

**Date:** 16/02/2019

Qty. | Description

1 | CR 10-3 A-A-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96500981

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 oval flanges with internal Rp threads.

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

#### Further product details

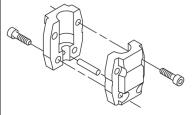
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

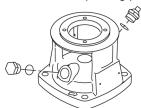
The colour code for the finished product is NCS 9000/RAL 9005.

### **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.





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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)

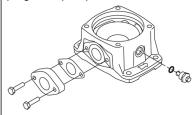
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



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 oval flanges are bolted to the base. 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 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).

#### **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:

Pump speed on which pump data are based: 2853 rpm



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### Qty. | Description

Rated flow: 10 m³/h
Rated head: 23.1 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: 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:

Oval / Rp
Size of inlet connection:

1 1/2 inch
Size of outlet connection:

1 1/2 inch
Pressure rating for pipe connection:

PN 16
Flange size for motor:

FT100

Electrical data:

Motor standard: IEC
Motor type: 80C
IE Efficiency class: IE3
Rated power - P2: 1.1 kW
Power (P2) required by pump: 1.1 kW
Mains frequency: 50 Hz

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

Rated current: 4.35/2.50 A Starting current: 450-500 % Cos phi - power factor: 0.83-0.76 Rated speed: 2840-2870 rpm Efficiency: IE3 82,7% Motor efficiency at full load: 82.7 % Motor efficiency at 3/4 load: 84.6 % Motor efficiency at 1/2 load: 85.4 % Number of poles:

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

Insulation class (IEC 85): F

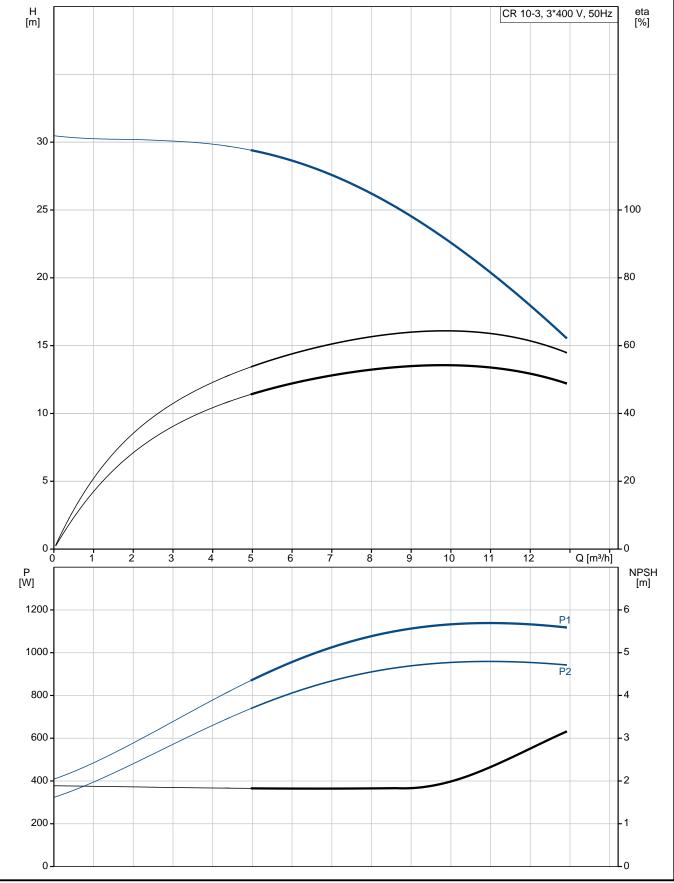
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 37 kg
Gross weight: 40 kg
Shipping volume: 0.094 m³
Danish VVS No.: 385903030
Norwegian NRF no.: 9040458



