

Company name: Created by: Phone:

		Date:	15/02/2019
ty.	Description		
1	CRN 3-33 A-P-A-E-HQQE		
	Product No.: 96516914		
	Vertical, multistage centrifugal pump with inlet a contact with the liquid are in high-grade stainles handling, and easy access and service. Power t (Victaulic®) couplings.	s steel. A cartridge s	shaft seal ensures high reliability, safe
	The pump is fitted with a 3-phase, fan-cooled as	synchronous motor.	
	Further product details Steel, cast iron and aluminium components hav (CED) process. CED is a high-quality dip-paintir deposition of paint particles as a thin, well-contr pretreatment. The entire process consists of the 1) Alkaline-based cleaning. 2) Zinc phosphating.	ng process where an olled layer on the su	electrical field around the products ensures
	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 an means of two coupling guards.	d motor shaft. It is ei	nclosed in the pump head/motor stool by
	The pump head and flange for motor mounting is separate component (stainless steel). The pump	s made in one piece b head has a combir	e (cast iron). The pump head cover is a ned 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) •



15/02/2019

Qty. | Description

Stationary seat material: silicon carbide (SiC)
This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

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



The shaft seal is screwed into the pump head.

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

The pump has a stainless-steel base mounted on a separate base plate. The base and base plate are kept in position by the tension of the staybolts which hold the pump together. The outlet side of the base has a combined drain plug and bypass valve. The pump is secured to the foundation by four bolts through the base plate. The base is prepared for connection by means of PJE (Victualic®) couplings.



Motor

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

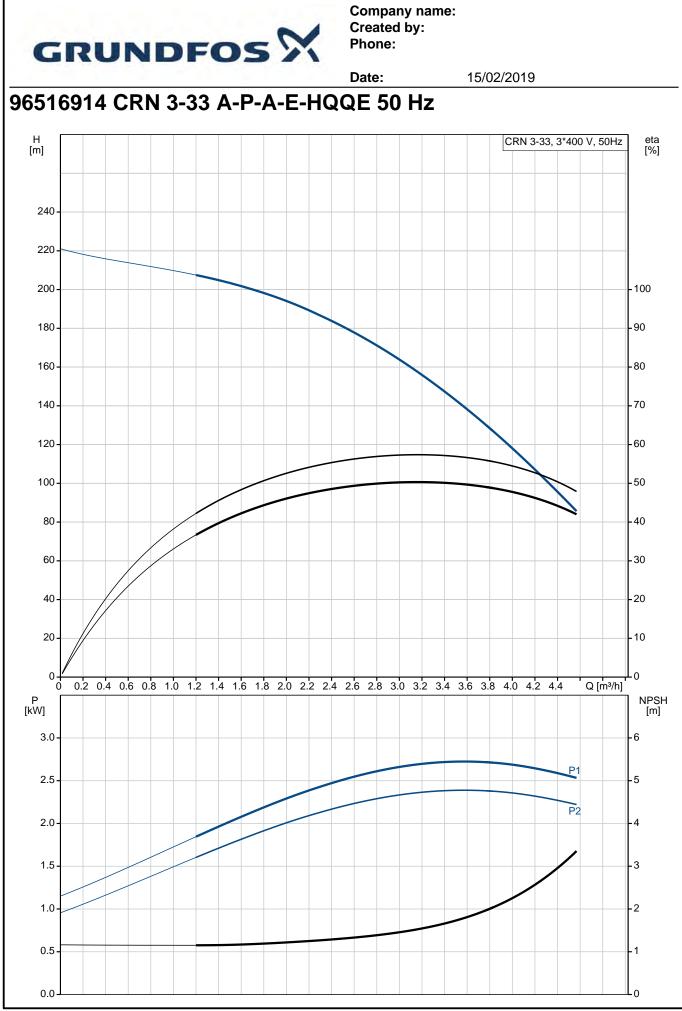
The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

Technical data

Controls: Frequency converter:	NONE
Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during of Density:	Water -20 120 °C operation: 20 °C 998.2 kg/m ³



	Date	;	15/02/2019					
Description								
Technical:								
Pump speed on which pump data are based: 2902 rpm								
Rated flow:	3 m³/h							
Rated head:	162.5 m							
Pump orientation:	Vertical							
Shaft seal arrangement:	Single							
Code for shaft seal:	HQQE							
Approvals on nameplate:	CE, EAC,ACS							
Curve tolerance:	ISO9906:2012 3B							
	1000000.2012 02							
Materials:	Otalista a staat							
Base:	Stainless steel							
	EN 1.4408							
	AISI 316							
Impeller:	Stainless steel							
	EN 1.4401							
	AISI 316							
Bearing:	SIC							
Installation: Maximum ambient temperature:	60 °C							
	25 bar							
Maximum operating pressure:								
Max pressure at stated temp:	25 bar / 120 °C							
	25 bar / -20 °C							
Type of connection:	PJE							
Size of inlet connection:	DN 32							
	1 1/4 inch							
Size of outlet connection:	DN 32							
	1 1/4 inch							
Pressure rating for pipe connect	ion: PN 50							
Flange size for motor:	FT130							
Electrical data:								
Motor standard:	IEC							
Motor type:	100LC							
IE Efficiency class:	IE3							
Rated power - P2:	3 kW							
Power (P2) required by pump:	3 kW							
Mains frequency:	50 Hz							
Rated voltage:	3 x 220-240D/380-415Y V							
Rated current:	11.0/6.30 A							
Starting current:	840-920 %							
Cos phi - power factor:	0.87-0.82							
Rated speed:	2900-2920 rpm							
Efficiency:	IE3 87,1%							
Motor efficiency at full load:	87.1 %							
Motor efficiency at 3/4 load:								
	88.0 %							
Motor efficiency at 1/2 load:	87.7 %							
Number of poles:	2							
Enclosure class (IEC 34-5):	55 Dust/Jetting							
Insulation class (IEC 85):	F							
Others:								
Minimum efficiency index, MEI â	a‰¥: 0.70							
	48.8 kg							
Net weight:								
Net weight: Gross weight:								
Gross weight:	54.2 kg							



