

Company name: Created by: Phone:

16/02/2019

Description
CRN 5-15 A-P-A-E-HQQE
Product No.: 96517251
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.

- 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.

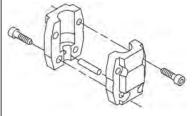
Pump

Qty.

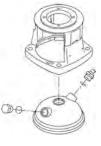
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Description

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:

16/02/2019

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.

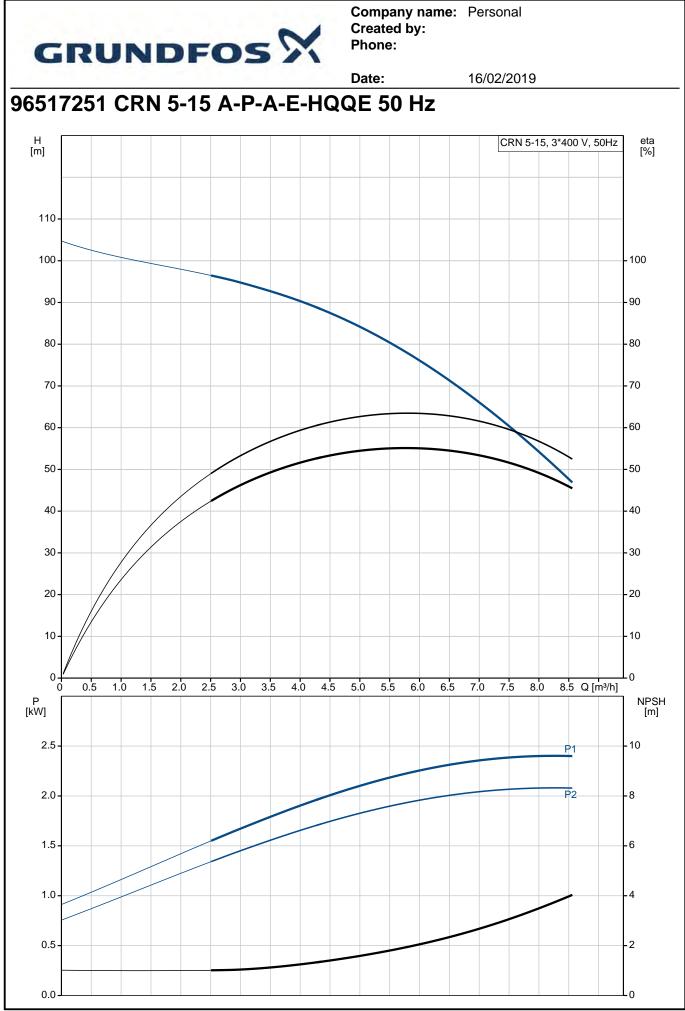
Technical data

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:	

