: 100/e Code for shaft seal arrangement: 51/2/2/2 Materials: 10 Base: 10/0/e Alsi/316 10/0/e Alsi/316 10/0/e Materials: 10/0/e Base: S1/2/e Stapes tarrangement: 10/0/e Alsi/316 10/0/e Materials: 10/0/e Base: S1/2/e Stapes tarrangement: 0/0/e Materials: 10/0/e Base: S1/2/e Stape for had	GRUNDF		Date:	18/02/2019
General Information: CRN 12D-4-1 Product No: 95922169 Product No: 95922169 Product No: 95922169 Parts of pedicon 5700838933956 Technical: 9257 rpm Based 120 m/h Rated flow: 120 m/h Rated head: 82.4 m Head max: 108.1 m Stages: 4 Number of reduced-diameter impellers: 1 Low NPSH: N Pump orientation: Vertical Shaft seal: HOQE Approvals on nameplate: CE, EAC,ACS Curve tolerance: ISO9006:2012 38 Pump version: A Modal: A Materials: Base: Base: Stainless steel EN 1.4403 AlSI 316 Installation: Bob bar / 120 °C Max prosesure at stated temp: 30 bar / 120 °C Type of connection: DN 125 Pressure atstated temp: 30 bar / 120 °C Type of connection: DN 125 Pressure atstated temp: 30 bar	Description	Value		CRN 120-4-1, 3*400 V, 50Hz eta [%]
Product name: CFN 120-41 A F-F-E-HOQE Product No: 05602166 EXN number: 570083893956 Technical:		Value		
Product No: 95822186 EAN number: 570083833956 Technical: Pump speed on which pump data are based: 267 rpm Rated flow: 120 m³/h Rated flow: 120 m³/h Rated flow: 120 m³/h Rated flow: 120 m³/h Rated flow: 4 Impeliers: 4 Low NPSH: N Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQO2E Approvals on maneplate: EN 1.4408 Approvals on maneplate: Base: EStainless steel Base: EN 1.4406 AISI 316 Impelier: Stainless steel Base: Stainless steel Base: EN 1.4406 AISI 316 Impelier: Stainless steel Base: Stainless steel Base: Stainless steel Code for rubber: E Base: Stainless steel Base: Stainless steel Date: A Raterial code: A ASI 316 Impelier: DIN Size of inde connection: DN 125 Size of outer connection: PI 120 °C Density: Between Stellemen Stainless Steel Funded temperature during operation: 20 °C Density: Between Stellemen Stainless Steel Funded temperature during operation: 20 °C Density: Between Stellemen Standard: EC Extend ata: Motor type: Stelemen Stellemen Standard: EC Connect Standard: EC Connect Standard: EC Connect Standard: Standard: Steel Steelemen Standard: Steelemen Standard: Stan				
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based: 290 fplm Rated flow: 120 m/h Rated head: 82.4 m Head max: 108.1 m Stages: 4 Impellers: 4 Low NPSH: N Pump orientation: Vertical Shaft seal arragement: Single Code for shaft seal: HQOE Approvals on nameplate: CE, EAC, ACS Curve tolerance: ISO9906:2012 3B Pump version: A Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: E Baser: Stainless steel EN 1.4401 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: E Bearing: SiC Support bearing: Grafion Installation: Maximum ambient temperature: 55 °C Maximum operating pressure: 30 bar / 120 °C Type of connection: DN 125 Size of oullet connection: PF 350 Connect code: F Liquid temperature fange: -40120 °C Density: 998.2 Kg/m ³ Electrical data: Motor type: SELMENS	Technical:		90 -	90
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Head max: 108.1 m Stages: 4 Impellers: 4 Number of reduced-diameter impellers: 1 Low NPSH: N Pump orientation: Vertical Shaft seal: HQQE Approvals on nameplate: CE, EAC ACS Curve tolerance: ISO9906:2012 38 Model: A Model: A Model: A Materials: Base: Stainless steel EN 1.4401 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: E Bearing: SiC Support bearing: Grafion Installation: Type of connection: DN 125 Size of unite connection: DN 125 Pressure rating for pipe connection: PN 40 Flange size for motor: FF350 Connect code: F Liquid temperature range: 40120 °C Liquid temperature range:	Rated flow:	120 m³/h	70 -	70
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: ISO9096.2012 3B Pump version: A Model: A Model: A Model: A Model: E Base: Stainless steel EN 1.4401 AISI 316 Impeller: EN 1.4408 AISI 316 Impeller: Biainless steel EN 1.4401 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Impeller: F E Bearing: SIC Support bearing: Grafton Installation: DIN Size of unite connection: DN 125 Pressure rating for pipe connection: PN 40 Flange size for motor: FF350 Connect code: F Liquit emperature range: 40120 °C Liquit emperature range: 40120 °C Liquit emperature range: 40120 °C Liquit emperature range: 40120 °C Density: 998.2 kg/m ² Electrical data: Motor standard: IEC Motor standard: IEC	Rated head:	82.4 m	60 -	60
