

Date: 16/02/2019

Qty. | Description

1 | CR 20-5 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96500511

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in 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 DIN flanges.

The pump is fitted with a 3-phase, fan-cooled asynchronous motor.

Further product details

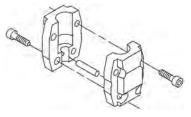
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

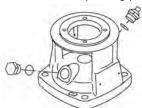
The colour code for the finished product is NCS 9000/RAL 9005.

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, pump head cover and flange for motor mounting is made in one piece. The pump head has a combined 1/2" priming plug and vent screw.





Date: 16/02/2019

Qty. | Description

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)
- 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 base is made of cast iron. The flanges and base are cast in one piece. The outlet side of the base has a drain plug. The pump is secured to the foundation by four bolts through the base plate.



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



Date: 16/02/2019

Qty. | Description

Density: 998.2 kg/m³

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: Cast iron

EN 1561 EN-GJL-200

ASTM A48-25B

Impeller: Stainless steel

EN 1.4301 AISI 304

Bearing: SIC

Installation:

Maximum ambient temperature: 60 °C Maximum operating pressure: 16 bar

Max pressure at stated temp: 16 bar / 120 °C

16 bar / -20 °C

Type of connection: DIN
Size of inlet connection: DN 50
Size of outlet connection: DN 50
Pressure rating for pipe connection: PN 25
Flange rating inlet: 300 lb
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.: 385905350

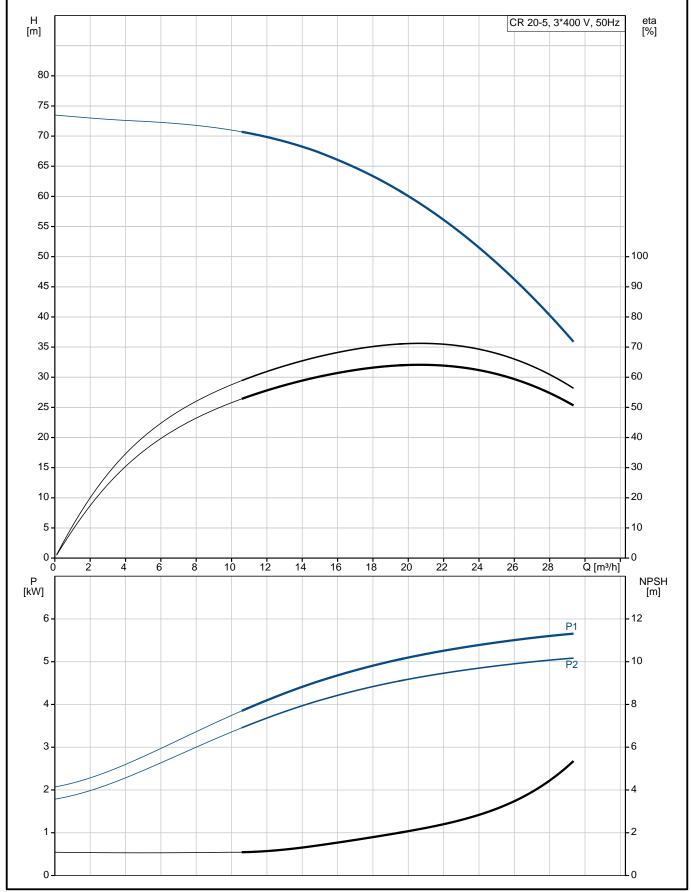


			Date:	16/02/2019	
Qty.	Description				
	Swedish RSK No.:	5823489			
	i .				



