



POMPTechniek • SERVICE • ONDERHOUD

Inventflow: Grundfos A-partner

Grundfos TPE 100-650/2 NC-A3-F-O-DQQE-UX1

Find the pump here:

<https://inventflow.nl/en/pompenfilter/tpe/grundfos-tpe-100-650-2-nc-a3-f-o-dqqe-ux1>

Contact

info@inventflow.nl

+31 (0) 546 45 80 72

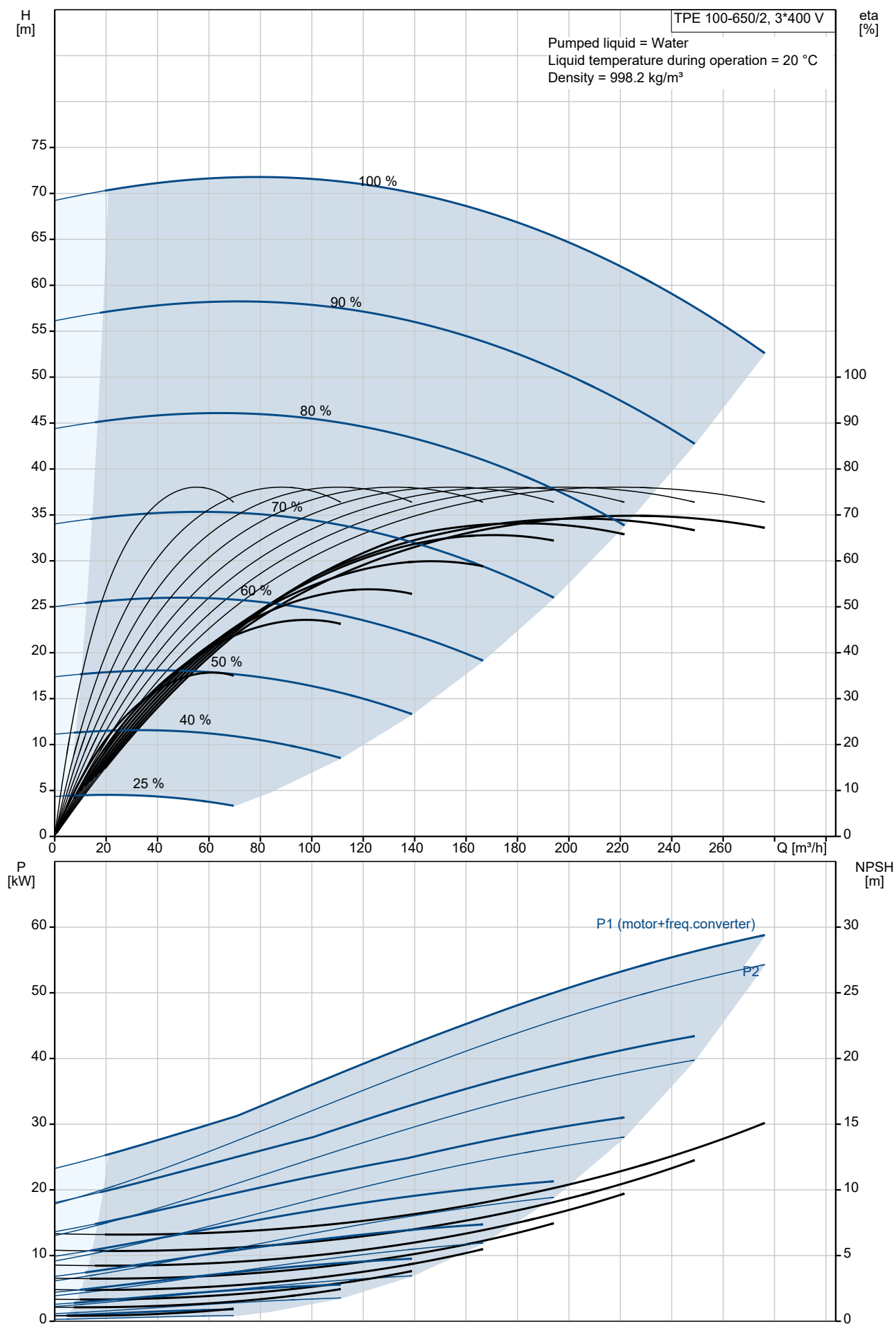
Datasheet



Qty.	Description																																								
1	TPE 100-650/2 NC-A3-F-O-DQQE-UX1  Note! Product picture may differ from actual product Product No.: 99473611 Single-stage, close-coupled, volute pump with in-line suction and discharge ports of identical diameter. The pump is of the top-pull-out design, i.e. the power head (motor, pump head and impeller) can be removed for maintenance or service while the pump housing remains in the pipework. The pump is fitted with an unbalanced rubber bellows seal. The shaft seal is according to EN 12756. Flange standard: Pipework connection is via PN 25 DIN flanges (EN 1092-2 and ISO 7005-2). The pump is fitted with a fan-cooled asynchronous motor. The pump includes a frequency converter and PI controller. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement. <table data-bbox="204 1326 948 1471"> <tr><td colspan="2">Controls:</td></tr> <tr><td>VFD product number:</td><td>99448802</td></tr> <tr><td>Frequency converter:</td><td>Built-in</td></tr> <tr><td>Type of frequency converter:</td><td>CUE 