

Company name: Created by: Phone:

Date: 16/02/2019

Qty. | Description

1 | CRN 5-10 A-P-A-E-HQQE



Product No.: 96492985

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

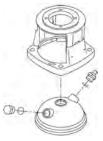
The colour code for the finished product is NCS 9000/RAL 9005.

Pump

A 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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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 (I1/1).

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:

Frequency converter: NONE

Liquid:

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

Technical:



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Qty. **Description**

Pump speed on which pump data are based: 2896 rpm

Rated flow: 5.8 m³/h Rated head: 51.8 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

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**

1 1/4 inch

Pressure rating for pipe connection: PN 50 Flange size for motor: FT115

Electrical data:

Motor standard: **IEC** Motor type: 90SB IE Efficiency class: IE3 Rated power - P2: 1.5 kW Power (P2) required by pump: 1.5 kW Mains frequency: 50 Hz

Rated voltage: 3 x 220-240D/380-415Y V

Rated current: 5.45/3.15 A Starting current: 850-930 % Cos phi - power factor: 0.87-0.82 Rated speed: 2890-2910 rpm Efficiency: IE3 84,2% Motor efficiency at full load: 84.2 % Motor efficiency at 3/4 load: 84.5 % Motor efficiency at 1/2 load: 83.1 %

Number of poles: 2

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

Insulation class (IEC 85):

Others:

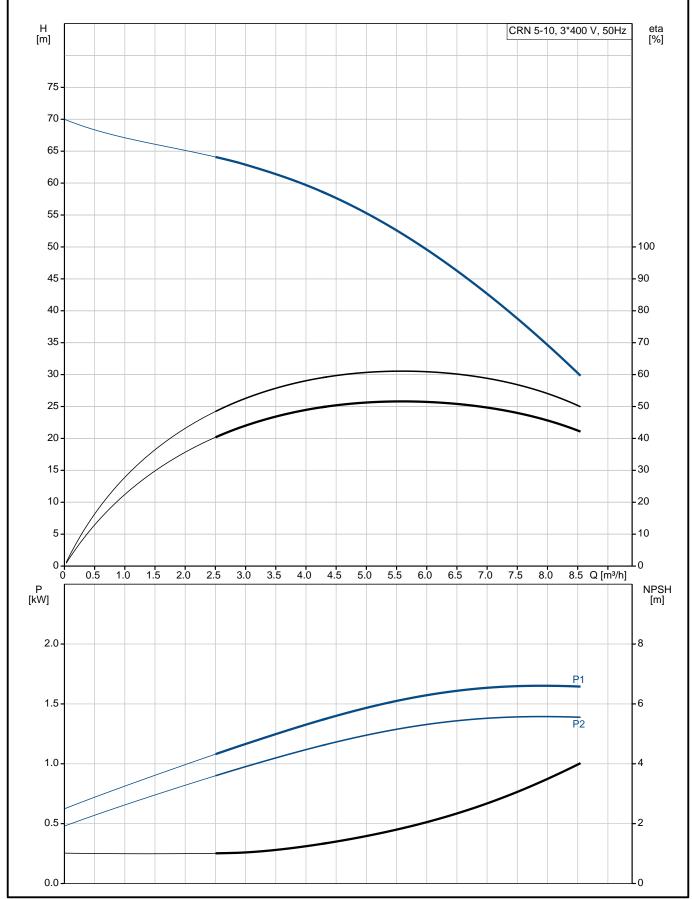
Minimum efficiency index, MEI ≥: 0.57 Net weight: 33.7 kg Gross weight: 37.7 kg Shipping volume: 0.092 m³ Danish VVS No.: 385912010 Norwegian NRF no.: 9040479



