

Date: 16/02/2019

Qty. | Description

1 | CRN 10-14 A-P-A-E-HQQE



Product No.: 96501283

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

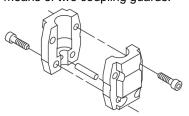
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

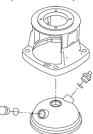
The colour code for the finished product is NCS 9000/RAL 9005.

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)

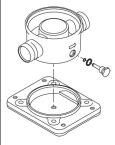
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



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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Qty. | Description

Technical:

Pump speed on which pump data are based: 2919 rpm

Rated flow: 10 m³/h
Rated head: 114.4 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 Stainless steel

Impeller: Stainless stee 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

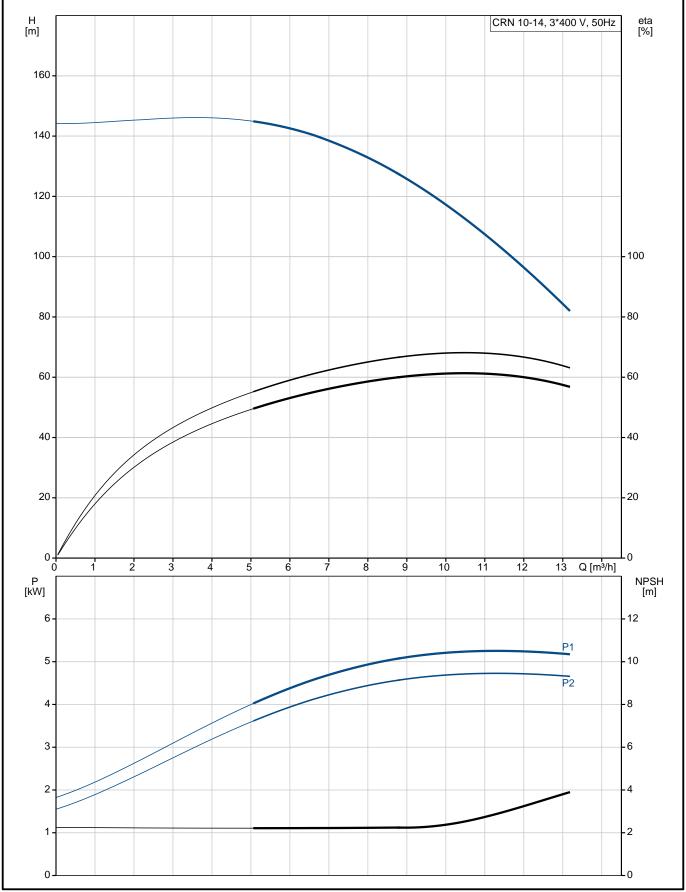
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 90 kg
Gross weight: 112 kg
Shipping volume: 0.285 m³
Danish VVS No.: 385913140



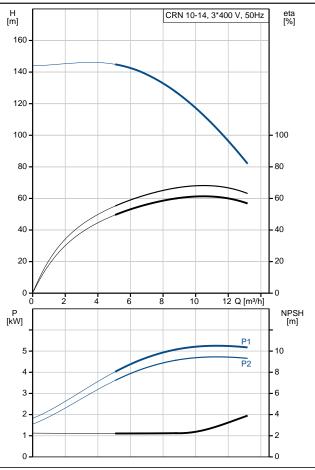
Date: 16/02/2019

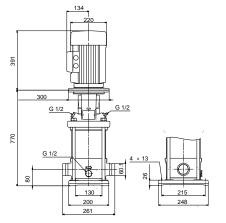
96501283 CRN 10-14 A-P-A-E-HQQE 50 Hz

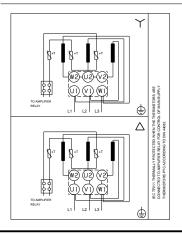




Description	Value
General information:	
	CRN 10-14
Product name:	A-P-A-E-HQQE
Product No:	96501283
EAN number:	5700396219011
Technical:	
Pump speed on which pump data are	0040
based:	2919 rpm
Rated flow:	10 m³/h
Rated head:	114.4 m
Head max:	143 m
Stages:	14
Impellers:	14
Number of reduced-diameter impellers:	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:	Α
Model:	A
Materials:	, , , , , , , , , , , , , , , , , , ,
Base:	Stainless steel
B 466.	EN 1.4408
	AISI 316
Impeller:	Stainless steel
impener.	EN 1.4401
	AISI 316
Material code:	A A
Code for rubber:	F
Code for rupper.	
	_
Bearing:	SIC
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:	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:	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:	SIC 60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C PJE DN 50 2 inch DN 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:	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 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:	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: 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
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:	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 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: 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