3X380-500V IP55 RUG 55KW</td></tr> <tr><td>Appr. for VFD:</td><td>CE, CULUS, C-TICK</td></tr> </table> <table data-bbox="204 1503 703 1648"> <tr><td colspan="2">Liquid:</td></tr> <tr><td>Pumped liquid:</td><td>Water</td></tr> <tr><td>Liquid temperature range:</td><td>-40 .. 120 °C</td></tr> <tr><td>Selected liquid temperature:</td><td>20 °C</td></tr> <tr><td>Density:</td><td>998.2 kg/m³</td></tr> </table> <table data-bbox="204 1680 818 1883"> <tr><td colspan="2">Technical:</td></tr> <tr><td>Pump speed on which pump data are based:</td><td>2980 rpm</td></tr> <tr><td>Rated flow:</td><td>212.4 m³/h</td></tr> <tr><td>Rated head:</td><td>63.1 m</td></tr> <tr><td>Actual impeller diameter:</td><td>230 mm</td></tr> <tr><td>Code for shaft seal:</td><td>DQQE</td></tr> <tr><td>Curve tolerance:</td><td>ISO9906:2012 3B</td></tr> </table> <table data-bbox="204 1915 812 2092"> <tr><td colspan="2">Materials:</td></tr> <tr><td>Pump housing:</td><td>DUCTILE IRON EN-GJS-400-18-LT ASTM Grade 60-40-18</td></tr> <tr><td>Impeller:</td><td>Cast iron EN-GJL-200</td></tr> </table>	Controls:		VFD product number:	99448802	Frequency converter:	Built-in	Type of frequency converter:	CUE 3X380-500V IP55 RUG 55KW	Appr. for VFD:	CE, CULUS, C-TICK	Liquid:		Pumped liquid:	Water	Liquid temperature range:	-40 .. 