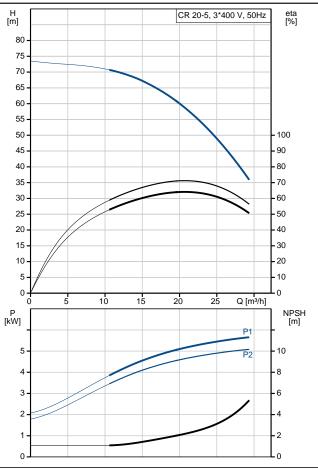
Date: 16/02/2019

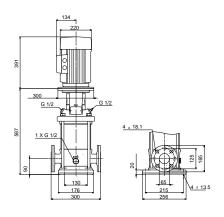
96500511 CR 20-5 A-F-A-E-HQQE 50 Hz

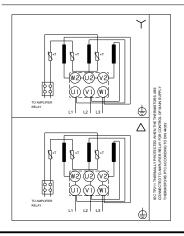




Description General information:	Value
General information:	CR 20-5
Product name:	A-F-A-E-HQQE
Product No:	96500511
EAN number:	5700396203287
Technical:	
Pump speed on which pump data are	2010 rpm
based:	2919 rpm
Rated flow:	21 m³/h
Rated head:	58 m
Head max:	73.4 m
Stages:	5
Impellers:	5
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement: Code for shaft seal:	Single
- Codo Tor Gridit Codii	HQQE
Approvals on nameplate: Curve tolerance:	CE, EAC,ACS
	ISO9906:2012 3B
Pump version: Model:	A
Materials:	<u> </u>
Base:	Cast iron
Dase.	EN 1561 EN-GJL-200
	ASTM A48-25B
Impeller:	Stainless steel
ппрепет.	EN 1.4301
	AISI 304
Material code:	Α
i Malenai Code.	A
	E
Code for rubber:	• •
	E
Code for rubber: Bearing:	E
Code for rubber: Bearing: Installation:	E SIC
Code for rubber: Bearing: Installation: Maximum ambient temperature:	E SIC 60 °C
Code for rubber: Bearing: Installation: Maximum ambient temperature: Maximum operating pressure:	E SIC 60 °C 16 bar
Code for rubber: Bearing: Installation: Maximum ambient temperature: Maximum operating pressure:	E SIC 60 °C 16 bar 16 bar / 120 °C
Code for rubber: Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C
Code for rubber: Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN
Code for rubber: Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50
Code for rubber: Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50
Code for rubber: 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:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25
Code for rubber: 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 rating inlet: Flange size for motor: Connect code:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb
Code for rubber: 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 rating inlet: Flange size for motor: Connect code: Liquid:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FF265
Code for rubber: 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 rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FF265 F
Code for rubber: 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 rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C
Code for rubber: 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 rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C
Code for rubber: 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 rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C
Code for rubber: 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 rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³
Code for rubber: 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 rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³ IEC
Code for rubber: 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 rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC
Code for rubber: 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 rating inlet: 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:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC IE3
Code for rubber: 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 rating inlet: 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:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC IE3 5.5 kW
Code for rubber: 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 rating inlet: 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:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC IE3 5.5 kW 5.5 kW
Code for rubber: 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 rating inlet: 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:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC IE3 5.5 kW 5.5 kW 50 Hz
Code for rubber: 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 rating inlet: 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: Rated voltage:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC IE3 5.5 kW 5.5 kW 50 Hz 3 x 380-415D V
Code for rubber: 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 rating inlet: 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:	E SIC 60 °C 16 bar 16 bar / 120 °C 16 bar / -20 °C DIN DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC IE3 5.5 kW 5.5 kW 50 Hz