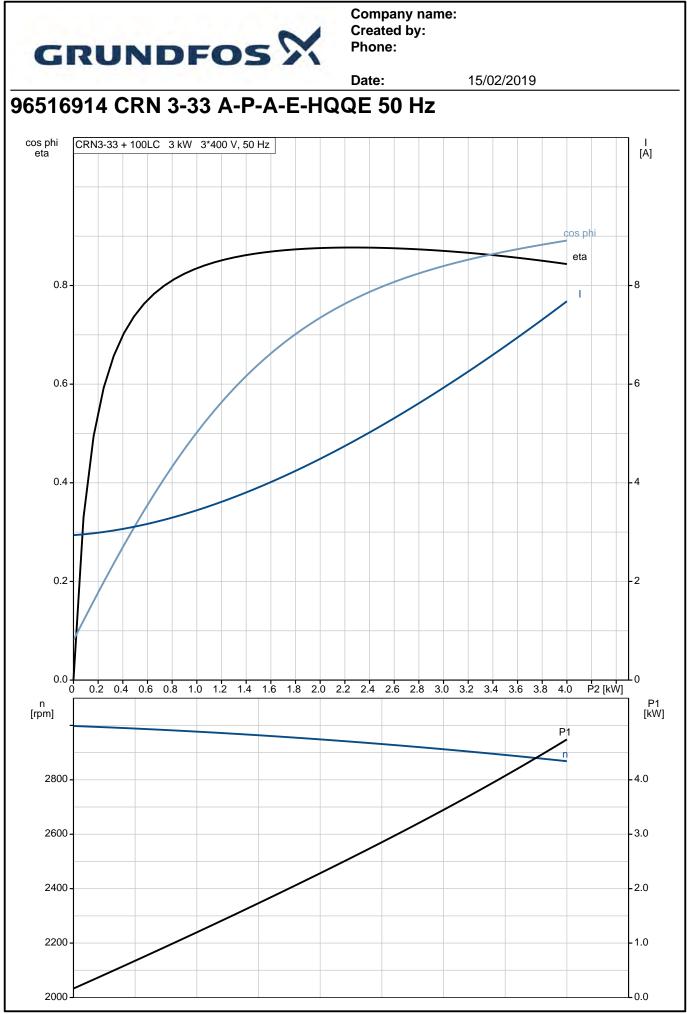


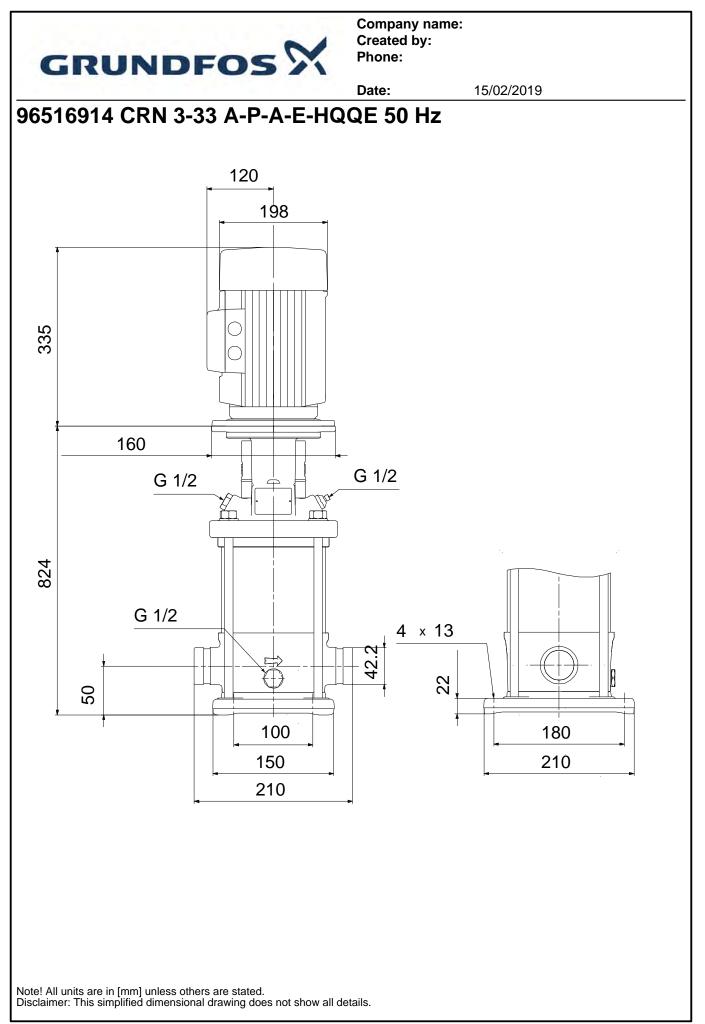
		Date:	15/02/2019
Description	Value	H [m]	CRN 3-33, 3*400 V, 50Hz [%]
General information:			
Product name:	CRN 3-33 A-P-A-E-HQQE	240 -	
Product No:	96516914		
EAN number:	5700396752419	200 -	100
Technical:		180 -	90
Pump speed on which pump data are based:	2902 rpm	160 -	80
Rated flow:	3 m³/h	140 -	70
Rated head:	162.5 m	120 -	- 60
Head max:	219.7 m		
Stages:	33	100 -	50
Impellers:	33	80-	40
Number of reduced-diameter impellers:	0	60-	- 30
Low NPSH:	N		30
Pump orientation:	Vertical	40 -	- 20
Shaft seal arrangement:	Single	20-	– 10
Code for shaft seal:	HQQE		
Approvals on nameplate:	CE, EAC,ACS	0 0.5 1.0	1.5 2.0 2.5 3.0 3.5 4.0 Q [m ³ /h]
Curve tolerance:	ISO9906:2012 3B	Р	NPSI
Pump version:	A	[kW]	[m]
Model:	A		P1
Model: Materials:	м	2.5 -	-5
	Stainless steel	2.0 -	P2 - 4
Base:		1.5	3
	EN 1.4408		
	AISI 316	1.0	2
Impeller:	Stainless steel	0.5 -	
	EN 1.4401		
	AISI 316	0.0 _	
Material code:	A		
Code for rubber:	E	198 198	
Bearing:	SIC		
Installation:			
Maximum ambient temperature:	60 °C	33	
Maximum operating pressure:	25 bar	Ţ	
Max pressure at stated temp:	25 bar / 120 °C 25 bar / -20 °C	160 G 1/2	<u>G 1/2</u>
Type of connection:	PJE		
Size of inlet connection:	DN 32		
	1 1/4 inch	ω G 1/2	
Size of outlet connection:	DN 32		
	1 1/4 inch		