120 °C	Selected liquid temperature:	20 °C	Density:	998.2 kg/m³	Technical:		Pump speed on which pump data are based:	2980 rpm	Rated flow:	212.4 m³/h	Rated head:	63.1 m	Actual impeller diameter:	230 mm	Code for shaft seal:	DQQE	Curve tolerance:	ISO9906:2012 3B	Materials:		Pump housing:	DUCTILE IRON EN-GJS-400-18-LT ASTM Grade 60-40-18	Impeller:	Cast iron EN-GJL-200
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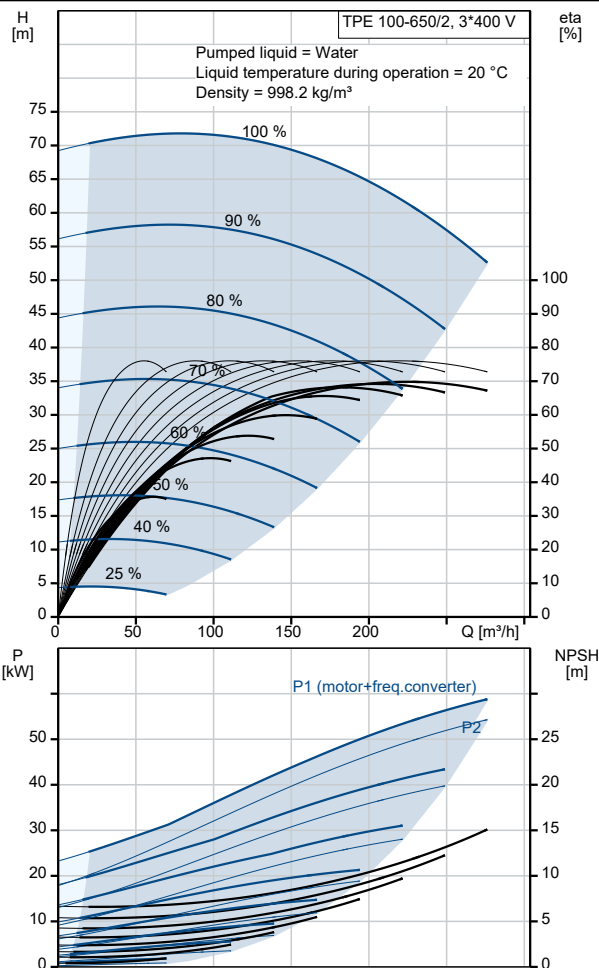
Qty.	Description
	ASTM class 30
	Installation:
	Range of ambient temperature: -20 .. 55 °C
	Maximum operating pressure: 25 bar
	Max pressure at stated temp: 25 bar / 120 °C
	Type of connection: DIN
	Size of connection: DN 100
	Pressure rating for connection: PN 25
	Port-to-port length: 670 mm
	Flange size for motor: FF500
	Electrical data:
	Motor type: SIEMENS
	IE Efficiency class: IE3
	Rated power - P2: 55 kW
	Mains frequency: 50 Hz
	Rated voltage: 3 x 380-420D/660-725Y V
	Rated current: 99,0-92,0/57,0-53,0 A
	Starting current: 670-670 %
	Cos phi - power factor: 0.89
	Rated speed: 2975 rpm
	Efficiency: IE3 94,3%
	Motor efficiency at full load: 94.3-94.3 %
	Motor efficiency at 3/4 load: 94.5-94.5 %
	Motor efficiency at 1/2 load: 93.9-93.9 %
	Number of poles: 2
	Enclosure class (IEC 34-5): IP55
	Insulation class (IEC 85): F
	Motor No: 99454133
	Others:
	Minimum efficiency index, MEI ≥: 0.70
	Net weight: 697 kg
	Gross weight: 808 kg
	Shipping volume: 2.07 m³
	Country of origin: HU
	Custom tariff no.: 84137051

