

17/02/2019

Qty. | Description

1

CR 45-4 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96122803

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 DIN 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.

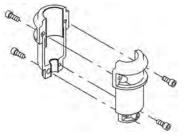
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.

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 long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.

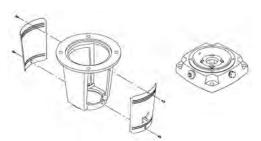


The motor stool connects the pump head and motor. The pump head has a combined 1/2" priming plug and vent screw.



Date:

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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.

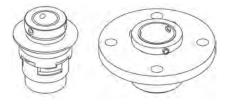
Primary seal:

- 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 retained in the pump head by a cover and screws. It can be replaced without removing the motor.

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. Both the inlet and the outlet side of the base have two pressure gauge tappings. The pump is secured to the foundation by four bolts through the base plate. The flanges are fastened to the base by means of locking rings.



Motor

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

Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (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.

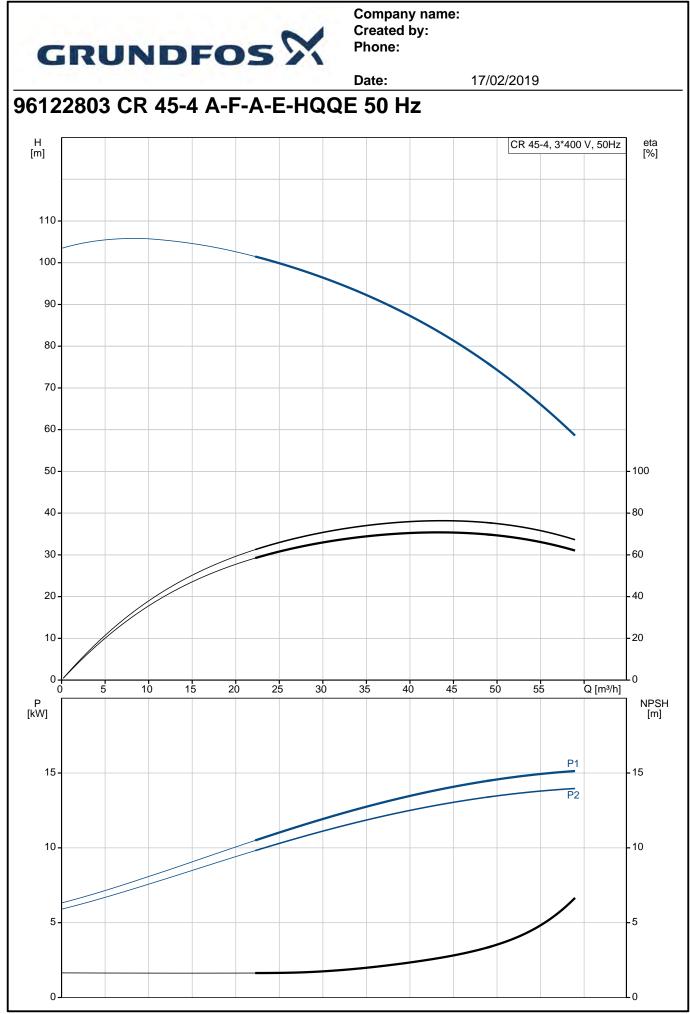
The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.



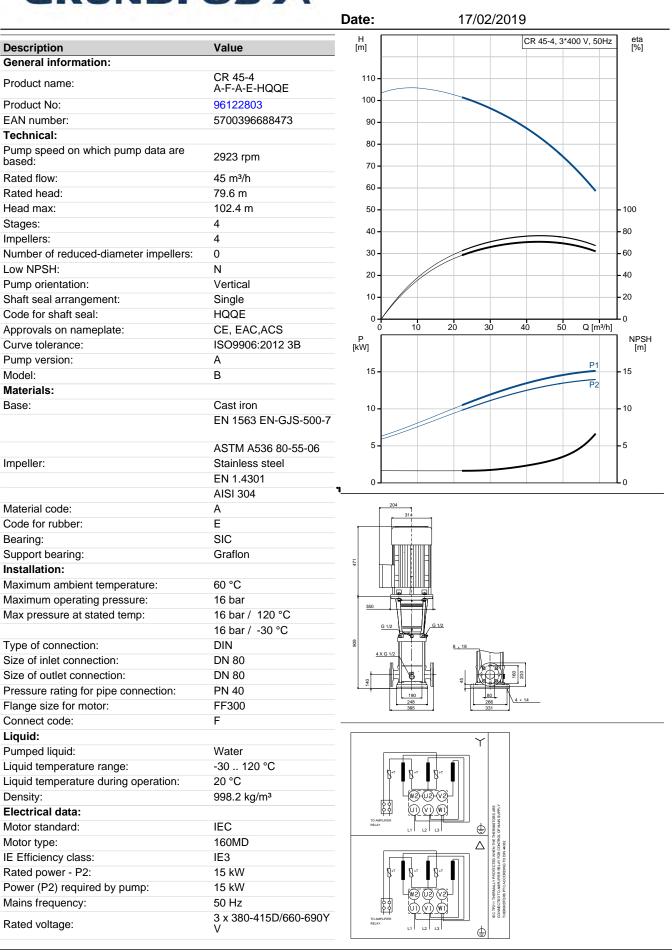
Description		
Technical data		
Controls:		
Frequency converter:	NONE	
Liquid: Pumped liquid:	Water	
Liquid temperature range:	-30 120 °C	
Liquid temperature during ope		
Density:	998.2 kg/m ³	
Technical:		
Pump speed on which pump d	ata are based: 2923 rpm	
Rated flow:	45 m ³ /h	
Rated head:	79.6 m	
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 1563 EN-GJS-500-7	
	ASTM A536 80-55-06	
Impeller:	Stainless steel	
	EN 1.4301 AISI 304	
Bearing:	SIC	
Support bearing:	Graflon	
Installation:		
Maximum ambient temperatur	e. 60 °C	
Maximum operating pressure:		
Max pressure at stated temp:	16 bar / 120 °C	
	16 bar / -30 °C	
Type of connection:	DIN	
Size of inlet connection:	DN 80	
Size of outlet connection:	DN 80	
Pressure rating for pipe conne Flange size for motor:	FF300	
Tiange size for motor.	11300	
Electrical data:		
Motor standard:	IEC	
Motor type:	160MD	
IE Efficiency class:		
Rated power - P2: Power (P2) required by pump:	15 kW 15 kW	
Mains frequency:	50 Hz	
Rated voltage:	3 x 380-415D/660-690Y V	
Rated current:	28,0-26,0/16,2-15,6 A	
Starting current:	660-780 %	
Cos phi - power factor:	0.89-0.87	
Rated speed:	2930-2950 rpm	
Efficiency:	IE3 91,9%	
Motor efficiency at full load:	91.9-91.9 %	
Motor efficiency at 3/4 load:	92.4 %	
Motor efficiency at 1/2 load:	92.4 %	



