

Date: 15/02/2019

Qty. | Description

1 | CR 3-19 A-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96516603

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

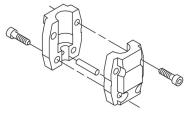
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

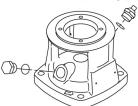
The colour code for the finished product is NCS 9000/RAL 9005.

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.



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)



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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)

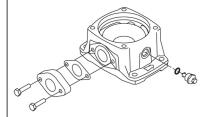
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



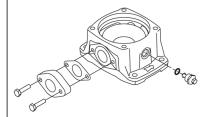
The shaft seal is screwed into the pump head.

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 combined drain plug and bypass valve. The pump is secured to the foundation by four bolts through the base plate.



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Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with tapped-hole flange (FT).

Motor-mounting designation in accordance with IEC 60034-7: IM B 14 (Code I) / IM 3601 (Code II).

Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.

The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).

The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

Technical data

Controls:

Frequency converter: NONE



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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: 2896 rpm

Rated flow: 3 m³/h
Rated head: 92.5 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 inch
Size of outlet connection: 1 inch
Pressure rating for pipe connection: PN 16
Flange size for motor: FT115

Electrical data:

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

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

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

Number of poles: 2

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

Insulation class (IEC 85): F

Others:

Minimum efficiency index, MEI ≥: 0.70 Net weight: 37.7 kg



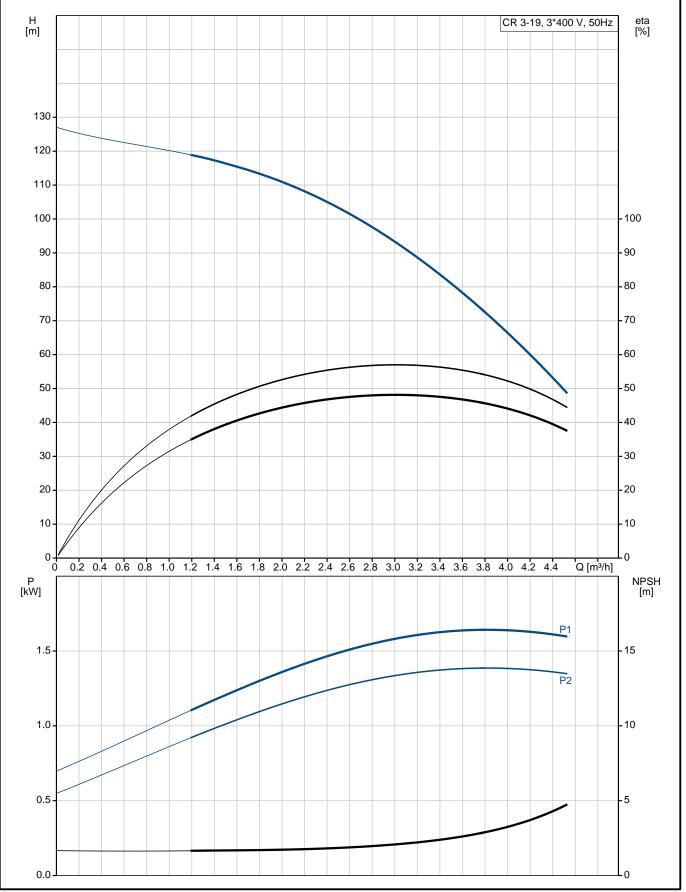
Date: 15/02/2019

Qty.	Description		
	Gross weight:	41.8 kg	
	Shipping volume:	0.092 m ³	
	Danish VVS No.:	385901019	



