

Company name: Created by: Phone:

16/02/2019

Qty. | Description

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CRN 5-11 A-P-A-E-HQQE



Product No.: 96517247

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:

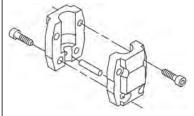
1) Alkaline-based cleaning.

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

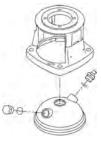
The colour code for the finished product is NCS 9000/RAL 9005.

Pump

A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.



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.



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)



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Date:

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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 combined drain plug and bypass valve. 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 tapped-hole flange (FT).

Motor-mounting designation in accordance with IEC 60034-7: IM B 14 (Code I) / IM 3601 (Code II).

Electrical tolerances comply with IEC 60034.

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

The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (11/1).

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.

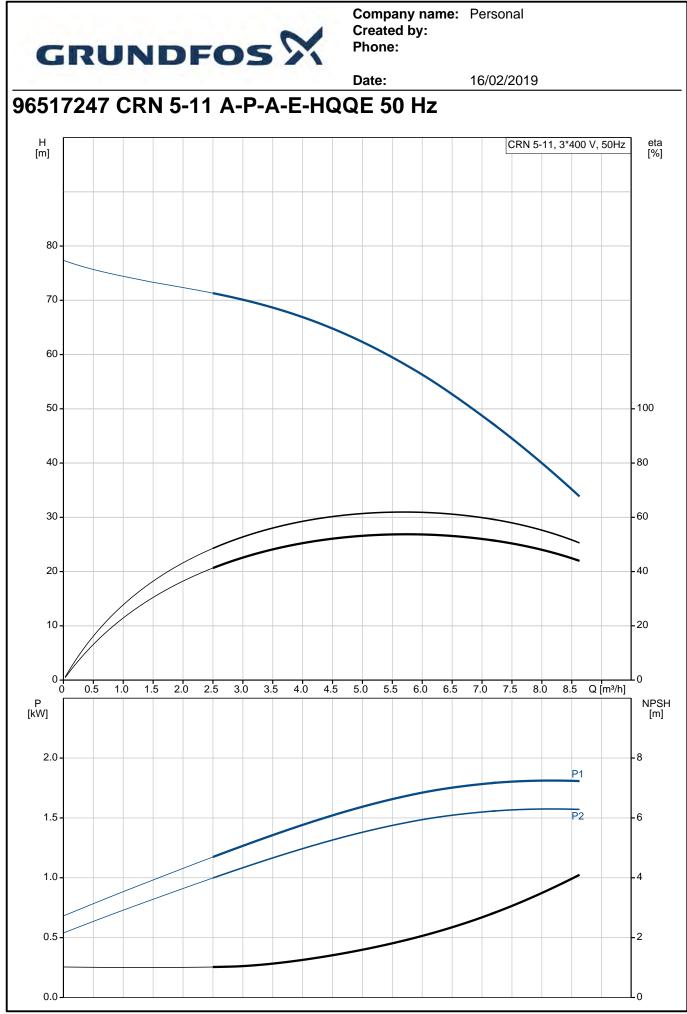
Technical data

Controls: NONE Frequency converter: 1:00.0

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



			16/02/2019
4	Description		
	Pump speed on which pump da		
	Rated flow:	5.8 m³/h	
	Rated head:	56.5 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	
	bearing.		
	Installation:		
	Maximum ambient temperature	: 60 °C	
	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 32	
		1 1/4 inch	
	Size of outlet connection:	DN 32	
	Size of outlet connection.	1 1/4 inch	
	Pressure rating for pipe connec		
	Flange size for motor:	FT115	