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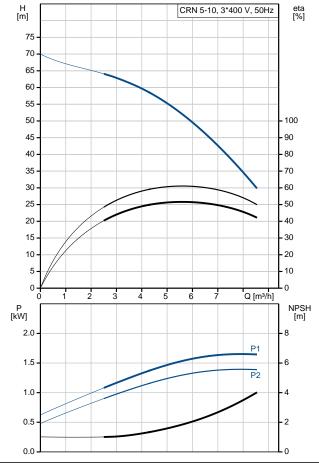
96492985 CRN 5-10 A-P-A-E-HQQE 50 Hz

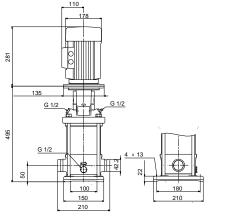


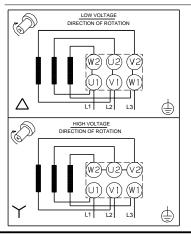


Created by: Phone:

Description	Value
General information:	ODN 5 40
Product name:	CRN 5-10 A-P-A-E-HQQE
Product No:	96492985
EAN number:	5700395932157
Technical:	3700393932137
Pump speed on which pump data are	
based:	2896 rpm
Rated flow:	5.8 m³/h
Rated head:	51.8 m
Head max:	69.7 m
Stages:	10
Impellers:	10
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CE, EAC,ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Base:	Stainless steel
	EN 1.4408
	AISI 316
Impeller:	Stainless steel
	EN 1.4401
	AISI 316
Material code:	A
Code for rubber:	E
Bearing:	SIC
Installation:	
Installation: Maximum ambient temperature:	60 °C
Installation: Maximum ambient temperature: Maximum operating pressure:	60 °C 25 bar
Installation: Maximum ambient temperature:	60 °C 25 bar 25 bar / 120 °C
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch DN 32
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch DN 32 1 1/4 inch
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch DN 32 1 1/4 inch PN 50
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch DN 32 1 1/4 inch PN 50 FT115
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch DN 32 1 1/4 inch PN 50
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch DN 32 1 1/4 inch PN 50 FT115 P
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch DN 32 1 1/4 inch PN 50 FT115 P Water
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch DN 32 1 1/4 inch PN 50 FT115 P Water -20 120 °C
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch DN 32 1 1/4 inch PN 50 FT115 P Water -20 120 °C 20 °C
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch DN 32 1 1/4 inch PN 50 FT115 P Water -20 120 °C
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch DN 32 1 1/4 inch PN 50 FT115 P Water -20 120 °C 20 °C 998.2 kg/m³
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch DN 32 1 1/4 inch PN 50 FT115 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch DN 32 1 1/4 inch PN 50 FT115 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC 90SB
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch DN 32 1 1/4 inch PN 50 FT115 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC 90SB IE3
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch DN 32 1 1/4 inch PN 50 FT115 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC 90SB
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch DN 32 1 1/4 inch PN 50 FT115 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC 90SB IE3 1.5 kW
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 32 1 1/4 inch DN 32 1 1/4 inch PN 50 FT115 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC 90SB IE3 1.5 kW 1.5 kW