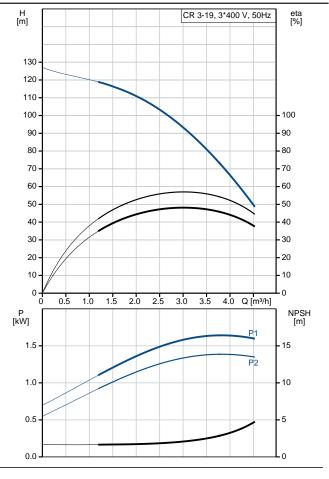
Date: 15/02/2019

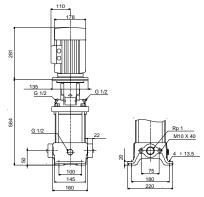
96516603 CR 3-19 A-A-A-E-HQQE 50 Hz

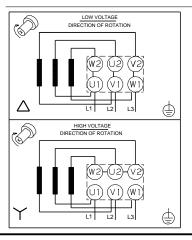




Description	Value
General information:	
Product name:	CR 3-19 A-A-A-E-HQQE
Product No:	96516603
EAN number:	5700396746197
Technical:	
Pump speed on which pump data are based:	2896 rpm
Rated flow:	3 m³/h
Rated head:	92.5 m
Head max:	125.8 m
Stages:	19
Impellers:	19
Number of reduced-diameter impellers:	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 ambient temperature: Maximum operating pressure:	60 °C 16 bar
Maximum operating pressure:	16 bar
Maximum operating pressure: Max pressure at stated temp:	16 bar 16 bar / 120 °C
Maximum operating pressure: Max pressure at stated temp: Type of connection:	16 bar 16 bar / 120 °C 16 bar / -20 °C Oval / Rp
Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection:	16 bar 16 bar / 120 °C 16 bar / -20 °C Oval / Rp 1 inch
Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection:	16 bar 16 bar / 120 °C 16 bar / -20 °C Oval / Rp
Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection:	16 bar / 120 °C 16 bar / -20 °C Oval / Rp 1 inch 1 inch PN 16
Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection:	16 bar 16 bar / 120 °C 16 bar / -20 °C Oval / Rp 1 inch 1 inch
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:	16 bar / 120 °C 16 bar / -20 °C Oval / Rp 1 inch 1 inch PN 16 FT115
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:	16 bar / 120 °C 16 bar / -20 °C Oval / Rp 1 inch 1 inch PN 16 FT115
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:	16 bar / 120 °C 16 bar / -20 °C Oval / Rp 1 inch 1 inch PN 16 FT115 A
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:	16 bar 120 °C 16 bar / 120 °C 16 bar / -20 °C Oval / Rp 1 inch 1 inch PN 16 FT115 A Water -20 120 °C
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:	16 bar 16 bar / 120 °C 16 bar / -20 °C Oval / Rp 1 inch 1 inch PN 16 FT115 A Water -20 120 °C 20 °C
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:	16 bar 120 °C 16 bar / 120 °C 16 bar / -20 °C Oval / Rp 1 inch 1 inch PN 16 FT115 A Water -20 120 °C
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:	16 bar 16 bar / 120 °C 16 bar / -20 °C Oval / Rp 1 inch 1 inch PN 16 FT115 A Water -20 120 °C 20 °C 998.2 kg/m³
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:	16 bar 16 bar / 120 °C 16 bar / -20 °C Oval / Rp 1 inch 1 inch PN 16 FT115 A Water -20 120 °C 20 °C 998.2 kg/m³
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:	16 bar 16 bar / 120 °C 16 bar / -20 °C Oval / Rp 1 inch 1 inch PN 16 FT115 A Water -20 120 °C 20 °C 998.2 kg/m³ IEC 90SB
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:	16 bar 16 bar / 120 °C 16 bar / -20 °C Oval / Rp 1 inch 1 inch PN 16 FT115 A Water -20 120 °C 20 °C 998.2 kg/m³ IEC 90SB IE3
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:	16 bar 16 bar / 120 °C 16 bar / -20 °C Oval / Rp 1 inch 1 inch PN 16 FT115 A Water -20 120 °C 20 °C 998.2 kg/m³ IEC 90SB IE3 1.5 kW
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:	16 bar 16 bar / 120 °C 16 bar / -20 °C Oval / Rp 1 inch 1 inch PN 16 FT115 A Water -20 120 °C 20 °C 998.2 kg/m³ IEC 90SB IE3 1.5 kW 1.5 kW
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:	16 bar 16 bar / 120 °C 16 bar / -20 °C Oval / Rp 1 inch 1 inch PN 16 FT115 A Water -20 120 °C 20 °C 998.2 kg/m³ IEC 90SB IE3 1.5 kW
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: Rated voltage:	16 bar 16 bar / 120 °C 16 bar / -20 °C Oval / Rp 1 inch 1 inch PN 16 FT115 A Water -20 120 °C 20 °C 998.2 kg/m³ IEC 90SB IE3 1.5 kW 1.5 kW 50 Hz 3 x 220-240D/380-415Y
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:	16 bar 16 bar 17 120 °C 16 bar 17 -20 °C Oval 17 Rp 18 inch 18 inch 19 16 FT115 A Water 18 -20 °C 18 18 18 18 18 18 18 18 18 18 18 18 18







