

Date: 16/02/2019

Qty. | Description

1 | CRN 15-3 A-P-A-E-HQQE



Product No.: 96501758

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade 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 PJE (Victaulic®) couplings.

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

Further product details

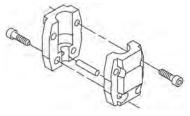
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

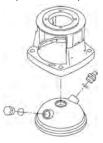
The colour code for the finished product is NCS 9000/RAL 9005.

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 and flange for motor mounting is made in one piece (cast iron). The pump head cover is a separate component (stainless steel). 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)



Date: 16/02/2019

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 drain plug. 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: Water
Liquid temperature range: -20 .. 120 °C
Liquid temperature during operation: 20 °C
Density: 998.2 kg/m³



Date: 16/02/2019

Qty. | Description

Technical:

Pump speed on which pump data are based: 2902 rpm

Rated flow: 17 m³/h
Rated head: 33.2 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: Stainless steel

EN 1.4408 AISI 316 Stainless steel

Impeller: Stainless stee EN 1.4401

AISI 316

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:

Size of inlet connection:

DN 50
2 inch
Size of outlet connection:

DN 50

2 inch

Pressure rating for pipe connection: 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:

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

Insulation class (IEC 85): F

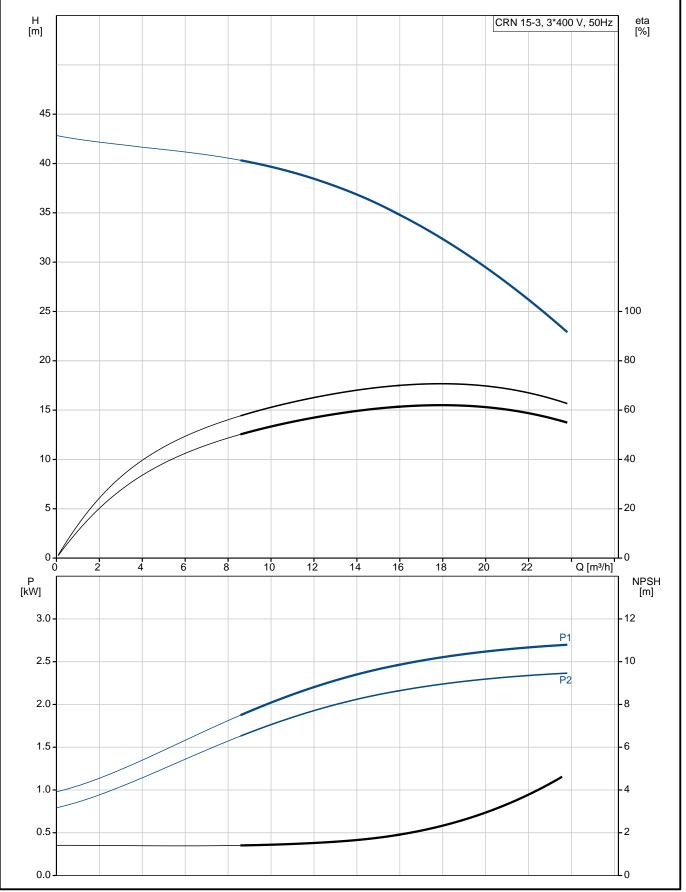
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 52 kg
Gross weight: 55 kg
Shipping volume: 0.104 m³
Danish VVS No.: 385914030



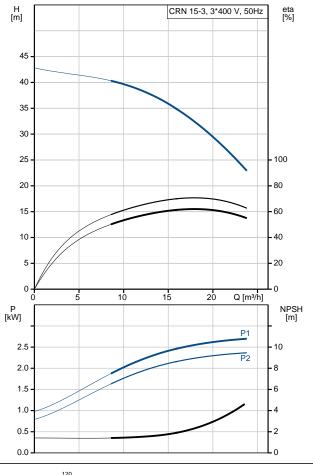
Date: 16/02/2019

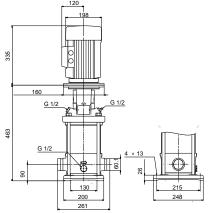
96501758 CRN 15-3 A-P-A-E-HQQE 50 Hz

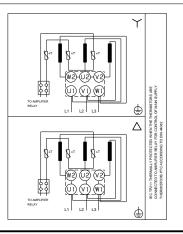




Description	Value
General information:	CRN 15-3
Product name:	A-P-A-E-HQQE
Product No:	96501758
EAN number:	5700396228624
Technical:	
Pump speed on which pump data are	0000
based:	2902 rpm
Rated flow:	17 m³/h
Rated head:	33.2 m
Head max:	42.7 m
Stages:	3
Impellers:	3
Number of reduced-diameter impellers:	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: Materials:	A
Base:	Stainless steel
base.	EN 1.4408
	AISI 316
Impeller:	Stainless steel
impener.	EN 1.4401
	AISI 316
Material code:	A
Code for rubber:	
Bearing:	SIC
Installation:	0.0
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:	PJE
Size of inlet connection:	DN 50
	2 inch
Size of outlet connection:	DN 50
	2 inch
Pressure rating for pipe connection:	PN 50
Flange size for motor:	FT130
Connect code:	Р
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-20 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	IFO.
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
	<u>-</u>