99473611 TPE 100-650/2 NC-A3-F-O-DQQE-UX1 50 Hz



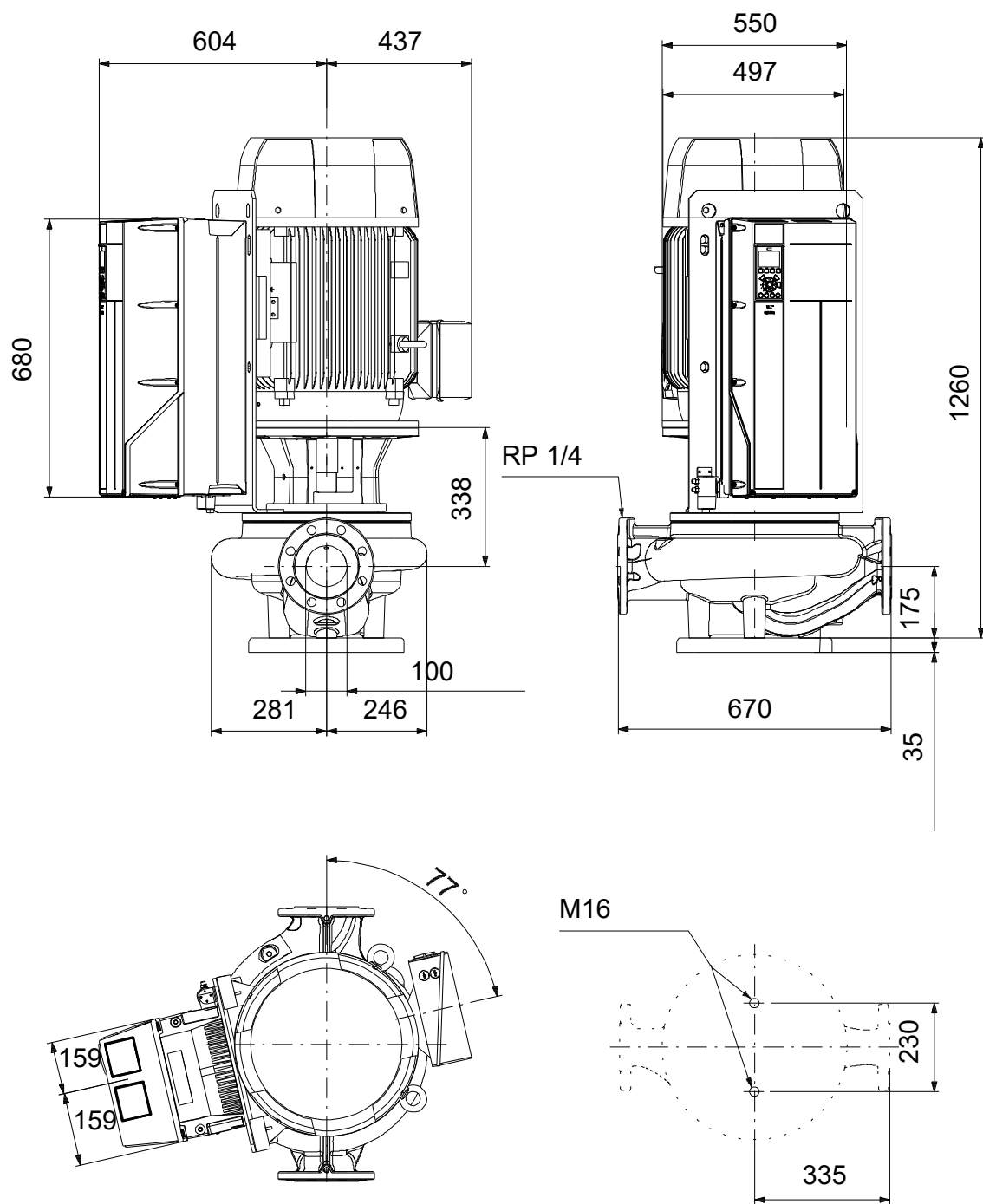
Description	Value		
General information:			
Product name:	TPE 100-650/2 NC-A3-F-O-DQQE-UX1		
Product No:	99473611		
EAN number:	5713829694279		
Technical:			
Pump speed on which pump data are based:	2980 rpm		
Rated flow:	212.4 m³/h		
Rated head:	63.1 m		
Maximum head:	650 dm		
Actual impeller diameter:	230 mm		
Code for shaft seal:	DQQE		
Curve tolerance:	ISO9906:2012 3B		
Pump version:	A3		
Materials:			
Pump housing:	DUCTILE IRON		
Pump housing:	EN-GJS-400-18-LT		
Pump housing:	ASTM Grade 60-40-18		
Impeller:	Cast iron		
Impeller:	EN-GJL-200		
Impeller:	ASTM class 30		
Material code:	O		
Installation:			
Range of ambient temperature:	-20 .. 55 °C		
Maximum operating pressure:	25 bar		
Max pressure at stated temp:	25 bar / 120 °C		
Type of connection:	DIN		
Size of connection:	DN 100		
Pressure rating for connection:	PN 25		
Port-to-port length:	670 mm		
Flange size for motor:	FF500		
Connect code:	F		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-40 .. 120 °C		
Selected liquid temperature:	20 °C		
Density:	998.2 kg/m³		
Electrical data:			
Motor type:	SIEMENS		
IE Efficiency class:	IE3		
Rated power - P2:	55 kW		
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-420D/660-725Y V		
Rated current:	99,0-92,0/57,0-53,0 A		
Starting current:	670-670 %		
Cos phi - power factor:	0.89		
Rated speed:	2975 rpm		
Efficiency:	IE3 94,3%		
Motor efficiency at full load:	94.3-94.3 %		
Motor efficiency at 3/4 load:	94.5-94.5 %		
Motor efficiency at 1/2 load:	93.9-93.9 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protec:	PTC		
Motor No:	99454133		
Controls:			
VFD product number:	99448802		
Frequency converter:	Built-in		
Type of frequency converter:	CUE 3X380-500V IP55 RUG 55KW		
Appr. for VFD:	CE, CULUS, C-TICK		
Others:			
Minimum efficiency index, MEI ≥:	0.70		