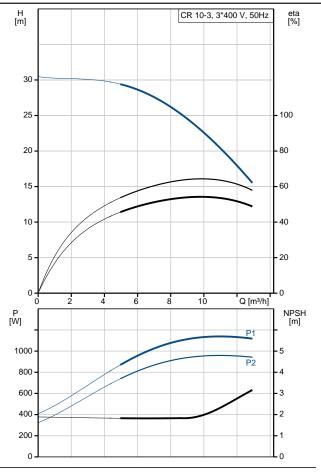
**Date:** 16/02/2019

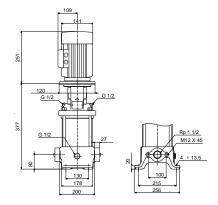
## 96500981 CR 10-3 A-A-A-E-HQQE 50 Hz

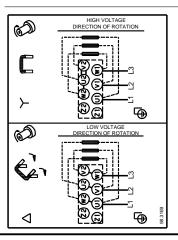




Description	Value
General information:	
Product name:	CR 10-3 A-A-A-E-HQQE
Product No:	96500981
EAN number:	5700396212975
Technical:	
Pump speed on which pump data are based:	2853 rpm
Rated flow:	10 m³/h
Rated head:	23.1 m
Head max:	30.3 m
Stages:	3
Impellers:	3
Number of reduced-diameter impellers:	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:	Cast iron
	EN 1561 EN-GJL-200
	ASTM A48-25B
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Material code:	A
Code for rubber:	E
Bearing:	SIC
Installation:	
Maximum ambient temperature:	60 °C
Maximum operating pressure:	16 bar
. 51	
Max pressure at stated temp:	16 bar / 120 °C
Max pressure at stated temp:	16 bar / 120 °C 16 bar / -20 °C
	16 bar / 120 °C 16 bar / -20 °C Oval / Rp
Type of connection:	16 bar / -20 °C Oval / Rp
Type of connection: Size of inlet connection:	16 bar / -20 °C Oval / Rp 1 1/2 inch
Type of connection: Size of inlet connection: Size of outlet connection:	16 bar / -20 °C Oval / Rp 1 1/2 inch 1 1/2 inch
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection:	16 bar / -20 °C Oval / Rp 1 1/2 inch 1 1/2 inch PN 16
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor:	16 bar / -20 °C Oval / Rp 1 1/2 inch 1 1/2 inch PN 16 FT100
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code:	16 bar / -20 °C Oval / Rp 1 1/2 inch 1 1/2 inch PN 16
Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid:	16 bar / -20 °C Oval / Rp 1 1/2 inch 1 1/2 inch PN 16 FT100
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:	16 bar / -20 °C Oval / Rp 1 1/2 inch 1 1/2 inch PN 16 FT100 A Water
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:	16 bar / -20 °C Oval / Rp 1 1/2 inch 1 1/2 inch PN 16 FT100 A Water -20 120 °C
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:	16 bar / -20 °C Oval / Rp 1 1/2 inch 1 1/2 inch PN 16 FT100 A Water -20 120 °C 20 °C
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:	16 bar / -20 °C Oval / Rp 1 1/2 inch 1 1/2 inch PN 16 FT100 A Water -20 120 °C
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:	16 bar / -20 °C Oval / Rp 1 1/2 inch 1 1/2 inch PN 16 FT100 A  Water -20 120 °C 20 °C 998.2 kg/m³
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:	16 bar / -20 °C  Oval / Rp  1 1/2 inch  1 1/2 inch  PN 16  FT100  A  Water  -20 120 °C  20 °C  998.2 kg/m³
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:	16 bar / -20 °C Oval / Rp 1 1/2 inch 1 1/2 inch PN 16 FT100 A  Water -20 120 °C 20 °C 998.2 kg/m³  IEC 80C
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:	16 bar / -20 °C Oval / Rp 1 1/2 inch 1 1/2 inch PN 16 FT100 A  Water -20 120 °C 20 °C 998.2 kg/m³  IEC 80C IE3
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:	16 bar / -20 °C Oval / Rp 1 1/2 inch 1 1/2 inch PN 16 FT100 A  Water -20 120 °C 20 °C 998.2 kg/m³  IEC 80C IE3 1.1 kW
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:	16 bar / -20 °C Oval / Rp 1 1/2 inch 1 1/2 inch PN 16 FT100 A  Water -20 120 °C 20 °C 998.2 kg/m³  IEC 80C IE3 1.1 kW 1.1 kW
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:	16 bar / -20 °C Oval / Rp 1 1/2 inch 1 1/2 inch PN 16 FT100 A  Water -20 120 °C 20 °C 998.2 kg/m³  IEC 80C IE3 1.1 kW 1.1 kW 50 Hz
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: Rated voltage:	16 bar / -20 °C Oval / Rp 1 1/2 inch 1 1/2 inch PN 16 FT100 A  Water -20 120 °C 20 °C 998.2 kg/m³  IEC 80C IE3 1.1 kW 1.1 kW 50 Hz 3 x 220-240D/380-415Y
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:	16 bar / -20 °C Oval / Rp 1 1/2 inch 1 1/2 inch PN 16 FT100 A  Water -20 120 °C 20 °C 998.2 kg/m³  IEC 80C IE3 1.1 kW 1.1 kW 50 Hz 3 x 220-240D/380-415Y