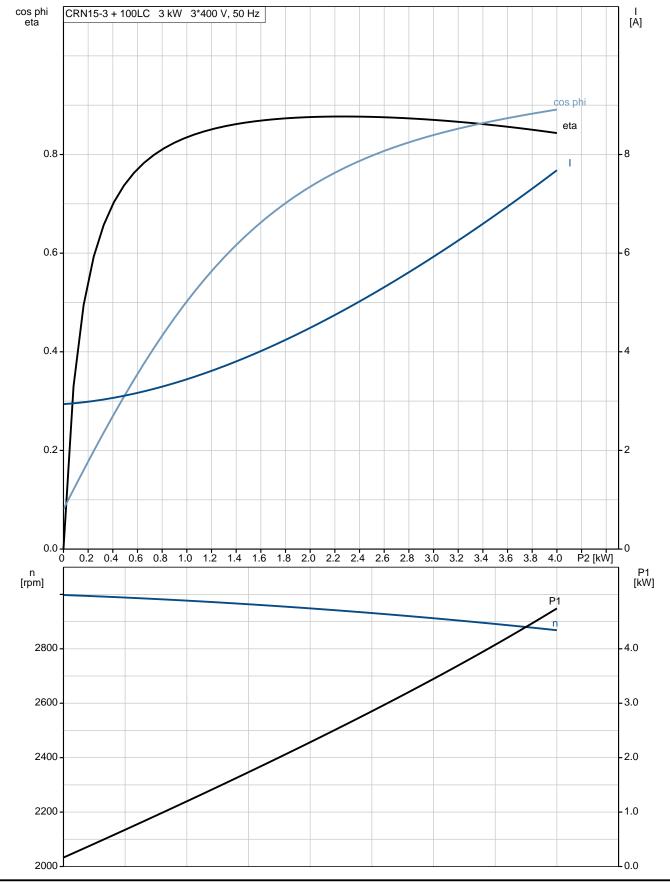


Description	Value
Rated current:	11.0/6.30 A
Starting current:	840-920 %
Cos phi - power factor:	0.87-0.82
Rated speed:	2900-2920 rpm
Efficiency:	IE3 87,1%
Motor efficiency at full load:	87.1 %
Motor efficiency at 3/4 load:	88.0 %
Motor efficiency at 1/2 load:	87.7 %
Number of poles:	2
Enclosure class (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:	52 kg
Gross weight:	55 kg
Shipping volume:	0.104 m³
Danish VVS No.:	385914030