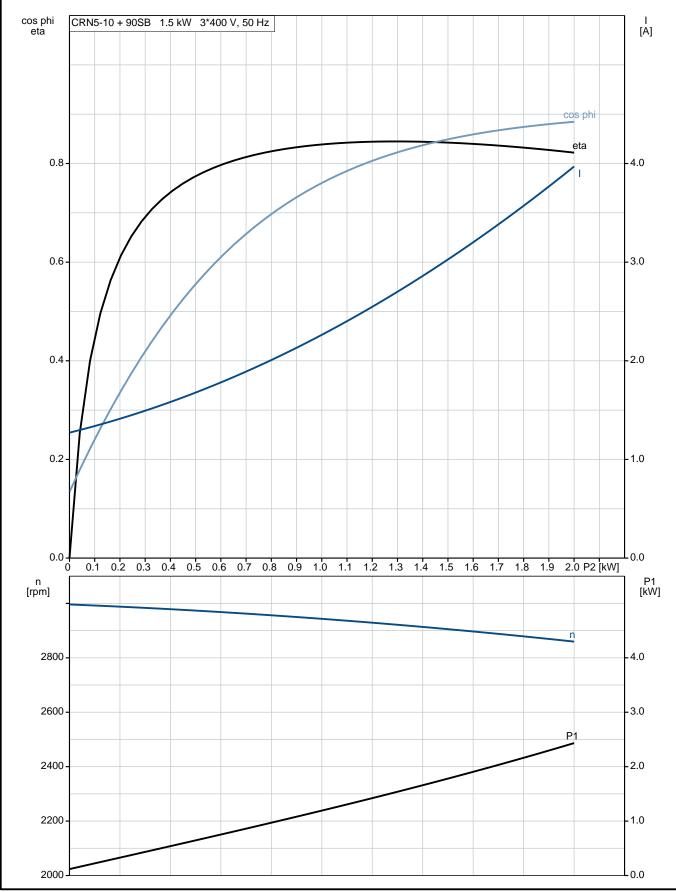
Description	Value
Rated current:	5.45/3.15 A
Starting current:	850-930 %
Cos phi - power factor:	0.87-0.82
Rated speed:	2890-2910 rpm
Efficiency:	IE3 84,2%
Motor efficiency at full load:	84.2 %
Motor efficiency at 3/4 load:	84.5 %
Motor efficiency at 1/2 load:	83.1 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85U05906
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.57
Net weight:	33.7 kg
Gross weight:	37.7 kg
Shipping volume:	0.092 m ³
Danish VVS No.:	385912010
Norwegian NRF no.:	9040479



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96492985 CRN 5-10 A-P-A-E-HQQE 50 Hz