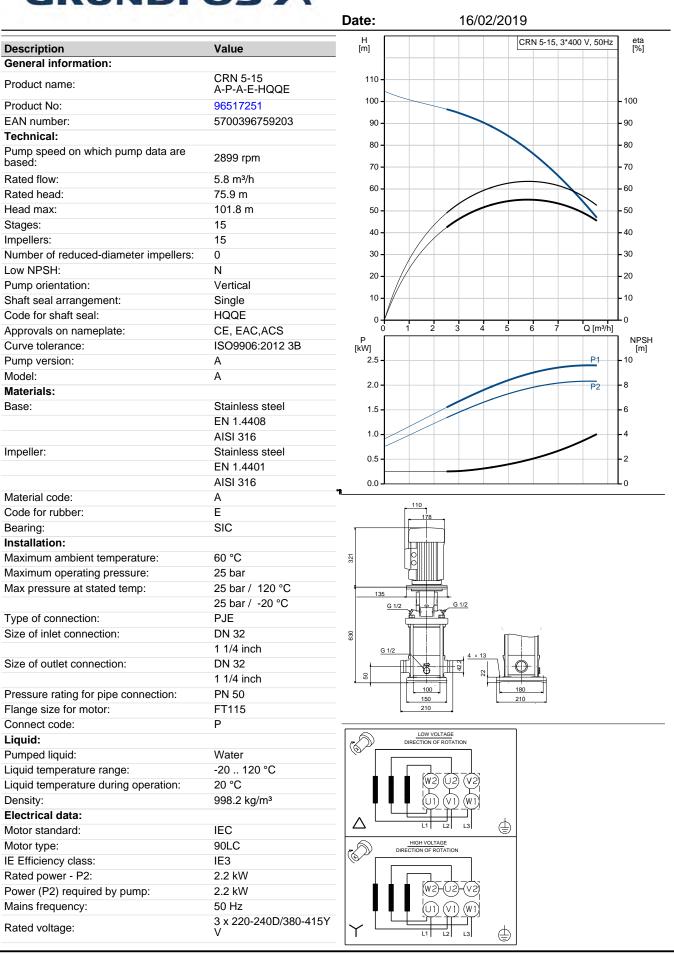


		Date:	16/02/2019
Des	cription		
	p speed on which pump da		
Rate	ed flow:	5.8 m³/h	
Rate	d head:	75.9 m	
Pum	p orientation:	Vertical	
	t seal arrangement:	Single	
	e for shaft seal:	HQQE	
	ovals on nameplate:	CE, EAC,ACS	
	e tolerance:	ISO9906:2012 3B	
		1303300.2012 35	
Mate	erials:		
Base	9:	Stainless steel	
		EN 1.4408	
		AISI 316	
Impe	llor	Stainless steel	
Impe			
		EN 1.4401	
_		AISI 316	
Bear	ing:	SIC	
Inst	allation:		
	imum ambient temperature	60 °C	
	imum operating pressure:	25 bar	
	pressure at stated temp:	25 bar / 120 °C	
IVIAN	pressure at stated temp.	25 bar / -20 °C	
Turne	of composition.		
	e of connection:	PJE	
Size	of inlet connection:	DN 32	
		1 1/4 inch	
Size	of outlet connection:	DN 32	
		1 1/4 inch	
Pres	sure rating for pipe connec	tion: PN 50	
Flan	ge size for motor:	FT115	
Floo	trical data:		
	or standard:	IEC	
	or type:	90LC	
		90LC	
IE E	fficiency class:	IE3	
IE E	fficiency class: d power - P2:	IE3 2.2 kW	
IE E Rate Pow	fficiency class: d power - P2: er (P2) required by pump:	IE3 2.2 kW 2.2 kW	
IE E Rate Pow	fficiency class: d power - P2:	IE3 2.2 kW 2.2 kW 50 Hz	
IE E Rate Pow Mair	fficiency class: d power - P2: er (P2) required by pump:	IE3 2.2 kW 2.2 kW	
IE E Rate Pow Mair Rate	fficiency class: ed power - P2: er (P2) required by pump: is frequency:	IE3 2.2 kW 2.2 kW 50 Hz	
IE E Rate Pow Mair Rate Rate	fficiency class: ed power - P2: er (P2) required by pump: is frequency: ed voltage: ed current:	IE3 2.2 kW 2.2 kW 50 Hz 3 x 220-240D/380-415Y V 7.70/4.45 A	
IE E Rate Pow Mair Rate Rate	fficiency class: ed power - P2: er (P2) required by pump: is frequency: ed voltage: ed current: ting current:	IE3 2.2 kW 2.2 kW 50 Hz 3 x 220-240D/380-415Y V 7.70/4.45 A 850-950 %	
IE E Rate Pow Main Rate Start Cos	fficiency class: ed power - P2: er (P2) required by pump: as frequency: ed voltage: ed current: ting current: phi - power factor:	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	
IE E Rate Pow Mair Rate Rate Start Cos Rate	fficiency class: ed power - P2: er (P2) required by pump: is frequency: ed voltage: ed current: ting current: phi - power factor: ed speed:	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	
IE E Rate Pow Mair Rate Rate Start Cos Rate Effic	fficiency class: ad power - P2: er (P2) required by pump: as frequency: ad voltage: ad current: ting current: phi - power factor: ad speed: iency:	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%	
IE E Rate Pow Mair Rate Start Cos Rate Effic Moto	fficiency class: ad power - P2: er (P2) required by pump: as frequency: ad voltage: ad current: ting current: phi - power factor: ad speed: iency: or efficiency at full load:	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 %	
IE E Rate Pow Main Rate Start Cos Rate Effic Moto	fficiency class: ad power - P2: er (P2) required by pump: as frequency: ad voltage: ad current: ting current: phi - power factor: ad speed: iency: or efficiency at full load: or efficiency at 3/4 load:	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 %	
IE E Rate Pow Mair Rate Start Cos Rate Effic Moto Moto	fficiency class: ad power - P2: er (P2) required by pump: is frequency: ad voltage: ad current: ting current: phi - power factor: ad speed: iency: or efficiency at full load: or efficiency at 3/4 load: or efficiency at 1/2 load:	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 %	