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Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQOE Approvals on nameplate: CE, EAC,ACS Curve tolerance: ISO9906:2012 3B Pump version: A Materials: Base: Stainless steel AlSI 316 Impeller: Stainless steel AlSI 316 Impeller: Stainless steel AlSI 316 Impeller: Stainless steel AlSI 316 Impeller: Stainless steel AlSI 316 Material code: A Code for rubber: E Bearing: SIC Support bearing: Graflon Installation: Max pressure at stated temp: 30 bar / 140 °C Type of connection: DN 125 Size of nutlet connection: DN 125 Size of outlet connection: DN 125 Pressure rating for pipe connection: PI A0 Connect code: F Liqudi temperature range: -40 120 °C Liquid temperature range: -40	Low NPSH:	Ν		
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Maximum operating pressure:30 barMax pressure at stated temp:30 bar / 120 °C30 bar / -40 °C30 bar / -40 °CType of connection:DINSize of inlet connection:DN 125Size of outlet connection:DN 125Pressure rating for pipe connection:PN 40Flange size for motor:FF350Connect code:FLiquid:WaterLiquid temperature range:-40 120 °CLiquid temperature range:-40 120 °CLiquid temperature during operation:20 °CDensity:998.2 kg/m³Electrical data:Motor standard:Motor standard:IECMotor type:SIEMENS				
Max pressure at stated temp:30 bar / 120 °C30 bar / -40 °CType of connection:DINSize of inlet connection:DN 125Size of outlet connection:Pressure rating for pipe connection:PN 40Flange size for motor:FF350Connect code:Eliquid:Pumped liquid:Uiquid temperature range:-40 120 °CLiquid temperature during operation:20 °CDensity:998.2 kg/m³Electrical data:Motor standard:IECMotor type:SIEMENS	Maximum ambient temperature:			
30 bar / -40 °CType of connection:DINSize of inlet connection:DN 125Size of outlet connection:DN 125Pressure rating for pipe connection:PN 40Flange size for motor:FF350Connect code:FLiquid:WaterLiquid temperature range:-40 120 °CLiquid temperature range:-40 120 °CLiquid temperature during operation:20 °CDensity:998.2 kg/m³Electrical data:IECMotor standard:IECMotor type:SIEMENS	Maximum operating pressure:			
Size of inlet connection:DN 125Size of outlet connection:DN 125Pressure rating for pipe connection:PN 40Flange size for motor:FF350Connect code:FLiquid:VaterPumped liquid:WaterLiquid temperature range:-40 120 °CLiquid temperature during operation:20 °CDensity:998.2 kg/m³Electrical data:IECMotor standard:IECMotor type:SIEMENS		30 bar / -40 °C		. <u>112</u>
Size of nuller connection: DN 125 Pressure rating for pipe connection: PN 40 Flange size for motor: FF350 Connect code: F Liquid: Pumped liquid: Pumped liquid: Water Liquid temperature range: -40 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: SIEMENS				8 28
Pressure rating for pipe connection: PN 40 Flange size for motor: FF350 Connect code: F Liquid: Water Liquid temperature range: -40 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: SIEMENS				
Flange size for motor: FF350 Connect code: F Liquid: Pumped liquid: Pumped liquid: Water Liquid temperature range: -40 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: SIEMENS			╴╶╶╎╻┍╾╻┠╣╲╈╤┤┠╢	
Connect code: F Liquid: Water Pumped liquid: Water Liquid temperature range: -40 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: IEC Motor standard: IEC Motor type: SIEMENS				
Liquid: Water Liquid temperature range: -40 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: IEC Motor standard: IEC Motor type: SIEMENS	-		275 344 380	4 x 18 472
Pumped liquid: Water Liquid temperature range: -40 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: IEC Motor standard: IEC Motor type: SIEMENS		•		
Liquid temperature range: -40120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: IEC Motor standard: IEC Motor type: SIEMENS	-	Water	_	~
Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: IEC Motor standard: IEC Motor type: SIEMENS			-	
Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: SIEMENS				
Electrical data: Motor standard: IEC Motor type: SIEMENS			-	\$ ^{+*} ■
Motor standard: IEC Motor type: SIEMENS				
F3		IEC		Contraction
F3			TO AMPLIFIER RELAY L1 L2 L	
			-	
Rated power - P2: 37 kW				
Power (P2) required by pump: 37 kW			B+⊤ B+⊤ ¢	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
Mains frequency: 50 Hz				
Names nequency: So nz Rated voltage: 3 x 380-420D/660-725Y		3 x 380-420D/660-725Y	· · · · · · · · · · · · · · · · · · ·	
Rated current: 68,0-63,0/39,0-36,0 A	Rated current:	68,0-63,0/39,0-36,0 A	RELAY L1 L2 L	

