

Date: 16/02/2019

Qty. | Description

1 | CRN 20-5 A-P-A-E-HQQE



Product No.: 96500561

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

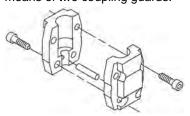
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An 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.

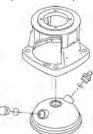
The colour code for the finished product is NCS 9000/RAL 9005.

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 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

Liquid:

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



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Technical:

Pump speed on which pump data are based: 2919 rpm

Rated flow:

Rated head:

Pump orientation:

Shaft seal arrangement:

Code for shaft seal:

Approvals on nameplate:

Curve tolerance:

S1 m³/h

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: 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:

Size of inlet connection:

DN 50
2 inch
Size of outlet connection:

DN 50

2 inch

Pressure rating for pipe connection: PN 50 Flange size for motor: FF265

Electrical data:

Motor standard: IEC
Motor type: 132SC
IE Efficiency class: IE3
Rated power - P2: 5.5 kW
Power (P2) required by pump: 5.5 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-415D V

Rated current: 11 A

Starting current: 1080-1180 %
Cos phi - power factor: 0.87-0.82
Rated speed: 2920-2940 rpm
Efficiency: IE3 89,2%
Motor efficiency at full load: 89.2 %
Motor efficiency at 3/4 load: 90.0 %
Motor efficiency at 1/2 load: 89.6 %
Number of poles: 2

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

Insulation class (IEC 85): F

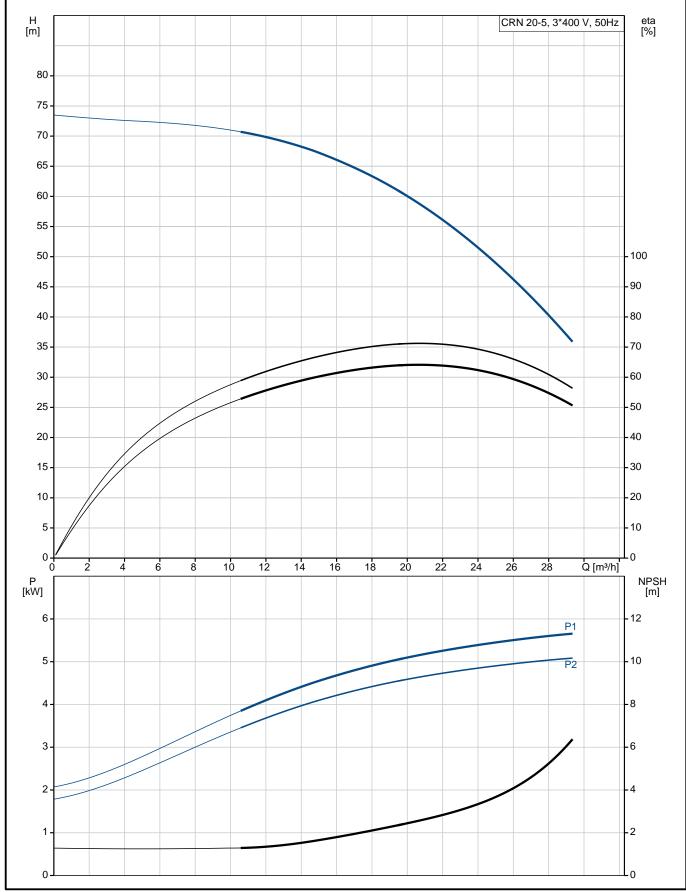
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 83 kg
Gross weight: 105 kg
Shipping volume: 0.285 m³
Danish VVS No.: 385915050



