

16/02/2019

Description

Qty.

1

CRN 20-10 A-P-A-E-HQQE



Product No.: 96500565

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 PJE (Victaulic®) couplings.

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:

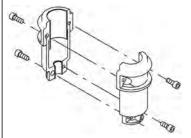
1) Alkaline-based cleaning.

- 2) Zinc phosphating.
- Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.

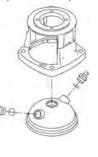
The colour code for the finished product is NCS 9000/RAL 9005.

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 pump head and flange for motor mounting is made in one piece (cast iron). The pump head cover is a separate component (stainless steel). The pump head has a combined 1/2" priming plug and vent screw.





Date:

16/02/2019

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 screwed into the pump head.

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. The outlet side of the base has a drain plug. The pump is secured to the foundation by four bolts through the base plate. The base is prepared for connection by means of PJE (Victualic®) couplings.



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.

Technical data

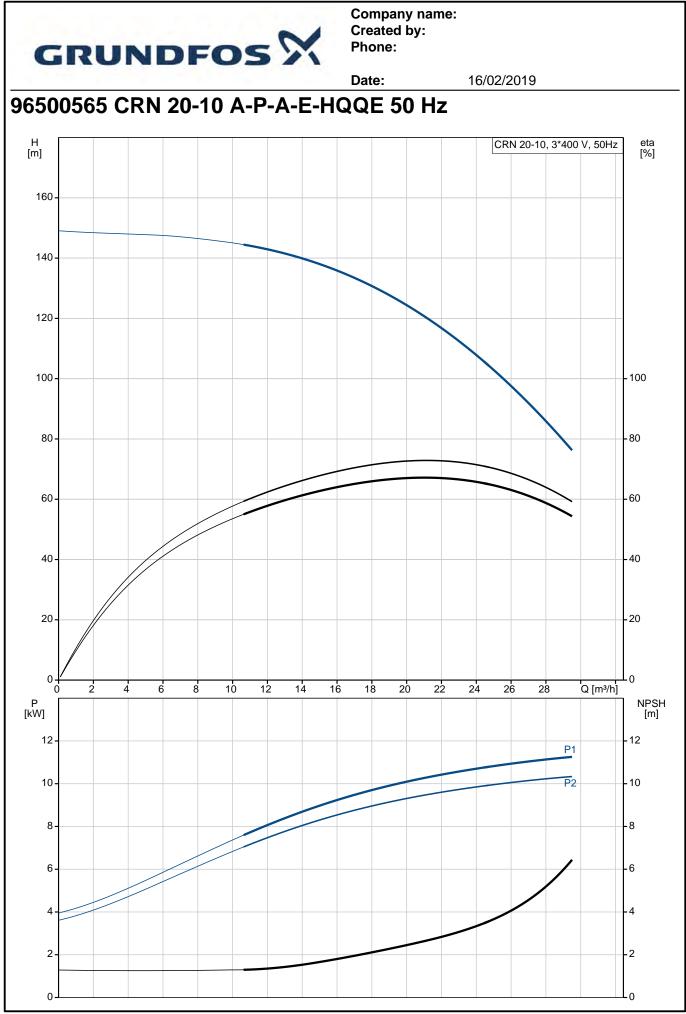
Controls: Frequency converter: NONE



			Date:	16/02/2019	
<i>.</i>	Description				
	Liguid:				
	Pumped liquid:	Water			
	Liquid temperature range:	-20 120 °C			
	Liquid temperature during opera	tion: 20 °C			
	Density:	998.2 kg/m ³			
	Technical:				
	Pump speed on which pump dat		4 rpm		
	Rated flow:	21 m³/h			
	Rated head:	118 m			
	Pump orientation:	Vertical			
	Shaft seal arrangement:	Single			
	Code for shaft seal:	HQQE			
	Approvals on nameplate:	CE, EAC,ACS			
	Curve tolerance:	ISO9906:2012 3E	3		
	Materials:				
	Base:	Stainless steel			
	2000.	EN 1.4408			
		AISI 316			
	Impeller:	Stainless steel			
		EN 1.4401			
		AISI 316			
	Bearing:	SIC			
	Doamig.				
	Installation:				
	Maximum ambient temperature:				
	Maximum operating pressure:	25 bar			
	Max pressure at stated temp:	25 bar / 120 °C			
		25 bar / -20 °C			
	Type of connection:	PJE			
	Size of inlet connection:	DN 50			
		2 inch			
	Size of outlet connection:	DN 50			
		2 inch			
	Pressure rating for pipe connect	ion: PN 50			
	Flange size for motor:	FF300			
	Electrical data:				
	Motor standard:	IEC			
		160MB			
	Motor type:				
	IE Efficiency class:				
	Rated power - P2:	11 kW			
	Power (P2) required by pump:	11 kW			
	Mains frequency:	50 Hz			
	Rated voltage:	3 x 380-415D/660			
	Rated current:	20,8-19,8/12,0-11	,8 А		
	Starting current:	660-780 %			
	Cos phi - power factor:	0.88-0.84			
	Rated speed:	2940-2950 rpm			
	Efficiency:	IE3 91,2%			
	Motor efficiency at full load:	91.2-91.2 %			
	Motor efficiency at 3/4 load:	91.8 %			
	Motor efficiency at 1/2 load:	91.3 %			
	Number of poles:	2			
	Enclosure class (IEC 34-5):	55 Dust/Jetting			
	Insulation class (IEC 85):	F			
	Others:				
	i de la constante de				