	Trange size for motor.	11113	
	Electrical data:		
	Motor standard:	IEC	
		IEC	
		90LC	
	Motor type:	90LC	
	Motor type: IE Efficiency class:	90LC IE3	
	Motor type: IE Efficiency class: Rated power - P2:	90LC IE3 2.2 kW	
	Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	90LC IE3 2.2 kW 2.2 kW	
	Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency:	90LC IE3 2.2 kW 2.2 kW 50 Hz	
	Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage:	90LC IE3 2.2 kW 2.2 kW 50 Hz 3 x 220-240D/380-415Y V	
	Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current:	90LC IE3 2.2 kW 2.2 kW 50 Hz 3 x 220-240D/380-415Y V 7.70/4.45 A	
	Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current:	90LC IE3 2.2 kW 2.2 kW 50 Hz 3 x 220-240D/380-415Y V 7.70/4.45 A 850-950 %	
	Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor:	90LC IE3 2.2 kW 2.2 kW 50 Hz 3 x 220-240D/380-415Y V 7.70/4.45 A 850-950 % 0.89-0.87	
	Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed:	90LC IE3 2.2 kW 2.2 kW 50 Hz 3 x 220-240D/380-415Y V 7.70/4.45 A 850-950 % 0.89-0.87 2890-2910 rpm	
	Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency:	90LC IE3 2.2 kW 2.2 kW 50 Hz 3 x 220-240D/380-415Y V 7.70/4.45 A 850-950 % 0.89-0.87 2890-2910 rpm IE3 85,9%	
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	Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load: Number of poles:	90LC IE3 2.2 kW 2.2 kW 50 Hz 3 x 220-240D/380-415Y V 7.70/4.45 A 850-950 % 0.89-0.87 2890-2910 rpm IE3 85,9% 85.9 % 86.8 % 86.0 % 2	
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	Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Others: Minimum efficiency index, MEI at Net weight:	90LC IE3 2.2 kW 2.2 kW 50 Hz 3 x 220-240D/380-415Y V 7.70/4.45 A 850-950 % 0.89-0.87 2890-2910 rpm IE3 85,9% 85.9 % 86.8 % 86.0 % 2 55 Dust/Jetting F	