		Date:	17/02/2019	
Description				
Enclosure class (IEC 34-5):	55 Dust/Jetting			
Insulation class (IEC 85):	F			
Others:				
Minimum efficiency index, MEI	≥: 0.70 179 kg			
Net weight: Gross weight:	212 kg			
Shipping volume:	0.495 m ³			
Danish VVS No.:	385907040			

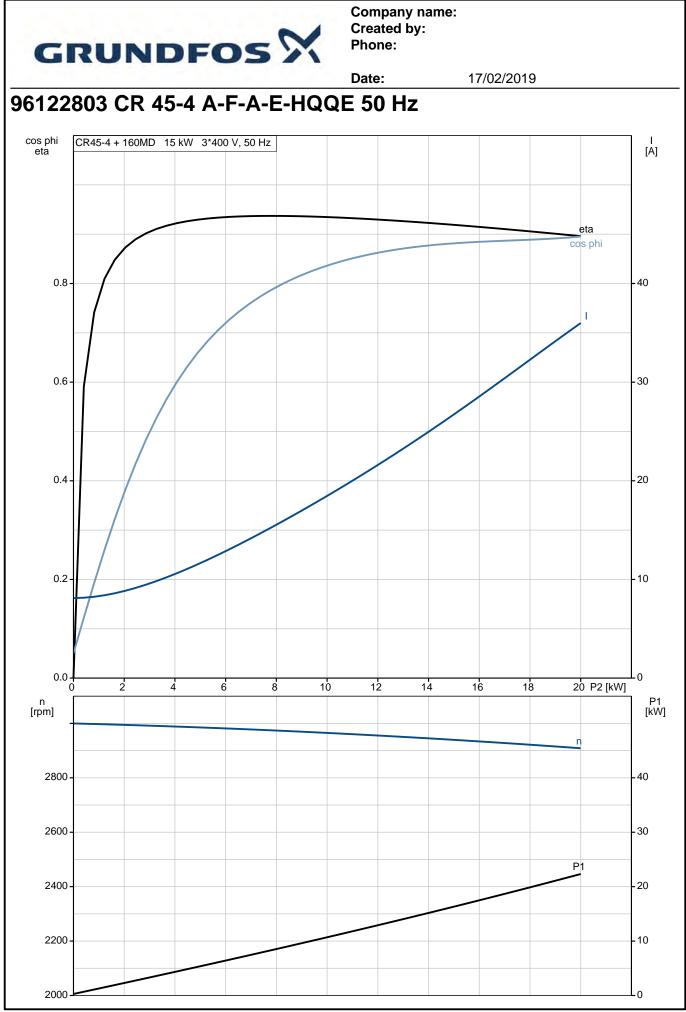




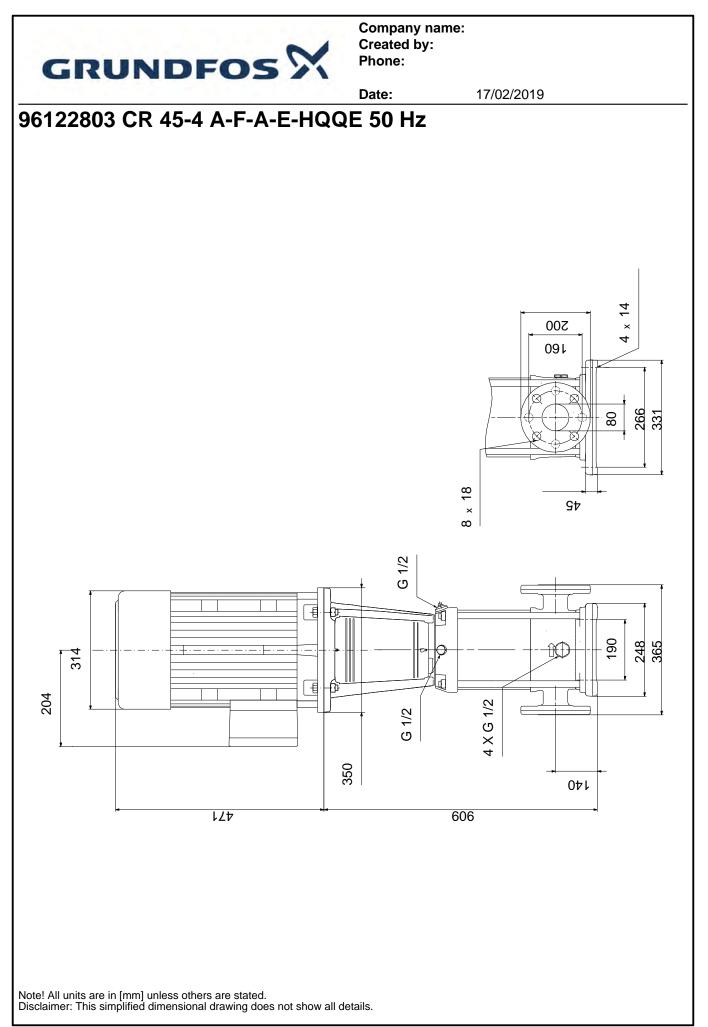


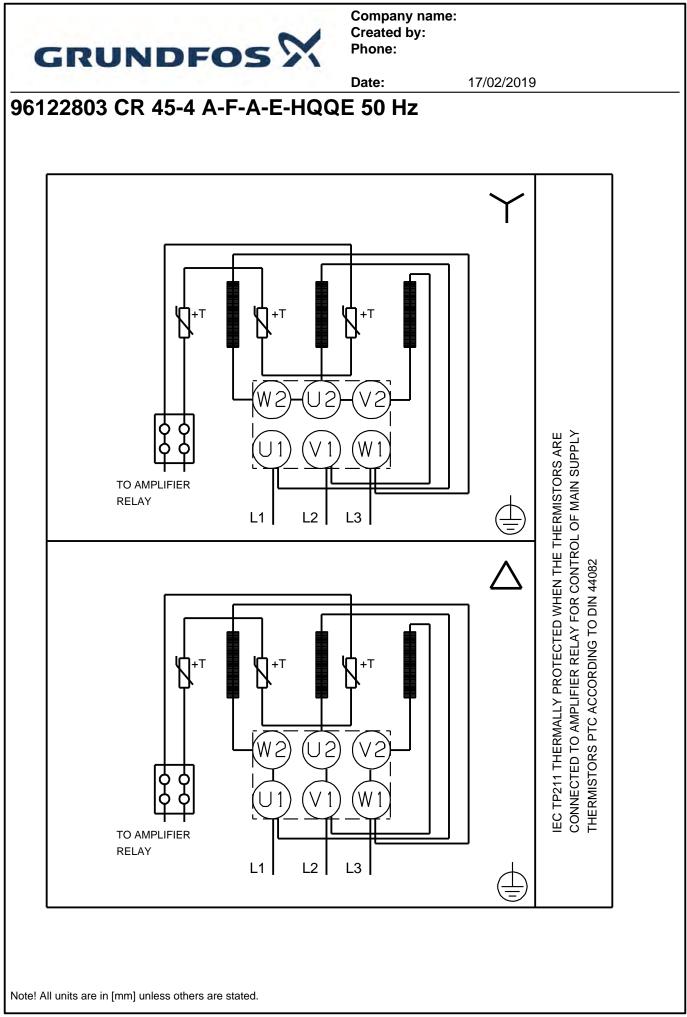


		Date:	17/02/2019
Description	Value		
Rated current:	28,0-26,0/16,2-15,6 A	-	
Starting current:	660-780 %		
Cos phi - power factor:	0.89-0.87		
Rated speed:	2930-2950 rpm		