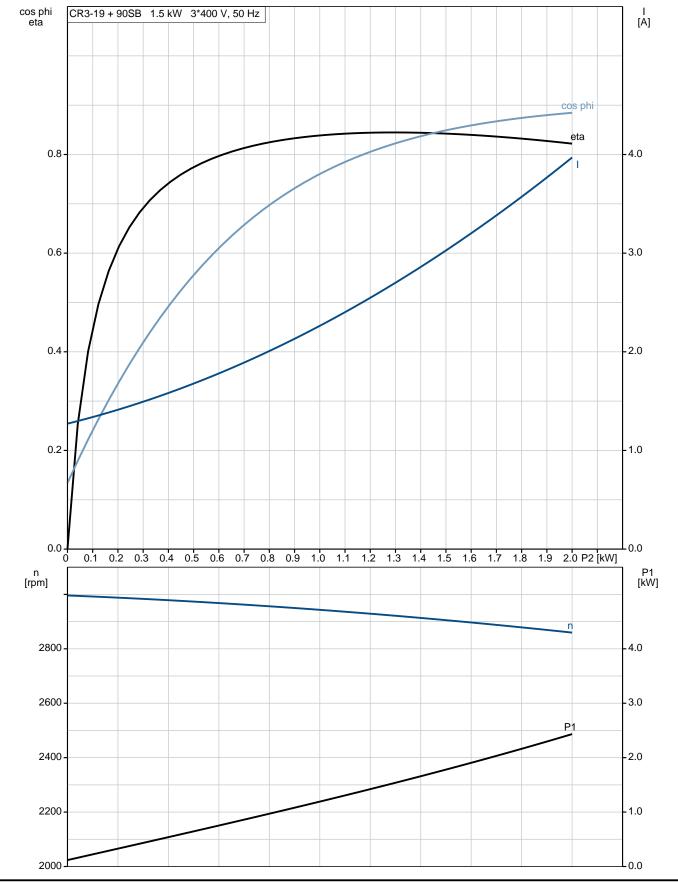


Description	Value
Cos phi - power factor:	0.87-0.82
Rated speed:	2890-2910 rpm
Efficiency:	IE3 84,2%
Motor efficiency at full load:	84.2 %
Motor efficiency at 3/4 load:	84.5 %
Motor efficiency at 1/2 load:	83.1 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85U05906
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	37.7 kg
Gross weight:	41.8 kg
Shipping volume:	0.092 m ³
Danish VVS No.:	385901019