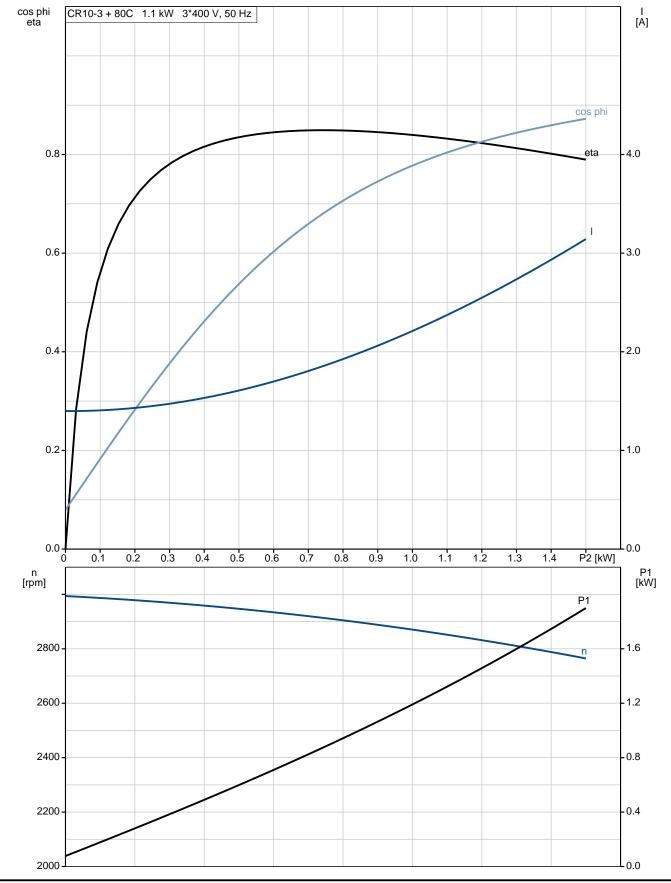


Description	Value
Cos phi - power factor:	0.83-0.76
Rated speed:	2840-2870 rpm
Efficiency:	IE3 82,7%
Motor efficiency at full load:	82.7 %
Motor efficiency at 3/4 load:	84.6 %
Motor efficiency at 1/2 load:	85.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85U05105
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	37 kg
Gross weight:	40 kg
Shipping volume:	0.094 m³
Danish VVS No.:	385903030
Norwegian NRF no.:	9040458



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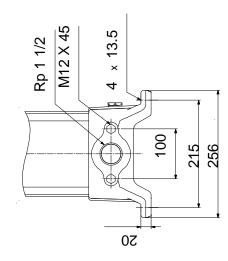
## 96500981 CR 10-3 A-A-A-E-HQQE 50 Hz

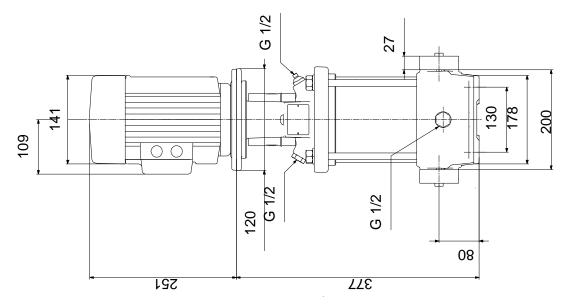




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# 96500981 CR 10-3 A-A-A-E-HQQE 50 Hz