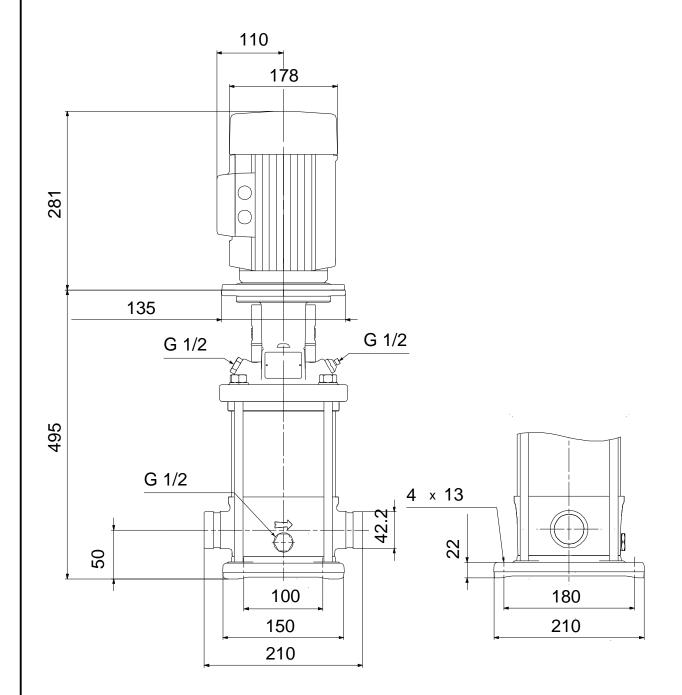




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Date: 16/02/2019

96492985 CRN 5-10 A-P-A-E-HQQE 50 Hz



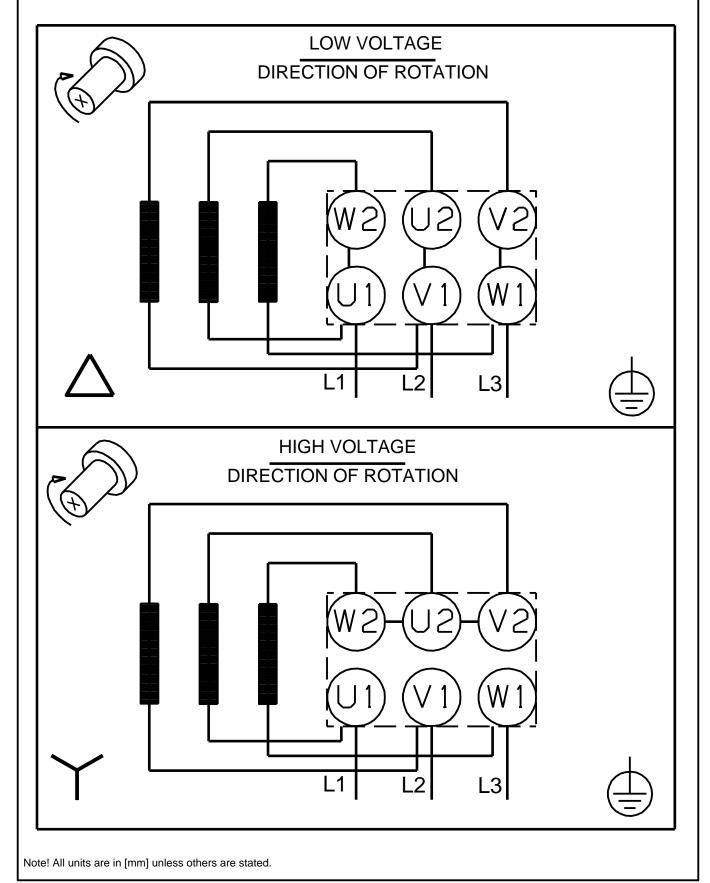
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



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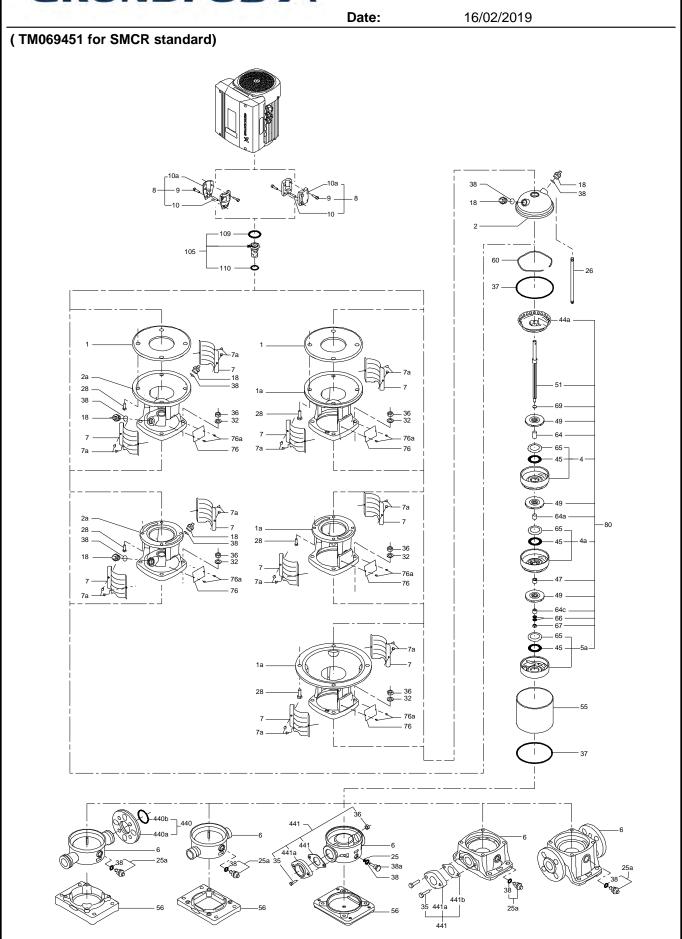
Date: 16/02/2019

