

Date: 14/02/2019

Qty. | Description

1 CR 3-21 A-FGJ-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96516664

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 combined DIN-ANSI-JIS flanges.

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

Further product details

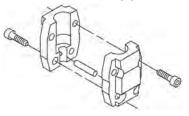
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

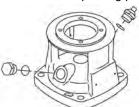
The colour code for the finished product is NCS 9000/RAL 9005.

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.



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)



Date: 14/02/2019

Qty. | Description

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.



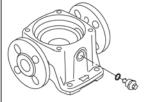
The shaft seal is screwed into the pump head.

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 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

Liquid:



Date: 14/02/2019

Qty. | Description

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: 2899 rpm

Rated flow: 3 m³/h
Rated head: 103.6 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: 25 bar

Max pressure at stated temp: 25 bar / 120 °C

25 bar / -20 °C

Type of connection: DIN / ANSI / JIS

Size of inlet connection: DN 25/32

1 1/4 inch

Size of outlet connection: DN 25/32 1 1/4 inch

1 1/4 IIICII

Pressure rating for pipe connection: PN 25 Flange rating inlet: 250 lb

Flange size for motor: FT115

Electrical data:

Motor standard: IEC
Motor type: 90LC
IE Efficiency class: IE3
Rated power - P2: 2.2 kW
Power (P2) required by pump: 2.2 kW
Mains frequency: 50 Hz

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

Rated current: 7.70/4.45 A
Starting current: 850-950 %
Cos phi - power factor: 0.89-0.87
Rated speed: 2890-2910 rpm
Efficiency: IE3 85,9%
Motor efficiency at full load: 85.9 %
Motor efficiency at 3/4 load: 86.8 %

Motor efficiency at 1/2 load: 86.0 % Number of poles: 2

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

Insulation class (IEC 85): F

Others:



Date: 14/02/2019

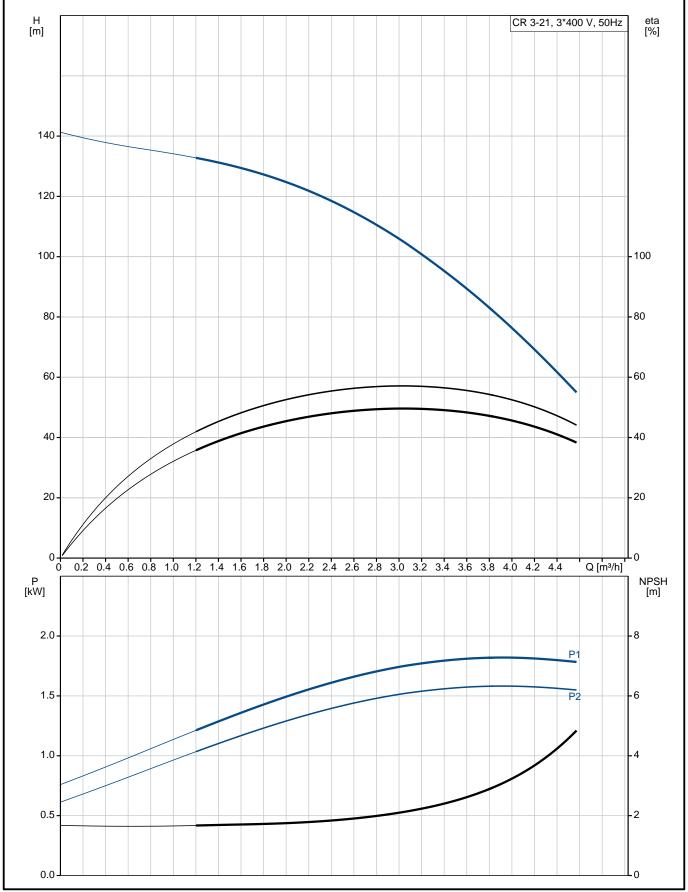
Qty. | Description

Minimum efficiency index, MEI ≥: 0.70
Net weight: 46.2 kg
Gross weight: 49.1 kg
Shipping volume: 0.13 m³
Swedish RSK No.: 5824837
Norwegian NRF no.: 9040446