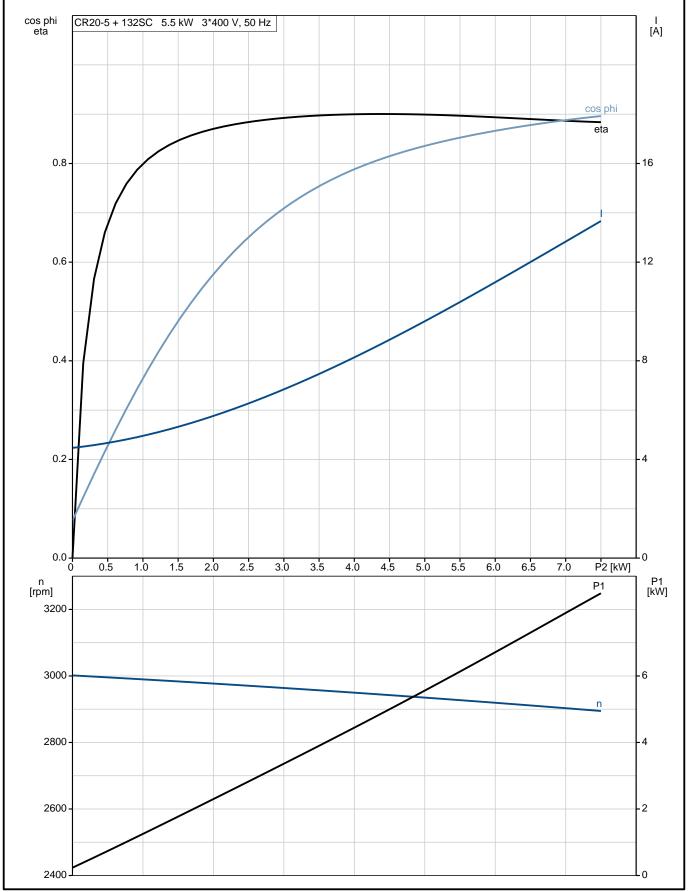


Description	Value
Cos phi - power factor:	0.87-0.82
Rated speed:	2920-2940 rpm
Efficiency:	IE3 89,2%
Motor efficiency at full load:	89.2 %
Motor efficiency at 3/4 load:	90.0 %
Motor efficiency at 1/2 load:	89.6 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	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 m³
Danish VVS No.:	385905350
Swedish RSK No.:	5823489