Pressure rating for pipe connection:	PN 50	100	180
Flange size for motor:	FT130	<u>150</u> 210	210
Connect code:	P		
Liquid:			~
Pumped liquid:	Water		1
Liquid temperature range:	-20 120 °C		
Liquid temperature during operation:	-20 120 °C		F
Density:	998.2 kg/m ³		
Electrical data:	330.2 kg/11		3 APR
		TO AMPLIFIER	
Motor standard:	IEC	L1 L2 L3	F 3
Motor type:	100LC		
IE Efficiency class:	IE3		File CTED RelEAVE RelEAVE
Rated power - P2:	3 kW		LLY PRO
Power (P2) required by pump:	3 kW		
Mains frequency:	50 Hz	<u> </u>	C TP211
Rated voltage:	3 x 220-240D/380-415Y	TO AMPLIFIER RELAY L1 L2 L3	
	V	LI - L2 - L3 -	

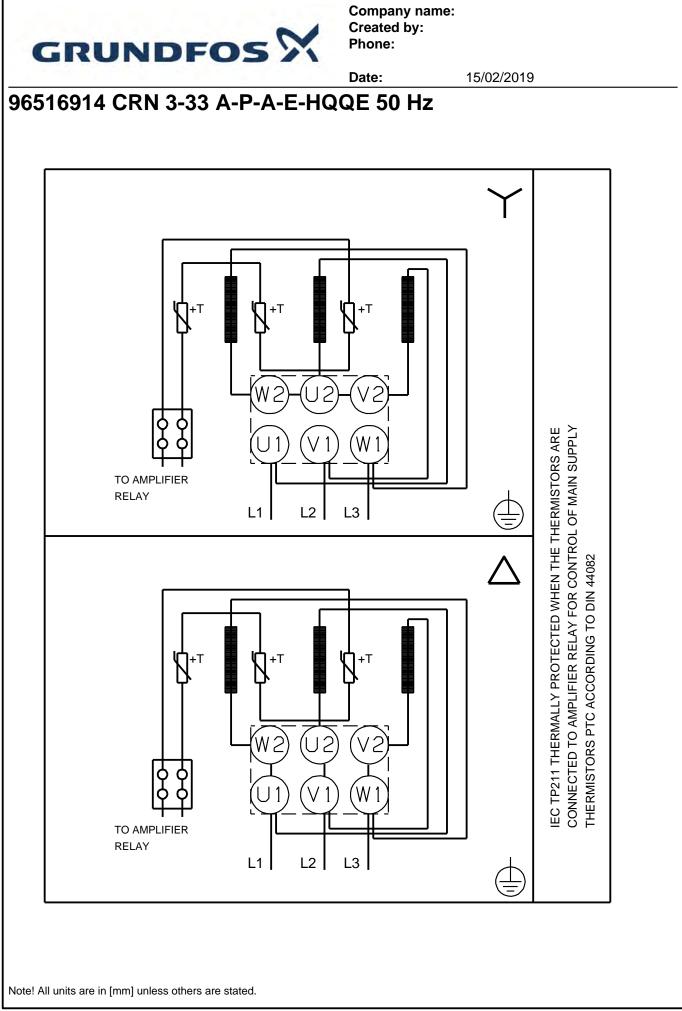
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		Date:	15/02/2019
Description	Value		
Rated current:	11.0/6.30 A		
Starting current:	840-920 %		
Cos phi - power factor:	0.87-0.82		
Rated speed:	2900-2920 rpm		
Efficiency:	IE3 87,1%		
Motor efficiency at full load:	87.1 %		
Motor efficiency at 3/4 load:	88.0 %		
Motor efficiency at 1/2 load:	87.7 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	55 Dust/Jetting		
Insulation class (IEC 85):	F		
Motor protec:	PTC		
Motor No:	85U05510		
Controls:			
Frequency converter:	NONE		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	48.8 kg		
Gross weight:	54.2 kg		
Shipping volume:	0.133 m ³		
Danish VVS No.:	385911033		