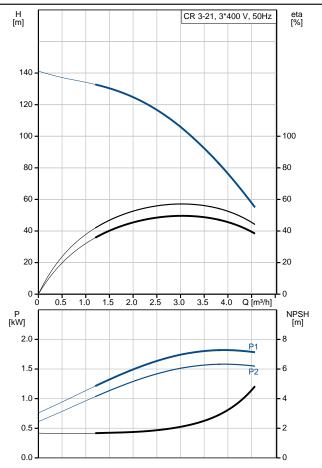
Date: 14/02/2019

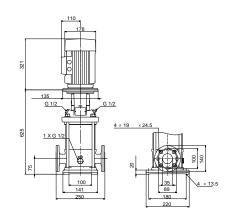
96516664 CR 3-21 A-FGJ-A-E-HQQE 50 Hz

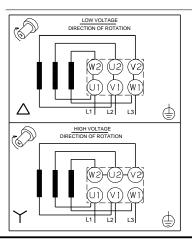




Description	Value
General information:	
Product name:	CR 3-21 A-FGJ-A-E-HQQE
Product No:	96516664
EAN number:	5700396747514
Technical:	
Pump speed on which pump data are based:	2899 rpm
Rated flow:	3 m³/h
Rated head:	103.6 m
Head max:	139.9 m
Stages:	21
Impellers:	21
Number of reduced-diameter impellers:	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:	00.90
Maximum ambient temperature:	60 °C
Maximum operating pressure:	25 bar
Max pressure at stated temp:	25 bar / 120 °C
Time of connections	25 bar / -20 °C
Type of connection:	DIN / ANSI / JIS
Size of inlet connection:	DN 25/32
Cine of quality as an action.	1 1/4 inch
Size of outlet connection:	DN 25/32 1 1/4 inch
December of the pine composition.	,
Pressure rating for pipe connection:	PN 25
Flange rating inlet:	250 lb FT115
Flange size for motor:	FGJ
Connect code:	rGJ
Liquid:	Motor
Pumped liquid:	Water
Liquid temperature during energians	-20 120 °C
Liquid temperature during operation:	20 °C
Density: Electrical data:	998.2 kg/m³
	IEC
Motor standard:	IEC
Motor type:	90LC
IE Efficiency class:	IE3
Rated power - P2:	2.2 kW
Power (P2) required by pump:	2.2 kW
Mains frequency:	50 Hz