96492985 CRN 5-10 A-P-A-E-HQQE 50 Hz





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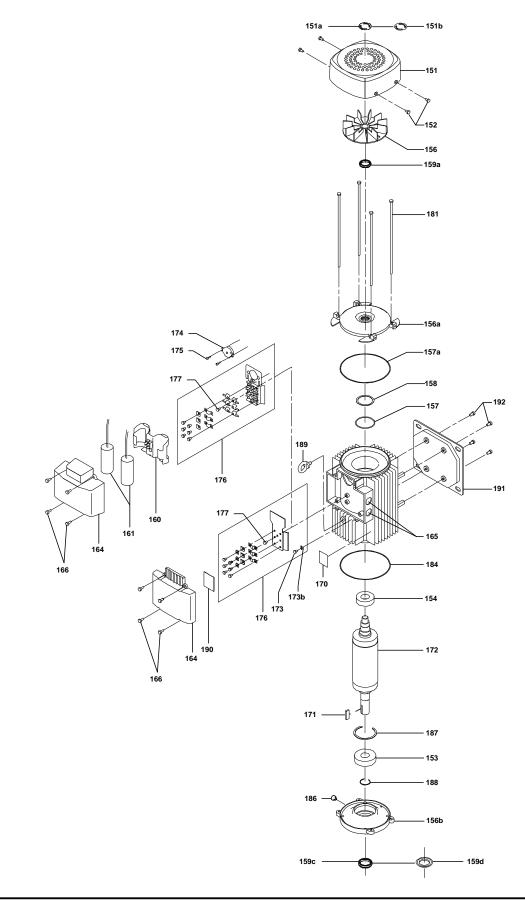




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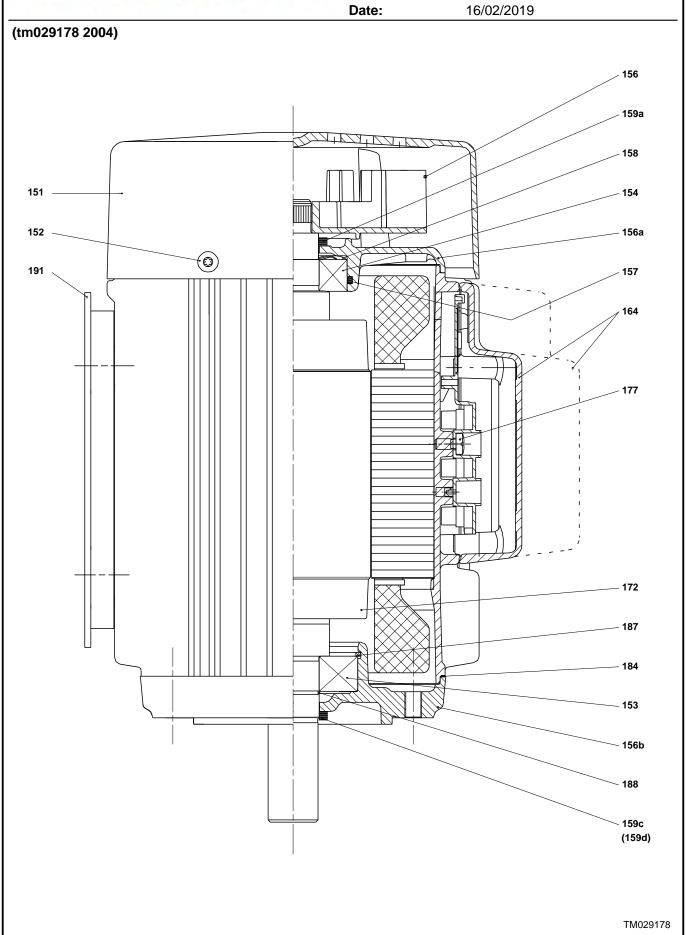
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TM029184



Created by: Phone:





Created by: Phone:

Date: 16/02/2019

Spare parts CRN 5-10, Product No. 96492985 Valid from 1.1.2011 (1152)

	Pos	Description	Annotation	Classification Data	Part no.		. Uni
-	80	Kit, chamber stack		Bearing type: SILICON CARBIDE	96453606	1	pcs
	4a	Chamber w. bearing cpl.					2
		Chamber					
	45	Neck ring					
	65	Neck ring retainer					
-	4	Chamber cpl.					7
		Chamber					
	45	Neck ring					
	65	Neck ring retainer					
-	5a	Chamber cpl.					1
		Chamber					
	45	Neck ring					
	65	Neck ring retainer					
-	44a	Guide vane					1
		Plate					
		Guide vane					
	50	Top plate					
	47	Bearing ring, rotating					2
+	49	Impeller cpl.					10
	51	Shaft, spline, cpl.					1
		Shaft					
	62	Stop ring					
	64d	Spacing pipe		Internal diameter: 12,85			1
		op 3.5. p		Outer diameter: 15,85			
				Length (mm): 4,50			
	64c	Clamp, splined		Internal diameter: 8,5			1
	0.0	очатр, оршио		Outer diameter: 15			
	64a	Spacing pipe		Length (mm): 13.00			2
	64	Spacing pipe		Length (mm): 26.0			7
	66	Wedge lock washer		Longar (mm). 20.0			1
	67	Lock nut		Thread: M8			1
	69	Spacing pipe		Length (mm): 2.00			1
	03	Kit, coupling		Lengur (mm). 2.00	00415062		pcs
	9			Designation: DIN 912	00413002		
	9	Hex socket head cap screw					4
				Length (mm): 25			
	10-	O a combine m b a life		Thread: M8			^
	10a	Coupling half		Diameter 5			2
	10	Shaft pin		Diameter: 5			1
				Length (mm): 26			
	_	Kit, coupling guard			96505131		pcs
	7.a	Combi Slot Torx screw					4
	7	Coupling guard					2
•		Kit, gaskets			96455090		pcs
	37	O-ring					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
	109	O-ring		Diameter: 22,00 Material type: EPDM			1



	Pos	Description		/. t	
-		Kit, plug	96505133 1		cs
-	18	Air vent screw		1	
		Spindle			
		Plug			
	23b	Spindle		1	
	25	Plug		1	
	25	Plug		1	
	38	O-ring	Diameter: 16,3	1	
			Material type: FKM		
			Thickness: 2,4		
	38	O-ring	Diameter: 16,3	2	
		- 3	Material type: FKM		
			Thickness: 2,4		
	38	O-ring	Diameter: 16,3	1	
	00	O Ting	Material type: EPDM	•	
			Thickness: 2,4		
	38	Oring	Diameter: 16,3	2	
	30	O-ring	Material type: EPDM	_	
		Wit abott and LICOT	Thickness: 2,4		
-	405	Kit, shaft seal HQQE	96455086 1		cs
+	105	Shaft seal	Material type: HQQE	1	
-	_	Kit, wear parts	Material type: SIC 96455097 1		cs
-	4a	Chamber w. bearing cpl.		2	
		Chamber			
	45	Neck ring			
	65	Neck ring retainer			
	45	Neck ring		10	
	47	Bearing ring, rotating		2	
	64c	Clamp, splined	Internal diameter: 8,5	1	
			Outer diameter: 15		
	64a	Spacing pipe	Length (mm): 13.00	2	
	65	Neck ring retainer		10	
	66	Wedge lock washer		1	
	67	Lock nut	Thread: M8	1	
	441b	Gasket		2	
-		Motor	85903713 1		ocs
-		Kit, bearing cpl.	96279794	1	-
	111	Ball bearing		-	
	111	Ball bearing			
	157	O-ring	Diameter: 52		
	101	∪ mig	Material type: NBR		
			Thickness: 3		
	158	Waved washer	HIICAIESS. 3		
	187	Retaining ring			
	188	Retaining ring	*********		
-	450	Kit, end shield	96279789	1	
	156a	End shield			
	157a	Gasket	Internal diameter: 141,2		
			Outer diameter: 145,5		
			Thickness: 0,2		
	157	O-ring	Diameter: 52		
			Material type: NBR		
			Thickness: 3		
	158	Waved washer			
	159a	Seal ring			
-		Kit, fan	96279757	1	
	156	Fan	33210101	•	
		Seal ring			
	159a	Searring			