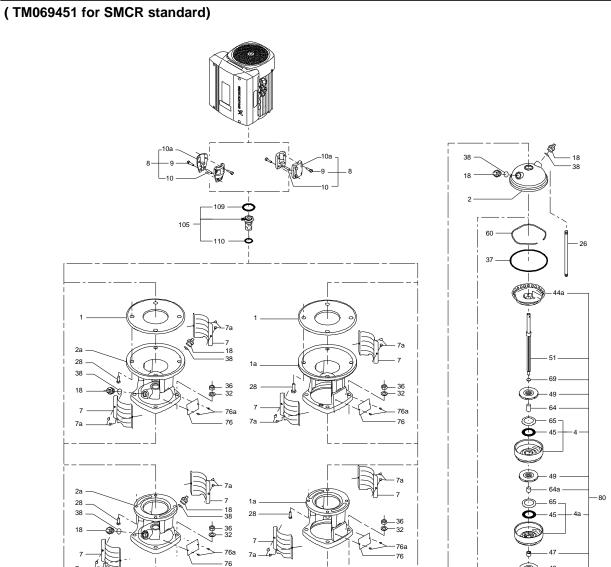


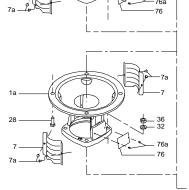


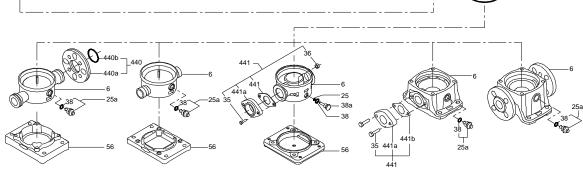


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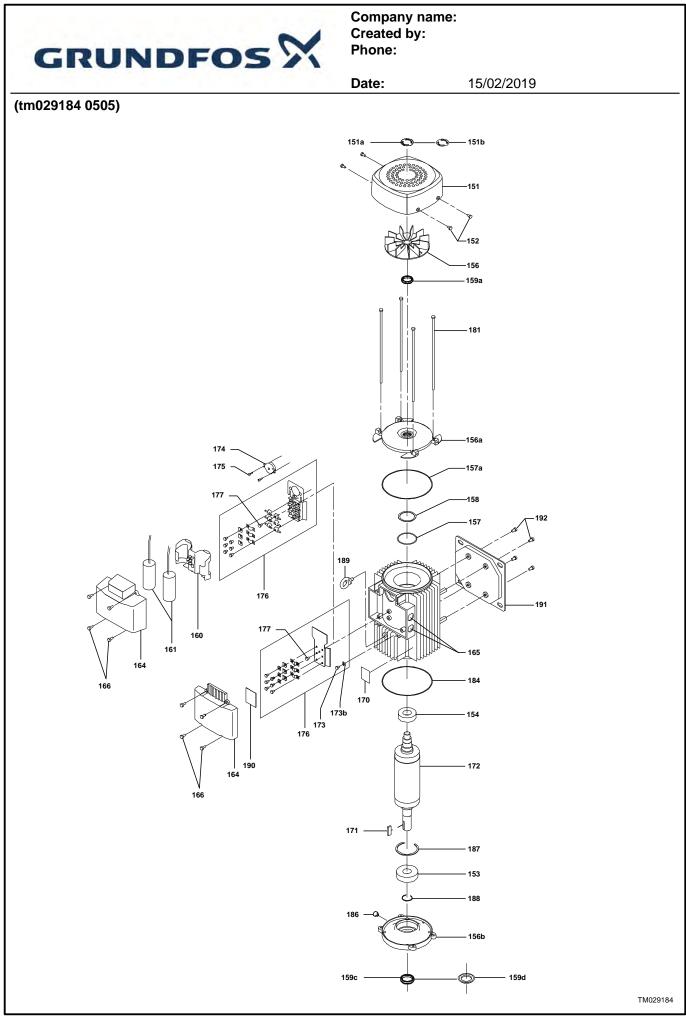