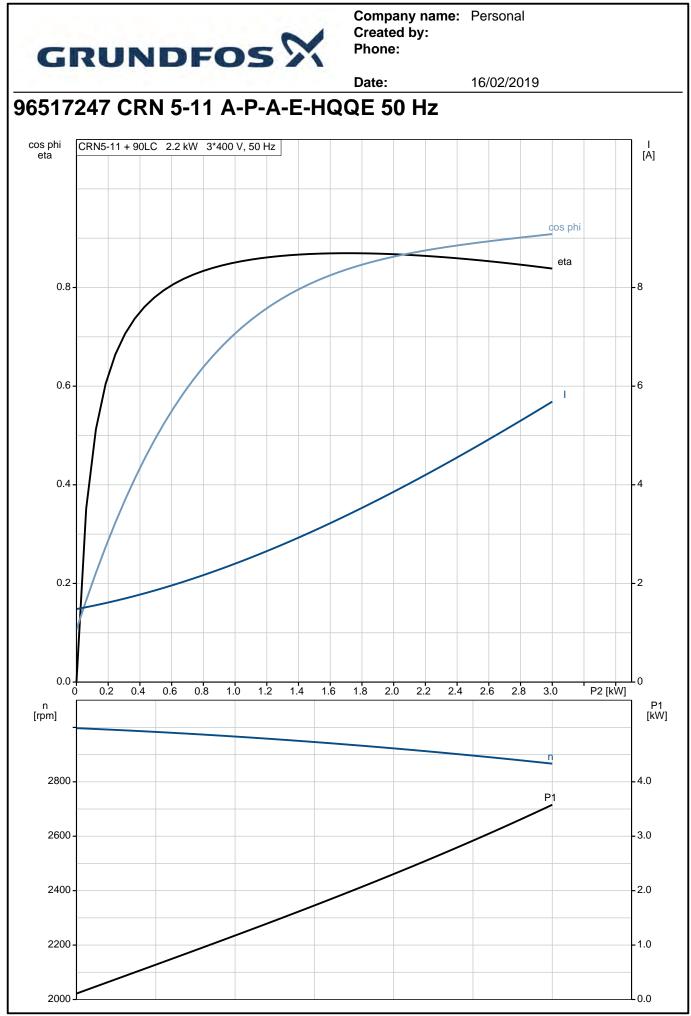


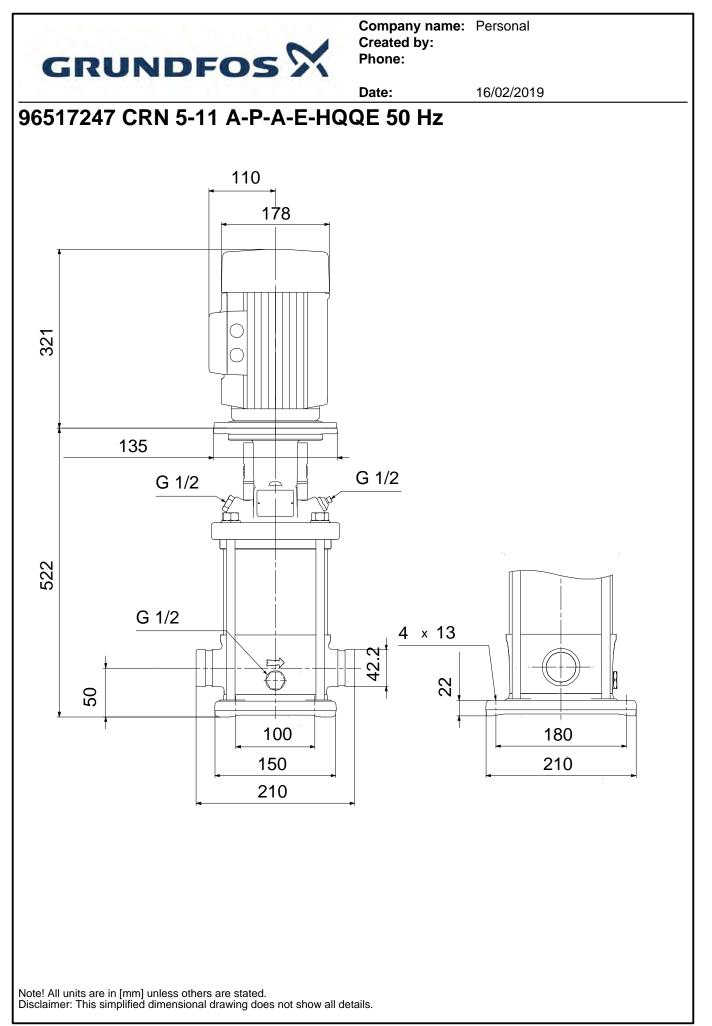
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DIRECTION OF ROTATION	

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		Date:	16/02/2019
Description	Value		
Rated current:	7.70/4.45 A		
Starting current:	850-950 %		
Cos phi - power factor:	0.89-0.87		
Rated speed:	2890-2910 rpm		
fficiency:	IE3 85,9%		
Notor efficiency at full load:	85.9 %		
Notor efficiency at 3/4 load:	86.8 %		
lotor efficiency at 1/2 load:	86.0 %		
lumber of poles:	2		
nclosure class (IEC 34-5):	55 Dust/Jetting		
nsulation class (IEC 85):	F		
otor protec:	NONE		
otor No:	85U05908		
ontrols:			
requency converter:	NONE		
others:			
linimum efficiency index, MEI ≥:	0.57		
et weight:	37.3 kg		
cross weight:	41.4 kg		
hipping volume:	0.092 m ³		
anish VVS No.:	385912011		