Efficiency:	IE3 91,9%		
Motor efficiency at full load:	91.9-91.9 %		
Motor efficiency at 3/4 load:	92.4 %		
Motor efficiency at 1/2 load:	92.4 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	55 Dust/Jetting		
Insulation class (IEC 85):	F		
Motor protec:	PTC		
Motor No:	85U17526		
Controls:			
Frequency converter:	NONE		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	179 kg		
Gross weight:	212 kg		
Shipping volume:	0.495 m ³		
Danish VVS No.:	385907040		



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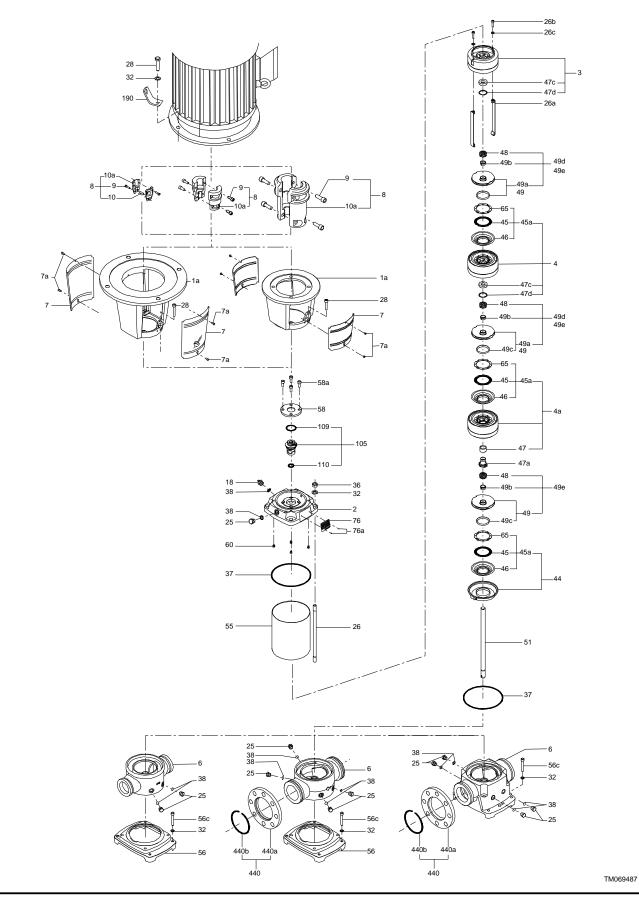