Date: 15/02/2019

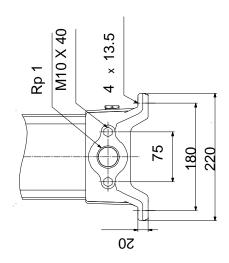
96516603 CR 3-19 A-A-A-E-HQQE 50 Hz

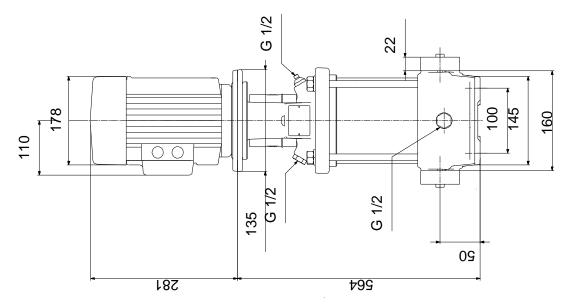




Date: 15/02/2019

96516603 CR 3-19 A-A-A-E-HQQE 50 Hz





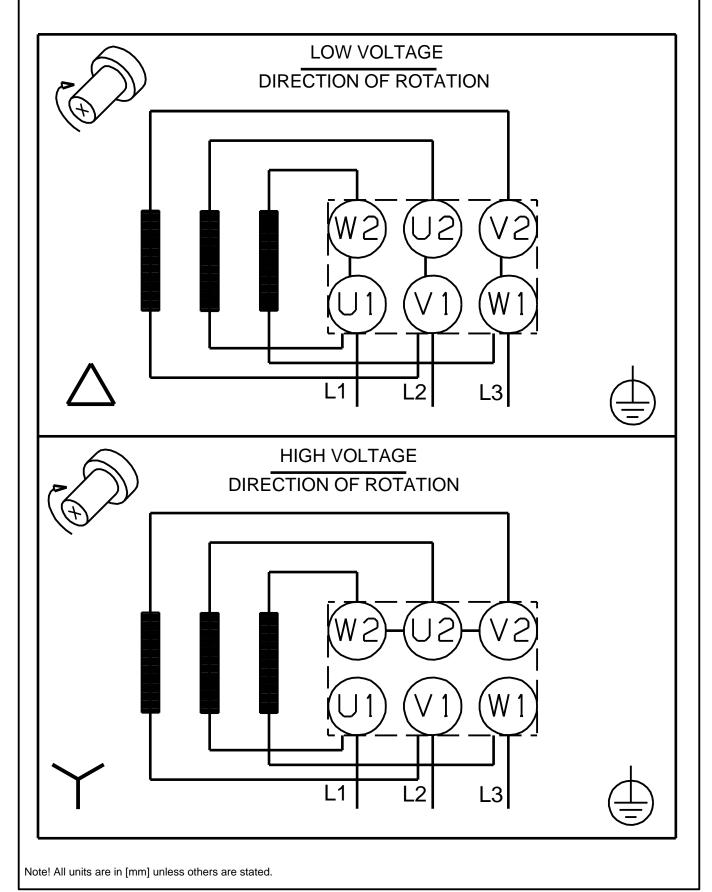
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

15/02/2019

96516603 CR 3-19 A-A-A-E-HQQE 50 Hz



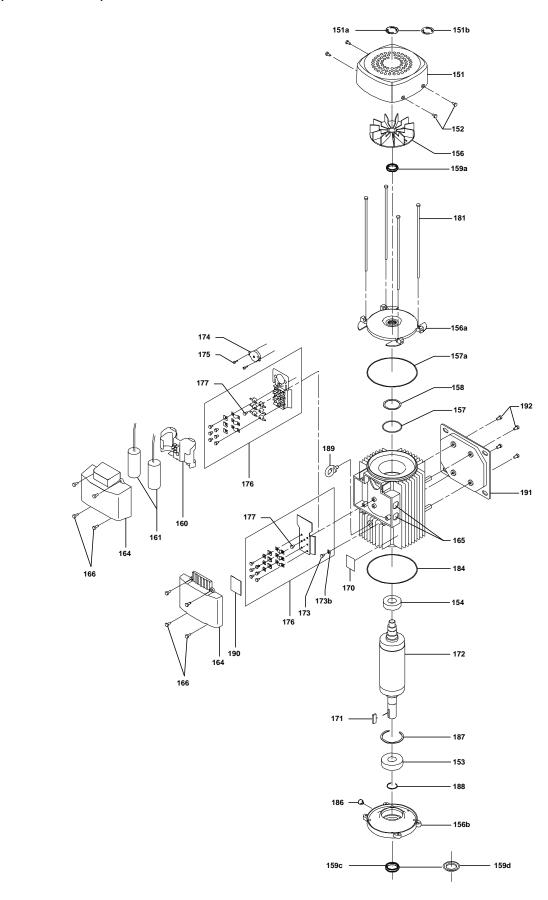


15/02/2019 Date: (TM069451 for SMCR standard)