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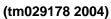
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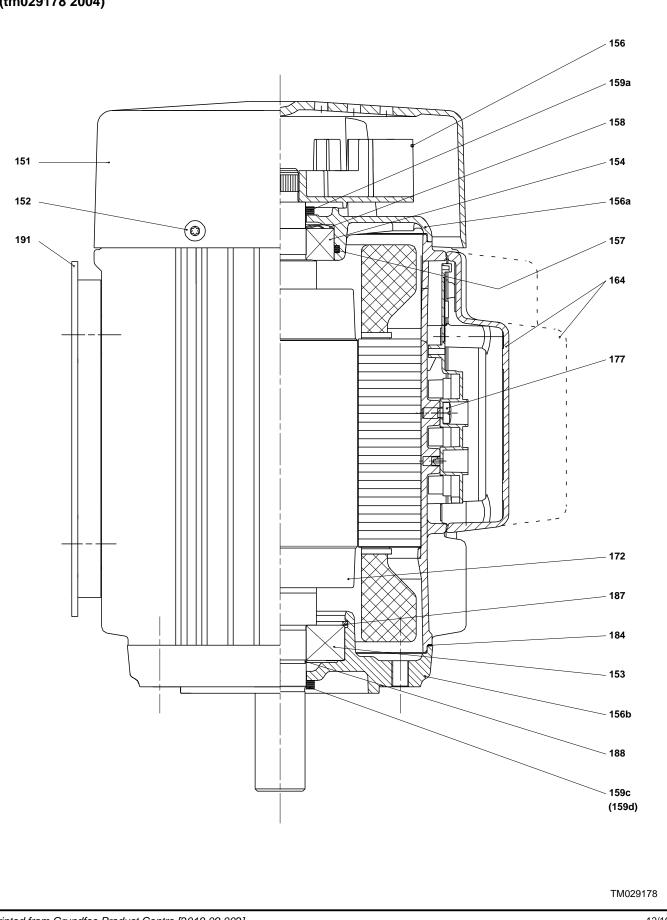
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15/02/2019







15/02/2019

Spare parts CRN 3-33, Product No. 96516914 Valid from 1.1.2011 (1152)

Pos	Description	Annotation		Part no.	Qty		Unit
80	Kit, chamber stack		Bearing type: SILICON CARBIDE	96453573	1		pcs
4a	Chamber w. bearing cpl.					4	
4a	Intermediate chamber						
45	Neck ring						
65	Neck ring retainer						
4	Chamber cpl.					28	5
4a	Intermediate chamber						
45	Neck ring						
65	Neck ring retainer						
5a	Chamber cpl.					1	
4a	Intermediate chamber					-	
45	Neck ring						
65	Neck ring retainer						
44a	Guide vane cpl.					1	
44 a	Plate					•	
	Guide vane						
FO							
50	Top plate					4	
47	Bearing ring, rotating					4	
49	Impeller cpl.					33	
51	Shaft, spline, cpl.					1	
64d	Spacing pipe		Internal diameter: 12,85			4	
			Outer diameter: 15,85				
			Length (mm): 4,50				
64c	Clamp, splined		Internal diameter: 8,5			1	
			Outer diameter: 15				
64a	Spacing pipe					28	1
66	Wedge lock washer					1	
67	Lock nut		Thread: M8			1	
	Kit, coupling			00415063	1		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	1		pcs
7.a	Combi Slot Torx screw					4	
7	Coupling guard					2	
	Kit, gaskets			96455090	1		pcs
37	O-ring					2	
38	O-ring		Diameter: 16,3			1	
00	C mig		Material type: EPDM			•	
			Thickness: 2,4				
38	O-ring		Diameter: 16,3			2	
30	0-ning					2	
			Material type: EPDM				
100	O ring		Thickness: 2,4			1	
109	O-ring		Diameter: 22,00			1	
			Material type: EPDM				
			Thickness: 2,75				
	Kit, plug			96505133	1		pcs
18	Air vent screw					1	
	Spindle						
	Plug						