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IE E Rate Pow Mair Rate Start Cos Rate Effic Moto Moto	fficiency class: ad power - P2: er (P2) required by pump: is frequency: ad voltage: ad current: ting current: phi - power factor: ad speed: iency: or efficiency at full load: or efficiency at 3/4 load: or efficiency at 1/2 load:	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 %	
IE E Rate Pow Mair Rate Rate Start Cos Rate Effic Moto Moto Num Encl	fficiency class: ad power - P2: er (P2) required by pump: as frequency: ad voltage: ad current: ting current: phi - power factor: ad speed: iency: or efficiency at full load: or efficiency at 3/4 load: or efficiency at 1/2 load: aber of poles:	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	
IE E Rate Pow Mair Rate Rate Start Cos Rate Effic Moto Num Encl Insul	fficiency class: ad power - P2: er (P2) required by pump: as frequency: ad voltage: ed current: ting current: phi - power factor: ad speed: iency: or efficiency at full load: or efficiency at 3/4 load: or efficiency at 1/2 load: aber of poles: osure class (IEC 34-5): lation class (IEC 85):	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	
IE E Rate Pow Mair Rate Rate Start Cos Rate Effic Moto Num Encl Insu	fficiency class: ad power - P2: er (P2) required by pump: as frequency: ad voltage: ed current: ting current: phi - power factor: ad speed: iency: or efficiency at full load: or efficiency at 3/4 load: or efficiency at 1/2 load: aber of poles: osure class (IEC 34-5): lation class (IEC 85): ers:	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	
IE E Rate Pow Mair Rate Rate Start Cos Rate Effic Moto Num Encl Insu	fficiency class: ad power - P2: er (P2) required by pump: as frequency: ad voltage: ad current: ting current: phi - power factor: ad speed: iency: or efficiency at full load: or efficiency at 3/4 load: or efficiency at 1/2 load: aber of poles: osure class (IEC 34-5): lation class (IEC 85): ers: mum efficiency index, MEI a	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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IE E Rate Pow Mair Rate Rate Start Cos Rate Effic Moto Moto Num Encl Insul Othe Minin Net	fficiency class: ad power - P2: er (P2) required by pump: as frequency: ad voltage: ad current: ting current: phi - power factor: ad speed: iency: or efficiency at full load: or efficiency at 3/4 load: or efficiency at 1/2 load: ber of poles: osure class (IEC 34-5): lation class (IEC 85): ers: mum efficiency index, MEI a weight: as weight:	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 ≥: 0.57 39.7 kg 42.6 kg	
IE E Rate Pow Mair Rate Rate Stari Cos Rate Effic Moto Moto Num Encl Insul Othe Minin Net Ship	fficiency class: ad power - P2: er (P2) required by pump: as frequency: ad voltage: ad current: ting current: phi - power factor: ad speed: iency: or efficiency at full load: or efficiency at 3/4 load: or efficiency at 1/2 load: ber of poles: osure class (IEC 34-5): lation class (IEC 85): ers: mum efficiency index, MEI a weight: as weight: ping volume:	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	
IE E Rate Pow Mair Rate Rate Start Cos Rate Effic Moto Moto Num Encl Insul Othe Minin Net Ship	fficiency class: ad power - P2: er (P2) required by pump: as frequency: ad voltage: ad current: ting current: phi - power factor: ad speed: iency: or efficiency at full load: or efficiency at 3/4 load: or efficiency at 1/2 load: ber of poles: osure class (IEC 34-5): lation class (IEC 85): ers: mum efficiency index, MEI a weight: as weight:	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 ≥: 0.57 39.7 kg 42.6 kg	