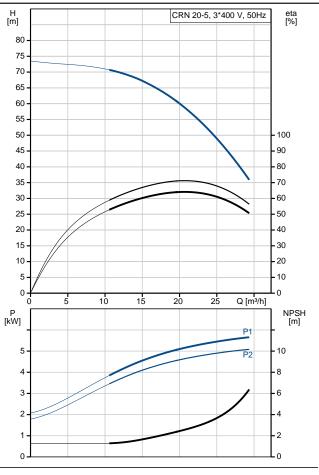
Date: 16/02/2019

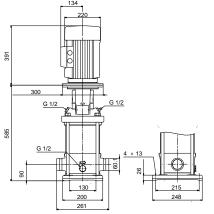
96500561 CRN 20-5 A-P-A-E-HQQE 50 Hz

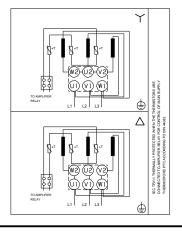




Description	Value
General information:	
	CRN 20-5
Product name:	A-P-A-E-HQQE
Product No:	96500561
EAN number:	5700396204284
Technical:	
Pump speed on which pump data are	
based:	2919 rpm
Rated flow:	21 m³/h
Rated head:	58 m
Head max:	73.4 m
Stages:	5
Impellers:	5
Number of reduced-diameter impellers:	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:	
Materials:	A
	0
Base:	Stainless steel
	EN 1.4408
	AISI 316
Impeller:	Stainless steel
	EN 1.4401
	AISI 316
Material code:	A
Code for rubber:	Е
Code for rubber: Bearing:	E SIC
	_
Bearing:	
Bearing: Installation:	SIC
Bearing: Installation: Maximum ambient temperature:	SIC 60 °C
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure:	SIC 60 °C 25 bar
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure:	SIC 60 °C 25 bar 25 bar / 120 °C
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 50 2 inch
Bearing: 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:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 50 2 inch PN 50
Bearing: 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:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 50 2 inch
Bearing: 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:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 50 2 inch PN 50 FF265
Bearing: 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:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 50 2 inch PN 50 FF265 P
Bearing: 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:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 50 2 inch PN 50 FF265 P Water
Bearing: 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:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 50 2 inch PN 50 FF265 P Water -20 120 °C
Bearing: 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:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 50 2 inch PN 50 FF265 P Water -20 120 °C 20 °C
Bearing: 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:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 50 2 inch PN 50 FF265 P Water -20 120 °C
Bearing: 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:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 50 2 inch PN 50 FF265 P Water -20 120 °C 20 °C 998.2 kg/m³
Bearing: 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:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 50 2 inch PN 50 FF265 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC
Bearing: 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:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 50 2 inch PN 50 FF265 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC
Bearing: 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:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 50 2 inch PN 50 FF265 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC IE3
Bearing: 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:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 50 2 inch PN 50 FF265 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC IE3 5.5 kW
Bearing: 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:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 50 2 inch PN 50 FF265 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC IE3 5.5 kW 5.5 kW
Bearing: 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: Mains frequency:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 50 2 inch PN 50 FF265 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC IE3 5.5 kW 5.5 kW 50 Hz
Bearing: 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:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 50 2 inch PN 50 FF265 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC IE3 5.5 kW 5.5 kW