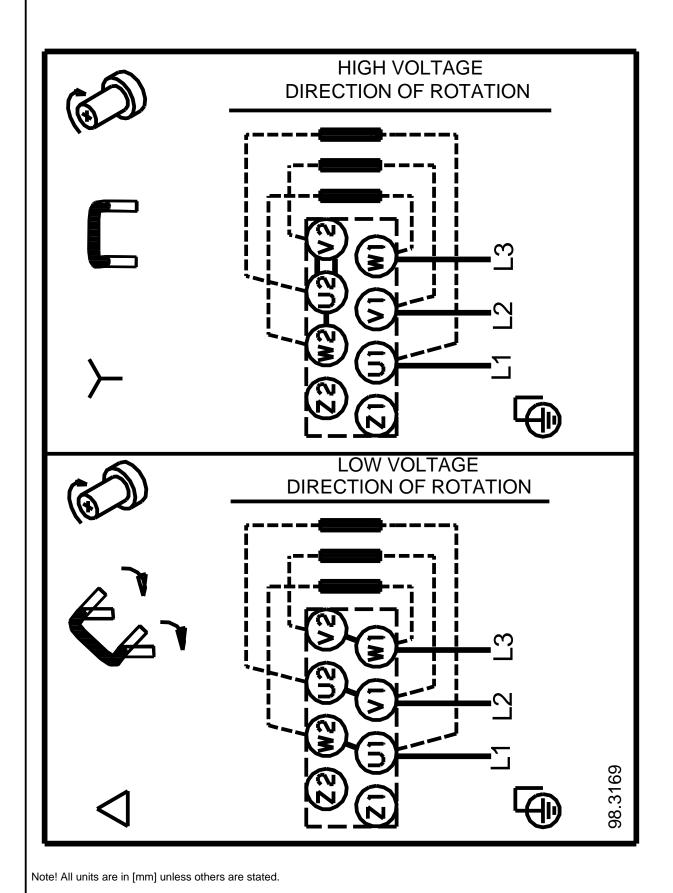
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