Date: 16/02/2019

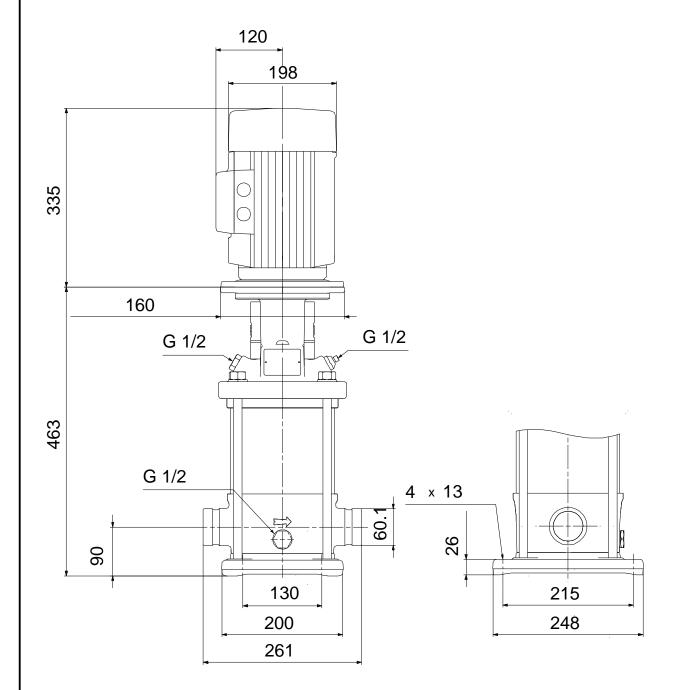
96501758 CRN 15-3 A-P-A-E-HQQE 50 Hz





Date: 16/02/2019

96501758 CRN 15-3 A-P-A-E-HQQE 50 Hz



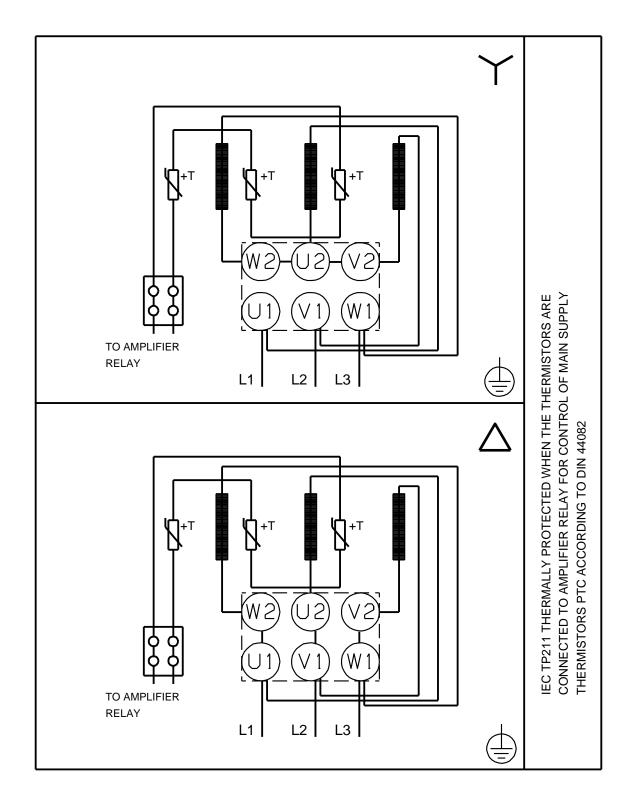
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

16/02/2019

96501758 CRN 15-3 A-P-A-E-HQQE 50 Hz

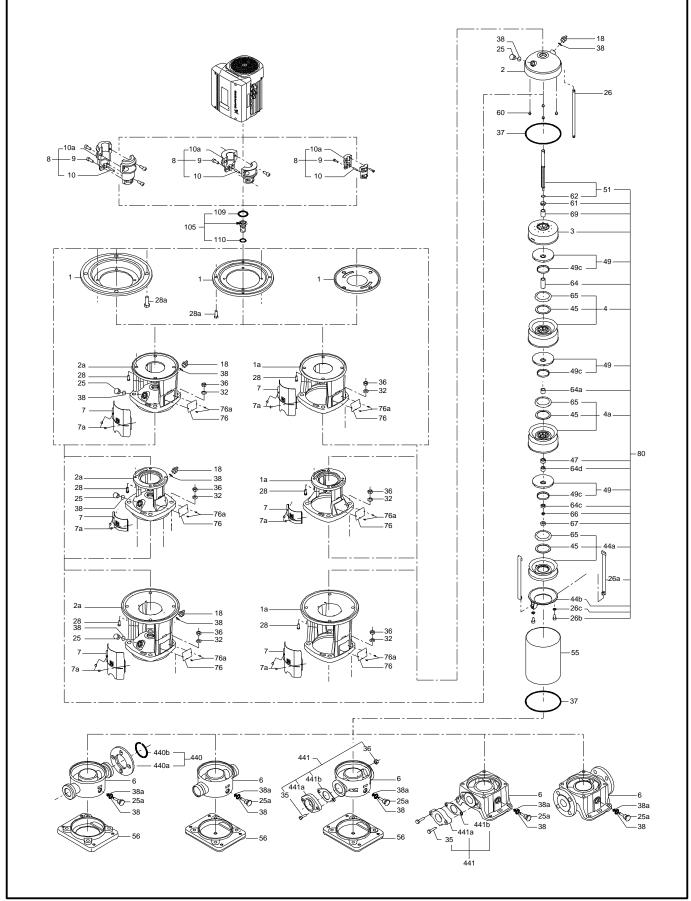


Note! All units are in [mm] unless others are stated.



Date: 16/02/2019

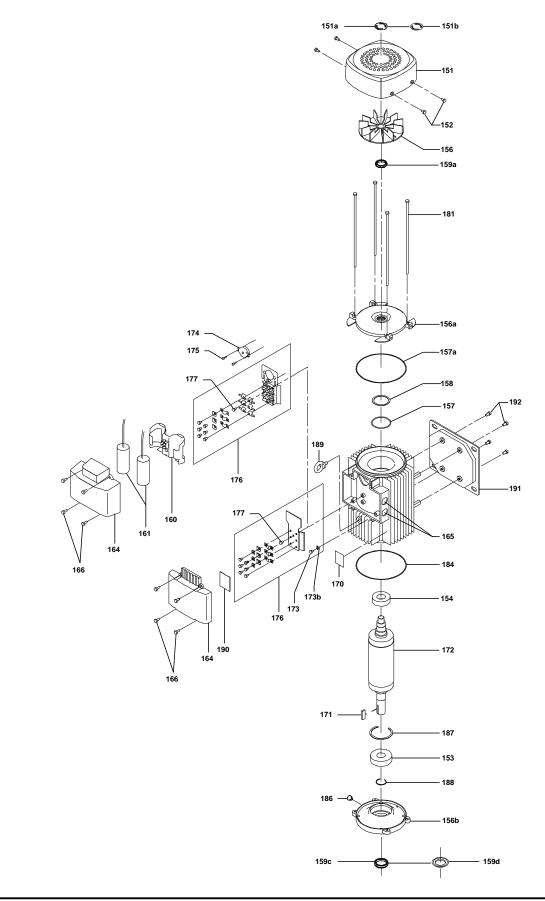
(tm069469 for MECR15,20 standard)