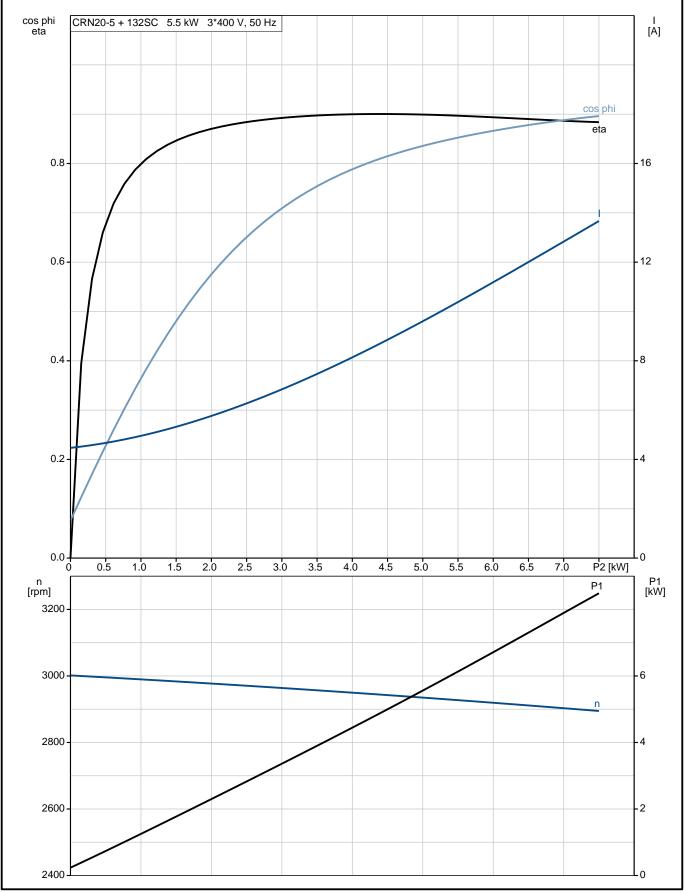


Description	Value
Starting current:	1080-1180 %
Cos phi - power factor:	0.87-0.82
Rated speed:	2920-2940 rpm
Efficiency:	IE3 89,2%
Motor efficiency at full load:	89.2 %
Motor efficiency at 3/4 load:	90.0 %
Motor efficiency at 1/2 load:	89.6 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17417
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	83 kg
Gross weight:	105 kg
Shipping volume:	0.285 m ³
Danish VVS No.:	385915050