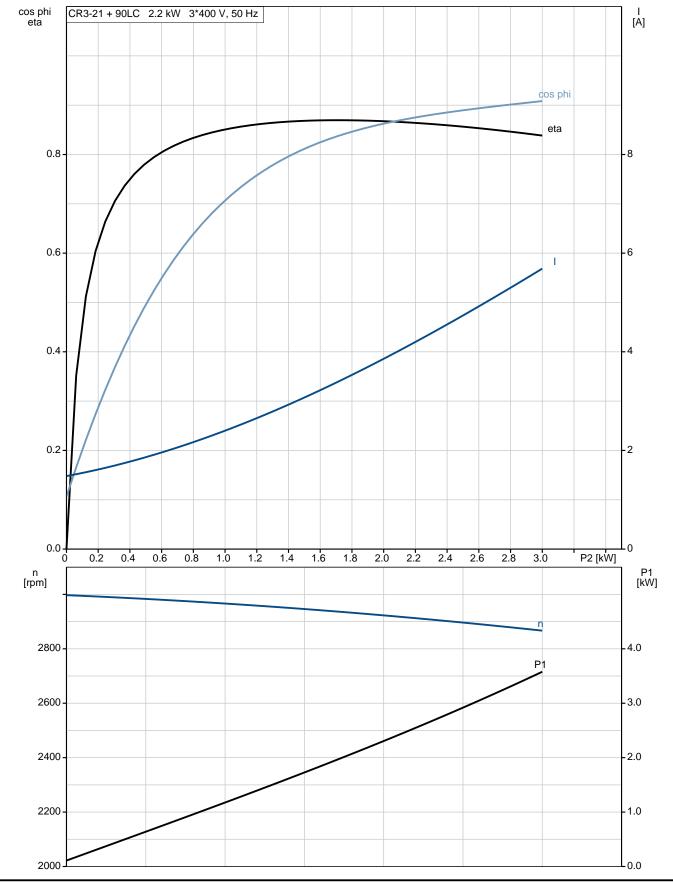


Description	Value		
Rated voltage:	3 x 220-240D/380-415Y V		
Rated current:	7.70/4.45 A		
Starting current:	850-950 %		
Cos phi - power factor:	0.89-0.87		
Rated speed:	2890-2910 rpm		
Efficiency:	IE3 85,9%		
Motor efficiency at full load:	85.9 %		
Motor efficiency at 3/4 load:	86.8 %		
Motor efficiency at 1/2 load:	86.0 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	55 Dust/Jetting		
Insulation class (IEC 85):	F		
Motor protec:	NONE		
Motor No: 85U05908			
Controls:			
Frequency converter:	NONE		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	46.2 kg		
Gross weight:	49.1 kg		
Shipping volume:	0.13 m ³		
Swedish RSK No.:	5824837		
Norwegian NRF no.:	9040446		



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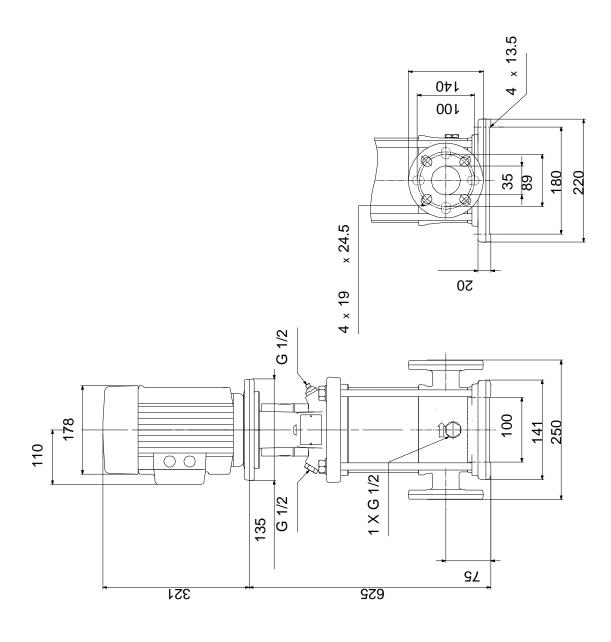
96516664 CR 3-21 A-FGJ-A-E-HQQE 50 Hz





Date: 14/02/2019

96516664 CR 3-21 A-FGJ-A-E-HQQE 50 Hz



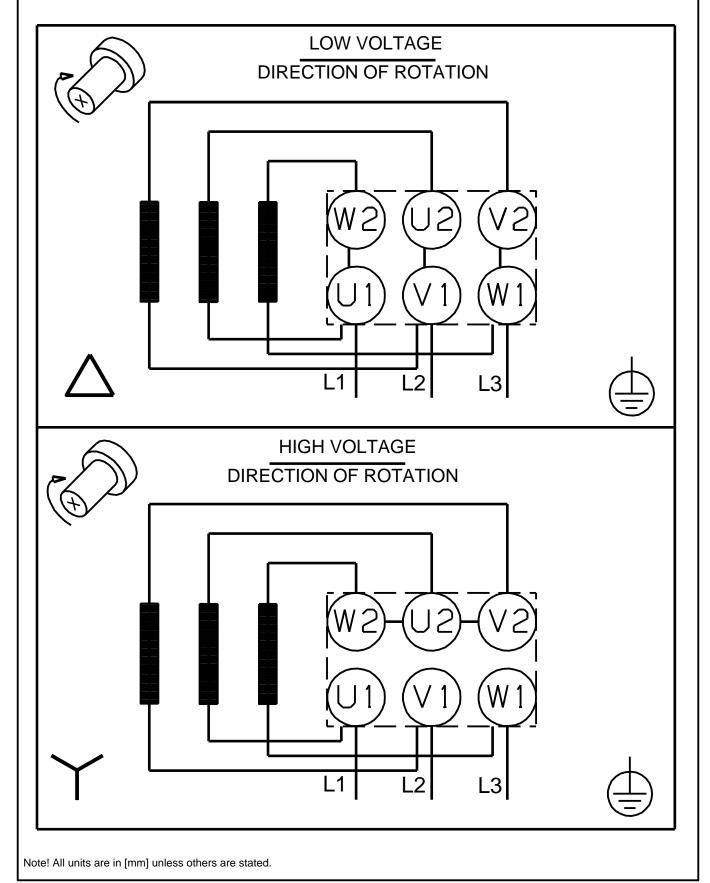
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