16/02/2019

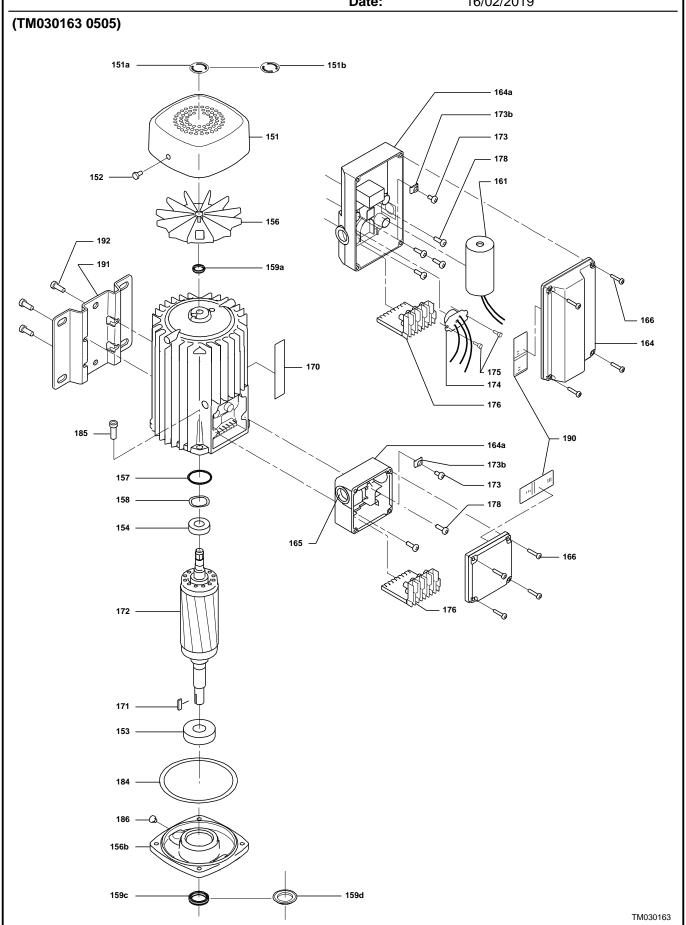
### 96500981 CR 10-3 A-A-A-E-HQQE 50 Hz





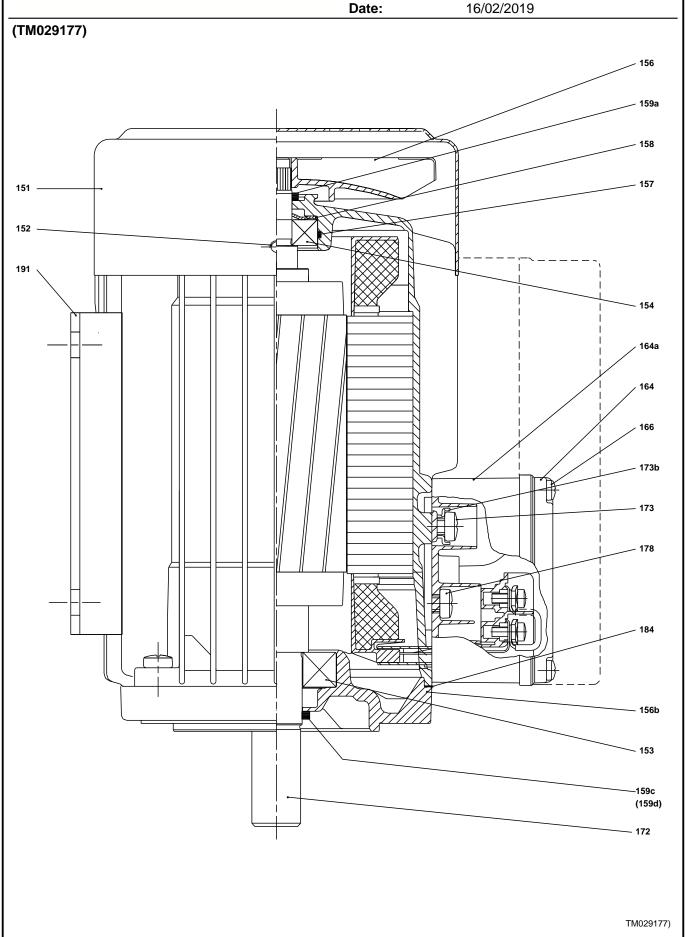
Date: 16/02/2019 (tm069460 for MECR 10 standard) 62 -28a --65 45 25 26c 26b