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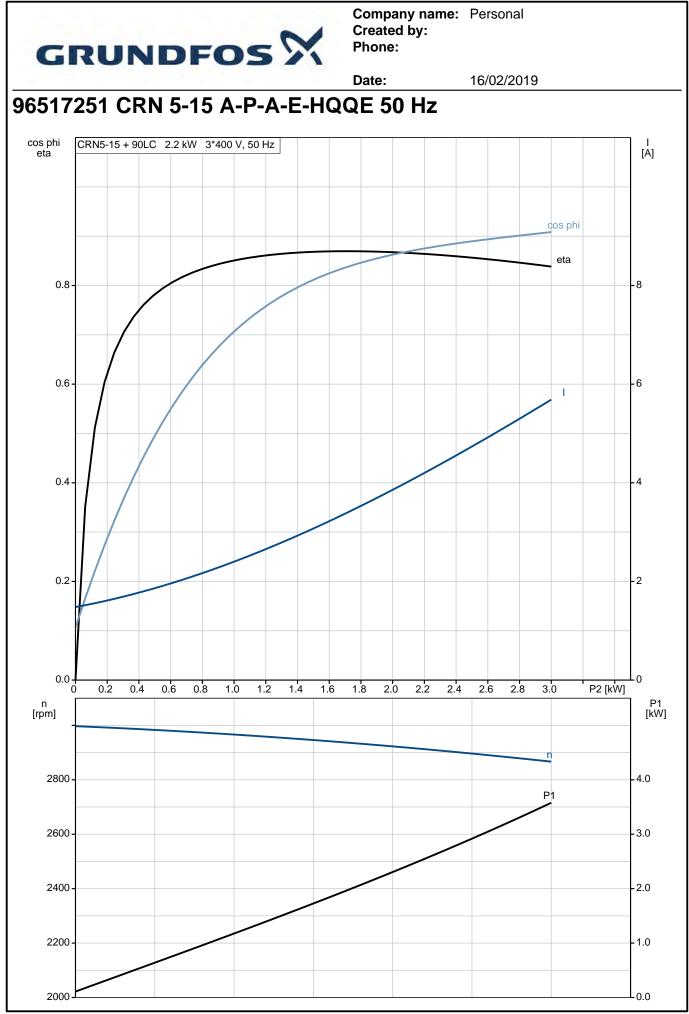