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Date: 18/02/2019 Description Value 670-670 % Starting current: 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 PTC Motor protec: Motor No: 81U15334 Controls: NONE Frequency converter: Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 392 kg Gross weight: 469 kg Shipping volume: 1.32 m³

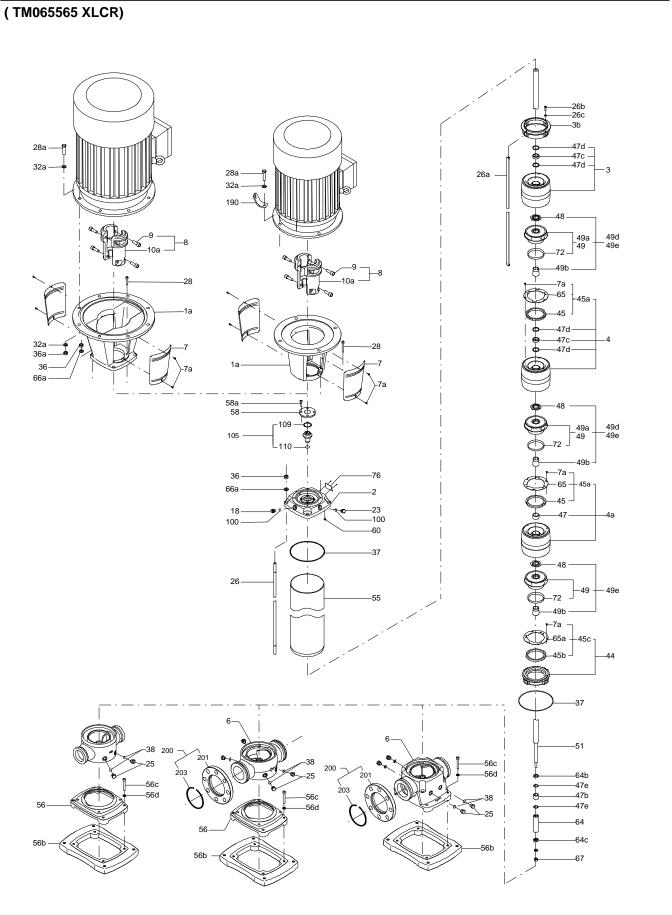






18/02/2019

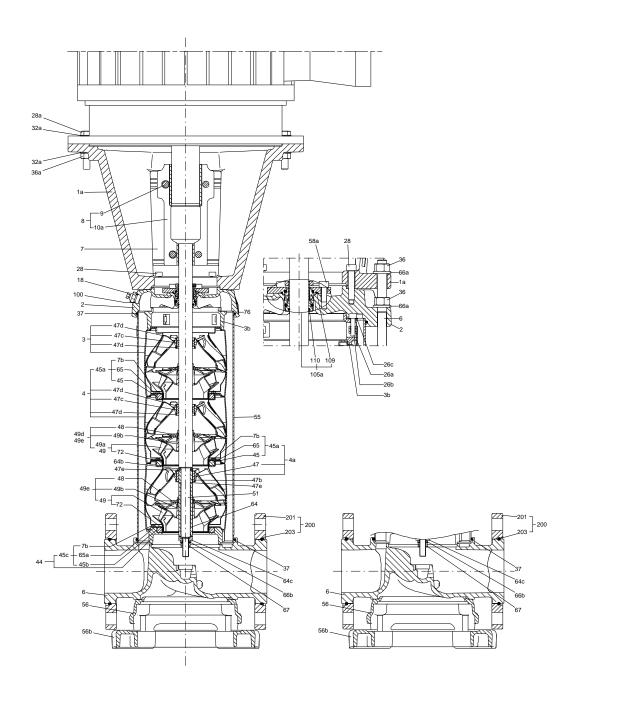
Date:





18/02/2019

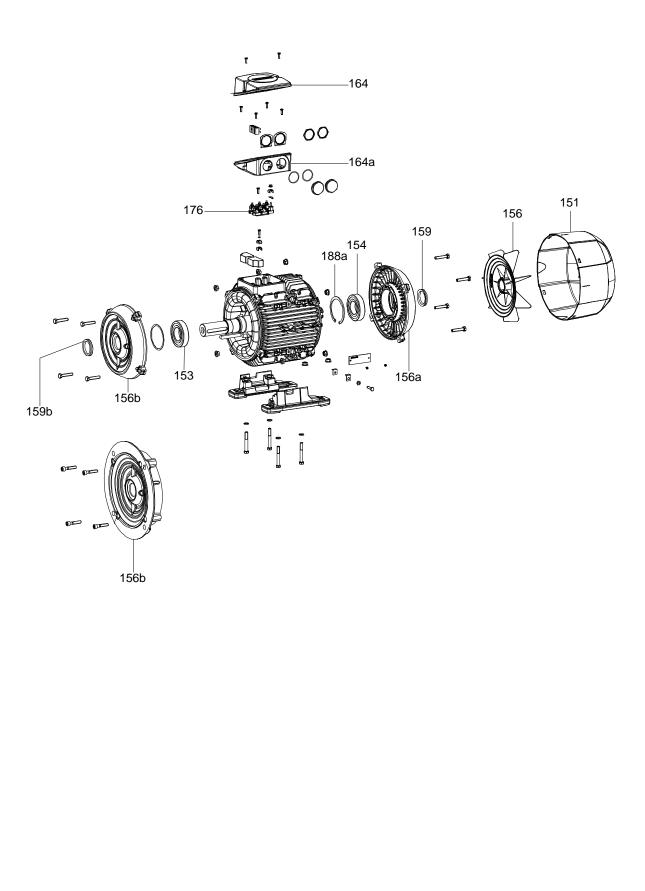
(TM065579 XLCR)



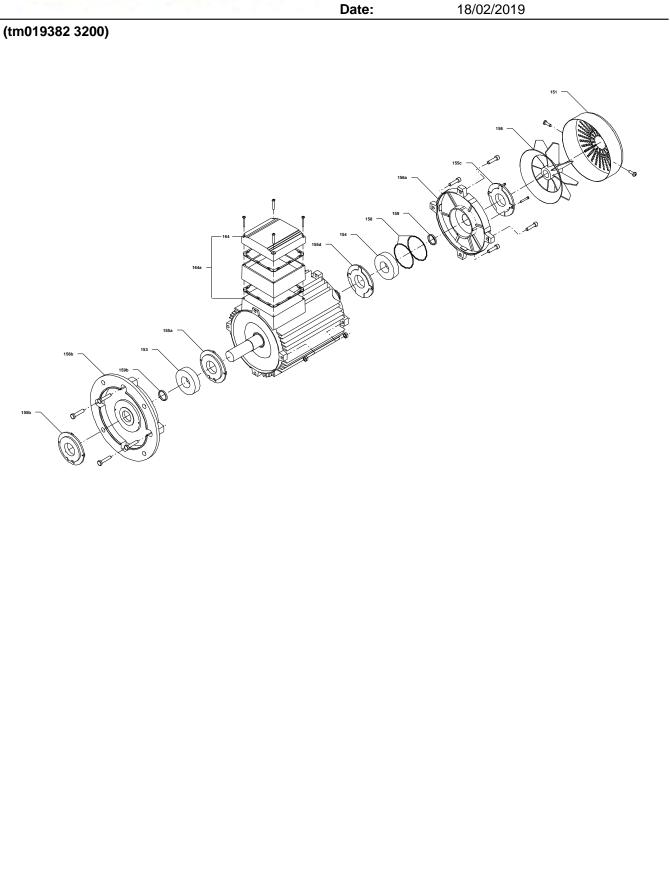


18/02/2019









TM01



18/02/2019

Spare parts CRN 120-4-1, Product No. 95922186 Valid from 31.3.2011 (1113)