14/02/2019

96516664 CR 3-21 A-FGJ-A-E-HQQE 50 Hz



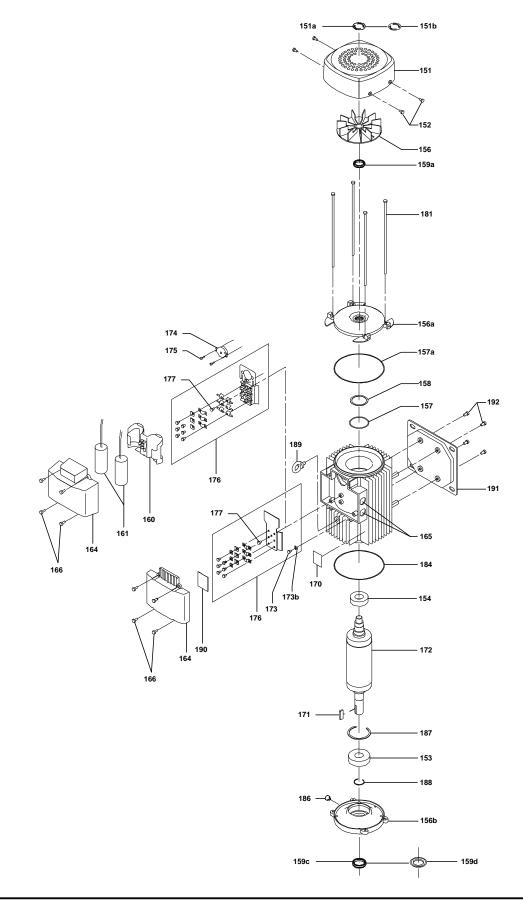


14/02/2019 Date: (TM069451 for SMCR standard)



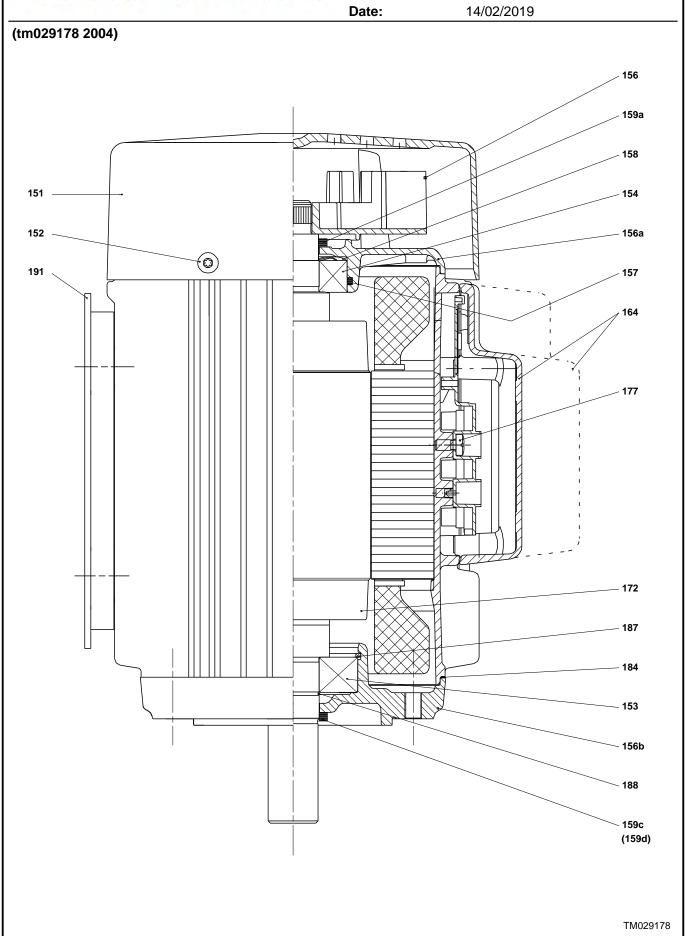
Date: 14/02/2019

(tm029184 0505)