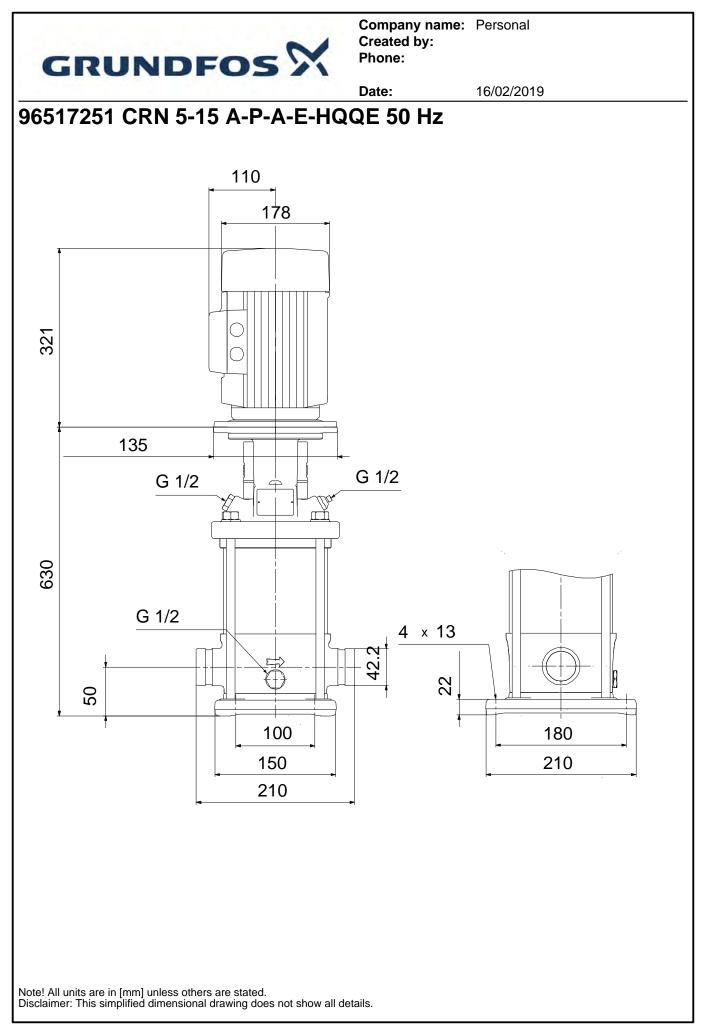


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		Date:	16/02/2019
Description	Value		
Rated current:	7.70/4.45 A		
Starting current:	850-950 %		
Cos phi - power factor:	0.89-0.87		
Rated speed:	2890-2910 rpm		
Efficiency:	IE3 85,9%		
Motor efficiency at full load:	85.9 %		
Motor efficiency at 3/4 load:	86.8 %		
Motor efficiency at 1/2 load:	86.0 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	55 Dust/Jetting		
Insulation class (IEC 85):	F		
Motor protec:	NONE		
Motor No:	85U05908		
Controls:			
Frequency converter:	NONE		
Others:			
Minimum efficiency index, MEI ≥:	0.57		
Net weight:	39.7 kg		
Gross weight:	42.6 kg		
Shipping volume:	0.13 m ³		
Danish VVS No.:	385912015		