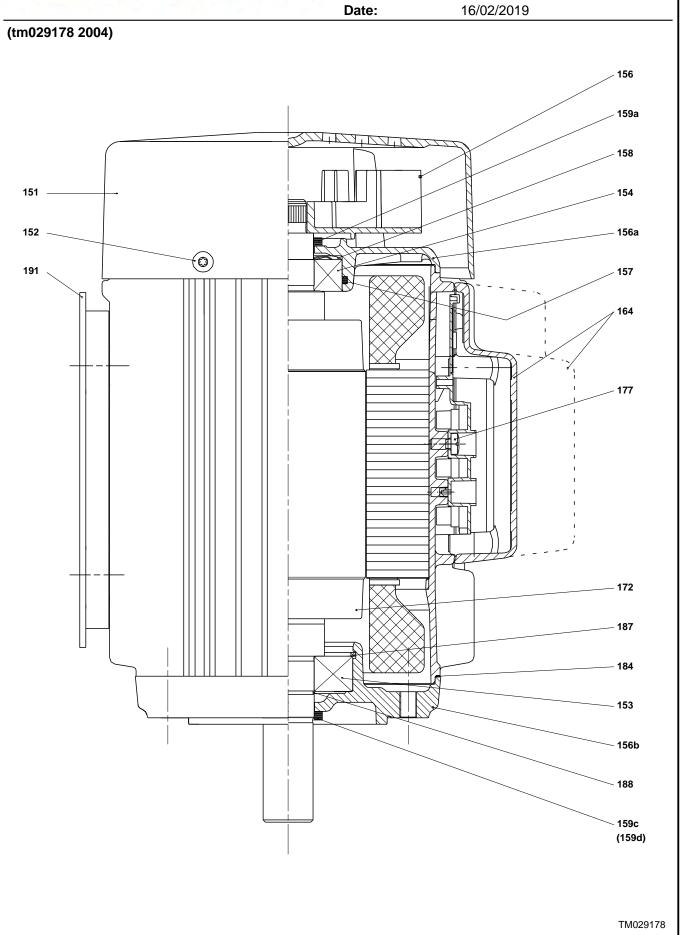
Date: 16/02/2019

(tm029184 0505)



TM029184







Date: 16/02/2019

Spare parts CRN 15-3, Product No. 96501758 Valid from 1.1.2011 (1152)

	Pos	Description Kit shamber steels	Annotation	Classification Data	Part no.		Uni
	00	Kit, chamber stack			96491761	1	pcs
	80	Chamber stack				1	1
	3	Top intermediate chamber					
		Guide vane					
		Cover plate					
	3	Intermediate chamber					
	4a	Intermediate chamber cpl.					
		Sand Lifter					
		Guide cup					
		Bearing plate					
		Guide vane					
	3	Intermediate chamber					
	45a	Neck ring cpl.					
	47	Bearing bush					
	65	Retainer					
	4	Intermediate chamber cpl.					
	3	Intermediate chamber					
	45a	Neck ring cpl.					
	65	Retainer					
	26a	Strap cpl.					
	26.c	Washer		Designation: DIN 125A			
				Thickness: 1,6			
	26.b	Hex head screw		·			
	44b	Inlet part					
	44a	Inlet part cpl.					
	45a	Neck ring cpl.					
	65	Retainer					
	47	Bearing ring					
	49	Impeller cpl.					
	49c	Wear ring					
	49	Impeller					
	51	Shaft, spline, cpl.					
	01	Bar					
	62	Stop ring					
	64d	Spacing bush					
	64c	Spacing bush		Length (mm): 12.7			
	64a	Spacing pipe Spacing pipe		Internal diameter: 17,5			
	04a	Spacing pipe		Length (mm): 17			
	64	Spacing pipe		Length (mm): 43.6			
	64			Lengin (mm). 43.6			
	66	Wedge lock washer		Thursday NAO			
	67	Lock nut		Thread: M8			
	69	Spacing bush			00544050		
•		Kit, coupling			96511350		pcs
		Adjusting fork		B : // BD1040		1	
	9	Hex socket head cap screw		Designation: DIN 912		4	1
				Length (mm): 25			
				Thread: M8			_
	10a	Coupling half					2
	10	Shaft pin		Diameter: 5		1	1
				Length (mm): 26			
		Kit, coupling guard			96509612	1	pc
	7.a	Combi Slot Torx screw				4	1
	7	Coupling guard				2	2