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Description	Value
Net weight:	697 kg
Gross weight:	808 kg
Shipping volume:	2.07 m³
Config. file no:	99465392
Country of origin:	HU
Custom tariff no.:	84137051

99473611 TPE 100-650/2 NC-A3-F-O-DQQE-UX1 50 Hz



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

Spare parts TPE 100-650/2, Product No. 99473611
Produced After 1339 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
- 56	Base plate			96536246	1	pcs
28g	Hex head cap screw		Length (mm): 30 MM		2	
			Thread: M16			
56	Base plate				1	
-	Kit, coupling guard			99102438	1	pcs
7b	Lock washer				2	
7a	Screw				2	
7	Coupling guard				1	
-	Kit, motor stool			99102437	1	pcs
	Washer				4	
- 1a	Motor stool cpl.				1	
1.a	Motor stool				1	
7b	Lock washer				4	
7a	Screw				4	
7	Coupling guard				2	
28	Hex head screw		Length (mm): 90		4	
			Thread: M 16			
28	Hex head screw		Length (mm): 60		8	
			Thread: M16			
36	Hex nut		Thread: M16		12	
36	Nut		Thread: M12		10	
76a	Rivet				2	
-	Spare, wear ring			99208810	1	pcs
45	Wear ring				1	
	Control card			99590986	1	pcs
	Control panel			99591437	1	pcs
9	Current sensor			96809465	1	pcs
4	Fan, internal			96809361	1	pcs
6	Fan, main			96809614	1	pcs
8	IGBT			96809411	1	pcs
5	Power card			96809742	1	pcs
7	Rectifier/thyristor			96809429	1	pcs
	Staybolt			97512560	4	pcs
-	Motor				1	pcs
- 153	Ball bearing			99493504	1	
153	Ball bearing				1	
156	Fan			96766619	1	
151	Kit, fan cover			98062277	1	
164a	Kit, terminal box			98062264	1	
18	Plug			96620482	1	pcs
18	Plug			98164277	1	pcs
19	Plug			98163028	2	pcs
28	Hex nut		Thread: M16	97511792	4	pcs
36	Hex nut		Thread: M16	96620480	8	pcs
36	Nut		Thread: M10	96620484	8	pcs
49	Impeller			98517995	1	pcs
- 50	Pump housing cpl.			99102052	1	pcs
36	Nut		Thread: M12	96620479	14	
56	Base plate			99788464	1	pcs
67	Nut		Thread: M18	92526535	1	pcs
72a	O-ring		Diameter: 329,79	92547632	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
72a	O-ring		Diameter: 329,79	92526511	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
72a	O-ring		Diameter: 329,79	97511846	1	pcs
			Material type: EPDM			
			Thickness: 3,53			

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
72a	O-ring		Diameter: 329,79	97757675	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
- 105b	Spacer			96930797	1	pcs
105b	Spacer			96938599	1	
105b	Spacer			96591277	1	
105	Shaft seal			92514291	1	pcs
105	Shaft seal			97769897	1	pcs