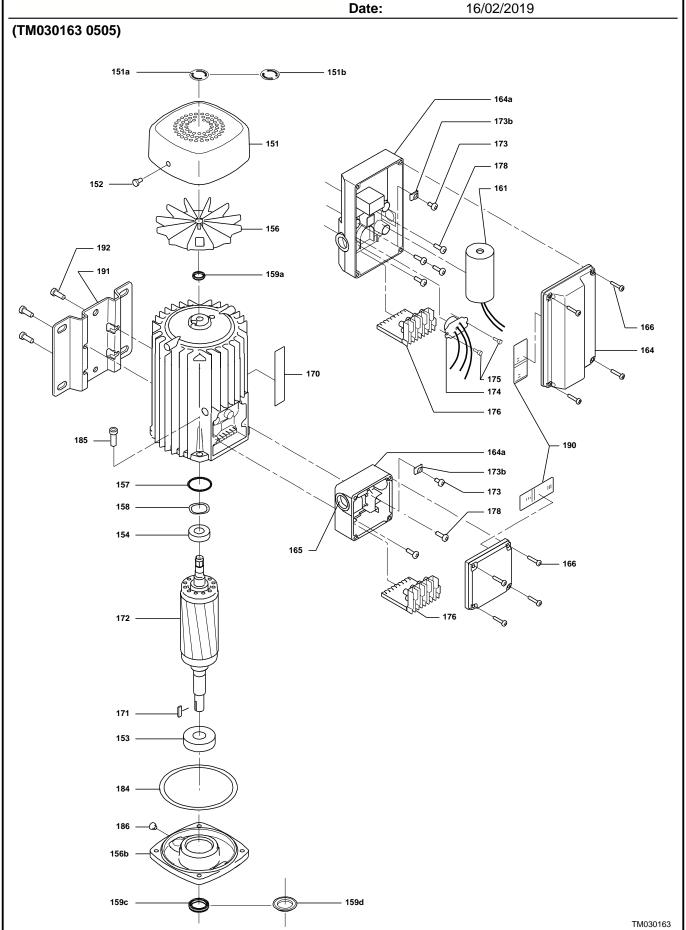


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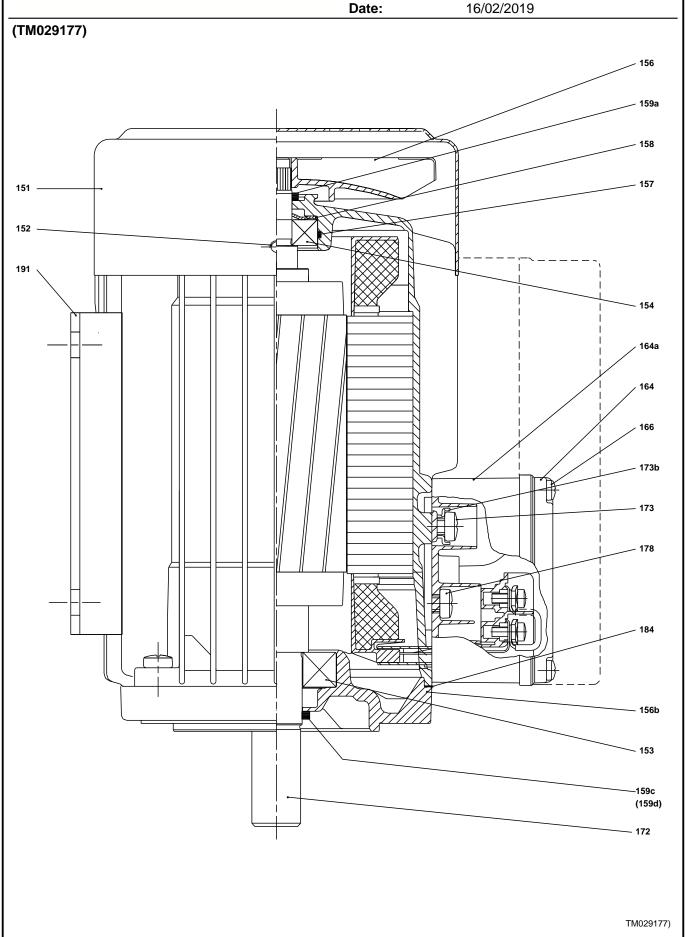


Date:





Date:





**Date:** 16/02/2019

### Spare parts CR 10-3, Product No. 96500981 Valid from 1.1.2011 (1152)

	Pos	Description	Annotation	Classification Data	Part no.	Qty.	
-		Kit, chamber stack			96508405	1	pcs
-	80	Chamber stack		Bearing type: SIC		1	
-	3	Top intermediate chamber					
		Spare, turbulence optimizer KP					
		Guide vane					
-	4a	Intermediate chamber cpl.					
		Guide cup					
		Bearing plate					
		Guide vane					
	3	Intermediate chamber					
	45	Neck ring cpl.					
	47	Bearing bush					
	65	Retainer					
-	4	Intermediate chamber cpl.					
		Guide cup					
		Guide vane					
	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.					
		Guide cup					
		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 bush		Length (mm): 9.00			
	64.d	Spacer					
	64	Spacing pipe		Length (mm): 29.05			
	66	Wedge lock washer		- , ,			
	67	Lock nut		Thread: M8			
	69	Spacing bush		Length (mm): 18.00			
-		Kit, coupling		- , ,	96511317	1	pcs
		Adjusting fork				1	
	9	Hex socket head cap screw		Designation: DIN 912		4	
		•		Length (mm): 20			
				Thread: M6			
	10a	Coupling half				2	<u> </u>
	10	Shaft pin		Diameter: 5		1	
	-	•		Length (mm): 26		•	
-		Kit, coupling guard		J ( , -	96509611	1	pcs
	7.a	Combi Slot Torx screw				. 4	•
	7	Coupling guard				2	
-		Kit, gaskets			96509609		pcs
		, , ,,				•	F-00