Pos	Description	Annotation Classification Data Part r		⊋ty.	
	Kit, gaskets	96509	9609 1		pc
	Gasket			2	
24	O-ring			2	
37	O-ring			2	
38a	O-ring	Diameter: 5,3		1	
		Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3		1	
		Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3		2	
		Material type: EPDM			
		Thickness: 2,4			
60	Spring			4	
415	Gasket			2	
441b	Gasket	Internal diameter: 49		2	
		Outer diameter: 92			
		Thickness: 2			
	Kit, plug	96511	1312 1		р
18	Air vent screw			1	
	Spindle				
	Plug				
25a	Drain plug			1	
25	Plug			1	
38a	O-ring	Diameter: 5,3		1	
	<u> </u>	Material type: FKM			
		Thickness: 2,4			
38a	O-ring	Diameter: 5,3		1	
	<u> </u>	Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3		1	
	- 3	Material type: FKM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3		2	
	- ····g	Material type: FKM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3		1	
		Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3		2	
	g	Material type: EPDM			
		Thickness: 2,4			
	Kit, shaft seal HQQE		1844 1		рс
	Emery cloth	3001		1	•
	Grinding device			1	
105	Shaft seal	Material type: HQQE		1	
	Kit, wear parts		1824 1		рс
4a	Intermediate chamber cpl.	9031	. J <u>.</u> ¬	1	
	Sand Lifter				
	Guide cup				
	Bearing plate				
	Guide vane				
3	Intermediate chamber				
ა 45a					
	Neck ring cpl.				
47	Bearing bush				
\sim r	Retainer				
65	\\/	B 1 (1 B)11054		_	
65 26.c	Washer	Designation: DIN 125A Thickness: 1,6		2	