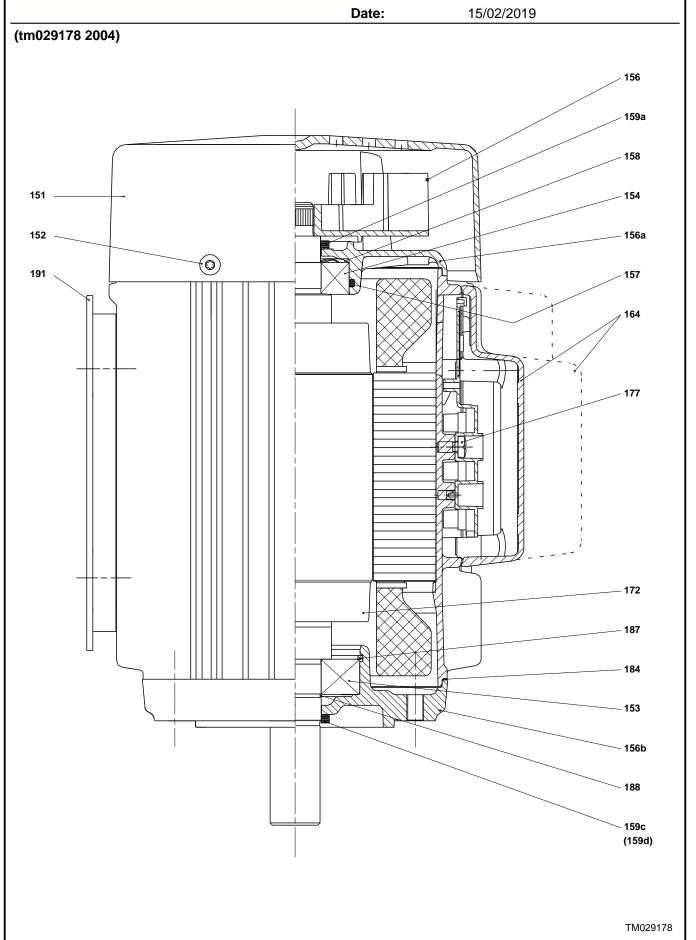
Date: 15/02/2019

(tm029184 0505)



TM029184







Date: 15/02/2019

Spare parts CR 3-19, Product No. 96516603 Valid from 1.1.2011 (1152)

Pos	Description	Annotation	Classification Data	Part no.	Qty	
80	Kit, chamber stack			96453543	1	pc
4a	Chamber w. bearing cpl.					2
	Vane					
	Intermediate chamber					
	Retainer for bearing					
	Guide vane					
45	Neck ring					
47	Bearing bush					
65	Retainer					
65	Retainer					
4	Chamber cpl.					16
	Vane					
	Intermediate chamber					
	Plate					
	Guide vane					
45	Neck ring					
65	Retainer					
65	Retainer					
5a	Chamber cpl.					1
	Vane					
	Intermediate chamber					
45	Neck ring					
65	Retainer					
65	Retainer					
44a	Guide vane cpl.					1
	Plate					
	Guide vane					
50	Top plate					
47	Bearing ring, rotating					2
49	Impeller cpl.					19
51	Shaft, spline, cpl.					1
64d	Spacing pipe		Internal diameter: 12,85			2
	op storing pripe		Outer diameter: 15,85			
			Length (mm): 4,50			
64c	Clamp, splined		Internal diameter: 8,5			1
0.10	Ciamp, opinica		Outer diameter: 15			•
64a	Spacing pipe		Cater diameter. 10			16
66	Wedge lock washer					1
67	Lock nut		Thread: M8			1
<u> </u>	Kit, coupling		Timodd. Wo	00415062	1	pc:
9	Hex socket head cap screw		Designation: DIN 912	00+13002	•	4
<u> </u>	Tiex socket field cap screw		Length (mm): 25			_
			Thread: M8			
10a	Coupling half		Tilleau. Mo			2
	Shaft pin		Diameter: 5			1
10	Shart pili					1
	Kit coupling guerd		Length (mm): 26	06505404	1	
7 -	Kit, coupling guard			96505131	1	pc
7.a	Combi Slot Torx screw					4
7	Coupling guard			00/77057	_	2
	Kit, gaskets			96455090	1	pc
37	O-ring					2
38	O-ring		Diameter: 16,3			1
			Material type: EPDM			