			Date:	16/02/2019	
Qty.	Description				
Qty.	Description Minimum efficiency index Net weight: Gross weight: Shipping volume: Danish VVS No.:	, MEI ≥: 0.70 142 kg 170 kg 0.488 m³ 385915100	Date:	16/02/2019	



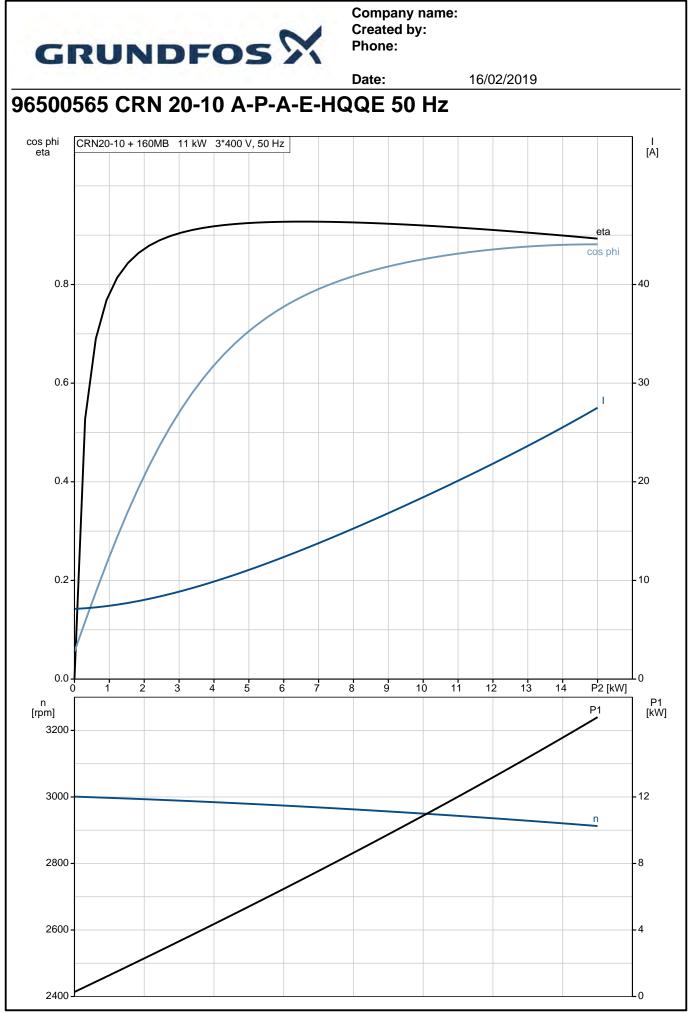


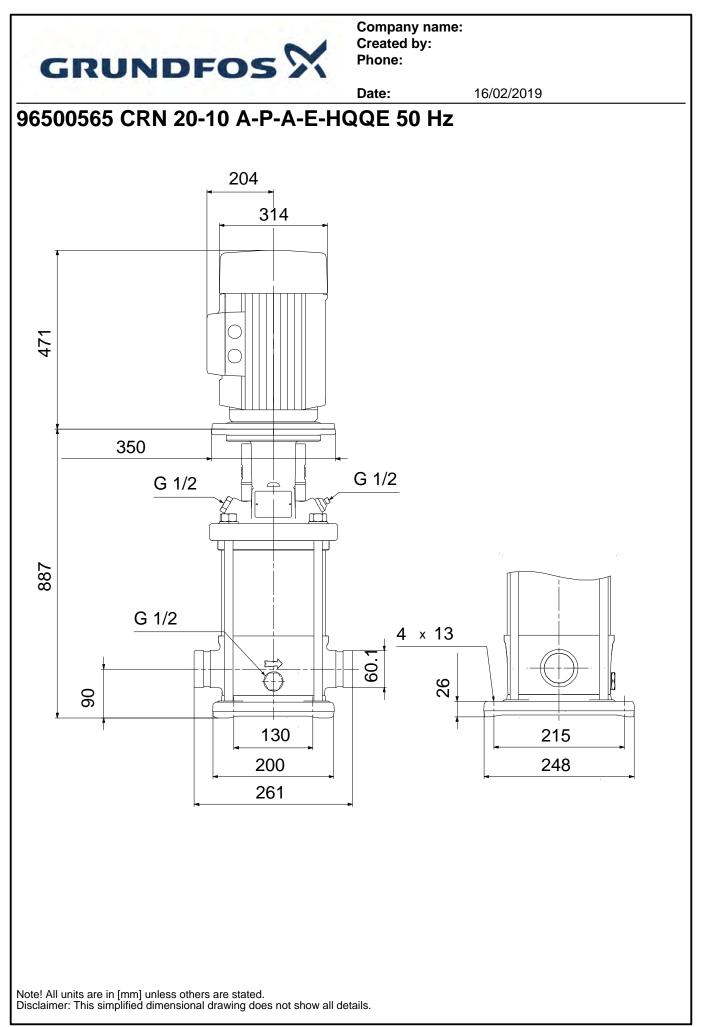
		Date:	16/02	/2019	
Description	Value	H [m]		CRN 20-10, 3*400 V, 50Hz	eta [%]
General information:		160 -			-
Product name:	CRN 20-10 A-P-A-E-HQQE				
Product No:	96500565	140 -			
EAN number:	5700396204369				
Technical:		120 -			
Pump speed on which pump data are based:	2924 rpm	100 -			100
Rated flow:	21 m³/h				
Rated head:	118 m	80 -			80
Head max:	148 m				
Stages:	10	60 -			60
Impellers:	10				
Number of reduced-diameter impellers:	0	40 -	//		40
Low NPSH:	Ν				
Pump orientation:	Vertical	20			20
Shaft seal arrangement:	Single				
Code for shaft seal:	HQQE	o /			0
Approvals on nameplate:	CE, EAC,ACS	0 5	10 15	5 20 25 Q [m³/h]	
Curve tolerance:	ISO9906:2012 3B	P [kW]			NPSH [m]
Pump version:	A	·····1		P1	r1
Model:	A	10 -		P2	10
Materials:				12	
Base:	Stainless steel	8 -			8
	EN 1.4408	6 -			6
	AISI 316	4			4
Impeller:	Stainless steel	4-			4
•	EN 1.4401	2 -			2
	AISI 316	0			0
Material code:	A	7			-
Code for rubber:	E	204	214		
Bearing:	SIC				
Installation:					
Maximum ambient temperature:	60 °C	121			
Maximum operating pressure:	25 bar				
Max pressure at stated temp:	25 bar / 120 °C	350			
	25 bar / -20 °C	<u> </u>	G 1/2		
Type of connection:	PJE				
Size of inlet connection:	DN 50	88			
	2 inch	G 1/2			
Size of outlet connection:	DN 50				
	2 inch				
Pressure rating for pipe connection:	PN 50	' ∏⊺_	130	215 248	
Flange size for motor:	FF300		200		
Connect code:	P	·			
Liquid:			Y		
Pumped liquid:	Water		'		
Liquid temperature range:	-20 120 °C		¶ ,,, ∏		
Liquid temperature during operation:	20 °C	· ↓ ↓ ↓ ↓	■ Ŋ ■		
Density:	998.2 kg/m ³	I ∐ L@	<u>. </u>		
Electrical data:				SUPPLY SUPPLY	
Motor standard:	IEC	TO AMPLIFIER RELAY		avradnis nivni jo Bar Boll Sinna	
Motor type:	160MB		Δ	00/TFCL 00/TFCL 4082	
IE Efficiency class:	IE3			NY FOR C TO DIN 4	
Rated power - P2:	11 kW	В ^{+т} В ^{+т}	₿• ⁺	PROTECT THE REL CORDING	
Power (P2) required by pump:	11 kW			0 ARELE PTCACC	
Mains frequency:	50 Hz			211 THE ECTED T MISTORS	
	3 x 380-415D/660-690Y	то жирцяра С		C CC NWEST THERMIST	
Rated voltage:	V	RELAY			