23b Spincle 1 25 Plug 1 25 Plug 1 38 O-ring Diameter: 16,3 1 Thickness: 2,4 Spincle (F) Thickness: 2,4 Thickness: 2,4 Thickness: 2,4 Spincle (F) Thickness: 2,4 Spincle (T) Material type: FDM Thickness: 2,4 Spincle (T) Kit, shaft seal HOQE 96455086 1 p A deck fing 96455084 1 p A deck fing 32 A deck fing 32 A dea	23b Spincle 25 Plug 25 Plug 26 Plug 27 Diameter: 16,3 38 O-ring Material type: FKM Thickness: 2,4 38 O-ring Diameter: 16,3 39 O-ring Diameter: 16,3 30 O-ring Diameter: 16,3 30 O-ring 31 O-ring 32 Plug 33 O-ring 34 O-ring 35 O-ring 36 O-ring 37 Shaft seal 38 O-ring 39 Placek ring 4105 Shaft seal 42 Nack ring retainer 43 Nack ring retainer 44 Spacing pipe Outer diameter: 12,85 0 Outer diameter: 12,85 0 Uter diameter: 13,5 55 Nack ring retainer </th <th>nti</th> <th>tion</th> <th>Annotation</th> <th>Classification Data</th> <th></th> <th>Part no.</th> <th>Qtv</th> <th>. Unit</th>	nti	tion	Annotation	Classification Data		Part no.	Qtv	. Unit
25 Plug 1 38 O-ring Diameter: 16,3 1 Material type: FKM - 38 O-ring Diameter: 16,3 2 Material type: FKM - - 38 O-ring Diameter: 16,3 2 Material type: FMM - - 38 O-ring Diameter: 16,3 2 Material type: EPDM - - Thickness: 2,4 - - 38 O-ring Diameter: 16,3 2 Material type: EPDM - - - 5 Shaft seal Material type: SLICON CARBIDE 96455084 1 p 7 Deamder: 16,3 - 2 - 6 Neck ring - - - 6 Neck ring - - - - 6 Neck ring - - - - - 6 Neck ring - - - - - - - - - - - -	25 Plug 26 Plug 27 Plug 38 O-ring Diameter: 16.3 Inckness: 2,4 38 O-ring Material type: FKM Material type: FKM 38 O-ring Material type: FKM Inckness: 2,4 38 O-ring Material type: FDM Inckness: 2,4 38 O-ring Diameter: 16.3 Inckness: 2,4 38 O-ring Diameter: 16.3 Internest: 2,4 Inckness: 2,4 39 O-ring Diameter: 16.3 Internest: 2,4 Internest: 2,4 Internest: 2,4 105 Shaft seal HQQE Material type: HQQE 96455086 105 Shaft seal HQQE Material type: SILICON CARBIDE 96455086 14 Chamber w. bearing cpl. Internal diameter: 15.3 14 Chamber w. bearing cpl. Internal diameter: 12.85 14 Neck ring retainer Internal diameter: 15.8 14 Neck ring retainer Internal diameter: 15.8 15 Neck ring retainer Interna								
25 Plug 1 38 O-ring Diameter: 16.3 1 38 O-ring Diameter: 16.3 2 38 O-ring Diameter: 16.3 1 38 O-ring Diameter: 16.3 2 38 O-ring Material type: FDDM 1 50 Shaft seal Material type: SLICON CARBIDE 9645508 1 61 Kit, shaft seal HOCE 1 Material type: SLICON CARBIDE 9645508 1 62 Nack ring retainer 32 4 4 4 63 Nack ring retainer 32 4 4 64 Spacing pipe Internal diameter: 12.85	25 Plug 38 O-ring Diameter: 16.3 Material type: FKM Thickness: 2.4 38 O-ring Diameter: 16.3 Material type: FKM Thickness: 2.4 38 O-ring Diameter: 16.3 Material type: FKM Thickness: 2.4 38 O-ring Diameter: 16.3 Material type: EPDM Thickness: 2.4 38 O-ring Material type: FKM Thickness: 2.4 38 O-ring Material type: FCM Kit, shaft seal HQOE 96455086 1 105 Shaft seal Material type: HOOE 96455086 1 Kit, wear parts Material type: SLICON CARBIDE 6 Neck ring 45 Neck ring 46 Spacing pipe Internal diameter: 18,85 Length (mm): 4,50 64 Spacing pipe Outer diameter: 18,85 Length (mm): 4,50 65 Neck ring retainer								1
38 Oring Diameter: 16.3 1 38 Oring Diameter: 16.3 2 Material type: FRM - - 38 Oring Diameter: 16.3 1 Material type: FPM - - Thickness: 2,4 - - 38 Oring Diameter: 16.3 1 Material type: FPDM - - Thickness: 2,4 - - 38 Oring Diameter: 16.3 2 Material type: FDM - - 10 Kit, shaft seal HQQE 9645008 1 p 105 Shaft seal Material type: SLICON CARBIDE 9645008 1 p 4a Intermediate chamber - - - - 45 Neck ring - - - - 64 Spacing ring, rotating - - - - 644 Spacing ring, rotating - - - 64	38 O-ring Diameter: 16.3 39 O-ring Diameter: 16.3 39 O-ring Diameter: 16.3 30 Diameter: 16.3 Statt seal 30 Material type: EPDM Internal type: SILICON CARBIDE 40 Intermediate chamber Material type: SILICON CARBIDE 410 Chamber w. bearing reginer Statt seal 45 Neck ring Neck ring 46 Neck ring Outer diameter: 12.85 47 Bearing ring, rotating Internal diameter: 8.5 48 Neck ring Statt seal 49 Retain								1
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67 Lock nut Thread: M8 1 441b Gasket 2 Motor 85903730 1 p - Kit, Ball bearing 96279795 1 99a Retaining ring 96279795 1 99 Retaining ring 1 1 111 Ball bearing 1 1 113 Ball bearing 1 1 114 Ball bearing 1 1 1157 O-ring Diameter: 52 1 158 Waved washer 1 1 156a End shield 96279831 1 157 O-ring Diameter: 52 1 156a End shield 96279831 1 157 O-ring Diameter: 52 1 158 Waved washer 1 1 157 O-ring Diameter: 52 1 158 Waved washer 1 1 159a Seal ring 96279757	67 Lock nut Thread: M8 441b Gasket 85903730 1 Motor 85903730 1 96279795 99a Retaining ring 96279795 99 Retaining ring 96279795 99 Retaining ring 96279795 99 Retaining ring 96279795 91 Ball bearing 111 111 Ball bearing 111 153 Find shield 96279826 154 Fan 96279757								
441b Gasket 2 Motor 85903730 1 p 99a Retaining ring 96279795 1 99 Retaining ring 92 1 99 Retaining ring 1 1 111 Ball bearing 1 1 112 O-ring Diameter: 52 1 156a End shield 1 1 157 O-ring Diameter: 52 1 158a Waved washer 1 1 159a Seal ring 1 1 1515 <td>441b Gasket 85903730 1 Motor 85903730 1 Kit, Ball bearing 96279795 99a Retaining ring 99 Retaining ring 111 Ball bearing 1157 O-ring Diameter: 52 <td>_</td><td>-</td><td></td><td>Thread: MO</td><td></td><td></td><td></td><td></td></td>	441b Gasket 85903730 1 Motor 85903730 1 Kit, Ball bearing 96279795 99a Retaining ring 99 Retaining ring 111 Ball bearing 1157 O-ring Diameter: 52 <td>_</td> <td>-</td> <td></td> <td>Thread: MO</td> <td></td> <td></td> <td></td> <td></td>	_	-		Thread: MO				