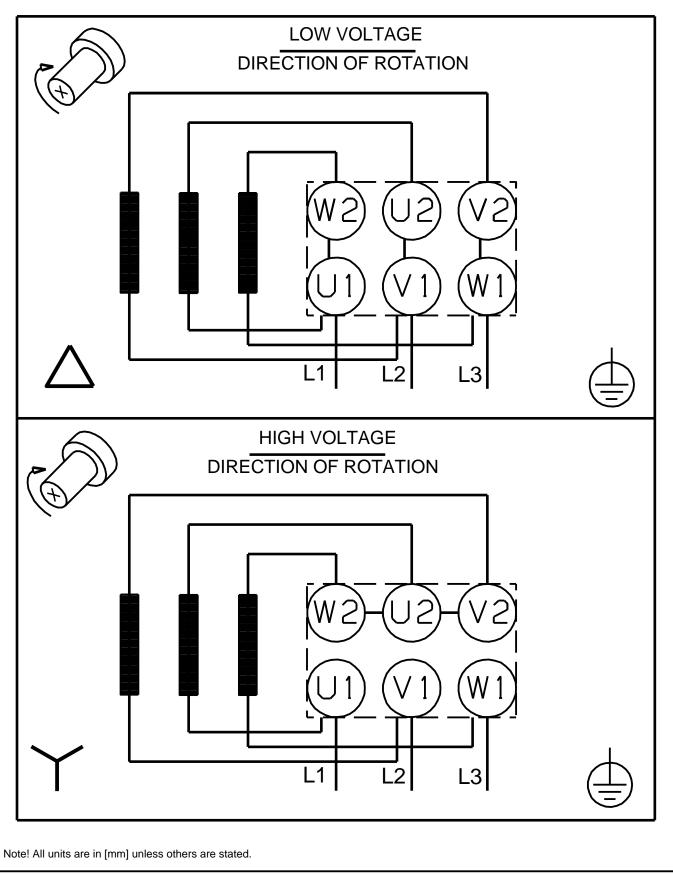






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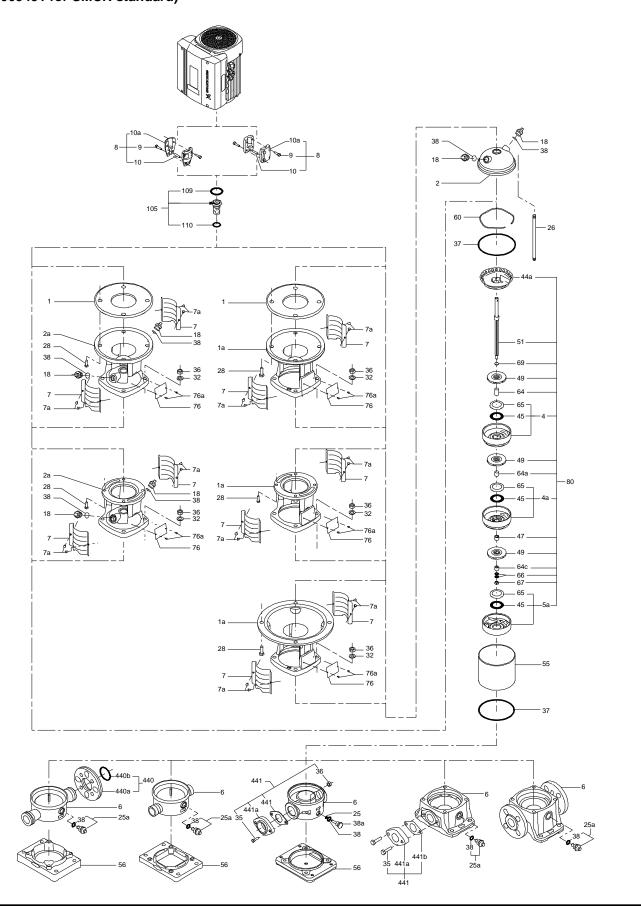
96517251 CRN 5-15 A-P-A-E-HQQE 50 Hz



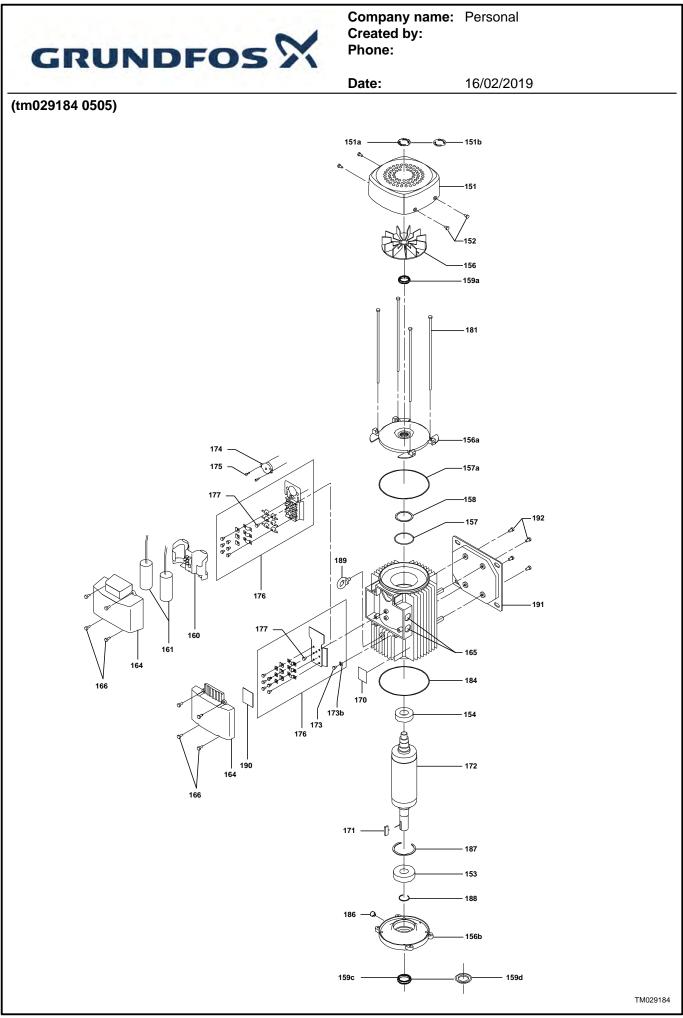


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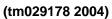


