

Date: 16/02/2019

Qty. | Description

1 | CR 32-2 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96122009

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

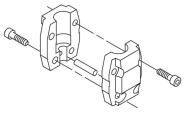
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

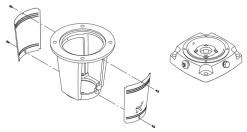
A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.



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



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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 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.



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Technical data

Controls:

Frequency converter: NONE

Liquid:

Pumped liquid: Water
Liquid temperature range: -30 .. 120 °C
Liquid temperature during operation: 20 °C
Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 2917 rpm

Rated flow: 30 m³/h
Rated head: 29.5 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE
Approvals on nameplate: CE, EAC,ACS
Curve tolerance: ISO9906:2012 3B

Materials:

Base: Cast iron

EN 1563 EN-GJS-500-7 ASTM A536 80-55-06

Impeller: Stainless steel

EN 1.4301 AISI 304 SIC

Bearing: SIC Support bearing: Graflon

Installation:

Maximum ambient temperature: 60 °C Maximum operating pressure: 16 bar

Max pressure at stated temp: 16 bar / 120 °C

16 bar / -30 °C

Type of connection: DIN
Size of inlet connection: DN 65
Size of outlet connection: DN 65
Pressure rating for pipe connection: PN 40
Flange size for motor: FT130

Electrical data:

Motor standard: IEC
Motor type: 112MC
IE Efficiency class: IE3
Rated power - P2: 4 kW
Power (P2) required by pump: 4 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-415D V

Rated current:

Starting current:

Cos phi - power factor:

Rated speed:

Efficiency:

Motor efficiency at full load:

Motors officiency at 2/4 load:

88.1 %

Motor efficiency at 3/4 load: 88.6 % Motor efficiency at 1/2 load: 85.2 % Number of poles: 2



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Qty. | Description

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

Insulation class (IEC 85):

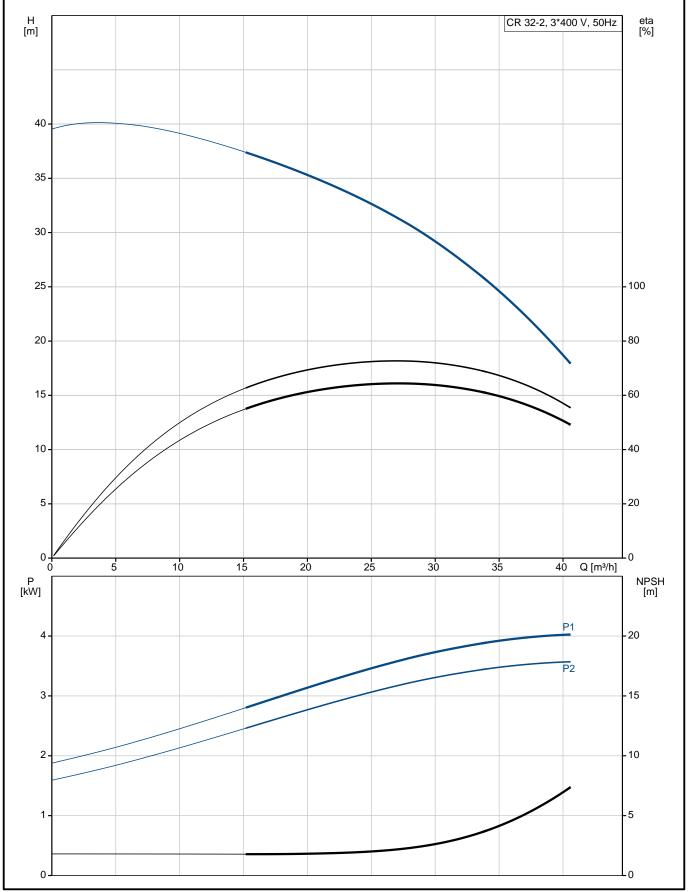
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 86.4 kg
Gross weight: 109 kg
Shipping volume: 0.309 m³
Danish VVS No.: 385906020
Swedish RSK No.: 5824871