Pos E	Description Gasket	Annotation Classification Data	Part no.	Qty. U
24	O-ring			2
	<del>_</del>			
37	O-ring	Diamenton 5.0		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
		Outer diameter: 92		
		Thickness: 2		
k	Kit, plug		96511311	1 p
18	Air vent screw			1
-	Spindle			•
	Plug			
25a	Drain plug			1
25	Plug			1
38a	O-ring	Diameter: 5,3		1
Jua	O-ning	Material type: FKM		'
		Thickness: 2,4		
20-	O vin v			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
		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
		Material type: EPDM		
		Thickness: 2,4		
k	Kit, shaft seal HQQE		96511844	1 p
	Emery cloth			1
	Grinding device			1
105	Shaft seal	Material type: HQQE		1
	Kit, wear parts		96511889	
4a	Intermediate chamber cpl.			1
. ~	Sand Lifter			•
	Guide cup			
	Bearing plate			
	Guide vane			
2				
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
45	Neck ring cpl.			7



<b>Pos E</b> 47	Description Bearing ring	Annotation Classification Data Part no. Qty	<b>y. Uı</b> 1
62	Retaining ring		1
64c	Spacing pipe	Length (mm): 12.7	1
64a	Spacing bush	Length (mm): 9.00	1
64.d	Spacer		1
65	Retainer		7
66	Wedge lock washer		1
67	Lock nut	Thread: M8	1
	Notor	91333027 1	р
	Kit, Ball bearing		1
111	Ball bearing	Designation: 6204.2Z.C3.SYN	•
111	Ball bearing	2001griduon: 0204.22.00.0114	
		Diameter: 00	
157	O-ring	Diameter: 32	
		Material type: NBR	
		Thickness: 2	
158	Waved washer		
	Kit, fan	96279721	1
156	Fan		
159a	Seal ring		
	Kit, fan cover	96279720	1
151	Fan cover	30213120	•
152	Pan head thread forming screw		
132		00070054	,
4=01	Kit, flange	96279854	1
156b	Flange		
159c	Seal ring		
184	Gasket	Internal diameter: 114,80	
		Outer diameter: 121,20	
		Thickness: 0,25	
185	Pan head screw		
186	Drain plug		
	Kit, shaft seal	96279722	1
159c	Seal ring		
159a	Seal ring		
1554	-	06270724	4
450	Kit, terminal box	96279724	ı
152	Pan head thread forming screw		
164a	Terminal box w/gasket		
164	Terminal box cover w/gasket		
173a	Washer	Designation: SQUARE	
		Internal diameter: 5,5	
		Outer diameter: 10X10	
		Thickness: 1,5	
173a	Base	<u> </u>	
173	Pan head thread forming screw	Designation: COMBI TORX T25	
173	Pan head screw	Designation: DIN 7985	
175	Pan head screw	Designation: DIN 7985  Designation: DIN 7985	
		Designation. Dily 7900	
176	Terminal cpl.	0=00:-:-:	
N	Motor	85901513 1	po
	Kit, Ball bearing	96279730	1
111	Ball bearing	Designation: 6204.2Z.C3.SYN	
111	Ball bearing		
157	O-ring	Diameter: 32	
		Material type: NBR	
		Thickness: 2	
158	Waved washer		
.00	Kit, fan	96279721	1
156	Fan	90219121	'
156			
159a	Seal ring		
	Kit, fan cover	96279720	1