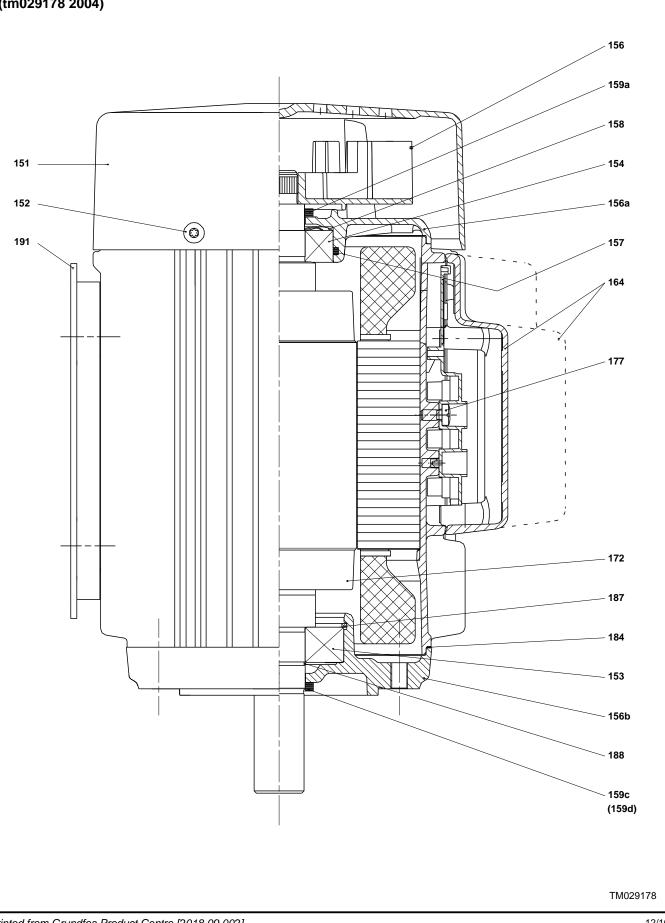
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16/02/2019







16/02/2019

Spare parts CRN 5-15, Product No. 96517251 Valid from 1.1.2011 (1152)

Pos	Description	Annotation	Classification Data	Part no.	Qty	
80	Kit, chamber stack			96453611	1	pcs
4a	Chamber w. bearing cpl.					3
	Chamber					
45	Neck ring					
65	Neck ring retainer					
4	Chamber cpl.					11
	Chamber					
45	Neck ring					
65	Neck ring retainer					
5a	Chamber cpl.					1
ou	Chamber					•
45	Neck ring					
65	Neck ring retainer					
44a	Guide vane					1
44a	Plate					1
50	Guide vane					
50	Top plate					•
47	Bearing ring, rotating					3
- 49	Impeller cpl.					15
51	Shaft, spline, cpl.					1
64c	Clamp, splined		Internal diameter: 8,5			1
			Outer diameter: 15			
64a	Spacing pipe		Length (mm): 13.00			3
64	Spacing pipe		Length (mm): 26.0			11
66	Wedge lock washer					1
67	Lock nut		Thread: M8			1
69	Spacing pipe		Length (mm): 2.00			1
	Kit, coupling			00415062	1	pcs
9	Hex socket head cap screw		Designation: DIN 912			4
			Length (mm): 25			
			Thread: M8			
10a	Coupling half					2
10	Shaft pin		Diameter: 5			1
	•···•• F ···		Length (mm): 26			
	Kit, coupling guard		Longar (mm): 20	96505131	1	pcs
7.a	Combi Slot Torx screw			00000101	•	4
7	Coupling guard					2
1				96455090	1	
37	Kit, gaskets			90433090	1	pcs 2
	O-ring		Diamatory 16.2			
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			
109	O-ring		Diameter: 22,00			1
			Material type: EPDM			
			Thickness: 2,75			
	Kit, plug			96505133	1	pcs
18	Air vent screw					1
	Spindle					
	Plug					
23b	Spindle					1