TM029184







Date: 14/02/2019

Spare parts CR 3-21, Product No. 96516664 Valid from 1.1.2011 (1152)

Pos	Description	Annotation	Classification Data	Part no.	Qty.	
80	Kit, chamber stack		Bearing type: SILICON CARBIDE	96453544	1	pcs
4a	Chamber w. bearing cpl.					3
	Vane					
	Intermediate chamber					
	Retainer for bearing					
	Guide vane					
45	Neck ring					
47	Bearing bush					
65	Retainer					
65	Retainer					
4	Chamber cpl.					17
	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					3
49	Impeller cpl.					21
51	Shaft, spline, cpl.					1
64d	Spacing pipe		Internal diameter: 12,85			3
040	Spacing pipe		Outer diameter: 15,85			J
			Length (mm): 4,50			
64c	Clamp, splined		Internal diameter: 8,5			1
040	Ciamp, spilled		Outer diameter: 15			1
640	Spacing pipe		Outer diameter. 15			17
64a 66						17 1
	Wedge lock washer		Throad: MO			
67	Lock nut		Thread: M8	00445000		1
_	Kit, coupling		Designation DIN 040	00415062		pcs
9	Hex socket head cap screw		Designation: DIN 912			4
			Length (mm): 25			
			Thread: M8			
10a	Coupling half					2
10	Shaft pin		Diameter: 5			1
			Length (mm): 26			
	Kit, coupling guard			96505131		pcs
7.a	Combi Slot Torx screw					4
7	Coupling guard					2
	Kit, gaskets			96455090		pcs
37	O-ring					2
38	O-ring		Diameter: 16,3			1
			Material type: EPDM			



Pos	Description		Classification Data	Part no.	Qty.	Ur
		Т	hickness: 2,4			
38	O-ring		Diameter: 16,3		2	2
		N	Naterial type: EPDM			
		Т	hickness: 2,4			
109	O-ring		Diameter: 22,00		1	
		N	Naterial type: EPDM			
		Т	hickness: 2,75			
	Kit, plug			96505133		рс
18	Air vent screw				1	
	Spindle					
	Plug					
23b	Spindle				1	
25	Plug				1	
25	Plug				1	
38	O-ring		Diameter: 16,3		1	
		N	Naterial type: FKM			
			hickness: 2,4			
38	O-ring	'	Diameter: 16,3		2	,
00	C IIIIg	N/	Material type: FKM			-
			hickness: 2,4			
38	Oring	ı	Diameter: 16,3		1	
30	O-ring	Λ.			ı	
			Material type: EPDM			
00	O min m	<u> </u>	hickness: 2,4		_	
38	O-ring		Diameter: 16,3		2	<u>'</u>
			Naterial type: EPDM			
		T	hickness: 2,4			
	Kit, shaft seal HQQE			96455086		рс
105	Shaft seal		Material type: HQQE		1	
	Kit, wear parts	N	Material type: SILICON CARBIDE	96455093		рс
4a	Chamber w. bearing cpl.				3	3
4a	Intermediate chamber					
45	Neck ring					
65	Neck ring retainer					
45	Neck ring				2	24
47	Bearing ring, rotating				3	3
64d	Spacing pipe		Internal diameter: 12,85		3	3
		C	Outer diameter: 15,85			
		L	ength (mm): 4,50			
64c	Clamp, splined		Internal diameter: 8,5		1	
	[7 -1	C	Outer diameter: 15			
65	Neck ring retainer				2	24
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
441b	Gasket		THOUGH WIO		2	
7-710	Motor			85903722		- pc
	Kit, bearing cpl.			9627979		
111				902/9/9	→ 1	
	Ball bearing					
111	Ball bearing		Diameter: 50			
157	O-ring	-	Diameter: 52			
			Material type: NBR			
		Т	hickness: 3			
158	Waved washer					
187	Retaining ring					
188	Retaining ring					
	Kit, end shield			9627978	9 1	
156a	End shield					
157a	Gasket		Internal diameter: 141,2			
		C	Outer diameter: 145,5			