99a Retaining ring 99 Retaining ring 111 Ball bearing 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer Kit, end shield 9627 156a End shield 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer 159a Seal ring Kit, fan 9627 159a Seal ring Kit, fan cover 9627 151b Label 151 Label 151 Fan cover 152 Pan head thread forming screw Kit, flange 9627 156b Flange 157c Seal ring 158c Drain plug 159c Seal ring Kit, tetaining ring 9627 159c Seal ring Kit, shaft seal 9627		. Ur
49c Wear ring 62 Retaining ring 64d Spacing bush 64c Spacing pipe Length (mm): 12.7 64b Spacing pipe Internal diameter: 17.5 65 Retainer Length (mm): 17 66 Wedge lock washer Ferming from title (mm): 17 67 Lock nut Thread: M8 Motor Kit, 8all bearing 8590373 99a Retaining ring 9627 99a Retaining ring Perminder (mm): 17 111 Ball bearing Ball bearing 111 Ball bearing Diameter: 52 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer Waterial type: NBR 158 End shield 9627 158 Waved washer Thickness: 3 158 Waved washer Fame (mm): 10 159a Seal ring Family 159a Seal ring 9627 151b Label		5
624 Spacing push 64c Spacing push Length (mm): 12.7 64b Spacing push Length (mm): 5.00 64a Spacing pipe Internal diameter: 17.5 65 Retainer Retainer 66 Wedge lock washer Thread: M8 67 Lock nut Thread: M8 Motor 8590373 Kit, Ball bearing 9627 99a Retaining ring 19627 111 Ball bearing Diameter: 52 Material type: NBR Thickness: 3 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer Waterial type: NBR 159a End shield 9627 158 Waved washer Thickness: 3 158 Waved washer Thickness: 3 158 Waved washer Thickness: 3 159a Seal ring Paczing 159a Seal ring Paczing 159a Seal ring Paczing		1
64d Spacing bush Length (mm): 12.7 64b Spacing pipe Internal diameter: 17.5 64a Spacing pipe Internal diameter: 17.5 65 Retainer Length (mm): 17 66 Wedge lock washer 66 67 Lock nut Thread: M8 89a Retaining ing 8590372 99a Retaining ring 9627 111 Ball bearing Diameter: 52 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer 9627 158a End shield 9627 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158a Waved washer 19627 159a Seal ring 19627 159a Seal ring 9627 159a Seal ring 9627 151b Label 19627 151c Fan cover 9627 155c Dera		6
Act		1
64a Spacing pipe Length (mm): 5.00 64a Spacing pipe Internal diameter: 17,5 65 Retainer 66 Wedge lock washer 67 Lock nut Thread: M8 Motor 8590373 Kit, Ball bearing 9627 99a Retaining ring 9627 99 Retaining ring 9627 111 Ball bearing Diameter: 52 117 O-ring Diameter: 52 Material type: NBR Thrickness: 3 158 Waved washer Waterial type: NBR 157 O-ring Diameter: 52 Material type: NBR Thrickness: 3 158 Waved washer Waterial type: NBR 159a Seal ring Seal ring Kit, tan 9627 158 Waved washer 9627 159a Seal ring 9627 Kit, tan cover 9627 151b Label 9627 151b Label 9627 <		1
64a Spacing pipe Internal diameter: 17,5 65 Retainer 66 Wedge lock washer 7 Lock nut Thread: M8 Motor 8590373 Kit, Ball bearing 9627 99a Retaining ring 99 99 Retaining ring Diameter: 52 111 Ball bearing Diameter: 52 115 O-ring Diameter: 52 Kit, end shield 9627 158 Waved washer Waterial type: NBR 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer Waterial type: NBR 159a Seal ring Material type: NBR 159a Seal ring Wit, fan Kit, fan 9627 151 Fan 9627 152 Pan head thread forming screw 9627 154b Label 9627 155c Pan head thread forming screw 9627 156b Flange		1
Length (mm): 17		1
66 Retainer 66 Wedge lock washer 67 Lock nut Thread: M8 68 Motor 8590373 Kit, Ball bearing 9627 99a Retaining ring 99 111 Ball bearing Diameter: 52 111 Ball bearing Diameter: 52 111 Ball bearing Diameter: 52 157 O-ring Material type: NBR 158 Waved washer Thickness: 3 158 End shield 9627 158 Waved washer Seal ring 159 Seal ring Material type: NBR 159a Seal ring 9627 Kit, tan 9627 159a Seal ring 9627 Kit, fan cover 9627 151b Label 9627 152b Pan head thread forming screw 9627 155c Flange 9627 156b Flange 9627 159c Seal ring 9627 <td></td> <td>1</td>		1
66 Wedge lock washer Thread: M8 67 Lock nut Thread: M8 Motor 8590373 Kit, Ball bearing 9627 99a Retaining ring 9627 99 Retaining ring Diameter: 52 111 Ball bearing Diameter: 52 157 O-ring Diameter: 52 Kit, end shield 9627 158 Waved washer Material type: NBR 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer Material type: NBR 159 Seal ring Material type: NBR 159 Seal ring 9627 Kit, fan 9627 159 Seal ring 9627 Kit, fan cover 9627 151 Label 9627 Kit, fange 9627 152 Pan head thread forming screw 8627 159.c Seal ring 9627 159.c Seal ring 9627 </td <td></td> <td></td>		
Motor Responsa Kit, Ball bearing 8590373 99a Retaining ring 99 Retaining ring 111 Ball bearing 111 Ball bearing 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 Thickness: 3 158 Waved washer Kit, end shield 9627 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer Thickness: 3 159 Seal ring Seal ring Kit, fan 9627 158 Waved washer 9627 159a Seal ring 9627 Kit, fan cover 9627 151b Label 9627 151b Label 9627 156b Flange 9627 156c Drain plug 9627 <		5
Motor Responsa Kit, Ball bearing 8590373 99a Retaining ring 99 Retaining ring 111 Ball bearing 111 Ball bearing 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 Thickness: 3 158 Waved washer Kit, end shield 9627 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer Thickness: 3 159 Seal ring Seal ring Kit, fan 9627 158 Waved washer 9627 159a Seal ring 9627 Kit, fan cover 9627 151b Label 9627 151b Label 9627 156b Flange 9627 156c Drain plug 9627 <		1
Motor Kit, Ball bearing 8590373 799a Retaining ring 992 999 Retaining ring 993 111 Ball bearing 994 111 Ball bearing 995 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer 9627 156a End shield 9627 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer 156 159 Seal ring 9627 158 Waved washer 9627 159 Seal ring 9627 159 Seal ring 9627 151 Label 9627 151 Label 9627 151 Fan cover 9627 152 Pan head thread forming screw 9627 154 Calaring 9627 158 Flange 9627 159.c		1
Kit, Ball bearing 9627 99a Retaining ring 111 Ball bearing 117 Ball bearing 118 Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer Kit, end shield 9627 156a End shield 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer 158 Waved washer 158 Waved washer 159a Seal ring Kit, fan 9627 159a Seal ring Kit, fan cover 9627 151b Label 151 Fan cover 152 Pan head thread forming screw Kit, flange 9627 156b Flange 156c Drain plug 157c Seal ring Kit, staling ring 9627 158 Retaining ring 188 Retaining ring	30 1	рс
99a Retaining ring 99 Retaining ring 111 Ball bearing 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 Thickness: 3 158 Waved washer Kit, end shield 9627 156a End shield 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer Seal ring 159a Seal ring Seal ring Kit, fan cover 9627 151b Label Seal ring Kit, fan cover 9627 152 Pan head thread forming screw Kit, flange 156b Flange 9627 156c Drain plug Seal ring 159c Seal ring 9627 159c		1
99 Retaining ring 111 Ball bearing 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer Kit, end shield 9627 156a End shield 9627 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer Thickness: 3 159a Seal ring Seal ring Kit, fan 9627 159a Seal ring 9627 Kit, fan cover 9627 151b Label 9627 151b Fan cover 9627 152 Pan head thread forming screw Kit, flange 9627 155b Flange 9627 156c Drain plug 9627 159.c Seal ring 9627 Kit, tetaining ring 9627 159.c Seal ring 9627 159a Seal ring 9627 159a Seal ring	10100	