			Date: 10/02/2	.0.0		
Pos	Description	Annotation	Classification Data	Part no. (Qty.	Ur
			Thickness: 2,4			
38	O-ring		Diameter: 16,3		2	2
			Material type: EPDM			
			Thickness: 2,4			
109	O-ring		Diameter: 22,00		1	
			Material type: EPDM			
			Thickness: 2,75			
	Kit, plug			96505133 1		рс
18	Air vent screw				1	
	Spindle					
	Plug					
23b	Spindle				1	
25	Plug				1	
25	Plug				1	
38	O-ring		Diameter: 16,3		1	
	<u> </u>		Material type: FKM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3		2)
	Jg		Material type: FKM			-
			Thickness: 2,4			
38	O-ring		Diameter: 16,3		1	
30	O-filing		Material type: EPDM		_ '	
			Thickness: 2,4			
38	Oring				2)
30	O-ring		Diameter: 16,3 Material type: EPDM			-
	Kit -1		Thickness: 2,4	00455000		
405	Kit, shaft seal HQQE		Matarial transcriber	96455086		рс
105	Shaft seal		Material type: HQQE	00455000	1	
	Kit, wear parts		Material type: SILICON CARBIDE	96455092		pc
4a	Chamber w. bearing cpl.				2	<u>'</u>
4a	Intermediate chamber					
45	Neck ring					
65	Neck ring retainer					
45	Neck ring					7
47	Bearing ring, rotating				2	
64d	Spacing pipe		Internal diameter: 12,85		2	2
			Outer diameter: 15,85			
			Length (mm): 4,50			
64c	Clamp, splined		Internal diameter: 8,5		1	
			Outer diameter: 15			
65	Neck ring retainer				1	7
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
441b	Gasket				2	2
	Motor			85903713 1		рс
	Kit, bearing cpl.			9627979	4 1	
111	Ball bearing					
111	Ball bearing					
157	O-ring		Diameter: 52			
	-		Material type: NBR			
			Thickness: 3			
158	Waved washer					
187	Retaining ring					
	Retaining ring					
188				0007070		
188					u 1	
	Kit, end shield			9627978	9 1	
156a	Kit, end shield End shield		Internal diameter: 444.0	9627978	9 1	
	Kit, end shield		Internal diameter: 141,2 Outer diameter: 145,5	9627978	9 1	