Date: 16/02/2019

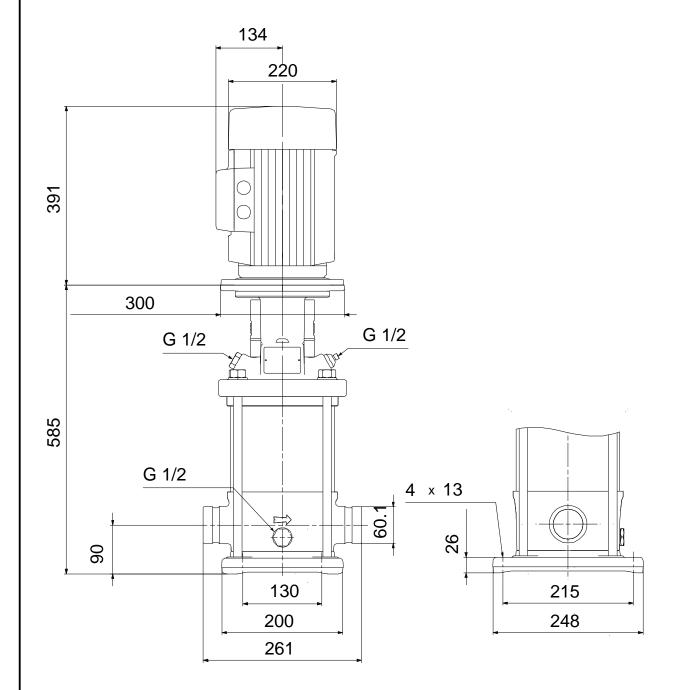
96500561 CRN 20-5 A-P-A-E-HQQE 50 Hz





Date: 16/02/2019

96500561 CRN 20-5 A-P-A-E-HQQE 50 Hz

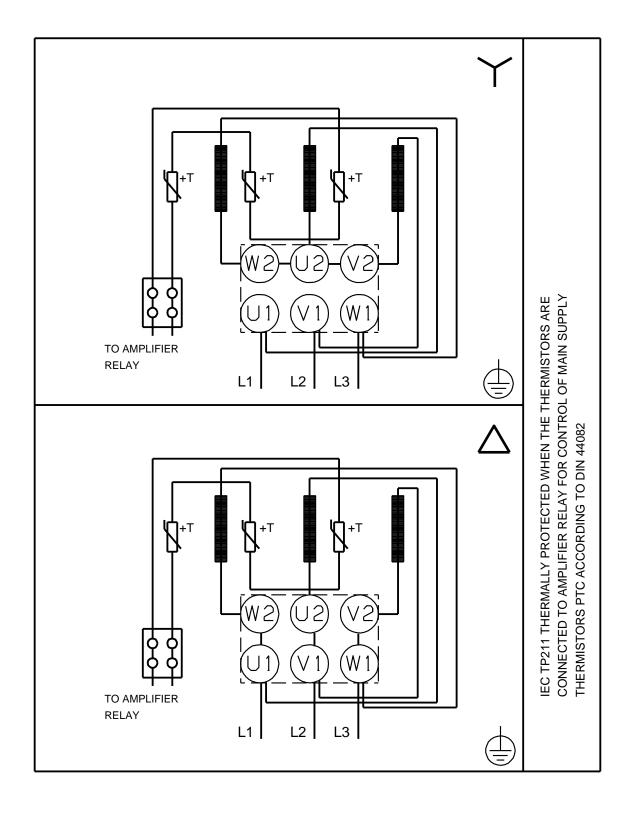


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 16/02/2019

96500561 CRN 20-5 A-P-A-E-HQQE 50 Hz

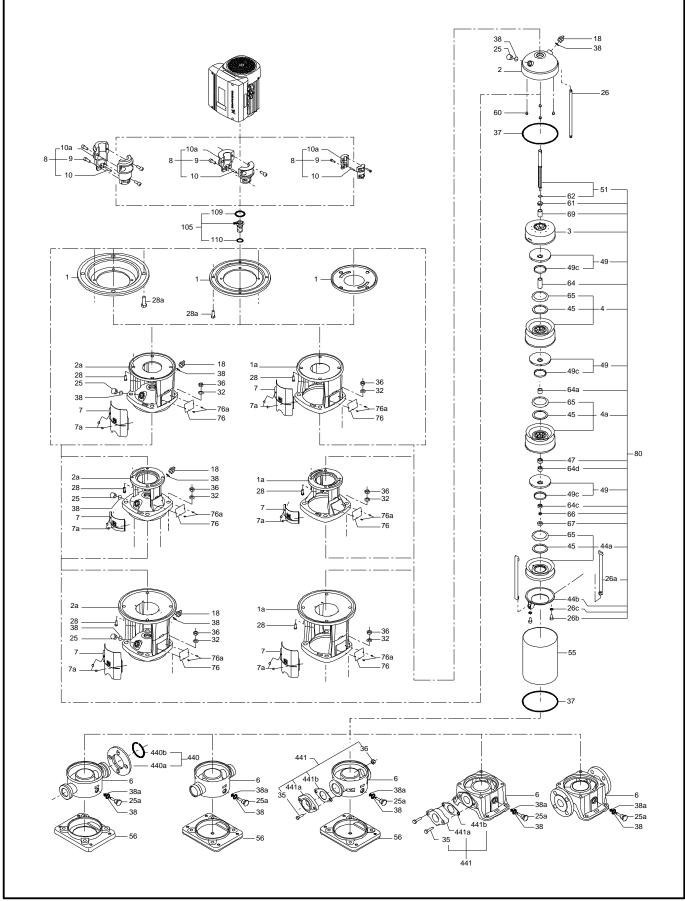


Note! All units are in [mm] unless others are stated.