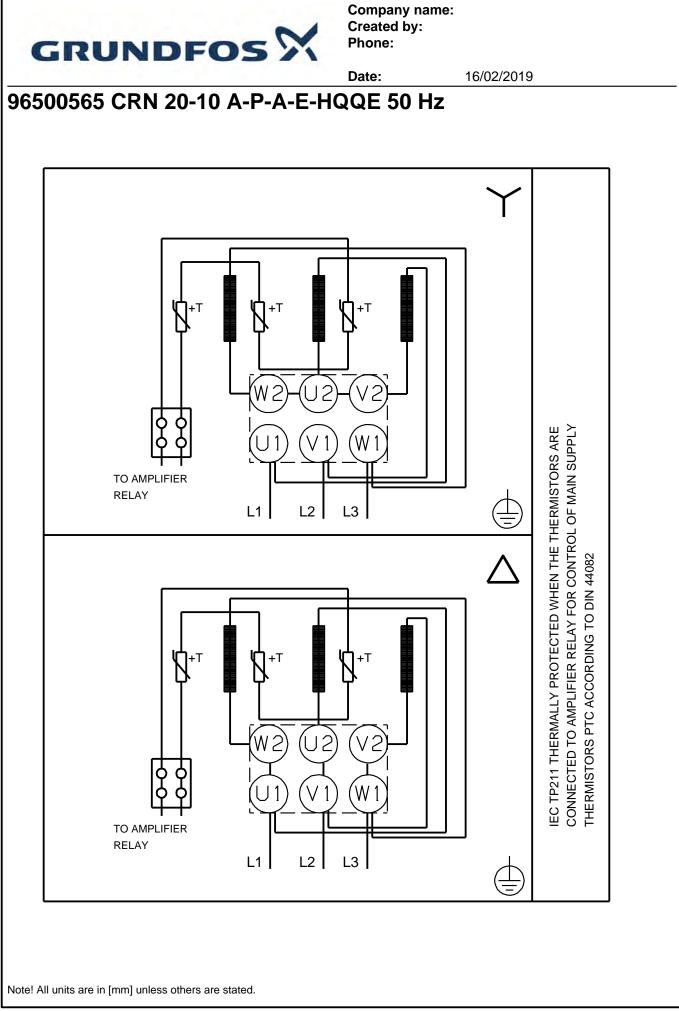
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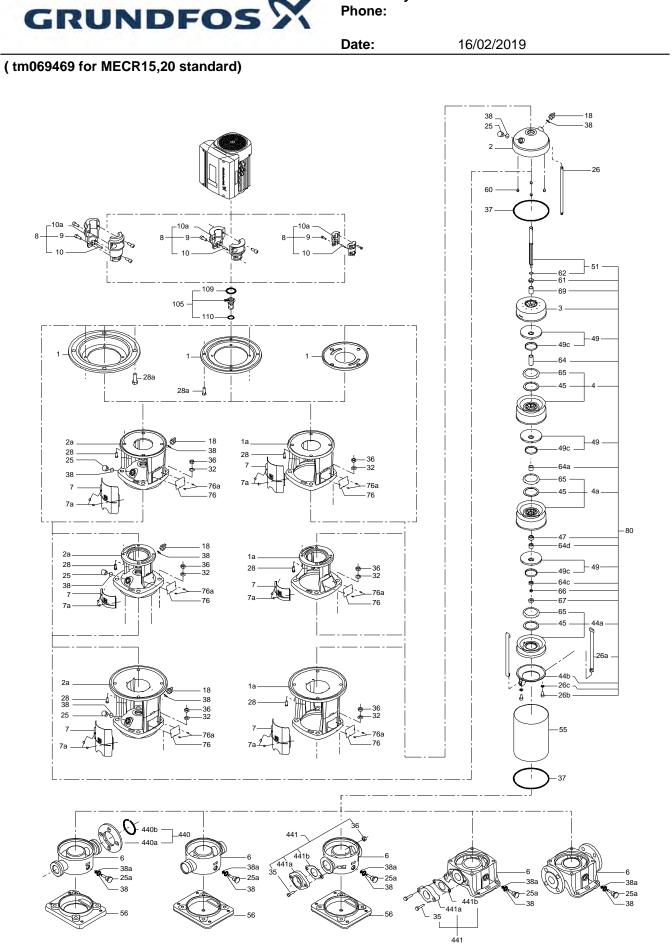
		Date:	16/02/2019	
Description	Value			
Rated current:	20,8-19,8/12,0-11,8 A	_		
Starting current:	660-780 %			
Cos phi - power factor:	0.88-0.84			
Rated speed:	2940-2950 rpm			
Efficiency:	IE3 91,2%			
Motor efficiency at full load:	91.2-91.2 %			
Motor efficiency at 3/4 load:	91.8 %			
Motor efficiency at 1/2 load:	91.3 %			
Number of poles:	2			
Enclosure class (IEC 34-5):	55 Dust/Jetting			
Insulation class (IEC 85):	F			
Motor protec:	PTC			
Motor No:	85U17524			
Controls:				
Frequency converter:	NONE			
Others:				
Minimum efficiency index, MEI ≥:	0.70			
Net weight:	142 kg			
Gross weight:	170 kg			
Shipping volume:	0.488 m³			
Danish VVS No.:	385915100			