_				16/02/2019	
	Description	Annotation Clas	sification Data	Part no. Qt	y. Unit
25	Plug				1
25	Plug		D: 1 100		1
38	O-ring		Diameter: 16,3		1
			erial type: FKM		
			kness: 2,4		
38	O-ring		Diameter: 16,3		2
			erial type: FKM		
			kness: 2,4		
38	O-ring		Diameter: 16,3		1
			erial type: EPDM		
			kness: 2,4		
38	O-ring		Diameter: 16,3		2
			erial type: EPDM		
		Thic	kness: 2,4		
I	Kit, shaft seal HQQE			96455086 1	pcs
105	Shaft seal		Material type: HQQE		1
ł	Kit, wear parts	Mate	erial type: SIC	96455098 1	pcs
4a	Chamber w. bearing cpl.				3
	Chamber				
45	Neck ring				
65	Neck ring retainer				
45	Neck ring				13
47	Bearing ring, rotating				3
64c	Clamp, splined		nternal diameter: 8,5	5	1
			er diameter: 15		
64a	Spacing pipe		Length (mm): 13.00		3
65	Neck ring retainer		- <u>J</u> ()		13
66	Wedge lock washer				1
67	Lock nut		Thread: M8		1
441b	Gasket				2
	Motor			85903722 1	- pcs
•	Kit, bearing cpl.			96279794	•
111	Ball bearing			00210104	•
111	Ball bearing				
157	O-ring		Diameter: 52		
157	O-mig	Mat	erial type: NBR		
			kness: 3		
150	Wayad washar	THC	KI1655. J		
158 187	Waved washer				
	Retaining ring				
188	Retaining ring			00070700	4
450-	Kit, end shield			96279789	1
156a	End shield		المتعادية المتعادية	. 4 4 4 . 0	
157a	Gasket	• •	Internal diameter	. 141,2	
			er diameter: 145,5		
		Thic	kness: 0,2		
157	O-ring		Diameter: 52		
			erial type: NBR		
		Thic	kness: 3		
158	Waved washer				
159a	Seal ring				
	Kit, fan			96279757	1
156	Fan				
159a	Seal ring				
	Kit, fan cover			96279755	1
151	Fan cover				
152	Pan head thread forming screw				
	Kit, flange			96279777	1
				002.0111	•
156b	Flange				



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						
188	Retaining ring						
	Kit, shaft seal				962797	'61	1
159c	Seal ring						
159a	Seal ring						
	Kit, staybolts				962797	'92	1
181	Pan head staybolt						
	Kit, terminal board				962797	'69	1
173a	Base						
173	Pan head thread forming screw		Designation: COM	IBI TOF	₹X T25		
176	Slot cheese head screw		Designation: COM				
			Length (mm): 10				
			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						
166	Pan head thread forming screw						
1a	Pump head				98906053	1	pcs
2	Pump cover				96588244	1	pcs
4a	Bulk, Chamber w. bearing cpl. (5 pcs)				96547653	3	pcs
4a	Chamber w. bearing cpl.				98371281	3	pcs
4	Chamber cpl.				98371279	11	pcs
45	Bulk, Neck ring (24 pcs)				965476	603	1
5a	Chamber cpl.				98371278	1	pcs
6	Base				96588139	1	pcs
7.a	Bulk, Combi Slot Torx screw (1000 pcs)				96886324	4	pcs
7	Bulk, Coupling guard (10 pcs)				96603690	2	pcs
10	Bulk, Shaft pin (10 pcs)		Diameter: 5		96536473	1	, pcs
			Length (mm): 26				•
18	Bulk, Air vent screw (5 pcs)				96547461	1	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		•
			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): 502		98985573	4	pcs
	•		Thread: M12				1.22
37	Bulk, O-ring (24 pcs)				96547656	2	pcs
38	Bulk, O-ring (10 pcs)		Diameter: 16,3		99198815		pcs
	,- <u>5</u> ,/		Material type: EPDM			•	- 55
			Thickness: 2,4				
38	Bulk, O-ring (50 pcs)		Diameter: 16,3		99412727	2	pcs
	/- J\F/		Material type: EPDM				- 55
			Thickness: 2,4				



				Date:	16/02/2019		
	Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
	47	Bulk, Bearing ring, rotating (10 pcs)			97905743	3	pcs
	47	Bearing ring, rotating			96547649	3	pcs
+	49	Bulk, Impeller cpl. (10 pcs)			97643331	15	pcs
+	49	Bulk, Impeller cpl. (24 pcs)			96547650	15	pcs
+	49	Impeller cpl.			98394423	15	pcs
	51	Shaft, spline, cpl.			98368580	1	pcs
	55	Outer sleeve			98811313	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	3	pcs
	64a	Spacing pipe		Length (mm): 13.00	98520104	3	pcs
	64	Bulk, Spacing pipe (24 pcs)		Length (mm): 26.0	96536304	11	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