Date: 16/02/2019

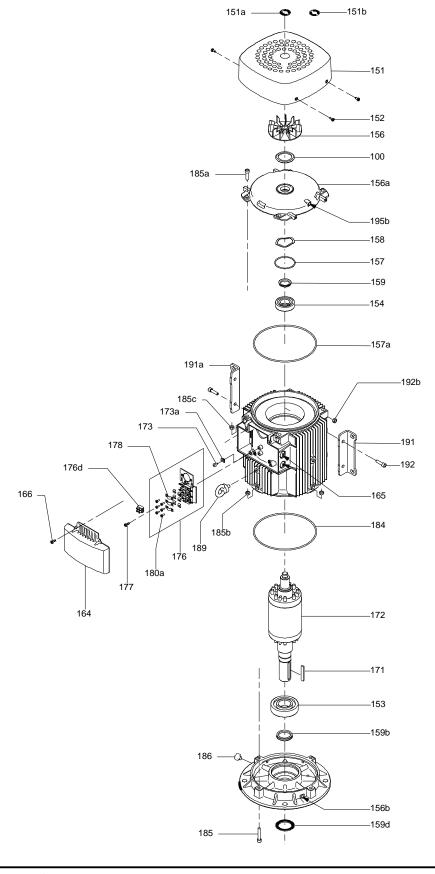
(tm069469 for MECR15,20 standard)