Date: 16/02/2019

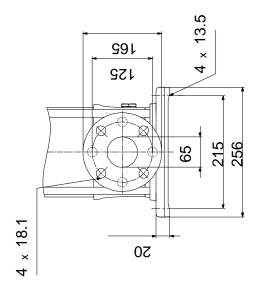
96500511 CR 20-5 A-F-A-E-HQQE 50 Hz

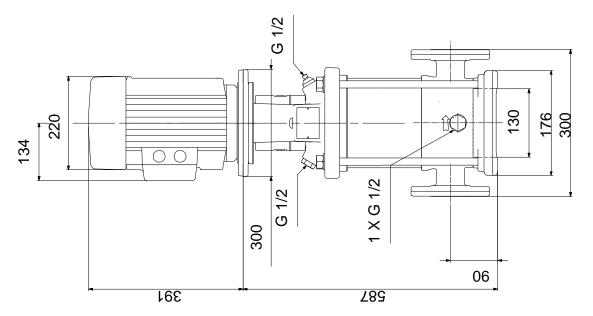




Date: 16/02/2019

96500511 CR 20-5 A-F-A-E-HQQE 50 Hz



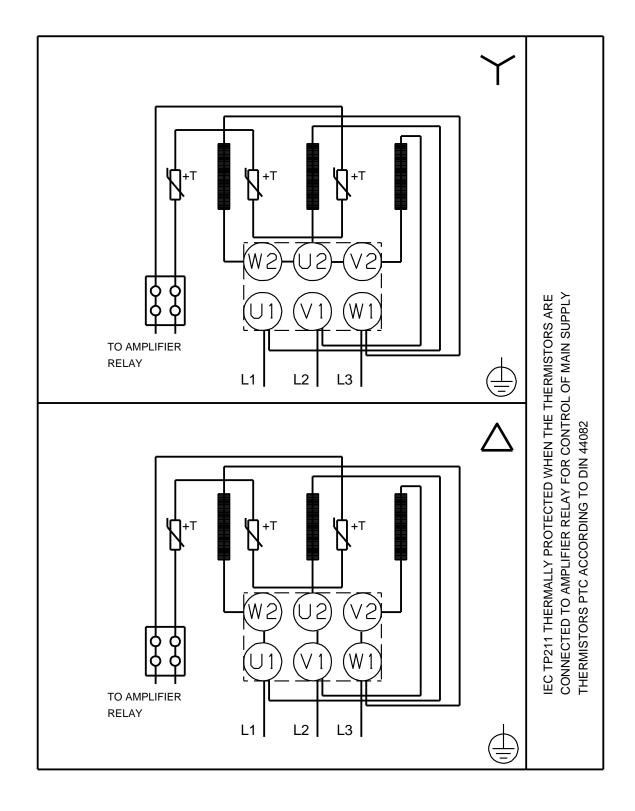


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 16/02/2019

96500511 CR 20-5 A-F-A-E-HQQE 50 Hz

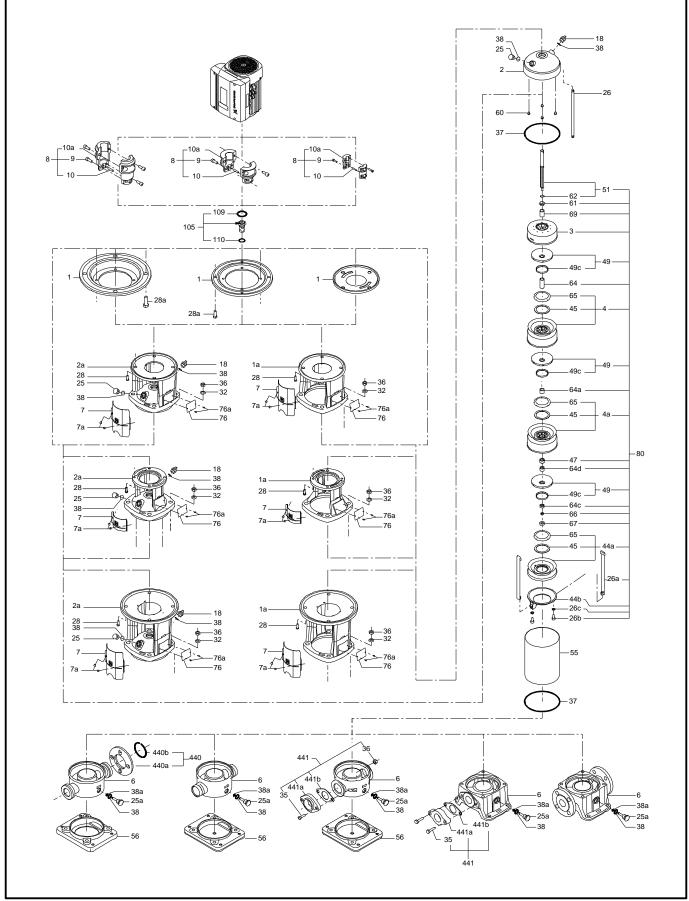


Note! All units are in [mm] unless others are stated.



Date: 16/02/2019

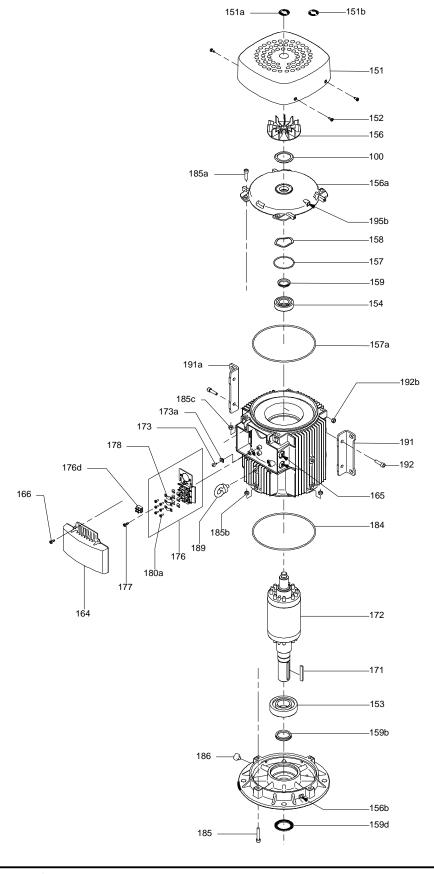
(tm069469 for MECR15,20 standard)