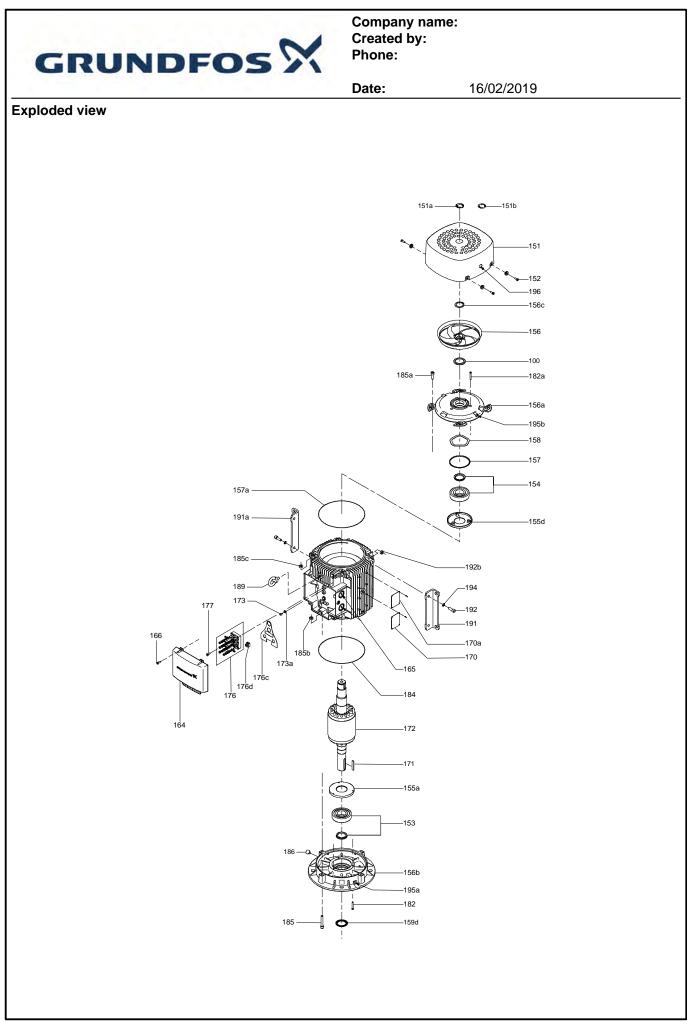




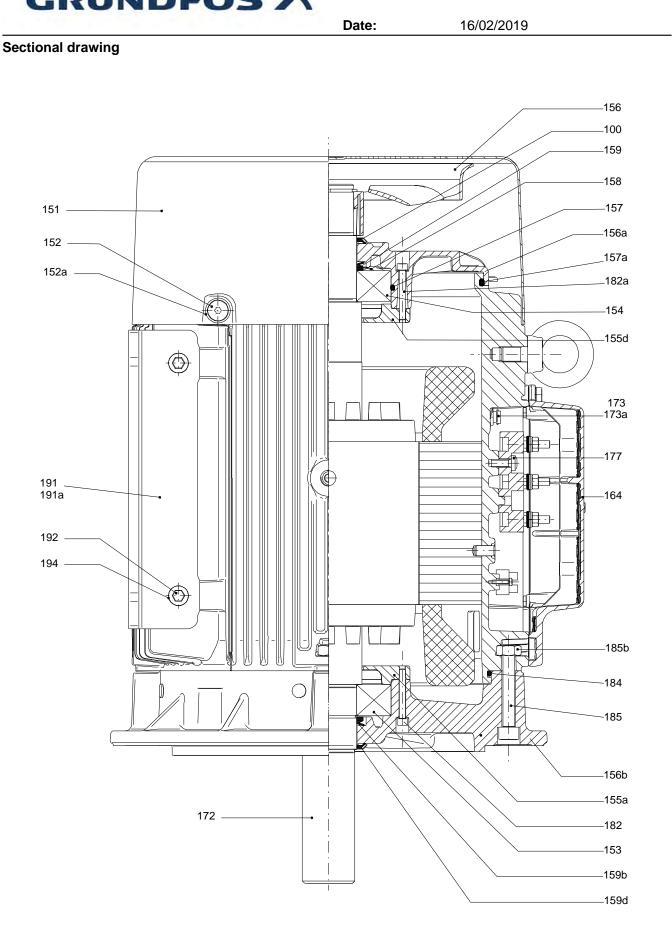


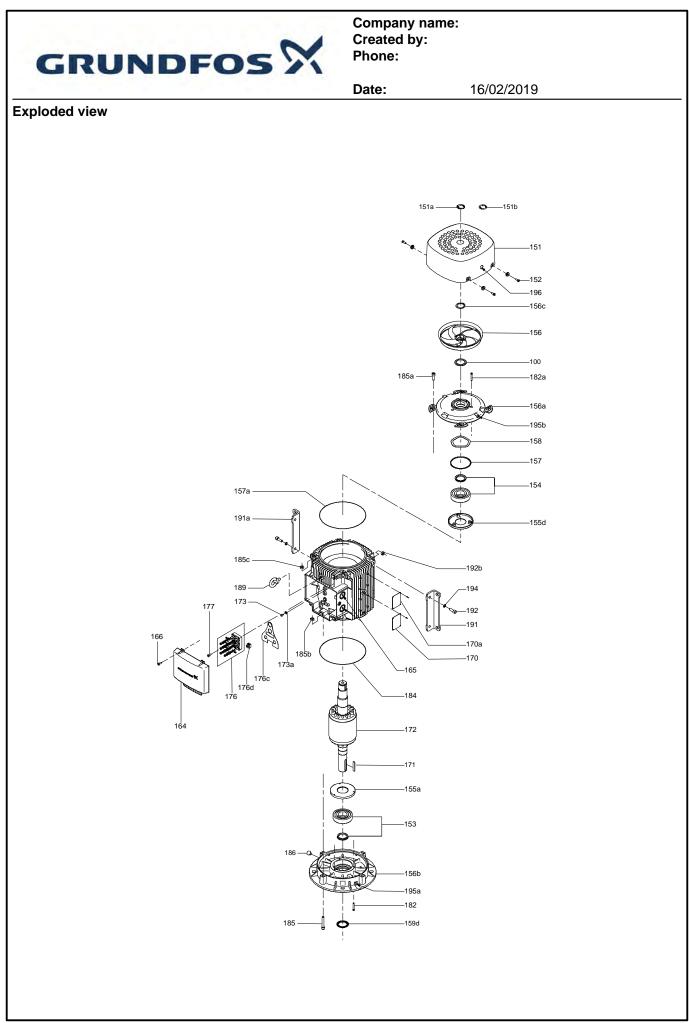