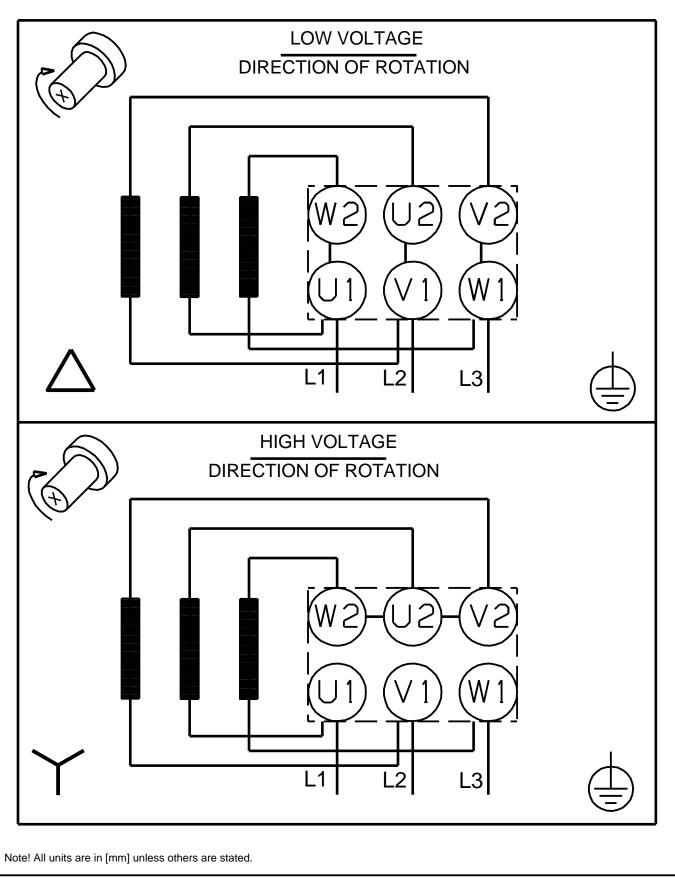






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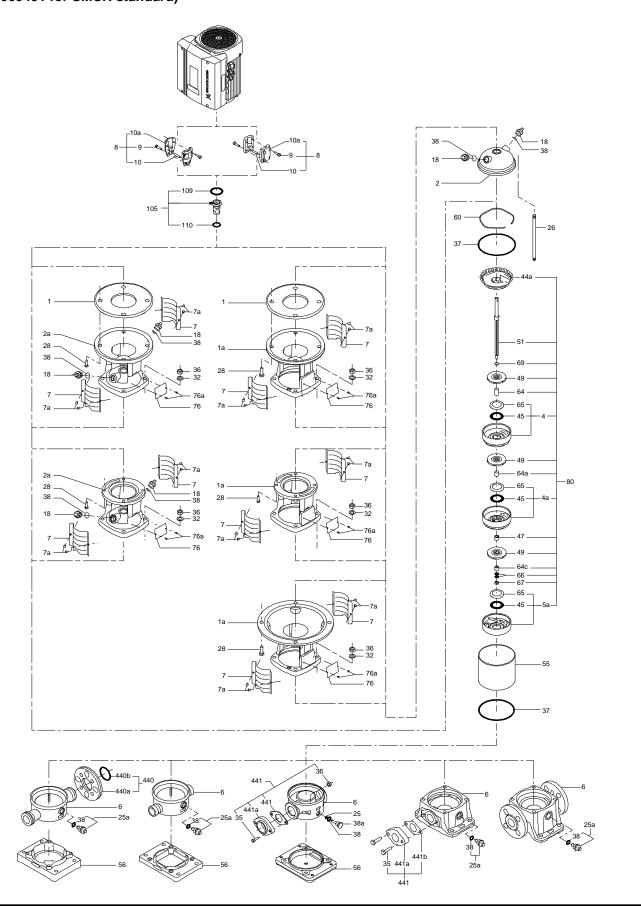
96517247 CRN 5-11 A-P-A-E-HQQE 50 Hz