Pos	Description	Annotation	Classification Data	Part no. Q	ty.	Ur
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			33 3.00		
188	Retaining ring					
.00	Kit, shaft seal			96279761	1	
159c	Seal ring			00210101		
159a	Seal ring					
1000	Kit, staybolts			96279792	1	
181	Pan head staybolt			30213132	•	
101	Kit, terminal board			96279769	1	
173a	Base			90219103	'	
173a	Pan head thread forming screw		Designation: COM	IDI TODY TOS		
176	Slot cheese head screw		Designation: COM			
176	Siot cheese head sciew		Length (mm): 10	IDI TORA 125		
			Thread: M5			
176	Terminal		THI GGG. INIO			
176	Connecting piece					
176	Wire clamp					
176	Terminal board					
177	Pan head screw					
177	Kit, terminal box			96279771	1	
164	Terminal box			90219111	_ '	
166	Pan head thread forming screw					
	Bulk, Chamber w. bearing cpl. (3 pcs)			00274200 2		
4a	• • • • •			98371208 3		po
4a	Bulk, Chamber w. bearing cpl. (5 pcs)			97690601 3		po
4a	Bulk, Chamber w. bearing cpl. (5 pcs)			97690590 3		po
4a	Chamber w. bearing cpl.			98371207 3	_	po
4	Bulk, Chamber cpl. (5 pcs)			97690020 1		po
45	Bulk, Neck ring (24 pcs)			96536194		
65	Bulk, Retainer (24 pcs)			98270018		
4	Bulk, Chamber cpl. (10 pcs)			96547662 17		po
4	Chamber cpl.			98371206 1	7	po
5a	Bulk, Chamber cpl. (10 pcs)			98371205 1		рс
5a	Chamber cpl.			96588148 1		po
6	Base			96588146 1		р
10	Bulk, Shaft pin (10 pcs)		Diameter: 5	96536473 1		р
			Length (mm): 26			
25a	Drain plug w/bypass valve			96588242 1		р
38	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815	1	•
	2,		Material type: EPDM			
			Thickness: 2,4			