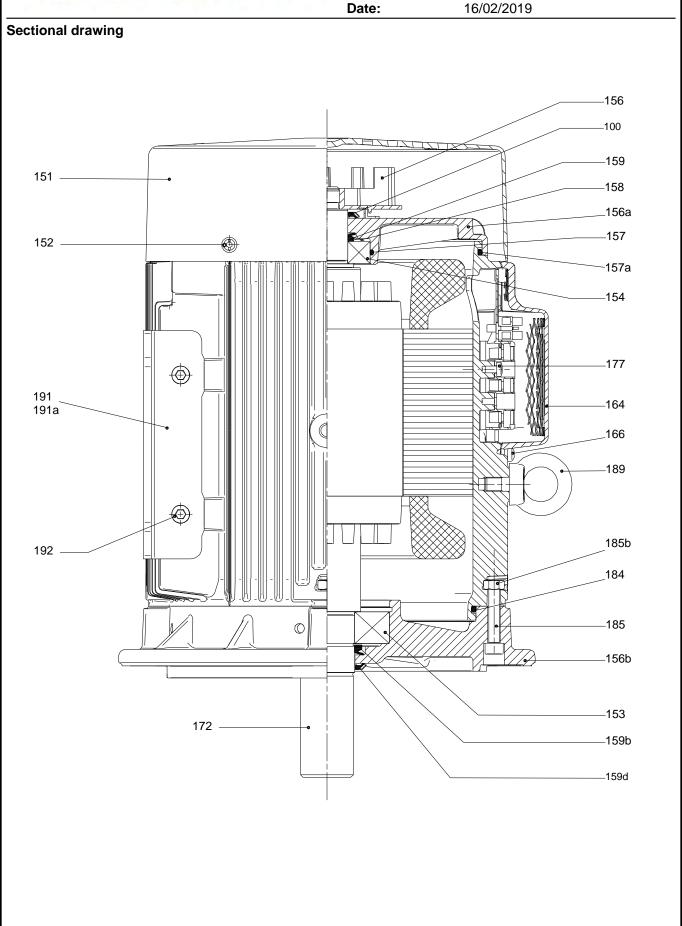
Date: 16/02/2019

Exploded view





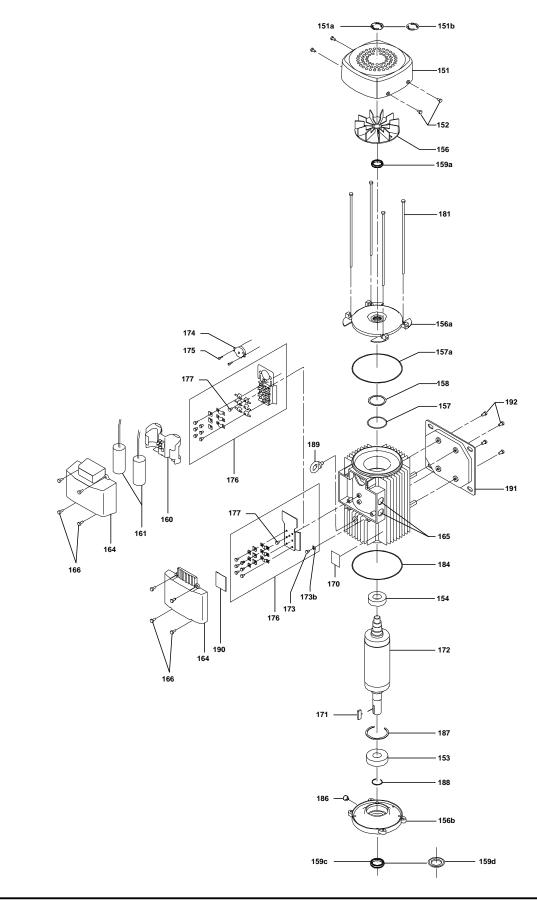
Date:





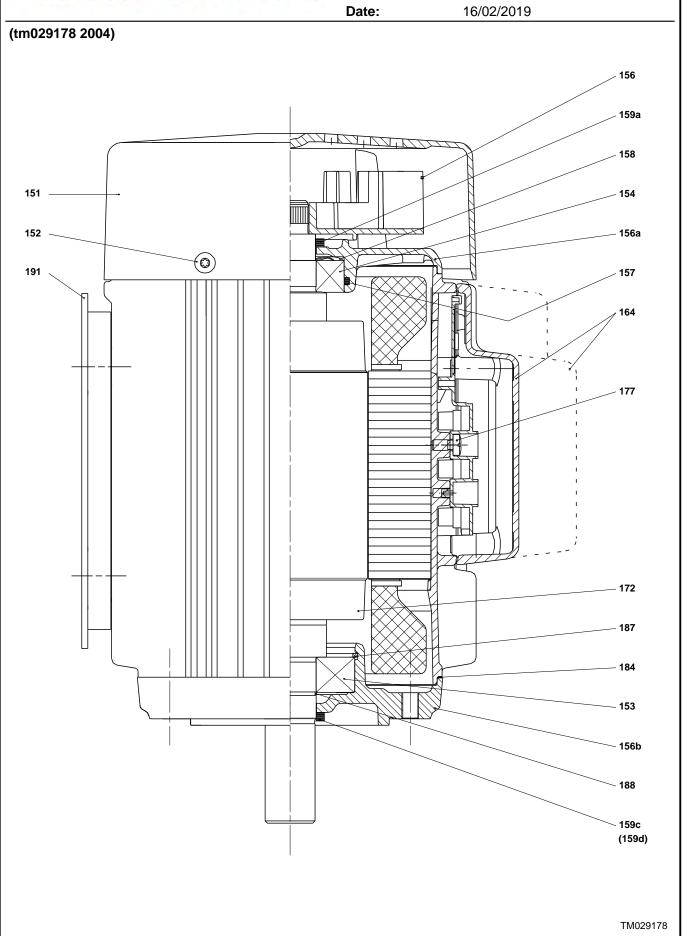
Date: 16/02/2019

(tm029184 0505)



TM029184







Date: 16/02/2019

Spare parts CR 20-5, Product No. 96500511 Valid from 1.1.2011 (1152)

Pos	Description	Annotation	Classification Data	Part no.		Unit
	Kit, chamber stack			96508545	1	pcs
- 80	Chamber stack				1	1
- 3	Top intermediate chamber					
	Front plate					
	Spare, turbulence optimizer KP					
	Guide vane					
- 4a	Intermediate chamber cpl.					
	Bearing plate					
3	Intermediate chamber					
45a	Neck ring cpl.					
47	Bearing bush					
65	Retainer for upper seal ring					
- 4	Intermediate chamber cpl.					
45a	Neck ring cpl.					
65	Retainer for upper seal ring					
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 for upper seal ring					
47	Bearing ring					
49	Impeller cpl.					
-10	Impeller blade					
	Impeller plate					
	Impeller plate					
49c	Wear ring					
- 51	Shaft, spline, cpl.					
. 31	Bar					
60						
62	Stop ring					
64d	Spacing bush		Langeth (mans), 40.7			
64c	Spacing pipe		Length (mm): 12.7			
64a	Spacing pipe		Internal diameter: 17,5			
			Length (mm): 17			
64	Spacing pipe		Length (mm): 43.6			
66	Wedge lock washer		TI 1.20			
67	Lock nut		Thread: M8			
69	Spacing bush					
-	Kit, coupling			96511351		pcs
	Adjusting fork				1	
- 8	Coupling				1	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	4
7	Coupling guard				2	2
	Kit, gaskets			96509609		pcs



Pos	Description Gasket	Annotation Classification Data Part	
0.4			2
24	O-ring		2
37	O-ring		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
50	O-IIIIg	Material type: EPDM	
		Thickness: 2,4	
60	Spring		4
415	Gasket		2
441b	Gasket	Internal diameter: 49	2
		Outer diameter: 92	
		Thickness: 2	
	Kit, plug		1311 1 p
18	Air vent screw	300.	1
. •	Spindle		
	•		
05-	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
	- U	Material type: EPDM	•
		Thickness: 2,4	
20	O via v		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
- •	~ ·····9	Material type: EPDM	
		Thickness: 2,4	
20	O vin a	•	
38	O-ring	Diameter: 16,3	2
		Material type: EPDM	
		Thickness: 2,4	
	Kit, shaft seal HQQE	9651	1844 1 p
	Emery cloth		1
	Grinding device		1
105	Shaft seal	Material type: HQQE	1
	Kit, wear parts		1824 1 p
4a		9031	1024 i pi
+a	Intermediate chamber cpl.		1
	Sand Lifter		
	Guide cup		
	Bearing plate		
	Guide vane		
3	Intermediate chamber		
45a	Neck ring cpl.		
47	Bearing bush		
65	Retainer		
		Designation: DIM 4054	^
26.c	Washer	Designation: DIN 125A	2
		Thickness: 1,6	
26.b	Hex head screw		2
45a	Neck ring cpl.		5