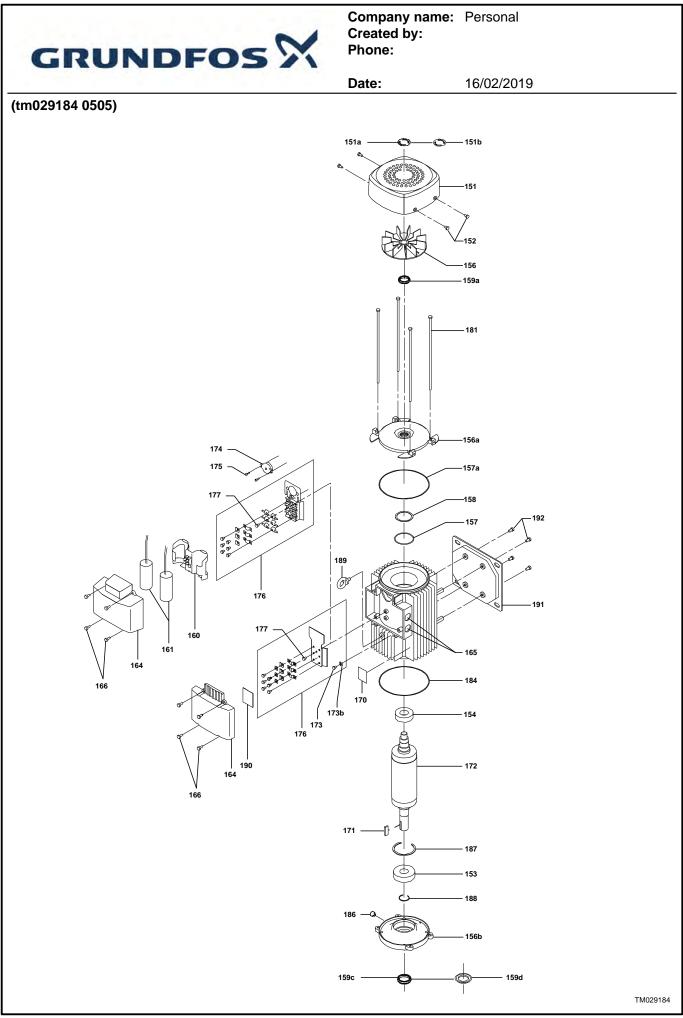


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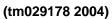


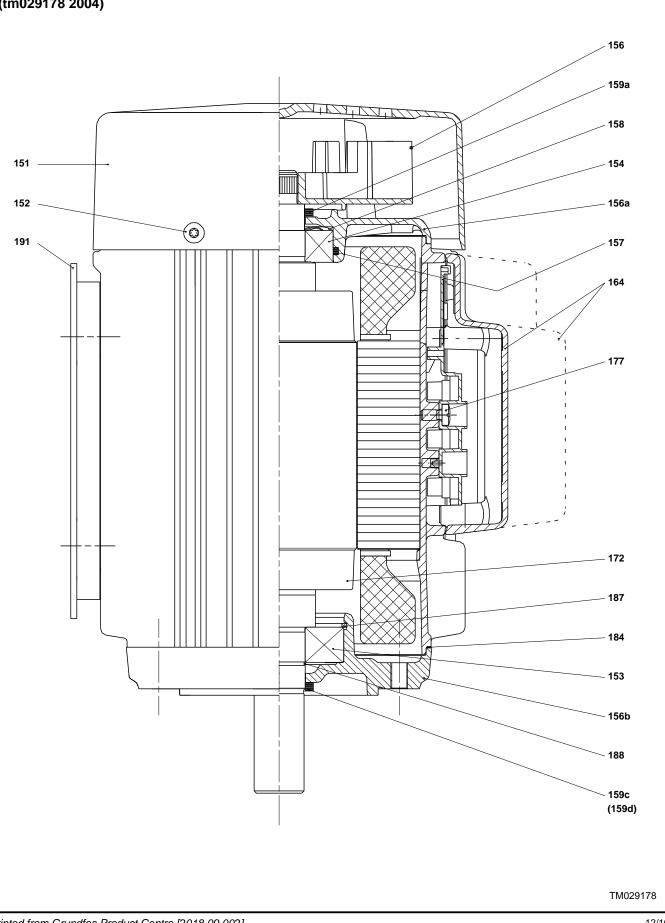
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16/02/2019