	Pos	Description	Annotation	Classification Data	Part no.	Qty	
t		Base			96587699		pcs
		Kit, bearing			96752215	1	pcs
		Adjusting fork					1
		Adjusting fork					1
	47e	Washer		Internal diameter: D	22		2
				Outer diameter: D32			
	47b	Bearing ring, rotating					1
-		Kit, chamber stack			95059836	1	pcs
-	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		0 ()			
	64b	Wedge lock washer					
	64b	Lock washer					
	64	Spacing bush					
	67	Hex nut		Thread: M1	4		
-	-	Chamber cpl.					
	47d	Locking ring					
-	47c	Bush					
	4a	Chamber cpl.					
		O-ring		Diameter: 4	2		
		cg		Material type: FKM	_		
				Thickness: 4			
	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 125A		
	200	Walter		Thickness: 1,6	1200		
	26b	Hex socket head cap screw		THOM1000. 1,0			
	260 26a	Strap cpl.		Length (mm): 67	72		
	20a 44a	Discharge part		Lengui (min). O	-		
_	44a 44	Inlet part					
	45b	Inlet part Seal ring					
_	49b						
-		Impeller cpl.					
	48b	Split cone					
	48	Split cone nut		T	IN <i>A</i>		
-	49a	Impeller, reduced diameter		Type: A-TR	IIVÍ		
	49c	Wear ring					
-	49e	Impeller cpl.					



Pos	Description	Annotation	Classification Data	Part no.	Qtv	Unit
48	Split cone nut	Annotation	Siassification Data		wiy.	Unit
49b	Split cone					
49	Impeller					
49c	Wear ring					
65a	Retainer					
	Kit, chambers			96751983	1	pcs
	Adjusting fork			00101000	. 1	•
	Adjusting fork				1	
4a	Chamber cpl.				1	
τu	O-ring		Diameter: 42		•	
	C mg		Material type: FKM			
			Thickness: 4			
7a	Cross recess Pan head screw					
45	Neck ring					
47	Bearing ring					
65	Retainer					
00	Kit, coupling			96416594	1	pcs
	Adjusting fork			30410334	1	•
8	Coupling cpl.		Dimension: 22/55		1	
9	Hex socket head cap screw		Dimension: 22/33 Designation: D	IN 012	•	
3	The socket head cap screw		Length (mm): 25	111 312		
			Thread: M10			
10a	Coupling half		micad. Wro			
TUU	Kit, coupling guard			96505135	1	pcs
7a	Socket button head screw			30303133	4	•
7a 7	Coupling guard				2	
,	Kit, cover			98832448		pcs
	Kit, gaskets			95059804		pcs
	Adjusting fork			33033004	1	
	Adjusting fork				1	
37	O-ring				2	
38	O-ring		Diameter: 16,3		4	
30	0-mig		Material type: EPDM		4	
			Thickness: 2,4			
38	O-ring		Diameter: 16,3		2	
50	O-fillig		Material type: EPDM		2	
			Thickness: 2,4			
60	Spring		THICKI1633. 2,4		4	
109	O-ring				4	
109	O-ring		Material type: EPD	NA	1	
109	O-ring		material type. EPL	111	1	
110	O-ring		Diameter: 21,5		1	
110			Material type: EPDM		I	
			Thickness: 4,25			
	Kit, plug		1 HOMICOS. 7,20	96505136	1	pcs
18	Air vent screw			50505150	1	•
10	Spindle				I	
	Plug					
25	Plug				4	
25 25	Plug				4	
			Diamotor: 16.2		2	
38	O-ring		Diameter: 16,3		2	
			Material type: FKM			
20	O ring		Thickness: 2,4			
38	O-ring		Diameter: 16,3		4	
			Material type: FKM			
20			Thickness: 2,4		~	
38	O-ring		Diameter: 16,3		6	
			Material type: FKM			