Pos	Description	Annotation Classification Data Part no. Q	ty. Un
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	pcs
	Kit, bearing cpl.	96279803	
111	Ball bearing	Designation: 6206.2Z.C3.SYN	
153	Angular-contact bearing		
157	O-ring	Diameter: 62	
107	C mig	Material type: NBR	
		Thickness: 3	
158	Waved washer	THIOMICOGO. O	
100	Kit, end shield	96279790	1
156a	End shield	902/9/90	1
156a 157		Diameter: 62	
157	O-ring		
		Material type: NBR	
4=0		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		
151	Fan cover		
152	Pan head thread forming screw		
	Kit, flange	96279784	1
156b	Flange		
159.c	Seal ring		
186	Drain plug		
.00	Kit, retaining ring	96279801	1
187	Retaining ring	3021 300 1	•
188	Retaining ring		
100	Ketaining ring Kit, shaft seal	96279764	1
1504		902/9/04	1
159d	Seal ring		
159c	Seal ring	0000000	4
404	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		
176	Connecting piece		
176	Wire clamp		
176	Terminal board		
177	Pan head screw		



Pos	Description Kit terminal hav	Annotation Classification Data Part no. Qty.	UI
404	Kit, terminal box	96279772 1	
164	Terminal box cover w/gasket		
166	Pan head thread forming screw		
	Motor	85901556 1	po
	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		
	Kit, fan	96279758 1	
156	Fan	332,0700 1	
159c	Seal ring		
159a	Seal ring		
1000	Kit, fan cover	96279756 1	
151b	Label	30270700 1	
1515	Fan cover		
152	Pan head thread forming screw		
132	Kit, flange	96279784 1	
156b		90279704	
150b	Flange		
186	Seal ring Drain plug		
100	· -	00070004 4	
407	Kit, retaining ring	96279801 1	
187	Retaining ring		
188	Retaining ring	00070704 4	
	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		
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		
1	Flange	99104283 1	р
2a	Pump head		po
	Bulk, Top intermediate chamber (3 pcs)		po
3			



	Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
-	4a	Bulk, Intermediate chamber cpl. (10 pcs)			96538842		pcs
	3	Bulk, Intermediate chamber (3 pcs)			965350	86 1	
+	4a	Intermediate chamber cpl.			98371109	1	pcs
-	4	Bulk, Intermediate chamber cpl. (10 pcs)			96538817	3	pcs
	65	Bulk, Retainer for upper seal ring (20 pcs)			976995	27 1	
	65	Retainer for upper seal ring			965879	913 1	
+	4	Intermediate chamber cpl.			98371107	3	pcs
	6	Base			98681111	1	pcs
	7.a	Bulk, Combi Slot Torx screw (1000 pcs)			96886324	4	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
	25a	Bulk, Drain plug (10 pcs)			96535881	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	Bulk, Staybolt (4 pcs)			98429009	4	pcs
	26	Staybolt			98982844	4	pcs
	32	Bulk, Washer (100 pcs)		Designation: DIN 125 A	98923051	4	pcs
				Internal diameter: 17			-
				Outer diameter: 30			
				Thickness: 3			
	36	Bulk, Hex nut (20 pcs)		Thread: M16	96620480	4	pcs
	37	Bulk, O-ring (20 pcs)			96538857	2	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			98814595		pcs
+	44a	Inlet part cpl.			98818924		pcs
	47	Bulk, Bearing ring (10 pcs)			96538795		pcs
-	49	Bulk, Impeller cpl. (5 pcs)			98394308		pcs
	49c	Bulk, Wear ring (10 pcs)			965473		
+	49	Bulk, Impeller cpl. (10 pcs)			96538799		pcs
+	49	Impeller cpl.			98394458		pcs
+	51	Shaft, spline, cpl.			98368611		pcs
	55	Outer sleeve			98771299		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)			96620489		pcs
11	105	Bulk, Shaft seal (11 pcs)		Material type: HQQE	96538914	1	pcs