111 Ball bearing 157 O-ring Diameter: 52 158 Waved washer Thickness: 3 158 Kit, end shield 9627 156a End shield 9627 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer Waved washer 159a Seal ring Kit, fan 9627 159a Seal ring 9627 151b Label 151b Label 151 Fan cover 9627 152 Pan head thread forming screw 8627 152 Pan head thread forming screw 9627 155b Flange 9627 155c Seal ring 9627 157c Seal ring 9627 158c Designation: CoMBI TORX T25 159c Seal ring 9627 159c Seal ring 9627 159c Seal ring 9627 159c Seal ring		
111 Ball bearing Diameter: 52 157 O-ring Material type: NBR 158 Waved washer Thickness: 3 156a End shield Diameter: 52 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer Thickness: 3 159a Seal ring Seal ring Kit, fan 9627 151b Label 151b Label 151 Fan cover 152 Pan head thread forming screw Kit, flange 9627 156b Flange 157c Seal ring Kit, retaining ring 9627 159a Seal ring Kit, shaft seal 9627 159c Seal ring Kit, shaft seal 9627 159c Seal ring Kit, shaft seal 9627 159a Seal ring Kit, staybolts 9627 159a Seal ring <t< td=""><td></td><td></td></t<>		
157		
Material type: NBR Thickness: 3		
Thickness: 3 Thic		
158 Waved washer 156a End shield 157 O-ring Diameter: 52 158 Waved washer 159a Seal ring Kit, fan 9627 156 Fan 159a Seal ring Kit, fan cover 9627 151b Label 151 Fan cover 152 Pan head thread forming screw Kit, flange 9627 156b Flange 157c.c Drain plug 159c.c Seal ring Kit, retaining ring 9627 159c Seal ring Kit, shaft seal 9627 159a Seal ring Kit, staybolts 9627 159a Seal ring Kit, tsyabolts 9627 159a Seal ring Kit, tsyabolts 9627 Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25		
Kit, end shield 9627 156a End shield 157 O-ring Diameter: 52 Material type: NBR Thickness: 3 158 Waved washer Seal ring 159a Seal ring Fixed responsible to the seal ring of the		
156a		
157	79831	1
Material type: NBR Thickness: 3		
Thickness: 3		
158 Waved washer 159a Seal ring Kit, fan 9627 156 Fan 159a Seal ring Kit, fan cover 9627 151b Label 151 Fan cover 152 Pan head thread forming screw Kit, flange 9627 156b Flange 156c. Drain plug 159.c Seal ring Kit, retaining ring 9627 99 Retaining ring 188 Retaining ring Kit, shaft seal 9627 159c Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Connecting piece 176 Wire clamp		
159a		
Kit, fan 9627 156 Fan 159a Seal ring Kit, fan cover 9627 151b Label 151 Fan cover 152 Pan head thread forming screw Kit, flange 9627 156b Flange 156c. Drain plug 159.c Seal ring Kit, retaining ring 9627 99 Retaining ring 188 Retaining ring Kit, shaft seal 9627 159a Seal ring 159a Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 1773 Pan head thread forming screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Connecting piece 177 Wire clamp <td></td> <td></td>		
156 Fan 159a Seal ring Kit, fan cover 9627 151b Label 151 Fan cover 152 Pan head thread forming screw Kit, flange 9627 156b Flange 156c Drain plug 159c Seal ring 159c Seal ring 188 Retaining ring 189 Retaining ring Kit, shaft seal 9627 159c Seal ring 159a Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp		
159a Seal ring Kit, fan cover 9627 151b Label 151 Fan cover 152 Pan head thread forming screw Kit, flange 9627 156b Flange 156.c Drain plug 159.c Seal ring Kit, retaining ring 9627 99 Retaining ring 188 Retaining ring Kit, shaft seal 9627 159c Seal ring 159a Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 1773 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Connecting piece 176 Wire clamp	79757	1
Kit, fan cover 9627 151b Label 151 Fan cover 152 Pan head thread forming screw Kit, flange 9627 156b Flange 156c. Drain plug 159.c Seal ring Kit, retaining ring 9627 188 Retaining ring Kit, shaft seal 9627 159c Seal ring 159a Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp		
Kit, fan cover 9627 151b Label 151 Fan cover 152 Pan head thread forming screw Kit, flange 9627 156b Flange 156.c Drain plug 159.c Seal ring Kit, retaining ring 9627 188 Retaining ring Kit, shaft seal 9627 159c Seal ring 159a Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp		
151b Label 151 Fan cover 152 Pan head thread forming screw Kit, flange 9627 156b Flange 156c. Drain plug 159c. Seal ring Kit, retaining ring 9627 99 Retaining ring Kit, shaft seal 9627 159c Seal ring 159a Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp	79826	1
151 Fan cover 152 Pan head thread forming screw Kit, flange 9627 156b Flange 156.c Drain plug 159.c Seal ring Kit, retaining ring 9627 199 Retaining ring 188 Retaining ring Kit, shaft seal 9627 159c Seal ring 159a Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp		-
152 Pan head thread forming screw Kit, flange 9627 156b Flange 156c Drain plug 159c Seal ring 8 Retaining ring 188 Retaining ring Kit, shaft seal 9627 159c Seal ring 159a Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp		
Kit, flange 9627 156b Flange 156.c Drain plug 159.c Seal ring Kit, retaining ring 9627 99 Retaining ring 188 Retaining ring Kit, shaft seal 9627 159c Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp		
156b Flange 156.c Drain plug 159.c Seal ring Kit, retaining ring 9627 99 Retaining ring 188 Retaining ring Kit, shaft seal 9627 159c Seal ring 159a Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp	70929	1
156.c Drain plug 159.c Seal ring Kit, retaining ring 9627 99 Retaining ring 188 Retaining ring Kit, shaft seal 9627 159c Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp	13020	
159.c Seal ring 99 Retaining ring 188 Retaining ring Kit, shaft seal 9627 159c Seal ring 159a Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp		
Kit, retaining ring 9627 99 Retaining ring 188 Retaining ring Kit, shaft seal 9627 159c Seal ring 159a Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp		
99 Retaining ring 188 Retaining ring Kit, shaft seal 9627 159c Seal ring 159a Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 176 Terminal 176 Terminal 176 Connecting piece 176 Wire clamp	70700	_
188 Retaining ring Kit, shaft seal 9627 159c Seal ring 159a Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp	79799	1
Kit, shaft seal 9627 159c Seal ring 159a Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp		
159c Seal ring 159a Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp		
159a Seal ring Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp	79762	1
Kit, staybolts 9627 181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp		
181 Pan head staybolt Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp		
Kit, terminal board 9627 173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp	79832	1
173a Base 173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp		
173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp	79769	1
173 Pan head thread forming screw Designation: COMBI TORX T25 176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp		
176 Slot cheese head screw Designation: COMBI TORX T25 Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp		
Length (mm): 10 Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp		
Thread: M5 176 Terminal 176 Connecting piece 176 Wire clamp		
176 Terminal 176 Connecting piece 176 Wire clamp		
176 Connecting piece 176 Wire clamp		
176 Wire clamp		
·		
176 Terminal board 177 Pan head screw		