Bulk, O-ring (50 pcs) Diameter: 16,3 99412727	pcs
Thickness: 2,4 26 Staybolt Length (mm): 400 98986331 4 Thread: M12 36 Bulk, Nut (20 pcs) Thread: M12 96620479 4 37 Bulk, O-ring (24 pcs) 96547656 2 38 Bulk, O-ring (10 pcs) Diameter: 16,3 99198815 2 Material type: EPDM Thickness: 2,4 38 Bulk, O-ring (50 pcs) Diameter: 16,3 99412727 2 Material type: EPDM Thickness: 2,4 + 44a Bulk, Guide vane cpl. (5 pcs) 96547659 1 47 Bulk, Bearing ring, rotating (10 pcs) 97905743 3 47 Bearing ring, rotating 96547649 3 49 Bulk, Impeller cpl. (5 pcs) 98394269 21 49 Bulk, Impeller cpl. (10 pcs) 98394269 21 49 Bulk, Impeller cpl. (24 pcs) 96547599 21	pcs
26 Staybolt Length (mm): 400 98986331 4 Thread: M12 36 Bulk, Nut (20 pcs) Thread: M12 96620479 4 37 Bulk, O-ring (24 pcs) 96547656 2 38 Bulk, O-ring (10 pcs) Diameter: 16,3 99198815 2 Material type: EPDM Thickness: 2,4 4 Bulk, O-ring (50 pcs) Diameter: 16,3 99412727 2 Material type: EPDM Thickness: 2,4 + 44a Bulk, Guide vane cpl. (5 pcs) 96547659 1 47 Bulk, Bearing ring, rotating (10 pcs) 97905743 3 47 Bearing ring, rotating 96547649 3 49 Bulk, Impeller cpl. (5 pcs) 98426771 21 49 Bulk, Impeller cpl. (10 pcs) 98394269 21 49 Bulk, Impeller cpl. (24 pcs) 96547599 21	pcs
Thread: M12 36 Bulk, Nut (20 pcs) 37 Bulk, O-ring (24 pcs) 38 Bulk, O-ring (10 pcs) Bulk, O-ring (10 pcs) Thickness: 2,4 38 Bulk, O-ring (50 pcs) Diameter: 16,3 Bulk, O-ring (50 pcs) Material type: EPDM Thickness: 2,4 44a Bulk, Guide vane cpl. (5 pcs) Bulk, Bearing ring, rotating (10 pcs) Bulk, Bearing ring, rotating (10 pcs) Bulk, Impeller cpl. (5 pcs) Bulk, Impeller cpl. (10 pcs) Bulk, Impeller cpl. (24 pcs) Bulk, Impeller cpl. (24 pcs)	pcs
36 Bulk, Nut (20 pcs) 37 Bulk, O-ring (24 pcs) 38 Bulk, O-ring (10 pcs) 38 Bulk, O-ring (10 pcs) 399198815 2 Material type: EPDM Thickness: 2,4 38 Bulk, O-ring (50 pcs) Diameter: 16,3 99412727 2 Material type: EPDM Thickness: 2,4 44 Bulk, Guide vane cpl. (5 pcs) 47 Bulk, Bearing ring, rotating 49 Bulk, Impeller cpl. (5 pcs) 98394269 21 49 Bulk, Impeller cpl. (24 pcs)	
37 Bulk, O-ring (24 pcs) 38 Bulk, O-ring (10 pcs) Diameter: 16,3 99198815 2 Material type: EPDM Thickness: 2,4 38 Bulk, O-ring (50 pcs) Diameter: 16,3 99412727 2 Material type: EPDM Thickness: 2,4 + 44a Bulk, Guide vane cpl. (5 pcs) 47 Bulk, Bearing ring, rotating (10 pcs) 48 Bulk, Impeller cpl. (5 pcs) 98426771 21 49 Bulk, Impeller cpl. (10 pcs) 98394269 21 49 Bulk, Impeller cpl. (24 pcs)	
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Thickness: 2,4 38 Bulk, O-ring (50 pcs) Diameter: 16,3 99412727 2 Material type: EPDM Thickness: 2,4 + 44a Bulk, Guide vane cpl. (5 pcs) 96547659 1 47 Bulk, Bearing ring, rotating (10 pcs) 97905743 3 47 Bearing ring, rotating 49 Bulk, Impeller cpl. (5 pcs) 98426771 21 49 Bulk, Impeller cpl. (10 pcs) 98394269 21 49 Bulk, Impeller cpl. (24 pcs)	pcs
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Thickness: 2,4 + 44a Bulk, Guide vane cpl. (5 pcs) 96547659 1 47 Bulk, Bearing ring, rotating (10 pcs) 97905743 3 47 Bearing ring, rotating 96547649 3 49 Bulk, Impeller cpl. (5 pcs) 98426771 21 49 Bulk, Impeller cpl. (10 pcs) 98394269 21 49 Bulk, Impeller cpl. (24 pcs) 96547599 21	pcs
+ 44a Bulk, Guide vane cpl. (5 pcs) 96547659 1 47 Bulk, Bearing ring, rotating (10 pcs) 97905743 3 47 Bearing ring, rotating 96547649 3 49 Bulk, Impeller cpl. (5 pcs) 98426771 21 49 Bulk, Impeller cpl. (10 pcs) 98394269 21 49 Bulk, Impeller cpl. (24 pcs) 96547599 21	
47 Bulk, Bearing ring, rotating (10 pcs) 47 Bearing ring, rotating 49 Bulk, Impeller cpl. (5 pcs) 49 Bulk, Impeller cpl. (10 pcs) 49 Bulk, Impeller cpl. (24 pcs) 96547599 21	
47 Bearing ring, rotating 96547649 3 49 Bulk, Impeller cpl. (5 pcs) 98426771 21 49 Bulk, Impeller cpl. (10 pcs) 98394269 21 49 Bulk, Impeller cpl. (24 pcs) 96547599 21	pcs
49 Bulk, Impeller cpl. (5 pcs) 98426771 21 49 Bulk, Impeller cpl. (10 pcs) 98394269 21 49 Bulk, Impeller cpl. (24 pcs) 96547599 21	pcs
49 Bulk, Impeller cpl. (10 pcs) 98394269 21 49 Bulk, Impeller cpl. (24 pcs) 96547599 21	pcs
49 Bulk, Impeller cpl. (24 pcs) 96547599 21	pcs
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40 Januarilla and 00004445 04	pcs
49 Impeller cpl. 98394415 21	pcs
51 Shaft, spline, cpl. 96588236 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 17	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	