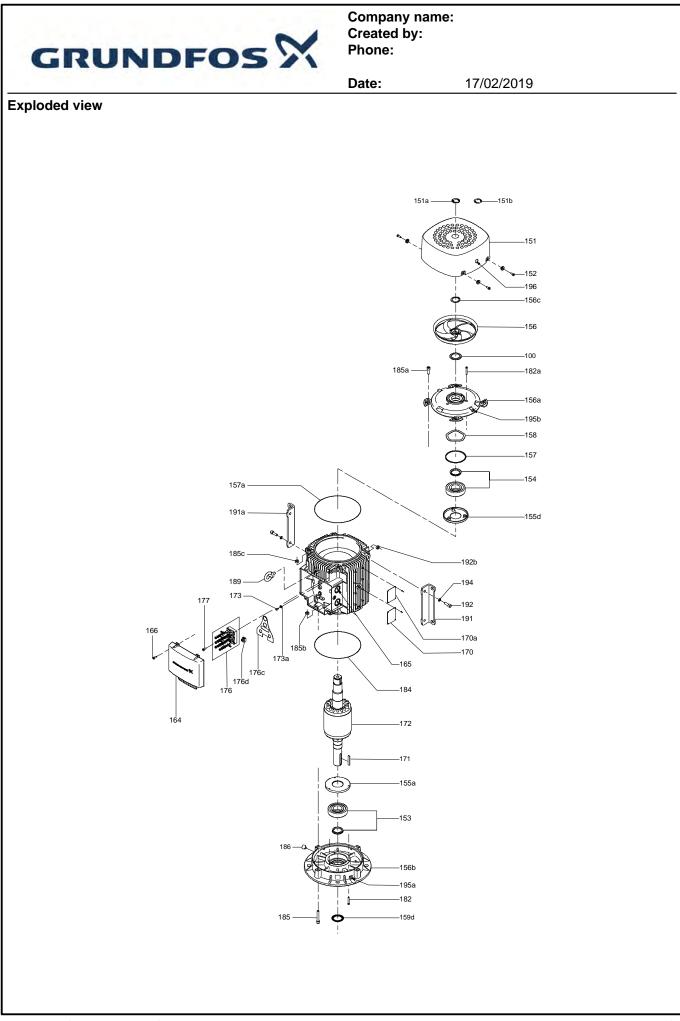


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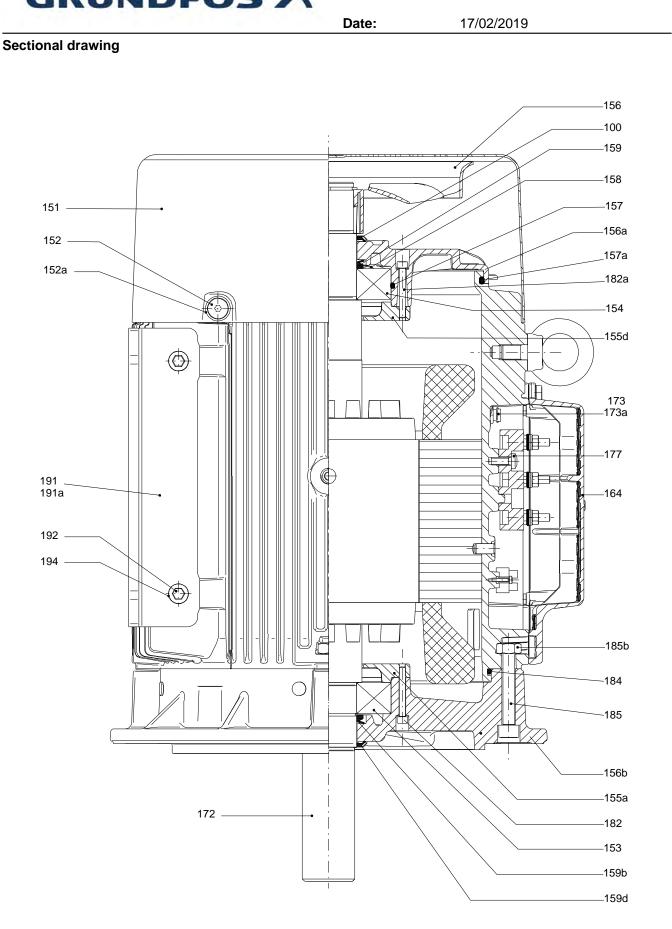
(tm069487 for LACR model B standard)



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17/02/2019

Spare parts CR 45-4, Product No. 96122803 Valid from 3.3.2014 (1410)