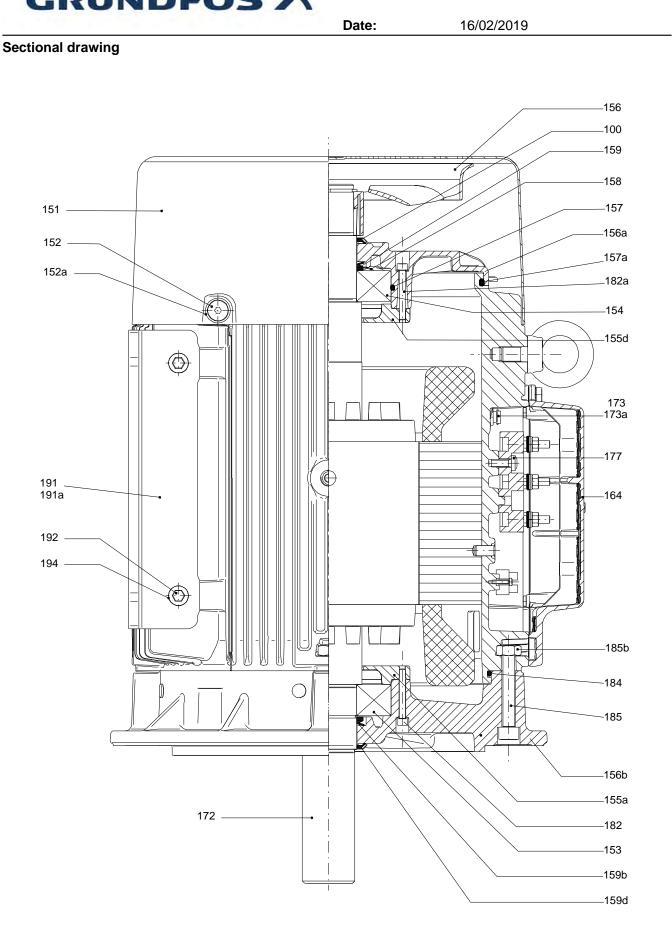














16/02/2019

Spare parts CRN 20-10, Product No. 96500565 Valid from 1.1.2011 (1152)