Spare parts CRN 5-11, Product No. 96517247 Valid from 1.1.2011 (1152)

) ł a 5 5 5 5 4 a	Kit, chamber stack Chamber w. bearing cpl. Chamber Neck ring Neck ring retainer Chamber cpl. Chamber Neck ring Neck ring retainer Chamber cpl. Chamber Neck ring Neck ring Neck ring Neck ring retainer Guide vane			96453607	1	pcs 2 8
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)	Top plate					_
7	Bearing ring, rotating					2
9						11
						1
łc	Clamp, splined		1			1
			Outer diameter: 15			
la	Spacing pipe		Length (mm): 13.00			2
1	Spacing pipe		Length (mm): 26.0			8
6	Wedge lock washer					1
7	Lock nut		Thread: M8			1
)	Spacing pipe		Length (mm): 2.00			1
ł				00415062	1	pcs
			Designation: DIN 912			4
			-			
)a	Coupling half					2
)			Diameter: 5			1
,	Chartpin					
L	(it coupling guard		Lengur (mm). 20	06505131	1	nce
				90303131	1	pcs
a						4
				00455000	4	2
				96455090	1	pcs
						2
3	O-ring					1
3	O-ring					2
)9	O-ring		Diameter: 22,00			1
			Material type: EPDM			
			Thickness: 2,75			
ł	Kit, plug			96505133	1	pcs
3						1
Rh	-					1
) cc ka ka ka ka ka ka ka ka ka ka ka ka ka	 Impeller cpl. Shaft, spline, cpl. C Clamp, splined Spacing pipe Spacing pipe Wedge lock washer Lock nut Spacing pipe Kit, coupling Hex socket head cap screw Ba Coupling half Shaft pin Kit, coupling guard Kit, coupling guard Kit, gaskets Coupling guard Kit, gaskets O-ring 9 O-ring 9 O-ring Kit, plug Kit, plug Air vent screw Spindle Plug	 Impeller cpl. Shaft, spline, cpl. C Clamp, splined Spacing pipe Spacing pipe Wedge lock washer Lock nut Spacing pipe Kit, coupling Hex socket head cap screw Kit, coupling half Shaft pin Kit, coupling guard Coupling guard Kit, gaskets O-ring O-ring O-ring Markets O-ring Solor ring Kit, plug Air vent screw Spindle Plug 	Impeller cpl. Shaft, spline, cpl. C Clamp, splined Internal diameter: 8,5 Outer diameter: 15 a Spacing pipe Length (mm): 13.00 Spacing pipe Length (mm): 26.0 Wedge lock washer Lock nut Thread: M8 Spacing pipe Length (mm): 2.00 Kit, coupling Hex socket head cap screw Designation: DIN 912 Length (mm): 25 Thread: M8 Coupling half Shaft pin Diameter: 5 Length (mm): 26 Kit, coupling guard Coupling guard A Combi Slot Torx screw Coupling guard Kit, gaskets O-ring Diameter: 16,3 Material type: EPDM Thickness: 2,4 O-ring Diameter: 16,3 Material type: EPDM Thickness: 2,4 O-ring Diameter: 16,3 Material type: EPDM Thickness: 2,4 O-ring Diameter: 22,00 Material type: EPDM Thickness: 2,75 Kit, plug Air vent screw Spindle Plug	Impeller cpl. Shaft, spline, cpl. c Clamp, splined Outer diameter: 15 a Spacing pipe Length (mm): 13.00 Spacing pipe Length (mm): 26.0 Wedge lock washer Lock nut Thread: M8 Spacing pipe Length (mm): 2.00 Kit, coupling 00415062 Hex socket head cap screw Designation: DIN 912 Length (mm): 25 Thread: M8 a Coupling half Ba Coupling half Shaft pin Diameter: 5 Length (mm): 26 Spacing pipe Kit, coupling guard 96505131 a Combi Slot Torx screw 96455090 O-ring Diameter: 16,3 Waterial type: EPDM Thickness: 2,4 O-ring Diameter: 16,3 Material type: EPDM Thickness: 2,4 9 O-ring Diameter: 16,3 Waterial type: EPDM Thickness: 2,4 19 O-ring Diameter: 2,00 Material type: EPDM <	Impeller cpl. Shaft, spline, cpl. c Clamp, splined Outer diameter: 15 a Spacing pipe Length (mm): 13.00 Spacing pipe Length (mm): 26.0 Wedge lock washer Lock nut Spacing pipe Lock nut Spacing pipe Lock nut Thread: M8 Spacing pipe Lock nut Hex socket head cap screw Designation: DIN 912 Length (mm): 25 Thread: M8 a Coupling half Shaft pin Diameter: 5 Length (mm): 26 Kit, coupling guard a Combi Slot Torx screw Coupling guard Q-ring Diameter: 16,3 Material type: EPDM Thickness: 2,4 9 O-ring Diameter: 22,00 Material type: EPDM Thickness: 2,75 Kit, plug Air vent screw