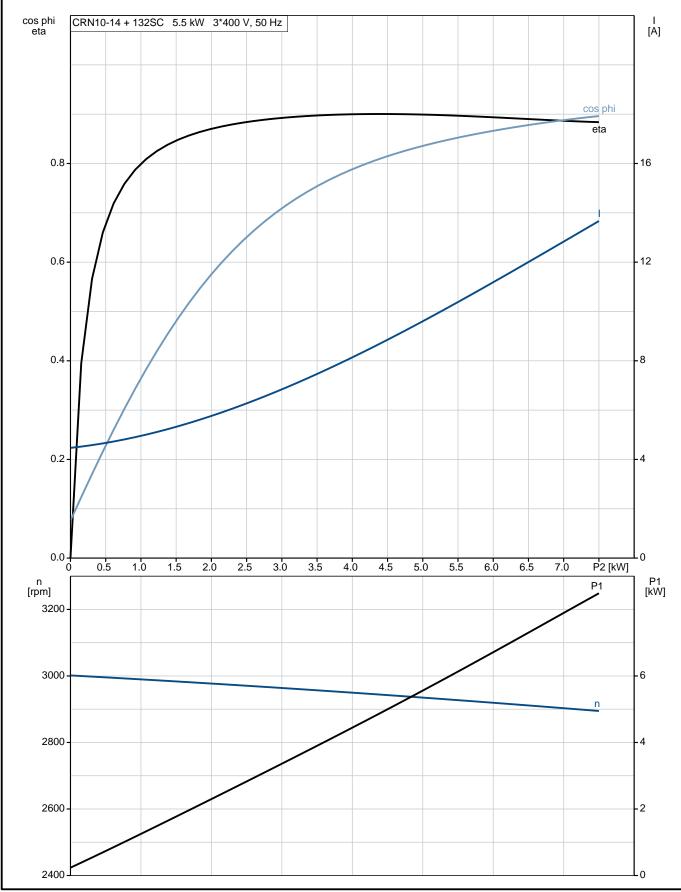


Description	Value
Starting current:	1080-1180 %
Cos phi - power factor:	0.87-0.82
Rated speed:	2920-2940 rpm
Efficiency:	IE3 89,2%
Motor efficiency at full load:	89.2 %
Motor efficiency at 3/4 load:	90.0 %
Motor efficiency at 1/2 load:	89.6 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17417
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	90 kg
Gross weight:	112 kg
Shipping volume:	0.285 m ³
Danish VVS No.:	385913140