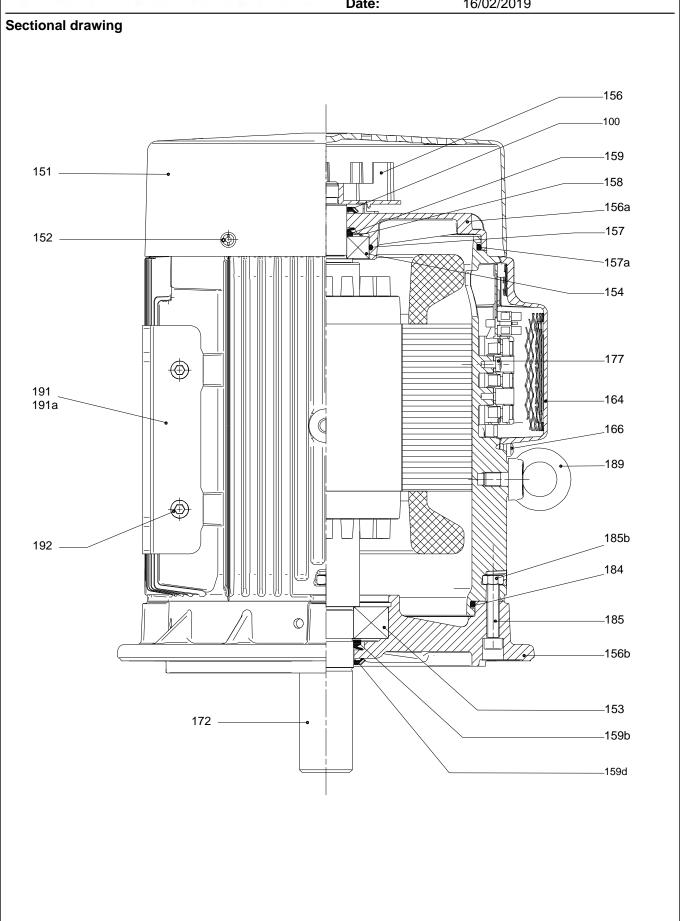


Date: 16/02/2019

Exploded view



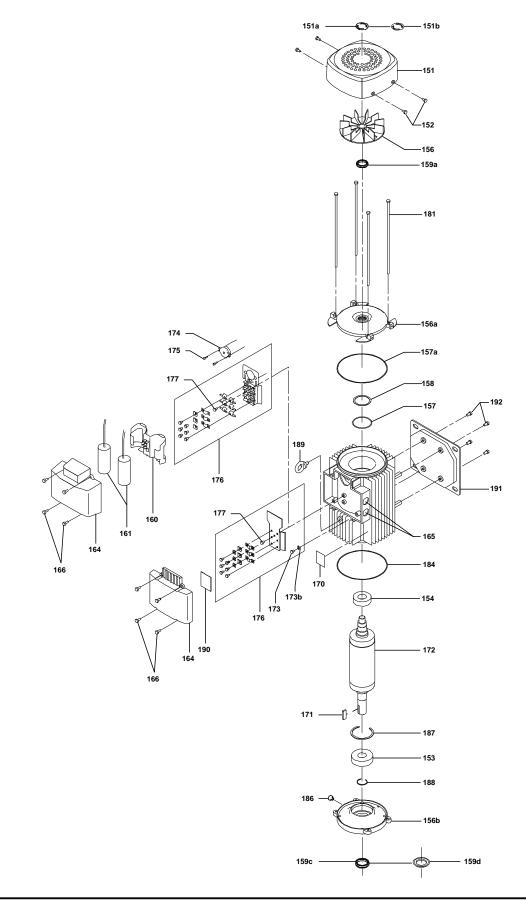






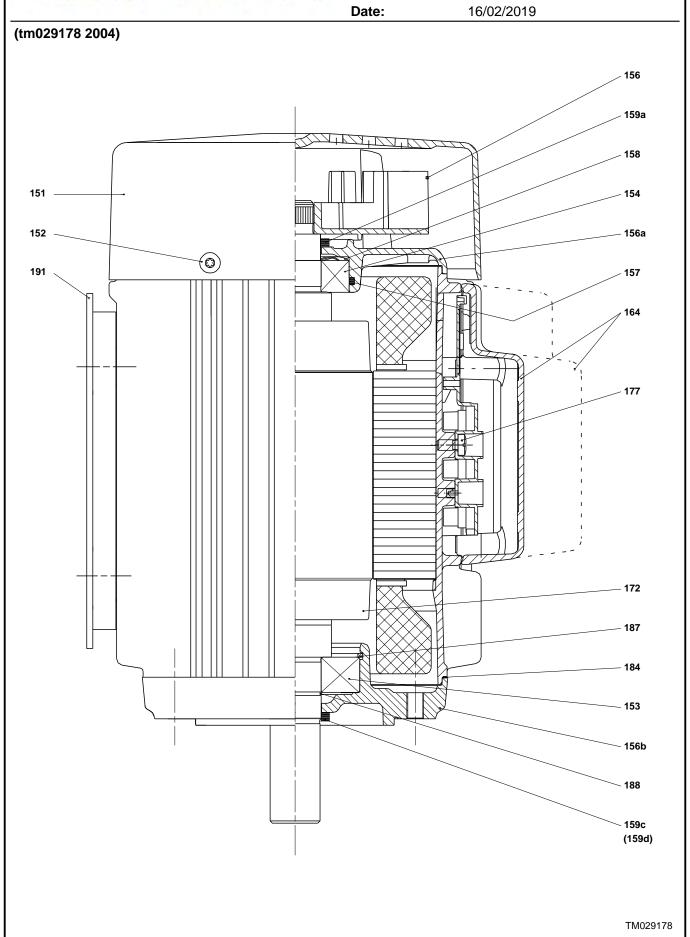
Date: 16/02/2019

(tm029184 0505)



TM029184







Date: 16/02/2019

Spare parts CRN 20-5, Product No. 96500561 Valid from 1.1.2011 (1152)

	Pos	Description Kit, chamber stack	Annotation	Classification Data	Part no. 96491788	Qty.	Unit
	90	Chamber stack			90491788		pcs
	80					1	
-	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.					
	26.c	Washer		Designation: DIN 125A			
				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): 12.7			
	64a	Spacing pipe		Internal diameter: 17,5			
	Ота	Ораспід рірс		Length (mm): 17			
	64	Spacing pipe		Length (mm): 43.6			
	66	Wedge lock washer		Lengur (mm). 43.0			
	67	Lock nut		Thread: M8			
	69	Spacing bush		Tillead. Mo			
	09				00544054	4	
-		Kit, coupling			96511351		pcs
	•	Adjusting fork				1	
-	8	Coupling		D : (: DIN 040		1	
	9	Hex socket head cap screw		Designation: DIN 912			
				Length (mm): 25			
				Thread: M10			
	10a	Coupling half					
	10	Shaft pin		Diameter: 5			
				Length (mm): 26			
-		Kit, coupling guard			96509613		pcs
	7.a	Combi Slot Torx screw				4	1