Pos	Description	Annotation	Classification Data	Part no.	Qty.	Uni
	Kit, chamber stack			96491792	1	pcs
80	Chamber stack				1	l
3	Top intermediate chamber					
	Guide vane					
	Cover plate					
3	Intermediate chamber					
4a	Intermediate chamber cpl.					
	Sand Lifter					
	Guide cup					
	Bearing plate					
	Guide vane					
3	Intermediate chamber					
45a	Neck ring cpl.					
47	Bearing bush					
65	Retainer					
4	Intermediate chamber cpl.					
3	Intermediate chamber					
45a	Neck ring cpl.					
65	Retainer					
26a	Strap cpl.		Length (mm): 4	449MM		
26.c	Washer		Designation: D			
			Thickness: 1,6			
26.b	Hex head screw					
44b	Inlet part					
44a	Inlet part cpl.					
45a	Neck ring cpl.					
65	Retainer					
47	Bearing ring					
49	Impeller cpl.					
49c	Wear ring					
49	Impeller					
51	Shaft, spline, cpl.					
	Bar					
62	Stop ring					
64d	Spacing bush					
64c	Spacing pipe		Length (mm): 7	12.7		
64a	Spacing pipe		Internal diamet			
• • •			Length (mm): 17	,.		
64	Spacing pipe		Length (mm): 4	43.6		
66	Wedge lock washer			-		
67	Lock nut		Thread: M8			
69	Spacing bush					
	Kit, coupling			96511352	1	pcs
	Adjusting fork			00011002	. 1	
8	Coupling				1	
9	Hex socket head cap screw		Designation: D	IN 912		•
•			Length (mm): 25			
			Thread: M10			
10a	Coupling half					
102	Shaft pin		Diameter: 5			
10	onan pin		Length (mm): 26			
	Kit, coupling guard		Lengui (min). 20	96509614	1	pcs
				30003014		PUS



Pos	Description	Annotation Classification Data	Part no.	Qty	/. Unit
7	Coupling guard				2
	Kit, gaskets		96509609	1	pcs
	Gasket				2
24	O-ring				2
37	O-ring				2
38a	O-ring	Diameter: 5,3			1
		Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			1
		Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			2
		Material type: EPDM			
		Thickness: 2,4			
60	Spring				4
415	Gasket				2
441b	Gasket	Internal diameter: 4	19		2
		Outer diameter: 92			
		Thickness: 2			
	Kit, plug		96511312	1	pcs
18	Air vent screw				1
	Spindle				
	Plug				
25a	Drain plug				1
25	Plug				1
38a	O-ring	Diameter: 5,3			1
		Material type: FKM			
		Thickness: 2,4			
38a	O-ring	Diameter: 5,3			1
		Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			1
	- 5	Material type: FKM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			2
	cg	Material type: FKM			_
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			1
	- ····9	Material type: EPDM			•
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			2
50	- mg	Material type: EPDM			-
		Thickness: 2,4			
	Kit, shaft seal HQQE	1110010000.2,4	96511844	1	pcs
	Emery cloth		00011044		1
	Grinding device				1
105	Shaft seal	Material type: HQC)E		1
100	Kit, wear parts		96511827	1	pcs
4a	Intermediate chamber cpl.		30311027	I	2
-td	Sand Lifter				2
	Guide cup Boaring plate				
	Bearing plate Guide vane				
2					
3	Intermediate chamber				
45a	Neck ring cpl.				
47	Bearing bush				
65	Retainer		054		•
26.c	Washer	Designation: DIN 1	25A		2
		Thickness: 1,6			



Pos E	Description	Annotation Classification Data	Part no.	Qty. Unit
26.b	Hex head screw	Annotation GlassinGation Data	rait 110.	2 2
45a	Neck ring cpl.			8
43a 47	Bearing ring			2
47 49c	Wear ring			10
490 62	Retaining ring			10
				2
64d	Spacing bush	Longth (mm): 10.7		
64c	Spacing pipe	Length (mm): 12.7		1
64b	Spacing bush	Length (mm): 5.00		1
64a	Spacing pipe	Internal diameter: 1	7,5	2
		Length (mm): 17		
65	Retainer			8
66	Wedge lock washer			1
67	Lock nut	Thread: M8		1
Ν	Aotor		85904227	1 pcs
	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: DI	N912	
	•	Length (mm): 40		
		Thread: M5		
	Kit, eyebolt		967967	12 1
189	Eyebolt		001001	·- ·
100	Kit, fan		967966	54 1
156.c			907900	
156.C	Retaining ring Fan			
100			007000	47 4
454	Kit, fan cover		967966	4/ 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	Drain plug			
195.a	Grease nipple			
	Kit, gaskets		967985	08 1
184	O-ring	Diameter: 235		
	Kit, lubrication nipple	Diamoton 200	967966	71 1
195.b	Grease nipple		007000	
195.a	Grease nipple			
195.a	Kit, ND-end shield cpl.		967966	60 1
206	Waved washer		901900	
32b				
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		968434	59 1
159.b	V-ring			
159	V-ring			
	Kit, terminal board		967966	57 1
	Terminal connection			
	Washer			
36	Washer Hex nut			