Date: 16/02/2019

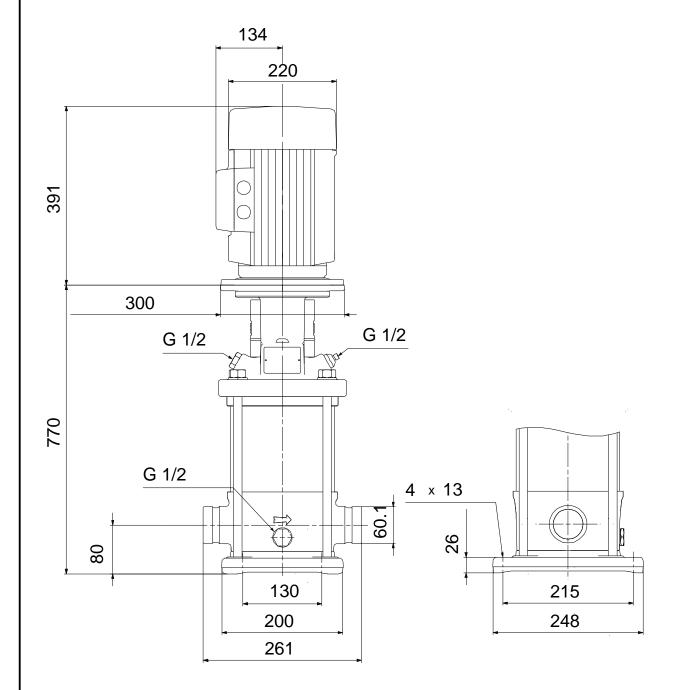
96501283 CRN 10-14 A-P-A-E-HQQE 50 Hz





Date: 16/02/2019

96501283 CRN 10-14 A-P-A-E-HQQE 50 Hz

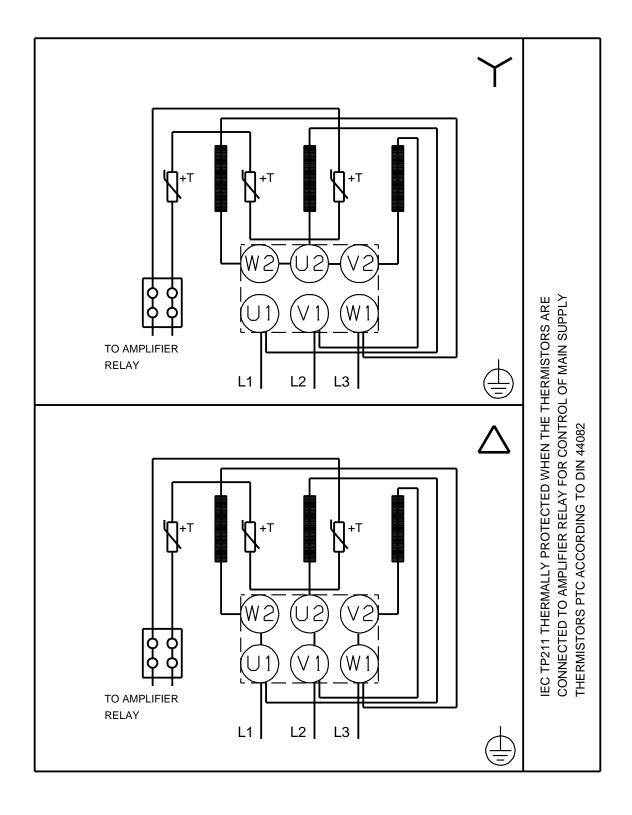


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 16/02/2019

96501283 CRN 10-14 A-P-A-E-HQQE 50 Hz



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

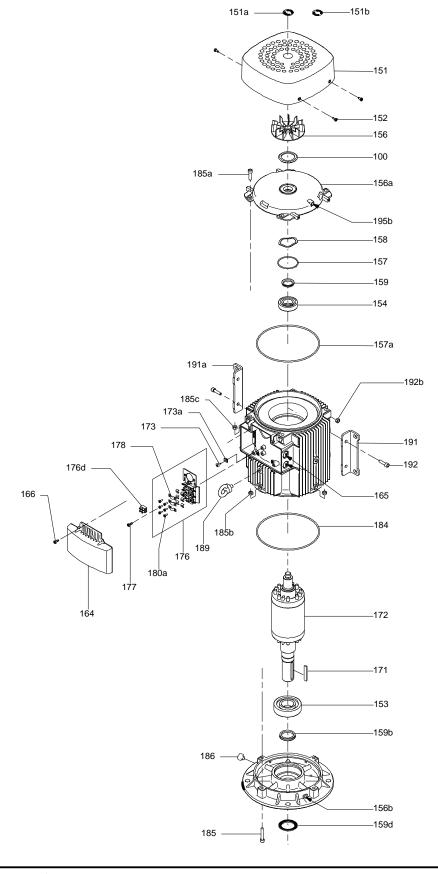


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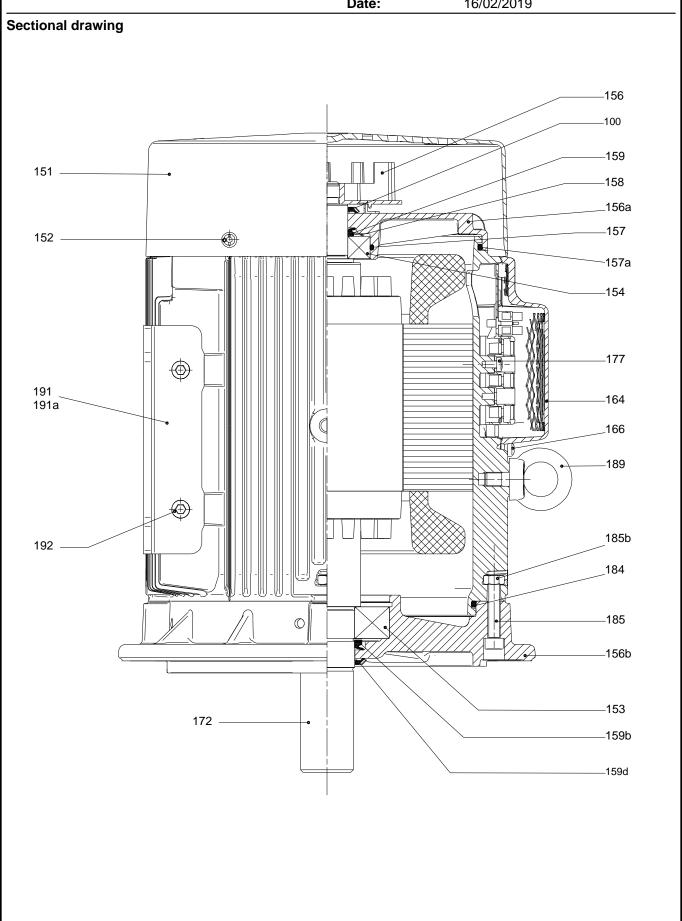