P	os	Description	Annotation	Classification Data	Part no.	Qty.	Uni
		Base			96587694	1	pcs
6	6	Base					1
8	80	Kit, chamber stack			96416230	1	pcs
8	80	Chamber stack					
3		Upper chamber cpl.					
Ū		Guide cup					
		Guide cup					
		Cone					
		Guide vane					
		Chamber					
		Chamber					
1	7d	Lock ring					
	7c	Bush					
4	a	Intermediate chamber cpl.					
		Guide cup					
		Guide cup					
		Cone					
		Guide vane					
		Chamber					
		Chamber					
	5a	Neck ring cpl.					
4		Bearing					
4	ŀ	Intermediate chamber cpl.					
		Guide cup					
		Guide cup					
		Cone					
		Guide vane					
		Chamber					
		Chamber					
4	5a	Neck ring cpl.					
4	7d	Lock ring					
4	7c	Bush					
2	26c	Washer		Designation: D	IN 125A		
				Thickness: 1,6			
2	26b	Hex socket head cap screw		, .			
	26a	Strap cpl.		Length (mm): 3	329		
-	Ju			Thread: M8	20		
4	1	Suction interconnector cpl.		Throad. Mo			
-	-	Suction interconnector					
1	5	Seal ring					
	6	Neck ring					
	6 5	Top f/neck ring					
	ю 7а	Bearing cpl.					
4	i a	Driver					
		Holder					
		Disc spring					
		Bearing ring					
	9e	Impeller cpl.					
	8	Nut					
	9b	Split cone					
4	9	Impeller					
		Impeller hub					
1	9c	Wear ring					



			Date:	17/02/20		
Pos	Description	Annotation	Classification Data	Part no.	Qty.	Uni
51	Shaft					
	Kit, chambers			98497485		pcs
4a	Intermediate chamber cpl.					1
	Guide cup					
	Guide cup					
	Cone					
	Guide vane					
	Chamber					
	Chamber					
45a	Neck ring cpl.					
47	Bearing					
47a	Bearing cpl.					1
	Driver					
	Holder					
	Disc spring					
	Bearing ring					
	Kit, coupling			96416592	1	pcs
	Adjusting fork			50-10532	1	•
8	Coupling cpl.		Dimension: 22/42			
o 9	Hex socket head cap screw		Dimension: 22/42 Designation: DI	N 012		1
3	HER SUCKEL HEAD CAP SCIEW		Length (mm): 25	N J I Z		
			Thread: M10			
100	Coupling half		meau. Mitu			
10a				00505405		
7-	Kit, coupling guard			96505135		pcs
7a -	Socket button head screw				4	
7	Coupling guard			0000	2	
	Kit, cover			98832448		pcs
58a	Hex socket head cap screw		Designation: DIN 91	12	4	1
			Length (mm): 25			
			Thread: M10			
58	Cover					1
	Kit, gaskets			96416599	1	pcs
	Adjusting fork					1
37	O-ring				2	2
38	O-ring		Diameter: 16,3		2	2
			Material type: EPDM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3		2	1
	-		Material type: EPDM			
			Thickness: 2,4			
60	Spring				4	1
109	O-ring					
110	O-ring		Diameter: 21,2			
-	5		Material type: EPDM			
			Thickness: 3,55			
	Kit, impeller			98497488	1	pcs
48	Nut			00-01-00	'	•
40	Nut					
48 49b						
	Split cone					
49					-	I
40	Impeller hub					
49c	Wear ring					
	Kit, plug			96505136		pcs
18	Air vent screw					1
	Spindle					
	Plug					
25	Plug				2	1
25	Plug					1



Pos	Description	Annotation	Date: Classification Data	17/02/2019 Part no. Qt	hr Hait
POS 38	Description O-ring	Annotation	Diameter: 16,3	Part no. Q	ty. Unit
00	C mig		Material type: FKM		2
			Thickness: 2,4		
38	O-ring		Diameter: 16,3		4
00	C mig		Material type: FKM		•
			Thickness: 2,4		
38	O-ring		Diameter: 16,3		6
00	C mig		Material type: FKM		0
			Thickness: 2,4		
38	O-ring		Diameter: 16,3		2
00	C mig		Material type: EPDM		2
			Thickness: 2,4		
38	O-ring		Diameter: 16,3		4
00	C mig		Material type: EPDM		•
			Thickness: 2,4		
	Kit, shaft seal HQQE			96525458 1	pcs
	Grinding device			100-0	1
105	Shaft seal		Material type: HQQE		1
	Adjusting fork				•
109	O-ring				
110	O-ring		Diameter: 21,5		
	C mig		Material type: EPDM		
			Thickness: 4,25		
	Kit, wear parts		1110(11000. 4,20	98497474 1	pcs
45	Seal ring			30437474 1	7
43 47d	Lock ring				7
47c	Bush				5
470 49c	Wear ring				5 7
490 65	Top f/neck ring				7
05	Motor			85904134 1	pcs
	Kit, bearing cpl.			96796676	•
32b	Waved washer			90790070	I
320 153	Angular-contact bearing				
154	Ball bearing				
	-				
157	O-ring				
159	V-ring			00700004	4
455 -	Kit, bearing plate			96796664	
155.a	Bearing cover				
208a	Gasket		Decignofication DI	1012	
208	Hex socket head cap screw		Designation: DIN	1912	
			Length (mm): 40		
	Kit ouchelt		Thread: M5	00700740	4
100	Kit, eyebolt			96796712	1
189	Eyebolt			0070005 4	4
160 -	Kit, fan			96796654	1
156.c	Retaining ring				
156	Fan			00700047	
	Kit, fan cover			96796647	1
151	Fan cover				
152.a	Rubber bush				
152	Hex head cap screw				
196	Diaphragm				
	Kit, flange			96796662	1
156.b	Flange				
159.b	Seal ring				
185.b	Nut				
185	Hex socket head cap screw				
186	Drain plug				