Pos	Description	Annotation	Classification Data		ty. Uni
- 101	Kit, terminal box			96279771	1
164	Terminal box cover w/gasket				
166	Pan head thread forming screw			00004740 4	
1a	Pump head			98824712 1	pcs
2	Pump cover			98481138 1	pcs
+ 3	Bulk, Top intermediate chamber (3 pcs)			98371113 1	pcs
+ 3	Top intermediate chamber			98734577 1	pcs
+ 4a	Bulk, Intermediate chamber cpl. (10 pcs)			96538853 1	pcs
+ 4a	Intermediate chamber cpl.			98371117 1	pcs
- 4	Bulk, Intermediate chamber cpl. (10 pcs)			96538840 1	pcs
3	Intermediate chamber			98371143	3 1
65	Retainer			96547341	l 1
+ 4	Intermediate chamber cpl.			98371115 1	pcs
6	Base			98654159 1	pcs
7.a	Bulk, Combi Slot Torx screw (1000 pcs)			96886324 4	
10	Bulk, Shaft pin (10 pcs)		Diameter: 5	96536473 1	
	Baix, Grian pin (10 poo)		Length (mm): 26	00000110 1	Poo
+ 18	Bulk, Air vent screw (5 pcs)		Longar (min). 20	96547461 1	pcs
+ 18	Air vent screw			95061351 1	pcs
25	Bulk, Plug (10 pcs)			96536013 1	pcs
26a	Strap cpl.		B	98952934 2	
26.c	Bulk, Washer (4 pcs)		Designation: DIN 125A	99262704 2	pcs
			Thickness: 1,6		
26.c	Washer		Designation: DIN 125A	96586880 2	pcs
			Thickness: 1,6		
26	Staybolt			98902653 4	pcs
37.a	Bulk, O-ring (20 pcs)			96538857 1	pcs
38a	Bulk, O-ring (10 pcs)		Diameter: 5,3	99198791 1	pcs
			Material type: EPDM		
			Thickness: 2,4		
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
00	Baix, 6 mig (66 p66)		Material type: EPDM	00112121 2	Poc
			Thickness: 2,4		
44b	Inlet part		11110K11033. 2,4	98814593 1	ncc
	·			98818922 1	pcs
+ 44a					
47	Bulk, Bearing ring (10 pcs)			96538795 1	pcs
49	Bulk, Impeller cpl. (5 pcs)			98394288 3	
49c	Bulk, Wear ring (10 pcs)			96547340	
+ 49	Impeller cpl.			98394449 3	pcs
- 51	Shaft, spline, cpl.			98368628 1	pcs
55	Outer sleeve			98812634 1	pcs
56	Base plate			98481136 1	pcs
60	Bulk, Spring (20 pcs)			96538963 4	pcs
64d	Bulk, Spacing bush (20 pcs)			96538947 1	pcs
64c	Bulk, Spacing pipe (5 pcs)		Length (mm): 12.7	97980241 1	pcs
64a	Bulk, Spacing pipe (10 pcs)		Internal diameter: 17,5	98417487 1	pcs
J IG	, -F3 k-ka (k-20)		Length (mm): 17		Poc
64	Bulk, Spacing pipe (20 pcs)		Length (mm): 43.6	96535107 1	nce
			Longui (iiiii). 43.0		pcs
66	Bulk, Wedge lock washer (10 pcs)		Throad: MO	96536157 1	pcs
67	Bulk, Lock nut (10 pcs)		Thread: M8	98277008 1	pcs
69	Bulk, Spacing bush (20 pcs)			96538949 1	pcs
76a	Bulk, Rivet (100 pcs)			96620489 1	pcs
105	Bulk, Shaft seal (11 pcs)		Material type: HQQE	96538914 1	pcs