Date: 16/02/2019

Exploded view



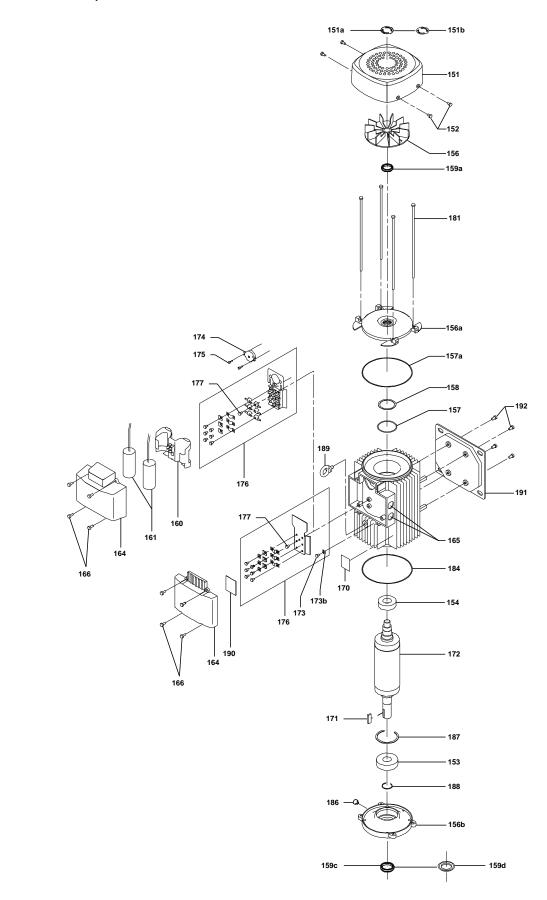






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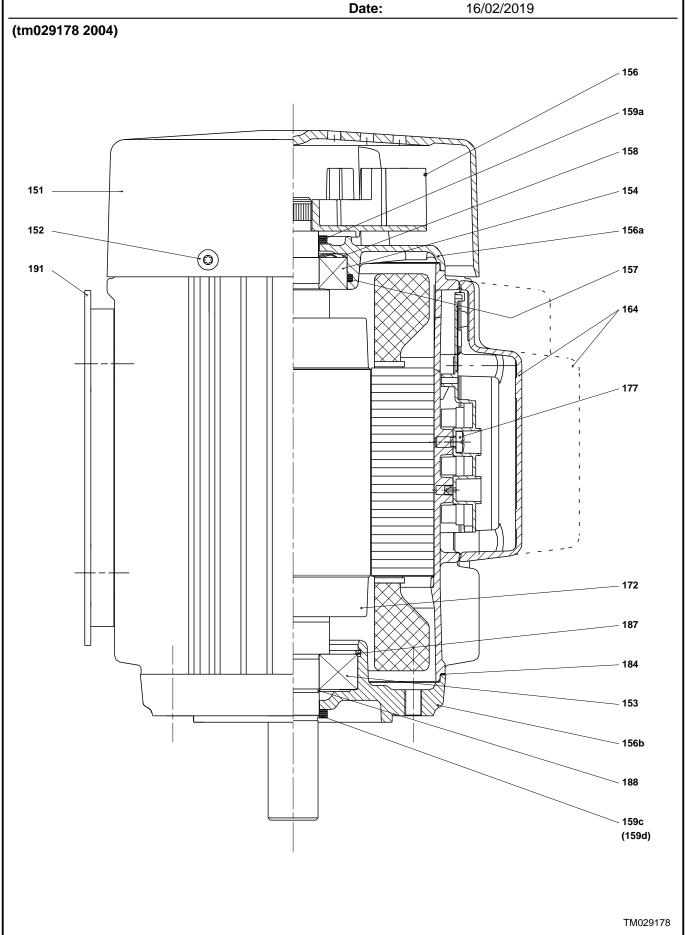
(tm029184 0505)



TM029184



Date:





Date: 16/02/2019

Spare parts CRN 10-14, Product No. 96501283 Valid from 1.1.2011 (1152)

Pos	Description Kit chamber stock	Annotation	Classification Data	Part no.		Unit
	Kit, chamber stack			96491731	1	pcs
- 80	Chamber stack				1	
3	Top intermediate chamber					
	Guide vane					
	Cover plate					
3	Top intermediate chamber					
4a	Intermediate chamber cpl.					
	Sand Lifter					
	Guide cup					
	Bearing plate					
	Guide vane					
3	Intermediate chamber					
45	Neck ring cpl.					
47	Bearing bush					
65	Retainer					
- 4	Intermediate chamber cpl.					
3	Intermediate chamber					
45	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.					
	Inlet part					
45	Neck ring cpl.					
65	Retainer					
47	Bearing ring					
49	Impeller cpl.					
- 51	Shaft, spline, cpl.					
	Bar					
62	Stop ring					
64c	Spacing pipe		Length (mm): 12.7			
64a	Spacing pipe Spacing bush		Length (mm): 9.00			
64.d	Spacer		Lengui (min). 9.00			
64	Spacing pipe		Length (mm): 29.05			
66	Wedge lock washer		Lengur (mm). 29.05			
	Lock nut		Thread: M8			
67						
69	Spacing bush		Length (mm): 18.00	00544054	4	
-	Kit, coupling			96511351		pcs
_	Adjusting fork				1	
- 8	Coupling				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	1	pcs