25 Plug 26 Plug 27 Plug 38 O-ring Material type: FKM 11 Thickness: 2: 4 38 O-ring Material type: FKM 38 O-ring Material type: FKM 38 O-ring Material type: FPDM Material type: EPDM Material type: EPDM Kit, shaft seal HQQE 96455087 Vit, shaft seal HQQE 96455087 Kit, shaft seal HQQE 96455087 Kit, wear parts Material type: SIC 96455087 Kit, wear parts Material type: SIC 96455097 Kit, shaft seal HQQE 96455097 1 Kit, wear parts Material type: SIC 96455097 Kit, wear parts Material type: SIC 96455097 Kit, wear parts Material type: SIC 96455097 Kit, wear parts	-
25 Piug 38 O-ring Material type: FKM 38 O-ring Diameter: 16.3 4 Material type: EPDM Thickness: 2.4 38 O-ring Diameter: 16.3 4 Kit, shaft seal HQQE Material type: EPDM 5 Shaft seal Material type: SIC 6 Kit, wear parts Material type: SIC 7 Chamber w. bearing cpl. 16 4 Chamber w. bearing cpl. 17 4 Chamber w. bearing cpl. 16 4 Spacing pipe Length (rm): 13.00 5 Neck ring 15 64 Spacing pipe Spacing pipe	Qty. Un
38 O-ring Diameter: 16.3 38 O-ring Material type: FKM 38 O-ring Diameter: 16.3 38 O-ring Material type: EPDM 5 Shaft seal Material type: FOQE Kit, shaft seal HQOE 96455086 1 105 Shaft seal Material type: SIC 96455087 4 Chamber Chamber 5 45 Neck ring 1 1 46 Champ, splined Internal diameter: 8,5 1 47 Bearing ring, rotating 1 1 1 46 Wedge lock washer 5	1
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159a Seal ring Kit, fan 96279757	
Kit, fan 96279757	
	57 1
156 Fan	
159a Seal ring	
Kit, fan cover 96279755	5 1
151 Fan cover	
151 Pan head forming screw	
•	7 1
Kit, flange 96279777	7 1
156b Flange	
159c Seal ring	