Pos 157	Description	Annotation	Classification Data	Part no. Q	ty. L
157	O-ring		Diameter: 52		
			Material type: NBR		
			Thickness: 3		
158	Waved washer				
159a	Seal ring				
	Kit, fan			96279757	1
156	Fan				
159a	Seal ring				
	Kit, fan cover			96279755	1
151	Fan cover				
152	Pan head thread forming screw				
	Kit, flange			96279777	1
156b	Flange				
159.c	Seal ring				
184	Gasket		Internal diameter: 141,2		
			Outer diameter: 145,5		
			Thickness: 0,2		
186	Drain plug		·		
	Kit, retaining ring			96279798	1
187	Retaining ring				
188	Retaining ring				
	Kit, shaft seal			96279761	1
159c	Seal ring			002.0.0.	•
159a	Seal ring				
1000	Kit, staybolts			96279791	1
181	Pan head staybolt			30213131	'
101	Kit, terminal board			96279769	1
173a	Base			90219108	'
173a	Pan head thread forming screw		Designation: COMBI TOR	V T25	
176	Slot cheese head screw		Designation: COMBI TOR		
176	Siot cheese head screw		Length (mm): 10	125	
			Thread: M5		
176	Terminal		THICAG. WO		
176	Connecting piece				
176	Wire clamp				
	Terminal board				
176					
177	Pan head screw				
	Kit, terminal box			96279771	1
164	Terminal box cover w/gasket				
166	Pan head thread forming screw				
4a	Bulk, Chamber w. bearing cpl. (3 pcs)			98371208 2	р
4a	Bulk, Chamber w. bearing cpl. (5 pcs)			97690601 2	р
4a	Bulk, Chamber w. bearing cpl. (5 pcs)			97690590 2	р
4a	Chamber w. bearing cpl.			98371207 2	р
4	Bulk, Chamber cpl. (5 pcs)			97690020 16	6 p
45	Bulk, Neck ring (24 pcs)			96536194	1
65	Bulk, Retainer (24 pcs)			98270018	1
4	Bulk, Chamber cpl. (10 pcs)			96547662 16	6 p
4	Chamber cpl.			98371206 16	
5a	Bulk, Chamber cpl. (10 pcs)			98371205 1	р
5a	Chamber cpl.			96588148 1	р
6	Base			96588138 1	p
10	Bulk, Shaft pin (10 pcs)		Diameter: 5	96536473 1	p
10	Sant, Onan pin (10 pos)		Length (mm): 26	55555475 T	۲
25a	Drain plug w/bypass valve		Longin (min). 20	96588242 1	
			Diameter: 16.2		p
38	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815	1
			Material type: EPDM		
			Thickness: 2,4		



Pos	Description	Annotation	Classification Data	Part no.		Unit
38	Bulk, O-ring (50 pcs)		Diameter: 16,3	994127	'27 1	
			Material type: EPDM			
			Thickness: 2,4			
26	Bulk, Staybolt (4 pcs)		Length (mm): 367	96536342	4	pcs
			Thread: M12			
26	Staybolt		Length (mm): 367	98986277	4	pcs
			Thread: M12			
36	Bulk, Nut (20 pcs)		Thread: M12	96620479	4	pcs
37	Bulk, O-ring (24 pcs)			96547656	2	pcs
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			
+ 44a	Bulk, Guide vane cpl. (5 pcs)			96547659	1	pcs
47	Bulk, Bearing ring, rotating (10 pcs)			97905743	2	pcs
47	Bearing ring, rotating			96547649	2	pcs
49	Bulk, Impeller cpl. (5 pcs)			98426771	19	pcs
49	Bulk, Impeller cpl. (10 pcs)			98394269	19	pcs
49	Bulk, Impeller cpl. (24 pcs)			96547599	19	pcs
49	Impeller cpl.			98394415	19	pcs
51	Shaft, spline, cpl.			98368520	1	pcs
64c	Bulk, Clamp, splined (5 pcs)		Internal diameter: 8,5	98496968	1	pcs
			Outer diameter: 15			
64a	Bulk, Spacing pipe (24 pcs)			96536198	16	pcs
66	Bulk, Wedge lock washer (10 pcs)			96536157	1	pcs
67	Bulk, Lock nut (10 pcs)		Thread: M8	98277008	1	pcs
+ 105	Bulk, Shaft seal (15 pcs)		Material type: HQQE	96983415	1	pcs
441b	Bulk, Gasket (24 pcs)			96536206	2	pcs
+ 441a	Flange		Thread: RP 1	96547453	2	pcs