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99 Retaining ring 111 Ball bearing 111 Ball bearing 111 Ball bearing 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer Kit, end shield 96279831 156 End shield 157 O-ring Diameter: 52 Thickness: 3 157 O-ring Diameter: 52 Kit, end shield 96279831 1 156a End shield 1 157 O-ring Diameter: 52 1 157 O-ring Diameter: 52 1 157 O-ring Diameter: 52 1 158 Waved washer 1 1 159 Seal ring 1 1 158 Seal ring 1 1 159 Seal ring 1 1 151b Label 1 1 151b Label 1 1 152 Pan head thread forming screw<	99 Retaining ring 111 Ball bearing 111 Ball bearing 157 O-ring 157 O-ring Material type: NBR Thickness: 3 158 Waved washer Kit, end shield 96279831 156a End shield 157 O-ring Diameter: 52 Material type: NBR 156a End shield 157 O-ring 158 Waved washer 157 O-ring 158 End shield 157 O-ring 158 Waved washer 158 Waved washer 158 Waved washer 159a Seal ring Kit, fan 96279757 156 Fan 159a Seal ring Kit, fan cover 96279826 151b Label		•				9627979	95	1
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157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer Kit, end shield 96279831 156a End shield 157 O-ring Diameter: 52 Material type: NBR 157 O-ring 158 Waved washer 157 O-ring 158 Waved washer 158 Vaved washer 158 Seal ring Kit, fan 96279757 158 Seal ring Kit, fan cover 96279826 151b Label 151b Label 152 Pan head thread forming screw	157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer 96279831 156a End shield 96279831 156a End shield 96279831 157 O-ring Diameter: 52 157 O-ring Diameter: 52 157 O-ring Diameter: 52 158 Waved washer 153 158 Waved washer 154 159a Seal ring 96279757 156 Fan 96279826 159a Seal ring 96279826 151b Label 96279826								
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Thickness: 3158Waved washer962798311156aEnd shield962798311157O-ringDiameter: 521Thickness: 3Thickness: 3158Waved washer1159aSeal ring962797571156Fan962797571159aSeal ring1159aSeal ring1159aSeal ring1159aSeal ring1159aSeal ring1159aSeal ring1159aSeal ring1151bLabel1151bPan head thread forming screw1	Thickness: 3158Waved washer96279831156aEnd shield96279831157O-ringDiameter: 52Material type: NBRThickness: 3158Waved washer159aSeal ring156Fan159aSeal ring159aSeal ring151Fan cover151Fan cover				Material type: NBR				
158 Waved washer 96279831 1 156a End shield 96279831 1 157 O-ring Diameter: 52 1 157 O-ring Material type: NBR 1 Thickness: 3 158 Waved washer 1 159a Seal ring 1 156 Fan 96279757 1 159a Seal ring 1 1 151b Label 1 1 151b Label 1 1 152 Pan head thread forming screw 1 1	158 Waved washer 96279831 156a End shield 96279831 157 O-ring Diameter: 52 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer 159a 159a Seal ring 96279757 156 Fan 96279757 159a Seal ring 96279826 151b Label 151 151b Fan cover 96279826								
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157O-ringDiameter: 52Material type: NBRThickness: 3158Waved washer159aSeal ringKit, fan96279757156Fan159aSeal ring159aSeal ring151Label151Fan cover152Pan head thread forming screw	157O-ringDiameter: 52 Material type: NBR Thickness: 3158Waved washer159aSeal ringKit, fan96279757156Fan159aSeal ringKit, fan cover96279826151bLabel151Fan cover						5021500		•
Material type: NBR Thickness: 3 158 Waved washer 159a Seal ring Kit, fan 96279757 156 Fan 159a Seal ring Kit, fan 96279826 151b Label 151 Fan cover 152 Pan head thread forming screw	Material type: NBR Thickness: 3 158 Waved washer 159a Seal ring Kit, fan 96279757 156 Fan 159a Seal ring Kit, fan cover 96279826 151b Label 151 Fan cover				Diamator: 50				
Thickness: 3 158 Waved washer 159a Seal ring Kit, fan 96279757 1 156 Fan 159a Seal ring 1 159a Seal ring 1 159a Seal ring 1 151b Label 1 151 Fan cover 96279826 1 152 Pan head thread forming screw 1 1	Thickness: 3 158 Waved washer 159a Seal ring Kit, fan 96279757 156 Fan 159a Seal ring Kit, fan cover 96279826 151b Label 151 Fan cover	U	O-ming						
158 Waved washer 159a Seal ring Kit, fan 96279757 1 156 Fan 1 159a Seal ring 1 Kit, fan cover 96279826 1 151b Label 1 152 Pan head thread forming screw 1	158Waved washer159aSeal ringKit, fan96279757156Fan159aSeal ringKit, fan cover96279826151bLabel151Fan cover								
159a Seal ring 96279757 1 156 Fan 96279757 1 159a Seal ring 96279826 1 Kit, fan cover 96279826 1 151b Label 1 151 Fan cover 1 152 Pan head thread forming screw 1	159a Seal ring Kit, fan 96279757 156 Fan 159a Seal ring Kit, fan cover 96279826 151b Label 151 Fan cover				I nickness: 3				
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151bLabel151Fan cover152Pan head thread forming screw	151b Label 151 Fan cover		-				9627982	26	1
151 Fan cover 152 Pan head thread forming screw	151 Fan cover							-	•
152 Pan head thread forming screw									
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156b Flange							9627982	ŏ	I