76.0 Terminal board 77 Torx Screw 96796659 1 78.1 terminal box cover 96796659 1 6 77 Torx Screw 96796659 1 6 73.2 Pan head thread forming screw 96796664 1 96796664 1 75.3 Bearing pole 96796664 1 96796664 1 75.3 Bearing pole 96796664 1 96796664 1 75.3 Bearing pole Designation: DIN912 1 1 1 75.4 Gasket Designation: DIN912 1 1 1 75.5 Kit, seebolt 96796664 1 1 1 76.5 Fan 1					Date:	16/02/2019)
76.0 Terminal board 77 Torx Screw 96796659 1 78.1 terminal box cover 96796659 1 6 77.1 Torx Screw 96796659 1 6 73.2 Pan head thread forming screw 96796664 1 96796664 1 75.3 Bearing cover 96796664 1 96796664 1 75.3 Bearing plate 96796664 1 96796664 1 75.4 Bearing cover Designation: DIN912 1 1 1 75.5 Bearing cover Designation: DIN912 1	Pos	Descrip	ption	Annotation	Classification Data	Part no. Q	ty. Unit
76 Terminal board 77 Torx Screw 96796659 1 78 Pan head thread forming screw 85904022 1 78 Pan head thread forming screw 85904022 1 78 Pan head thread forming screw 85904022 1 64 Terminal box cover 96796666 1 78 Pan head thread cap screw Designation: DIN912 5 78 Pan head thread cap screw Designation: DIN912 1 78 Pan kead thread cap screw Designation: DIN912 1 78 Rik (syebolt 967967671 1 79 Eyebolt Thread: M5 1 76 Fan 1 1 76 Fan cover 967967674 1 71 Fan cover 96796662 1 72 Han kead cap screw 96796662 1 73 Pan cover 96796662 1 74 Fan cover 96796662 1 75. Fange 1 1 76 Fange 1 <td< td=""><td>176.d</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	176.d						
77 Torx Screw 96796659 1 64 Terminal box cover 96796657 1 73a Pan head thread forming screw 953904022 1 96796676 1 73a Pan head thread forming screw 953904022 1 96796676 1 75a Bearing plate 96796674 1 96796676 1 55.a Bearing plate 96796674 1 1 1 56.a Bearing plate 96796674 1 1 1 56.a Retaining ring 96796674 1 1 1 56.b Fan 96796684 1 1 1 51.c Retaining ring 96796684 1 1 1 52.a Rubber bush 1 1 1 1 1 52.a Rubber bush 1 1 1 1 1 53.b Grease nipple 1 1 1 1 1 54.d	176		Terminal board				
Kit, terminal box cover 96796659 1 64 Terminal box cover 95904022 1 pc Motor 953904022 1 pc Kit, bearing path 96796676 1 55.a Bearing cover 96796676 1 08a Gasket Designation: DIN912 1 08a Gasket 96796674 1 08a Diaphragm 1 52. Kit, fan cover 967966	177						
64 Terminal box cover 85904022 1 pc 73a Pan head thread forming screw 85904022 1 pc Kit, bearing pate 96796676 1 55.a Bearing cover 96796676 1 08a Gasket 967966712 1 55.a Bearing cover Length (mm): 40 1 08a Hex socket head cap screw Designation: DIN912 1 19a Eyebolt 1 1 65a Retaining ring 96796654 1 56a Retaining ring 967966647 1 56a Fan cover 967966647 1 51a Fan cover 967966647 1 52a Rubber bush 1 1 52a Rubber bush 1 1 52a Rubber bush 1 1 52b Flange 1 1 54b Flange 96796662 1 55b Seal ring 96796662 1 55b Grease nipple 1 1		Kit,	terminal box cover			96796659	1
Pan head thread forming screw 8594022 1 pc Kit, bearing cpl. 96796676 1 1 Kit, bearing cpl. 96796664 1 08a Gasket 96796674 1 08a Gasket 96796674 1 08a Gasket 96796712 1 08a Egebolt 96796712 1 189 Eyebolt 96796674 1 180 Eyebolt 96796674 1 180 Eyebolt 96796674 1 171 Fan cover 96796674 1 181 Fan cover 96796664 1 182 Hak head cap screw 96796664 1 182 Hak head cap screw 96796667 1 182 Hak nover 96796667 1 183 Grease nipple 96796667 1 184 Oring Dug 96796667 1 195. Grease nipple 96796667 1 <tr< td=""><td>164</td><td> ,</td><td></td><td></td><td></td><td></td><td></td></tr<>	164	,					
Motor 85904022 1 pc Kit, bearing plate 96796676 1 55.a Bearing cover 1 08a Gasket 1 08b Hex socket head cap screw Designation: DIN912 1 08a Hex socket head cap screw Designation: DIN912 1 08a Fex socket head cap screw Designation: DIN912 1 08a Fex socket head cap screw 967966712 1 05c Fan 967966647 1 05c Fan 967966647 1 05c Ran 967966647 1 05c Ran 967966647 1 05c Ran 967966647 1 05c Ran 967966677 1 05c Ran 967966647 1 05c Range 967966627 1 05c Range 967966671 1 05c Nut 967966628 1 05c R							
Kit, bearing cpl. 96796676 1 Kit, bearing plate 96796676 1 Sta Bearing cover 1 08a Gasket Designation: DIN912 1 08b Hex socket head cap screw Designation: DIN912 1 1 Length (mm): 40 Thread: M5 96796712 1 89 Eyebolt 96796674 1 5 65 Falan 96796674 1 56 Retaining ring 96796674 1 56 Falan cover 96796674 1 51 Fan cover 96796674 1 52 Hex head cap screw 96 1 52 Hex head cap screw 96 1 54 Hex socket head cap screw 1 1 55 Nut 2 Hex socket head cap screw 1 56 Falange 96796671 1 57 Otameter: 235 1 1 56 Carease nipple <t< td=""><td>215a</td><td>Motor</td><td>Fair field tiffead forming screw</td><td></td><td></td><td>95004022 1</td><td>000</td></t<>	215a	Motor	Fair field tiffead forming screw			95004022 1	000
Kit, bearing plate96796664155.aBearing cover			h a a sin a sant				
55.a Bearing cover 08a Gasket 09a Gasket 09b Hex socket head cap screw Designation: DIN912 Interact: M5 96796712 1 89 Eyebolt 967966712 1 80 Eyebolt 967966671 1 61. Fan 967966677 1 52. Retaining ring 1 1 54. Fan cover 967966677 1 52. Hex head cap screw 96796662 1 54. Flange 96796662 1 55. Must 96796662 1 56. Flange 96796662 1 55. Must 96796662 1 56. Flange 96796662 1 57. Grease nipple 96796662 1 58. Nut 96796669 1 59. Orain plug 96796669 1 59. Grease nipple 96796669 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
08a Gaskef 08 Hex socket head cap screw Designation: DIN912 1 Length (mm): 40 Thread: M5 1 89 Eyebolt 1 89 Eyebolt 96796712 1 80 Eyebolt 967967654 1 80 Eyebolt 967967674 1 81 Fan 967967677 1 52 Ratbaining ring 5 1 5 52.a Rubber bush 5 1 5 52.b Seal ring 1 5 5 54.b Flange 96796602 1 55.b Nut 9 9 9 64 Orring 1 9 95.b Greasen ipple 1 1		Kit,	• •			96796664	• 1
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	164						
a Pump head 08008053 1 pc	273a		-				
a i anp iload	1a	Pump h	nead			98998053 1	pcs



	Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
	1	Flange	Annotation	Ulassinuation Data	98913788		pcs
	2	Pump cover			98481138		pcs
+	3	Bulk, Top intermediate chamber (3 pcs)			98371113		pcs
+	3	Top intermediate chamber			98734577		pcs
+	4a	Bulk, Intermediate chamber cpl. (10 pcs)			96538853		pcs
+	4a	Intermediate chamber cpl. (10 pos)			98371117		pcs
-	4	Bulk, Intermediate chamber cpl. (10 pcs)			96538840		pcs
	3	Intermediate chamber			983711		•
	65	Retainer			965473		
+	4	Intermediate chamber cpl.			98371115		
т	6	Base			98654159		pcs pcs
	10	Bulk, Shaft pin (10 pcs)		Diameter: 5	96536473		•
	10	Buik, Shart pin (10 pcs)		Length (mm): 26	90330473	1	pcs
	18	Rulk Air yest screw (5 sec)		Length (mm). 26	96547461	1	000
+		Bulk, Air vent screw (5 pcs)					pcs
+	18	Air vent screw			95061351		pcs
	25	Bulk, Plug (10 pcs)			96536013		pcs
	26a	Strap cpl.		Length (mm): 449MM	98984432		pcs
	26.c	Bulk, Washer (4 pcs)		Designation: DIN 125A	99262704	2	pcs
	00 -	W/achar		Thickness: 1,6	00500000	2	·
	26.c	Washer		Designation: DIN 125A	96586880	2	pcs
	00	Ctouch alt		Thickness: 1,6	00000005	4	
	26 28	Staybolt Hex head screw		Longth (mm): 25	98982885		pcs
	20	Hex field screw		Length (mm): 25 Thread: M12	99522923	4	pcs
	26	Bulk Hox put (20 poo)			06620490	4	
	36	Bulk, Hex nut (20 pcs)		Thread: M16	96620480		pcs
	37.a	Bulk, O-ring (20 pcs)		Diamatan 5.0	96538857		pcs
	38a	Bulk, O-ring (10 pcs)		Diameter: 5,3	99198791	1	pcs
				Material type: EPDM			
	00			Thickness: 2,4	00400045	0	
	38	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815	Ζ	pcs
				Material type: EPDM Thickness: 2.4			
	20	Bulk(O ring(FO nos))		,	00440707	2	n 00
	38	Bulk, O-ring (50 pcs)		Diameter: 16,3	99412727	Z	pcs
				Material type: EPDM			
	44b	lolot port		Thickness: 2,4	00014502	1	
		Inlet part			98814593		pcs
+	44a 47	Inlet part cpl.			98818922		pcs
		Bulk, Bearing ring (10 pcs)			96538795		pcs
-	49	Bulk, Impeller cpl. (5 pcs)			98394310		pcs
,	49c	Bulk, Wear ring (10 pcs)			965473		
+	49	Impeller cpl.			98394459		pcs
+	51	Shaft, spline, cpl.			98368640		pcs
	55	Outer sleeve			98812644		pcs
	56	Base plate			98481136	1	pcs
	60	Bulk, Spring (20 pcs)			96538963		pcs
	64d	Bulk, Spacing bush (20 pcs)			96538947		pcs
	64c	Bulk, Spacing pipe (5 pcs)		Length (mm): 12.7	97980241		pcs
	64a	Bulk, Spacing pipe (10 pcs)		Internal diameter: 17,5	98417487	2	pcs
	o :			Length (mm): 17	00505	-	
	64	Bulk, Spacing pipe (20 pcs)		Length (mm): 43.6	96535107		pcs
	66	Bulk, Wedge lock washer (10 pcs)			96536157		pcs
	67	Bulk, Lock nut (10 pcs)		Thread: M8	98277008		pcs
	69	Bulk, Spacing bush (20 pcs)			96538949		pcs
	76a	Bulk, Rivet (100 pcs)			96620489		pcs
	105	Bulk, Shaft seal (11 pcs)		Material type: HQQE	96538914	1	pcs