Pos	Description	Annotation Classification Data	Part no. C	≀ty.	Uni
151	Fan cover				
152	Pan head thread forming screw				
	Kit, flange		9627985	4 1	
156b	Flange				
159c	Seal ring				
184	Gasket	Internal diameter: 11	14 80		
	Cacher	Outer diameter: 121,20	1,00		
		·			
40-		Thickness: 0,25			
185	Pan head screw				
186	Drain plug				
	Kit, shaft seal		9627972	2 1	
159c	Seal ring				
159a	Seal ring				
	Kit, terminal box		9627972	4 1	
152	Pan head thread forming screw				
164a	Terminal box w/gasket				
164	Terminal box cover w/gasket				
		Danimantia a COLLA	<b>3</b> E		
173a	Washer	Designation: SQUAI	KE		
		Internal diameter: 5,5			
		Outer diameter: 10X10			
		Thickness: 1,5			
173a	Base				
173	Pan head thread forming screw	Designation: COMB	I TORX T25		
173	Pan head screw	Designation: DIN 79			
175	Pan head screw	Designation: DIN 79			
176	Terminal cpl.	Designation. Dit 75	00		
			00050000 4		
2a	Pump head		98952899 1		pcs
+ 3	Bulk, Top intermediate chamber (3 pcs)		96538970 1		pcs
+ 3	Top intermediate chamber		98415149 1		pcs
+ 4a	Bulk, Intermediate chamber cpl. (10 pcs)		96538850 1		pcs
+ 4a	Intermediate chamber cpl.		98371073 1		pcs
4	Intermediate chamber cpl.		98371071 1		pcs
3	Intermediate chamber		9841514	5 1	•
65	Bulk, Retainer (20 pcs)		9835467		
	• • •				
6	Base		98818812 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.		98980041 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)	Length (mm): 163	98680984 4		рс
	. , , ,	Thread: M16			•
26	Staybolt	Length (mm): 163	98680982 4		pcs
20	Otayboit	Thread: M16	30000302 4		ρC
00	Della Harabardanas (22		00000474		
28	Bulk, Hex head screw (20 pcs)	Length (mm): 45 MM	96620474 4		pcs
		Thread: M12			
32	Bulk, Washer (100 pcs)	Designation: DIN 125 A	98923051 4		pcs
		Internal diameter: 17			
		Outer diameter: 30			
		Outer diameter: 30 Thickness: 3			



	Pos	Description	Annotation		Part no.	Qty.	Unit
	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)		-,-	99198815	2	pcs
				Material type: EPDM			
				Thickness: 2,4			
	38	Bulk, O-ring (50 pcs)		-,-	99412727	2	pcs
				Material type: EPDM			
				Thickness: 2,4			
	44b	Inlet part			98814595		pcs
	44a	Inlet part cpl.			97973678		pcs
	47	Bulk, Bearing ring (10 pcs)			96538795		pcs
	49	Bulk, Impeller cpl. (10 pcs)		9	96538796	3	pcs
	49	Impeller cpl.		9	98394441	3	pcs
+	51	Shaft, spline, cpl.		9	98368605	1	pcs
	55	Outer sleeve		9	98812619	1	pcs
	60	Bulk, Spring (20 pcs)		9	96538963	4	pcs
	64c	Bulk, Spacing pipe (5 pcs)		- 9 ( )	97980241		pcs
	64a	Bulk, Spacing bush (20 pcs)		- 3. ( )	96538950	1	pcs
	64.d	Bulk, Spacer (20 pcs)				1	pcs
	64	Bulk, Spacing pipe (20 pcs)		- 3. ( /	96535101		pcs
	66	Bulk, Wedge lock washer (10 pcs)		9	96536157	1	pcs
	67	Bulk, Lock nut (10 pcs)		Thread: M8	98277008	1	pcs
	69	Bulk, Spacing bush (20 pcs)		- 3. ( )	96538948		pcs
	76a	Bulk, Rivet (100 pcs)			96620489	2	pcs
	105	Bulk, Shaft seal (11 pcs)		**** ** 71 ** ****	96538914		pcs
	415	Bulk, Gasket (10 pcs)			96536048	_	pcs
	415	Gasket		9	99364495	2	pcs
	440a	Flange		Thread: RP 1 1/2	99037027	2	pcs