55.a Grease nipple 96798508 1 Kit, uskets 96798508 1 Sb. Grease nipple 96796667 1 Sb. Grease nipple 96796669 1 Sb. Grease nipple 96796669 1 Sb. Grease nipple 96796669 1 Sb. Waved washer 96796669 1 Sb. Waved washer 96796669 1 Sb. Waved washer 96796667 1 Sb. Grease nipple 1 1 Kit, shaft seal 96796657 1 Sb. Grease nipple 1 1 Washer 1 1 1 Sa. Hex nut 96796657 1 Torx Screw Kit, terminal board 96796659 1 Sa. Hex nut 96796659 1 1 Porpheead 96547433 <th>Pos</th> <th>Description</th> <th>Annotation</th> <th>Classification Data</th> <th>Part no.</th> <th>Qty</th> <th>. Unit</th>	Pos	Description	Annotation	Classification Data	Part no.	Qty	. Unit
34 O-ring Diameter: 235 5.b Grease nipple 96796671 1 5.c Grease nipple 96796669 1 56.a Grease nipple 96796669 1 57.a O-ring 96796671 1 58.a Maved washer 96796671 1 56.a End shield NDE 5 5 Nut 55.a Nut 5 Nut 5 5 Nut 56.a Hex socket head cap screw 96843459 1 1 99.b V-ring 96796657 1 1 91.a Terminal connection 96796657 1 7 Torx Screw 96796657 1 76 Terminal board 96796657 1 73 Torx Screw 96796657 1 74 Torminal board 96796657 1 76 Terminal board 96796657 1 76 Torx Screw 96796657 1 <	195.a						
Kit, lubrication nipple 96796671 1 55.b Grease nipple 96796669 1 56.a End shield cpl. 96796669 1 56.a End shield NDE 9796669 1 57.a O-ring 9796669 1 57.a O-ring 9796669 1 57.a O-ring 9796671 1 55.a Hax socket head cap sorew 96843459 1 55.b Grease nipple 96843459 1 58.a Hax socket head cap sorew 96796657 1 59.b V-ring 96796657 1 1 70.b Torrinal board 96796657 1 73.a Torx Sorew 96796659 1 74.a Terminal board 96796659 1 75.a Torx Sorew 96796659 1 74.a Terminal board 96796659 1 75.a Torx Sorew 96796659 1 76.a Terminal board 989321 1 pc 76.a Terminal board		Kit, gaskets			96798	508	1
35.b Grease nipple 35.a Grease nipple 35.a End shield NDE 37 O-ring 38.a End shield NDE 37 O-ring 38.a End shield NDE 37 O-ring 38.a Hax socket head cap screw 35.c Nut 35.a Hax socket head cap screw 35.b Grease nipple Kit, shaft seal 96843459 99.b V-ring 91.b V-ring 92.b V-ring 93.b V-ring 94.d Terminal connection Washer 96796657 74.d Terminal board 75.d Torx Screw 76.d Terminal board 77.d Torx Screw 78.d Pan head thread forming screw a Mator stool 9893921 <td>184</td> <td>O-ring</td> <td></td> <td>Diameter: 235</td> <td></td> <td></td> <td></td>	184	O-ring		Diameter: 235			
55.a Grease nipple 96796669 1 56.a End shield NDE 57 O-ring 57 57 O-ring 0 58 1 58.a Hex socket head cap screw 55 57 0 58.a Hex socket head cap screw 55 58 96843459 1 59.b V-ring 96796657 1 1 59.b V-ring 96796657 1 59.b V-ring 96796657 1 50.b V-ring 96796657 1 50.b V-ring 96796657 1 50.d Terminal board 96796657 1 71.a Tork Screw 96796659 1 72.a Tork Screw 96796659 1 73.a Tork Screw 96796659 1 74.a Terminal board 96796659 1 73.a Tork Screw 96796659 1 74.a Terminal board oreer 96796659 1 75.a Pan head thread forming screw 96647433 1<		Kit, lubrication nipple			96796	671	1
kit, ND-end shield cpl. 96796669 1 2b Waved washer	195.b	Grease nipple					
bb Waved washer 66.a End shield NDE 7 O-ring 39 V-ring 35.c Nut 55.a Hex socket head cap screw 55.a Grease nipple Kit, shaft seal 96843459 1 50.b V-ring 96843459 1 50.b V-ring 96843459 1 51.b Terminal connection 96796657 1 73 Torx Screw 96796659 1 74. Terminal board 96796659 1 75. Hex nut 96796659 1 74. Terminal board 96796659 1 75. Torx Screw 96796659 1 76. Terminal board 9893921 1 77. Torx Screw 96796659 1 73. Pan head thread forming screw 986347433 1 pc 9400r stool 99839211 pc pc 9400r pbead 996547433 1 pc 9400r stool 998473585 <td< td=""><td>195.a</td><td>Grease nipple</td><td></td><td></td><td></td><td></td><td></td></td<>	195.a	Grease nipple					
56.a End shield NDE 57 O-ring 57 O-ring 58.a Hex socket head cap screw 55.b Grease nipple Kit, shaft seal 96843459 1 59.b V-ring 96796657 1 59.b V-ring 96796657 1 59.b V-ring 96796657 1 59.c V-ring 96796657 1 70.a Torx Screw 96796659 1 73. Torx Screw 96796659 1 74.a Torx Screw 96796659 1 75.a Torx Screw 96796659 1 76.a Terminal board 96796659 1 76.a Terminal box cover 96796659 1 76.a Terminal box cover 96796659 1 pc 77.a Torx Screw 96796659 1 pc 78.a Pan head thread forming screw 96547433 1 pc 70.a Bulk, Neck ring cpl. (5 pcs) 99458114 1 pc					96796	669	1
57 O-ring 99 V-ring 99 V-ring 55.c Nut 55.a Hex socket head cap screw 56.b Grease nipple 57.b Staft seal 99.b V-ring 59.b V-ring 50.b V-ring 51.5 Masher 52.5 Nut 53 Hex nut 73 Torx Screw 74.d Terminal board 75.d Terminal board 76.d Terminal board 77 Torx Screw 74.d Terminal boar cover 73.a Pan head thread forming screw 74.4 Terminal box cover 75.6 Bulk, Intermediate chamber cpl. (5 pcs) 99139113 1 pc 90100 992321134 1 75.7 Bulk, Intermediate chamber cpl. (5 pcs) 99458456 2 pc 90139113 pc 99139113 1 pc 90	32b	Waved washer					
59 V-ring 55.c Nut 55.d Hex socket head cap screw 55.b Grease nipple Kit, shaft seal 96843459 1 59.b V-ring 96796657 1 59.b V-ring 96796657 1 59.c V-ring 96796657 1 50.c Terminal connection 96796657 1 70.c Torx Screw 96796659 1 71.c Torx Screw 96796659 1 72.d Torx Screw 96796659 1 71.c Torx Screw 96796659 1 72.d Torminal board 9770 1 pc 73.d Torx Screw 96796659 1 1 pc 74.d Terminal board 99796657 1 pc 74.d Terminal board 99796659 1 1 pc 74.d Terminal board 99796713 1 pc 940 Pathead thread forming screw 99863471 1 pc 940 <td>156.a</td> <td>End shield NDE</td> <td></td> <td></td> <td></td> <td></td> <td></td>	156.a	End shield NDE					