Pos 151	Description Fan cover	Annotation Classification Data Part no. Qty	y. Ur
152	Pan head thread forming screw	00070777	
4=01	Kit, flange	96279777	1
156b	Flange		
159.c	Seal ring		
184	Gasket	Internal diameter: 141,2	
		Outer diameter: 145,5	
		Thickness: 0,2	
186	Drain plug		
	Kit, retaining ring	96279798	1
187	Retaining ring		
188	Retaining ring		
	Kit, shaft seal	96279761	1
159c	Seal ring		
159a	Seal ring		
	Kit, staybolts	96279791	1
181	Pan head staybolt	33210101	•
.01	Kit, terminal board	96279769	1
173a	Base	30219109	-
173a		Decignation: COMPLITORY TOF	
	Pan head thread forming screw	Designation: COMBLTORY T25	
176	Slot cheese head screw	Designation: COMBI TORX T25	
		Length (mm): 10	
470	Tomologic	Thread: M5	
176	Terminal		
176	Connecting piece		
176	Wire clamp		
176	Terminal board		
177	Pan head screw		
	Kit, terminal box	96279771	1
164	Terminal box cover w/gasket		
166	Pan head thread forming screw		
1a	Pump head	98906053 1	рс
2	Pump cover	96588244 1	рс
4a	Bulk, Chamber w. bearing cpl. (5 pcs)	96547653 2	рс
4a	Chamber w. bearing cpl.	98371281 2	pc
4	Chamber cpl.	98371279 7	pc
45	Bulk, Neck ring (24 pcs)		1
5a			
	Chamber cpl.	98371278 1	pc
6	Base	96588139 1	pc
7.a	Bulk, Combi Slot Torx screw (1000 pcs)	96886324 4	pc
7	Bulk, Coupling guard (10 pcs)	96603690 2	рс
10	Bulk, Shaft pin (10 pcs)	Diameter: 5 96536473 1	рс
		Length (mm): 26	
18	Bulk, Air vent screw (5 pcs)	96547461 1	рс
18	Air vent screw	95061351 1	рс
25	Bulk, Plug (10 pcs)	96536013 1	рс
25a	Drain plug w/bypass valve	96588243 1	pc
38	Bulk, O-ring (10 pcs)	Diameter: 16,3 99198815	
	,	Material type: EPDM	
		Thickness: 2,4	
38	Bulk, O-ring (50 pcs)	Diameter: 16,3 99412727	1
00	zant, o mig (oo poo)	Material type: EPDM	
		• • • • • • • • • • • • • • • • • • • •	
20	Ctoubalt	Thickness: 2,4	
26	Staybolt	Length (mm): 367 98985634 4	pc
	D. II. O. I. (0)	Thread: M12	
37	Bulk, O-ring (24 pcs)	96547656 2	рс
38	Bulk, O-ring (10 pcs)	Diameter: 16,3 99198815 2	рс
		Material type: EPDM	



	Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
				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	1	pcs
	47	Bulk, Bearing ring, rotating (10 pcs)			97905743	2	pcs
	47	Bearing ring, rotating			96547649	2	pcs
+	49	Bulk, Impeller cpl. (10 pcs)			97643331	10	pcs
+	49	Bulk, Impeller cpl. (24 pcs)			96547650	10	pcs
+	49	Impeller cpl.			98394423	10	pcs
+	51	Shaft, spline, cpl.			96588235	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	7	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