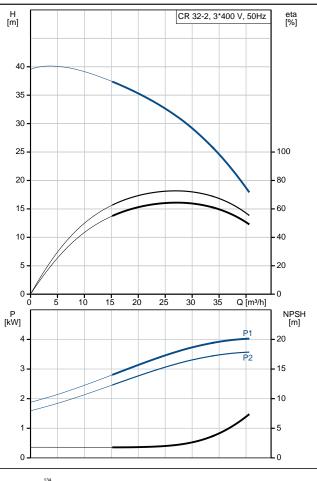
Date: 16/02/2019

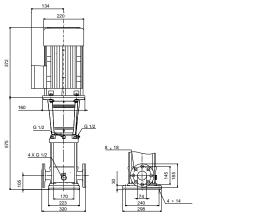
96122009 CR 32-2 A-F-A-E-HQQE 50 Hz

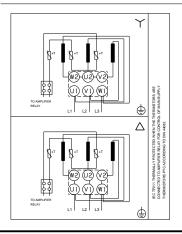




Description	Value
General information:	
Product name:	CR 32-2
i Toduct Hairie.	A-F-A-E-HQQE
Product No:	96122009
EAN number:	5700396680538
Technical:	
Pump speed on which pump data are based:	2917 rpm
	·
Rated flow:	30 m³/h
Rated head:	29.5 m
Head max:	39.5 m
Stages:	2
Impellers:	2
Number of reduced-diameter 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:	В
Materials:	
Base:	Cast iron
	EN 1563 EN-GJS-500-7
	ASTM A536 80-55-06
Impollar	Stainless steel
Impeller:	EN 1.4301
	AISI 304
	A131 304
Material code:	
Material code:	Α
Code for rubber:	A E
Code for rubber: Bearing:	A E SIC
Code for rubber: Bearing: Support bearing:	A E
Code for rubber: Bearing: Support bearing: Installation:	A E SIC Graflon
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature:	A E SIC Graflon
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure:	A E SIC Graflon 60 °C 16 bar
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65 DN 65
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65 DN 65 PN 40
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65 DN 65 PN 40 FT130
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65 DN 65 PN 40
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65 DN 65 PN 40 FT130 F
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65 DN 65 PN 40 FT130 F Water
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65 DN 65 PN 40 FT130 F Water -30 120 °C
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65 DN 65 PN 40 FT130 F Water -30 120 °C 20 °C
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65 DN 65 PN 40 FT130 F Water -30 120 °C
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65 DN 65 PN 40 FT130 F Water -30 120 °C 20 °C 998.2 kg/m³
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65 DN 65 PN 40 FT130 F Water -30 120 °C 20 °C 998.2 kg/m³
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65 DN 65 PN 40 FT130 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC 112MC
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65 DN 65 PN 40 FT130 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC 112MC IE3
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65 DN 65 PN 40 FT130 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC 112MC IE3 4 kW
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65 DN 65 PN 40 FT130 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC 112MC IE3 4 kW 4 kW
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65 DN 65 PN 40 FT130 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC 112MC IE3 4 kW 4 kW 50 Hz
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -30 °C DIN DN 65 DN 65 PN 40 FT130 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC 112MC IE3 4 kW 4 kW