39 V-ring 35.c Nut 35.c Nut 35.c Nut 35.c Nut 35.c Grease nipple 52.b Grease nipple 53.b V-ring 59.b V-ring 59.b V-ring 50.c V-ring 51.c Grease nipple 52.c V-ring 53 Hex nut 74.73 Torx Screw 76.d Terminal board 77 Torx Screw 76.d Terminal box cover 78.a Torx Screw 76.d Terminal box cover 78.a Torx Screw 76.d Terminal box cover 78.a Torx Screw 79.a Pan head thread forming screw a Motor stool 989321 1 pc 90.upper chamber cpl. 996547433<1	157	O-ring					
35.c Nut 15.a Hex socket head cap screw 15.b Grease nipple Kit, shaft seal 96843459 1 39.b V-ring 96796657 1 Terminal board 96796657 1 Terminal connection 96796657 1 Washer 96796657 1 73 Torx Screw 7 5 74 Terminal board 96796659 1 75 Torx Screw 96796659 1 76 Terminal board 96796659 1 77 Torx Screw 96796659 1 76 Terminal box cover 96796659 1 73 Terninal box cover 96796659 1 74 Terminal box cover 96796659 1 75 Torx Screw 96796659 1 1 74 Terminal box cover 96796659 1 1 75 Bulk Not stool 9893921 1 1 pc 9 Pump head 96547433 1 1	159						
35.b Grease nipple Kit, shaft seal 96843459 1 38.b V-ring 9 W-ring 96796657 1 Terminal connection 96796657 1 Washer 96796657 1 7 Torx Screw 96796657 1 73 Torx Screw 96796655 1 76 Terminal board 1 1 77 Torx Screw 96796655 1 76 Terminal board 1 pc 77 Torx Screw 96796659 1 78 Pan head thread forming screw 96796659 1 79 Purp head 96547433 1 pc 9 Pupp head 99321194 1 pc 9 Pump head 96547433 1 pc 9 Bulk, Intermediate chamber cpl. (5 pcs) 99458546 2 pc 8 Bulk, Neck ring cpl. (10 pcs) 985463265 1 pc	185.c	-					
35.b Grease nipple 96843459 1 Kit, shaft seal 96843459 1 59 V-ring 96796657 1 59 V-ring 96796657 1 60 Terminal board 96796657 1 73 Torx Screw 7 5 Hex nut 7 73 Torx Screw 96796659 1 1 76 Terminal board 7 7 7 70 rx Screw 96796659 1 1 pc 76 Terminal board 96796659 1 1 77 Torx Screw 96796659 1 1 74 Terminal box cover 96796659 1 1 75 Pan head thread forming screw 98993921 1 pc 90 Upper chamber cpl. 989349313 1 pc 76 Bulk, Bush (10 pcs) 99321194 1 pc 8 Bulk, Intermediate chamber cpl. (5 pcs) 99458456 2 pc 50 Bulk, Neck ring cpl. (10 pcs) 98549666 pc	185.a						
Kit, shaft seal 96843459 1 99.b V-ring 59 V-ring 59.b V-ring 1 Terminal connection 96796657 1 73 Torx Screw 96796657 1 73 Torx Screw 76.d Terminal board 77 76.d Terminal board 96796659 1 1 77 Torx Screw 96796659 1 1 76.d Terminal board 96796659 1 1 77 Torx Screw 96796659 1 1 pc 76 Terminal box cover 96796659 1 pc 78 Pan head thread forming screw 9893921 1 pc 70 Purp head 96534433 1 pc Upper chamber cpl. 99321194 1 1 pc 8 Bulk, Intermediate chamber cpl. 993241 1 pc 7 Bulk, Neck ring cpl. (10 pcs) 99458546 2 pc 8 Bulk, Neck ring cpl. (10 pcs) 96547967 1 <t< td=""><td>195.b</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	195.b						
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Thickness: 1,6ScWasherDesignation: DIN 125A965868802pc: pc: Thickness: 1,6SbBulk, Hex socket head cap screw (10 pcs)989313802pc: pc: pc: Thread: M8SaStayboltLength (mm): 329989838702pc: pc: 	26c			Designation: DIN 125A			pcs
Sc Washer Designation: DIN 125A 96586880 2 pc: Thickness: 1,6 5b Bulk, Hex socket head cap screw (10 pcs) 98931380 2 pc: Sa Strap cpl. Length (mm): 329 98983870 2 pc: Sa Staybolt Length (mm): 487 98976713 4 pc: Sa Bulk, Hex head screw (20 pcs) 96620478 4 pc: Bulk, Hex socket head cap screw (10 pcs) Designation: DIN 912 96536147 4 pc: Length (mm): 50 Designation: DIN 912 96536147 4 pc:		,		-		-	P 00
Thickness: 1,6 Sb Bulk, Hex socket head cap screw (10 pcs) 98931380 2 pc: Sa Strap cpl. Length (mm): 329 98983870 2 pc: Sa Staybolt Length (mm): 487 98976713 4 pc: Sa Bulk, Hex head screw (20 pcs) 96620478 4 pc: Bulk, Hex socket head cap screw (10 pcs) Designation: DIN 912 96536147 4 pc: Length (mm): 50 Sa <	26c	Washer			96586880	2	pcs
Sb Bulk, Hex socket head cap screw (10 pcs) 98931380 2 pc Sa Strap cpl. Length (mm): 329 98983870 2 pc Sa Staybolt Length (mm): 487 98976713 4 pc Sa Bulk, Hex head screw (20 pcs) 96620478 4 pc Bulk, Hex socket head cap screw (10 pcs) Designation: DIN 912 96536147 4 pc Length (mm): 50 Sa	200				00000000	-	P00
Sa Strap cpl. Length (mm): 329 98983870 2 pc Thread: M8 Thread: M8 1	26b	Bulk Hex socket head can screw (10 pcs))	111001000. 1,0	98931380	2	nce
Thread: M8 5 Staybolt Length (mm): 487 98976713 4 pc: Thread: M16 3.a Bulk, Hex head screw (20 pcs) 96620478 4 pc: Bulk, Hex socket head cap screw (10 pcs) Designation: DIN 912 96536147 4 pc: Length (mm): 50	26a	,	/	Length (mm): 320			•
Staybolt Length (mm): 487 98976713 4 pc: Thread: M16 3.a Bulk, Hex head screw (20 pcs) 96620478 4 pc: Bulk, Hex socket head cap screw (10 pcs) Designation: DIN 912 96536147 4 pc: Length (mm): 50	200	ouch oh:			50505070	2	pcs
Thread: M16 Balk, Hex head screw (20 pcs) Bulk, Hex socket head cap screw (10 pcs) Designation: DIN 912	26	Stavbolt			08076740	٨	000
B.aBulk, Hex head screw (20 pcs)966204784pcBBulk, Hex socket head cap screw (10 pcs)Designation: DIN 912965361474pcLength (mm): 50	20	σιαγροιι			20210113	4	pcs
Bulk, Hex socket head cap screw (10 pcs) Length (mm): 50	<u> </u>	Pulk Hay band correst (20)		meau. Mho	06000470	4	
Length (mm): 50	28.a		N	Designation: DIN 040			pcs
	28	Duik, Hex socket head cap screw (10 pcs))	-	90530147	4	pcs
Inread: M10							
					0000005	~	
2 Bulk, Washer (100 pcs) Designation: DIN 125 A 98923051 8 pc: Internal diameter: 17	32						