7.a	Combi Slot Torx screw				4	1
7	Coupling guard				2	2
	Kit, gaskets			96509609	1	pcs



Pos	Description Gasket	Annotation Classification Data	Part no.	2ty. 1
24				2
	O-ring			
37	O-ring	D:		2
38a	O-ring	Diameter: 5,3		1
		Material type: EPDM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		1
		Material type: EPDM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		2
	•	Material type: EPDM		
		Thickness: 2,4		
60	Spring			4
415	Gasket			2
441b	Gasket	Internal diameter: 49		2
4410	Gasket			
		Outer diameter: 92		
		Thickness: 2		
	Kit, plug	9	6511312 1	
18	Air vent screw			1
	Spindle			
	Plug			
25a	Drain plug			1
25	Plug			1
38a	O-ring	Diameter: 5,3		1
		Material type: FKM		
		Thickness: 2,4		
38a	O-ring	Diameter: 5,3		1
30a	O-IIIIg	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
		Material type: FKM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		1
	<u> </u>	Material type: EPDM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		2
	J mig	Material type: EPDM		
	Vit shoft and LICOT	Thickness: 2,4	OE14044 4	
	Kit, shaft seal HQQE		6511844 1	
	Emery cloth			1
	Grinding device			1
105	Shaft seal	Material type: HQQE		1
	Kit, wear parts	Material type: SIC	6511922 1	F
4a	Intermediate chamber cpl.			2
	Sand Lifter			
	Guide cup			
	Bearing plate			
	Guide vane			
3	Intermediate chamber			
45				
	Neck ring cpl.			
47	Bearing bush			
65	Retainer			
26.c	Washer	Designation: DIN 125A		2
		Thickness: 1,6		
26.b	Hex head screw			2
				12