Pos	Description	Annotation	Classification Data		Part no.	Qtv	. Unit
184	Gasket		Internal diameter	: 141,2		,	
			Outer diameter: 145,5 Thickness: 0,2				
186	Drain plug						
	Kit, retaining ring				962797	'98	1
187	Retaining ring				002.01		•
188	Retaining ring						
	Kit, shaft seal				962797	61	1
159c	Seal ring				002101	01	
159a	Seal ring						
1000	Kit, staybolts				962797	'92	1
181	Pan head staybolt				002101	02	•
	Kit, terminal board				962797	69	1
173a	Base				002101	00	•
173	Pan head thread forming screw		Designation: CO		RX T25		
176	Slot cheese head screw		Designation: CO				
			Length (mm): 10	101			
			Thread: M5				
176	Terminal						
176	Connecting piece						
176	Wire clamp						
176	Terminal board						
177	Pan head screw						
	Kit, terminal box				962797	71	1
164	Terminal box cover w/gasket				002101	<i>'</i> '	•
166	Pan head thread forming screw						
100 1a	Pump head				98906053	1	pcs
2	Pump cover				96588244		•
2 4a	Bulk, Chamber w. bearing cpl. (5 pcs)				96547653		pcs
							pcs
4a	Chamber w. bearing cpl.				98371281		pcs
4	Chamber cpl.				98371279		pcs
45	Bulk, Neck ring (24 pcs)				965476		
5a	Chamber cpl.				98371278		pcs
6	Base				96588139		pcs
7.a	Bulk, Combi Slot Torx screw (1000 pcs)				96886324		pcs
7	Bulk, Coupling guard (10 pcs)				96603690		pcs
10	Bulk, Shaft pin (10 pcs)		Diameter: 5		96536473	1	pcs
			Length (mm): 26				
18	Bulk, Air vent screw (5 pcs)				96547461		pcs
18	Air vent screw				95061351		pcs
25	Bulk, Plug (10 pcs)				96536013		pcs
25a	Drain plug w/bypass valve				96588243		pcs
38	Bulk, O-ring (10 pcs)		Diameter: 16,3		991988	815	1
			Material type: EPDM				
			Thickness: 2,4				
38	Bulk, O-ring (50 pcs)		Diameter: 16,3		994127	27	1
			Material type: EPDM				
			Thickness: 2,4				
26	Staybolt		Length (mm): 394		98985618	4	pcs
			Thread: M12				
37	Bulk, O-ring (24 pcs)				96547656	2	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	pcs
	/		Material type: EPDM				•
			Thickness: 2,4				
44a	Guide vane		,		98902003	4	pcs



_				Date:	16/02/2019		
	Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
	47	Bulk, Bearing ring, rotating (10 pcs)			97905743	2	pcs
	47	Bearing ring, rotating			96547649	2	pcs
+	49	Bulk, Impeller cpl. (10 pcs)			97643331	11	pcs
+	49	Bulk, Impeller cpl. (24 pcs)			96547650	11	pcs
+	49	Impeller cpl.			98394423	11	pcs
	51	Shaft, spline, cpl.			98368517	1	pcs
	56	Base plate			96588142	1	pcs
	60	Formed wire spring			96547664	1	pcs
	64c	Bulk, Clamp, splined (5 pcs)		Internal diameter: 8,5	98496968	1	pcs
				Outer diameter: 15			
	64a	Bulk, Spacing pipe (24 pcs)		Length (mm): 13.00	96536452	2	pcs
	64a	Spacing pipe		Length (mm): 13.00	98520104	2	pcs
	64	Bulk, Spacing pipe (24 pcs)		Length (mm): 26.0	96536304	8	pcs
	66	Bulk, Wedge lock washer (10 pcs)			96536157	1	pcs
	67	Bulk, Lock nut (10 pcs)		Thread: M8	98277008	1	pcs
	69	Bulk, Spacing pipe (10 pcs)		Length (mm): 2.00	96536451	1	pcs
+	105	Bulk, Shaft seal (15 pcs)		Material type: HQQE	96983415	1	pcs