			17/02/20	19		
Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
			Outer diameter: 30			
			Thickness: 3			
36	Bulk, Hex nut (20 pcs)		Thread: M16	96620480	4	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			
44	Suction interconnector cpl.			98634054		pcs
45	Bulk, Seal ring (10 pcs)			979114		
45	Bulk, Seal ring (10 pcs)			965359	-	
65	Bulk, Top f/neck ring (10 pcs)			965473	390 1	
- 47a	Bulk, Bearing cpl. (5 pcs)			99270649	1	pcs
- 47a	Bulk, Bearing cpl. (10 pcs)			96535951	1	pcs
49e	Impeller cpl.			98394328	4	pcs
48	Bulk, Nut (3 pcs)			992626	680 1	
48	Bulk, Nut (10 pcs)			992626	683 1	
48	Bulk, Nut (10 pcs)			965360	016 1	
49b	Bulk, Split cone (10 pcs)			965360	010 1	
49	Bulk, Impeller (10 pcs)			965359	946 1	
49c	Bulk, Wear ring (10 pcs)			96	53594	9
55	Outer sleeve		Outer diameter: 216,0	98820342	1	pcs
			Length (mm): 343,5			
58	Cover			98893158	1	pcs
60	Bulk, Spring (20 pcs)			96536032		pcs
105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984086	1	pcs
	Adjusting fork			965878	396 1	
109	Bulk, O-ring (10 pcs)			965475	586 1	
- 105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984070	1	pcs
440b	Bulk, Lock ring (4 pcs)			96535943	1	pcs