Pos	Description	Annotation	Classification Data	Part no.	Ot	y. Unit
156.c	•	Annotation	OldSSincation Data	i art no.	્યા	y. Onit
159.c	1 0					
	Kit, retaining ring			9627	9799	1
99	Retaining ring				0.00	•
188	Retaining ring					
	Kit, shaft seal			9627	9762	1
159c	Seal ring					-
159a	Seal ring					
	Kit, staybolts			9627	9832	1
181	Pan head staybolt					
	Kit, terminal board			9627	9769	1
173a	Base					
173	Pan head thread forming screw		Designation: C	OMBI TORX T25		
176	Slot cheese head screw		-	OMBI 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			9627	9771	1
164	Terminal box cover w/gasket					
166	Pan head thread forming screw					
1a	Pump head			9880404	71	pcs
2	Pump cover			9658824		pcs
- 4a	Bulk, Chamber w. bearing cpl. (5 pcs)			9769060		pcs
4a	Bulk, Chamber w. bearing cpl. (5 pcs)			9654766		pcs
4a	Chamber w. bearing cpl. (0 pcs)			9837122		pcs
4	Bulk, Chamber cpl. (5 pcs)			9769002		pcs
45	Bulk, Neck ring (24 pcs)				6194	•
45 65	Bulk, Neck ring retainer (8 pcs)				0745	
65	Bulk, Neck ring retainer (3 pcs)				0747	
4				9654766		
	Bulk, Chamber cpl. (10 pcs)					pcs
4	Chamber cpl.			9837122		pcs
5a	Chamber cpl.			9837122		pcs
6	Base			9658813		pcs
7.a	Bulk, Combi Slot Torx screw (1000 pcs)			9688632		pcs
7	Bulk, Coupling guard (10 pcs)			9660369		pcs
10	Bulk, Shaft pin (10 pcs)		Diameter: 5	9653647	31	pcs
40			Length (mm): 26	005 17 10		
18	Bulk, Air vent screw (5 pcs)			9654746		pcs
18	Air vent screw			9506135		pcs
25	Bulk, Plug (10 pcs)			9653601		pcs
25a	Drain plug w/bypass valve			9658824		pcs
38	Bulk, O-ring (10 pcs)		Diameter: 16,3	9919	8815	1
			Material type: EPDM			
			Thickness: 2,4			
38	Bulk, O-ring (50 pcs)		Diameter: 16,3	9941	2727	1
			Material type: EPDM			
			Thickness: 2,4			
26	Staybolt		Length (mm): 691	9898002	94	pcs
			Thread: M12			
28	Bulk, Hex head screw (4 pcs)		Length (mm): 25	9933594	1 4	pcs
			Thread: M8			
37	Bulk, O-ring (24 pcs)			9654765	62	pcs
38	Bulk, O-ring (10 pcs)		Diameter: 16,3	9919881	52	pcs
			Material type: EPDM			



			Date:	15/02/2019		
Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
	·		Thickness: 2,4			
38	Bulk, O-ring (50 pcs)		Diameter: 16,3	99412727	2	pcs
			Material type: EPDM			
			Thickness: 2,4			
+ 44a	Guide vane cpl.			98928568	1	pcs
47	Bulk, Bearing ring, rotating (10 pcs)			97905743	4	pcs
47	Bearing ring, rotating			96547649	4	pcs
49	Bulk, Impeller cpl. (4 pcs)			98271529	33	pcs
49	Bulk, Impeller cpl. (10 pcs)			98394270	33	pcs
49	Bulk, Impeller cpl. (24 pcs)			96547601	33	pcs
49	Impeller cpl.			98394417	33	pcs
51	Shaft, spline, cpl.			98368528	1	pcs
55	Outer sleeve			98811278	1	pcs
56	Base plate			96588142	1	pcs
60	Formed wire spring			96547664	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	28	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