Pos	Description	Annotation	Classification Data	Part no.	Qtv	. Uni
			Thickness: 2,4			
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			
	Kit, shaft			98368859	1	pcs
	Shaft cpl.		Diameter: D22			1
	•		Length (mm): 887			
47e	Washer		Internal diamet	ter: D22		
			Outer diameter: D32			
47b	Bearing ring, rotating					
51	Pump shaft		Diameter: D22			
			Length (mm): 887			
64c	Spacer ring		0 ()			
64b	Wedge lock washer					
64b	Lock washer					
64	Spacing bush					
67	Hex nut		Thread: M14			
47e	Washer		Internal diameter: I	022		2
			Outer diameter: D32			
47b	Bearing ring, rotating					1
51	Pump shaft		Diameter: D22			1
			Length (mm): 887			
64c	Spacer ring		0 ()			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	1	pcs
	Grinding device					1
105	Shaft seal		Material type: HQC	2E		1
	Adjusting fork		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
109	O-ring					
110	O-ring		Diameter: 21,5			
	- 3		Material type: EPDM			
			Thickness: 4,25			
	Kit, wear parts			95059807	1	pcs
	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: I	D22		2
			Outer diameter: D32			
47d	Locking ring					6
47c	Bush					3
47b	Bearing ring, rotating					1
49c	Wear ring					4
65a	Retainer					1
65	Retainer					3
	Bulk, Gasket (10 pcs)			99158755		pcs
	Chamber cpl.			98371390		pcs
	Motor				1	pcs
156	Kit, fan			980622		•
				980622		
151	Kit, fan cover			980h77	15	



Pos	Description	Annotation Classification Data	Part no. Qt	y. Unit
	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 box		98062262	
10-10	Motor		1	pcs
153	Angular-contact bearing	Designation: 7312B	00ID0375	1
155b		Designation. 7312B		
	Bearing cover		96474946	1
155d	Bearing cover			1
158	Corrugated spring		96474950	
156a	End shield			1
156b	End shield		96474949	
156	Fan		96474947	1
151	Fan cover		96609659	1
176	Terminal board cpl.		96476440	1
164	Terminal box cover		98642779	1
164a	Terminal box cpl.		98642732	1
159	V-ring		96474952	1
154	Ball bearing	Designation: 6312.C3	3 98466129	1
1a	Motor stool		98967671 1	pcs
2	Pump head		97789459 1	pcs
4	Chamber cpl.		98371391 2	pcs
6	Base		97974018 1	pcs
7a	Bulk, Socket button head screw (10 pcs)		96549696 4	pcc
7	Bulk, Coupling guard (10 pcs)		96603279 2	
18	Bulk, Air vent screw (5 pcs)		96547461 1	pcs
				pcs
18	Air vent screw		95061351 1	pcs
25	Bulk, Plug (10 pcs)		96536013 1	pcs
26c	Bulk, Washer (4 pcs)	Designation: DIN 125A	99262704 4	pcs
		Thickness: 1,6		
26c	Washer	Designation: DIN 125A	96586880 4	pcs
		Thickness: 1,6		
26b	Bulk, Hex socket head cap screw (10 pcs)		98931380 4	pcs
26a	Strap cpl.	Length (mm): 672	98984446 4	pcs
26	Staybolt	Length (mm): 901	98976649 4	pcs
		Thread: M 16		
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)		98923051 8	pcs
		Internal diameter: 17		F
		Outer diameter: 30		
		Thickness: 3		
36	Bulk, Hex nut (20 pcs)	Thread: M16	96620480 4	nce
				pcs
38	Bulk, O-ring (10 pcs)	Diameter: 16,3	99198815 2	pcs
		Material type: EPDM		
0 -		Thickness: 2,4	00110-00	
38	Bulk, O-ring (50 pcs)	Diameter: 16,3	99412727 2	pcs
		Material type: EPDM		
		Thickness: 2,4		
44a	Discharge part		99052574 1	pcs
44	Inlet part		99106112 1	pcs
49e	Impeller cpl.		96907105 1	pcs
49c	Wear ring		96551238	
49e	Bulk, Impeller cpl. (3 pcs)		98394377 3	pcs
48	Bulk, Split cone nut (10 pcs)		96551333	



				Date:	18/02/2019		
P	Pos	Description	Annotatio	n Classification Data	Part no.	Qty.	Unit
- 4	19	Impeller			965916	609	1
4	19c	Wear ring			96	55123	38
+ 4	19e	Impeller cpl.			96903234	3	pcs
5	55	Outer sleeve		Outer diameter: 225	99046896	1	pcs
				Length (mm): 695,5			
5	56b	Base plate			99048161	1	pcs
5	56	Base plate			97789433	1	pcs
5	58	Cover			98893158	1	pcs
6	60	Bulk, Spring (20 pcs)			96536032	4	pcs
6	65a	Retainer			98461640	1	pcs
- 1	105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984086	1	pcs
		Adjusting fork			965878	396	1
1	09	Bulk, O-ring (10 pcs)			965475	586	1
+ 1	05	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984070	1	pcs
4	140b	Bulk, Lock ring (4 pcs)			96547435	1	pcs