Pos	Description	Annotation Classification Data	Part no.	Qty	. Un
7	Coupling guard				2
	Kit, gaskets		96509609	1	pc
	Gasket				2
24	O-ring				2
37	O-ring				2
38a	O-ring	Diameter: 5,3			1
		Material type: EPDM			
		Thickness: 2,4			
20	O win a				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: 49			2
4410	Gasket	Outer diameter: 92			_
		Thickness: 2			
	Kit, plug		96511312	1	рс
18	Air vent screw				1
	Spindle				
	Plug				
25a	Drain plug				1
25	Plug				1
38a	O-ring	Diameter: 5,3			1
Soa	O-ning				ı
		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
		Material type: FKM			
		Thickness: 2,4			
38	O ring	Diameter: 16,3			2
30	O-ring				_
		Material type: FKM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			1
		Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			2
	- J	Material type: EPDM			
		Thickness: 2,4			
	Vit. aboft and HOOF	HIICKHUSS. Z,4	06544044	1	- -
	Kit, shaft seal HQQE		96511844	1	pc
	Emery cloth				1
	Grinding device				1
105	Shaft seal	Material type: HQQE			1
	Kit, wear parts		96511824	1	рс
4a	Intermediate chamber cpl.				1
	Sand Lifter				
	Guide cup				
	Bearing plate				
	Guide vane				
3	Intermediate chamber				
45a	Neck ring cpl.				
47	Bearing bush				
65	Retainer				
20	Washer	Designation: DIN 125A			2
26.c					



	Description	Annotation Classification Data Part no. Qty	/. U
26.b	Hex head screw		2
45a	Neck ring cpl.		5
47	Bearing ring		1
49c	Wear ring		6
62	Retaining ring		1
64d	Spacing bush		1
64c	Spacing pipe	Length (mm): 12.7	1
64b	Spacing bush	Length (mm): 5.00	1
64a	Spacing pipe	Internal diameter: 17,5	1
		Length (mm): 17	
65	Retainer		5
66	Wedge lock washer		1
67	Lock nut	Thread: M8	1
	Motor	85904020 1	рс
	Kit, bearing cpl.	96279803	
111	Ball bearing	Designation: 6206.2Z.C3.SYN	•
153	Angular-contact bearing	Designation. 0200.22.03.0114	
		Diameter: 62	
157	O-ring		
		Material type: NBR	
		Thickness: 3	
158	Waved washer		
	Kit, end shield	96279790	1
156a	End shield		
157	O-ring	Diameter: 62	
		Material type: NBR	
		Thickness: 3	
158	Waved washer		
159a	Seal ring		
	Kit, eyebolt	96279825	1
189	Eyebolt	002.0020	-
100	Kit, fan	96279758	1
156	Fan	90219130	'
159c	Seal ring		
159a	Seal ring		
	Kit, fan cover	96279756	1
151b	Label		
151	Fan cover		
152	Pan head thread forming screw		
	Kit, flange	96279784	1
156b	Flange		
159.c	Seal ring		
186	Drain plug		
-	Kit, retaining ring	96279801	1
187	Retaining ring	3327 300 1	-
188	Retaining ring		
100	Kit, shaft seal	96279764	1
1504	-	90279704	'
159d	Seal ring		
159c	Seal ring	***************************************	_
	Kit, staybolts	96279793	1
181	Pan head staybolt		
	Kit, terminal board	96279769	1
173a	Base		
173	Pan head thread forming screw	Designation: COMBI TORX T25	
176	Slot cheese head screw	Designation: COMBI TORX T25	
-		Length (mm): 10	
		Thread: M5	
		THIOUG. IVIO	
176	Torminal		
176 176	Terminal Connecting piece		