Pos	Description	Annotation Classification Data Part no. Qty	y. Ur
47	Bearing ring		2
62	Retaining ring		1
64c	Spacing pipe	Length (mm): 12.7	1
64a	Spacing bush	Length (mm): 9.00	2
64.d	Spacer		2
65	Retainer		12
66	Wedge lock washer		1
67	Lock nut	Thread: M8	1
	Motor	85904020 1	рс
	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	THICKNIESS. 5	
130	Kit, end shield	06270700	1
1560	•	96279790	ı
156a	End shield	Diameter: 00	
157	O-ring	Diameter: 62	
		Material type: NBR	
		Thickness: 3	
158	Waved washer		
159a	Seal ring		
	Kit, eyebolt	96279825	1
189	Eyebolt		
	Kit, fan	96279758	1
156	Fan		
159c	Seal ring		
159a	Seal ring		
	Kit, fan cover	96279756	1
151b	Label	00210100	•
151	Fan cover		
152	Pan head thread forming screw		
132	Kit, flange	96279784	1
156b	Flange	90219104	'
150b	=		
	Seal ring		
186	Drain plug	00070004	
	Kit, retaining ring	96279801	1
187	Retaining ring		
188	Retaining ring		
	Kit, shaft seal	96279764	1
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	
176	Terminal	THIOGG. MO	
176	Connecting piece		
	- ·		
176	Wire clamp		
176	Terminal board		
177	Pan head screw		
	Kit, terminal box	96279772	1
164	Terminal box cover w/gasket		
166	Pan head thread forming screw		



Pos	Description Motor	Annotation Classification Data Part no. Qty	
	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		
159a	Seal ring		
	Kit, eyebolt	96279825	1
189	Eyebolt	00210020	•
.55	Kit, fan	96279758	1
156	Fan	30213130	•
159c			
159c	Seal ring		
1598	Seal ring	00070750	1
4541	Kit, fan cover	96279756	ı
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		
159c	Seal ring		
	Kit, staybolts	96279793	1
181	Pan head staybolt	302.0.00	•
101	Kit. terminal board	96279769	1
173a	Base	3027 07 00	•
173	Pan head thread forming screw	Designation: COMBI TORX T25	
176	Slot cheese head screw	Designation: COMBI TORX 125 Designation: COMBI TORX 125	
170	SIOL CHEESE HEAD SCIEW	Length (mm): 10	
470	Tamasiaal	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		
166	Pan head thread forming screw		
1a	Pump head	98914854 1	р
1	Flange	99104283 1	р
2	Pump cover	98481138 1	pı
3	Top intermediate chamber	98371084 1	p
4a	Intermediate chamber cpl.	98371088 2	p
TU			
4	Intermediate chamber cpl.	98371086 11	р



	Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
	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.			98947339	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			98982884	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	1	pcs
+	44a	Inlet part cpl.			98890953	1	pcs
	47	Bulk, Bearing ring (10 pcs)			96538795	2	pcs
	49	Impeller cpl.			98459841	14	pcs
+	51	Shaft, spline, cpl.			98368639	1	pcs
	55	Outer sleeve			98812643	1	pcs
	56	Base plate			98824711	1	pcs
	60	Bulk, Spring (20 pcs)			96538963	4	pcs
	64c	Bulk, Spacing pipe (5 pcs)		Length (mm): 12.7	97980241	1	pcs
	64a	Bulk, Spacing bush (20 pcs)		Length (mm): 9.00	96538950	2	pcs
	64.d	Bulk, Spacer (20 pcs)			97516851	2	pcs
	64	Bulk, Spacing pipe (20 pcs)		Length (mm): 29.05	96535101	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 bush (20 pcs)		Length (mm): 18.00	96538948	1	pcs
	76a	Bulk, Rivet (100 pcs)			96620489	1	pcs
	105	Bulk, Shaft seal (11 pcs)		Material type: HQQE	96538914	1	pcs