Pos 176	Description Terminal board	Annotation Classification Data Part no. Qty	/. U
177	Pan head screw	00070770	,
404	Kit, terminal box	96279772	1
164	Terminal box cover w/gasket		
166	Pan head thread forming screw		
	Motor	85901556 1	p
	Kit, bearing cpl.	96279803	1
111	Ball bearing	Designation: 6206.2Z.C3.SYN	
153	Angular-contact bearing		
157	O-ring	Diameter: 62	
		Material type: NBR	
		Thickness: 3	
158	Waved washer		
	Kit, end shield	96279790	1
156a	End shield		
157	O-ring	Diameter: 62	
		Material type: NBR	
		Thickness: 3	
158	Waved washer	THIORISON O	
159a	Seal ring		
1334	Kit, eyebolt	96279825	1
189	Eyebolt	902/9023	1
109		00070750	1
450	Kit, fan	96279758	1
156	Fan		
159c	Seal ring		
159a	Seal ring		
	Kit, fan cover	96279756	1
151b	Label		
151	Fan cover		
152	Pan head thread forming screw		
	Kit, flange	96279784	1
156b	Flange		
159.c	Seal ring		
186	Drain plug		
	Kit, retaining ring	96279801	1
187	Retaining ring		
188	Retaining ring		
	Kit, shaft seal	96279764	1
159d	Seal ring	002.0101	•
159c	Seal ring		
1030	Kit, staybolts	96279793	1
181	Pan head staybolt	50279793	1
101		00070700	1
470-	Kit, terminal board	96279769	1
173a	Base	Designation OOMBLTODY TO	
173	Pan head thread forming screw	Designation: COMBI TORX T25	
176	Slot cheese head screw	Designation: COMBI TORX T25	
		Length (mm): 10	
		Thread: M5	
176	Terminal		
176	Connecting piece		
176	Wire clamp		
176	Terminal board		
177	Pan head screw		
	Kit, terminal box	96279772	1
164	Terminal box cover w/gasket	5-2-02	
166	Pan head thread forming screw		
	i an noda anoda ionimig solow		
	Pump head	98914854 1	р



	Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
	2	Pump cover			98481138	1	pcs
+	3	Bulk, Top intermediate chamber (3 pcs)			98371113	1	pcs
+	3	Top intermediate chamber			98734577	1	pcs
+	4a	Bulk, Intermediate chamber cpl. (10 pcs)			96538853	1	pcs
+	4a	Intermediate chamber cpl.			98371117	1	pcs
-	4	Bulk, Intermediate chamber cpl. (10 pcs)			96538840	3	pcs
	3	Intermediate chamber			983711	43 1	
	65	Retainer			965473	841 1	
+	4	Intermediate chamber cpl.			98371115	3	pcs
	6	Base			98654159	1	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	1	pcs
	25	Bulk, Plug (10 pcs)			96536013	1	pcs
	26a	Strap cpl.			98967460	2	pcs
	26.c	Bulk, Washer (4 pcs)		Designation: DIN 125A	99262704	2	pcs
				Thickness: 1,6			
	26.c	Washer		Designation: DIN 125A	96586880	2	pcs
				Thickness: 1,6			
	26	Staybolt			98982878	4	pcs
	37a	Bulk, O-ring (20 pcs)			96538857	1	pcs
	38a	Bulk, O-ring (10 pcs)		Diameter: 5,3	99198791	1	pcs
				Material type: EPDM			
				Thickness: 2,4			
	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			
	44b	Inlet part			98814593		pcs
+	44a	Inlet part cpl.			98818922	1	pcs
	47	Bulk, Bearing ring (10 pcs)				1	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.			98368632		pcs
	55	Outer sleeve			98812637		pcs
	56	Base plate			98481136		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	1	pcs
				Length (mm): 17			
	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)		M	96620489		pcs
	105	Bulk, Shaft seal (11 pcs)		Material type: HQQE	96538914	1	pcs