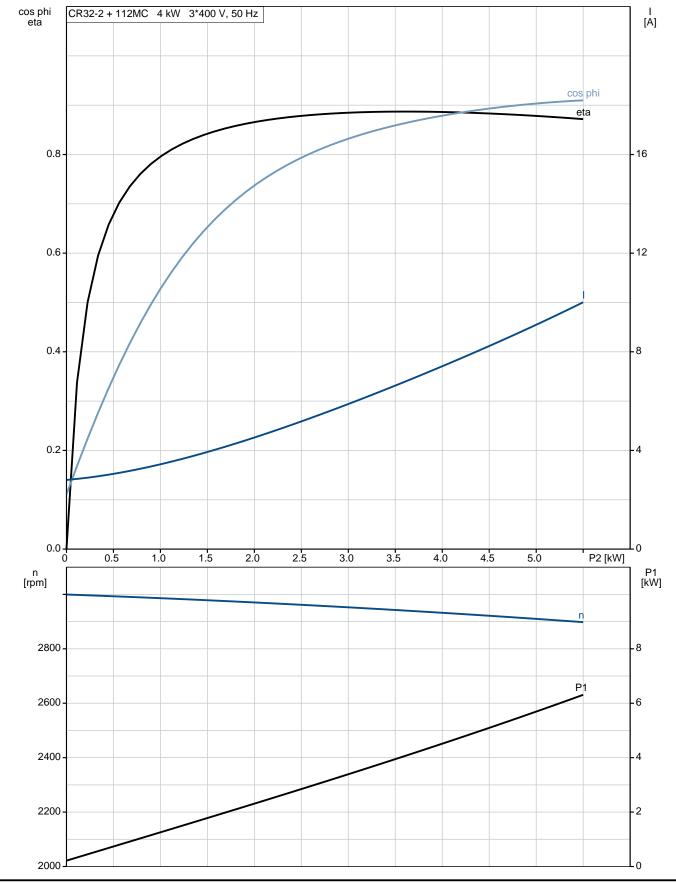


Description	Value
Starting current:	1000-1110 %
Cos phi - power factor:	0.87-0.87
Rated speed:	2920-2940 rpm
Efficiency:	IE3 88,1%
Motor efficiency at full load:	88.1 %
Motor efficiency at 3/4 load:	88.6 %
Motor efficiency at 1/2 load:	85.2 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U15413
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	86.4 kg
Gross weight:	109 kg
Shipping volume:	0.309 m ³
Danish VVS No.:	385906020
Swedish RSK No.:	5824871



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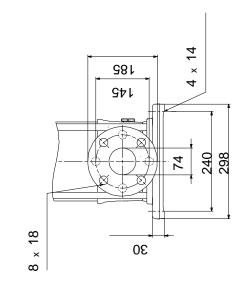
96122009 CR 32-2 A-F-A-E-HQQE 50 Hz

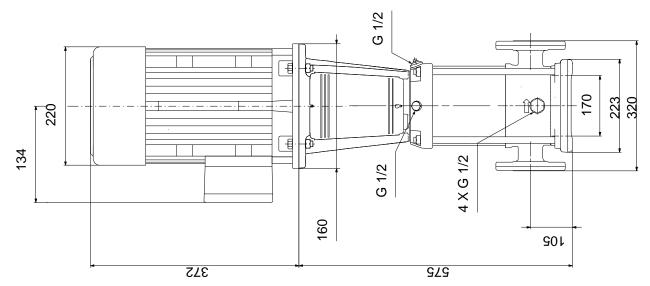




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96122009 CR 32-2 A-F-A-E-HQQE 50 Hz



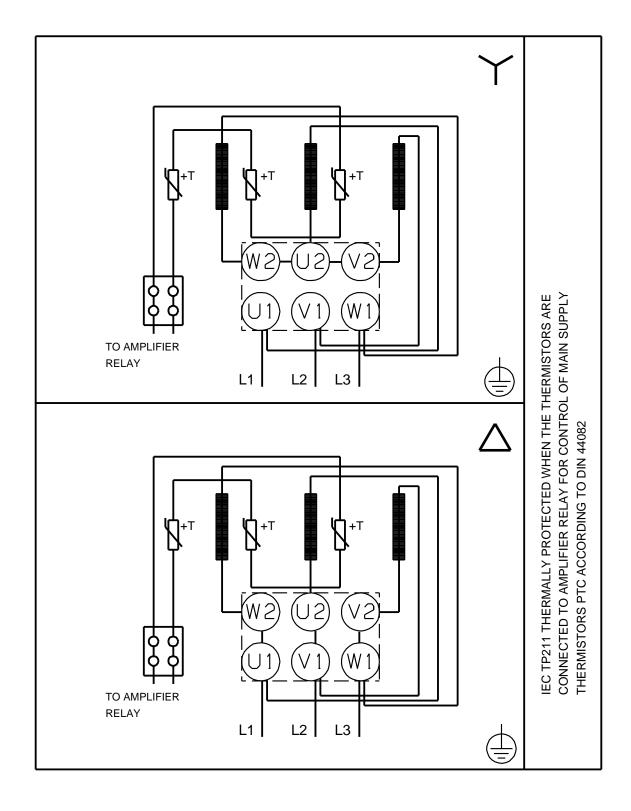


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



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96122009 CR 32-2 A-F-A-E-HQQE 50 Hz

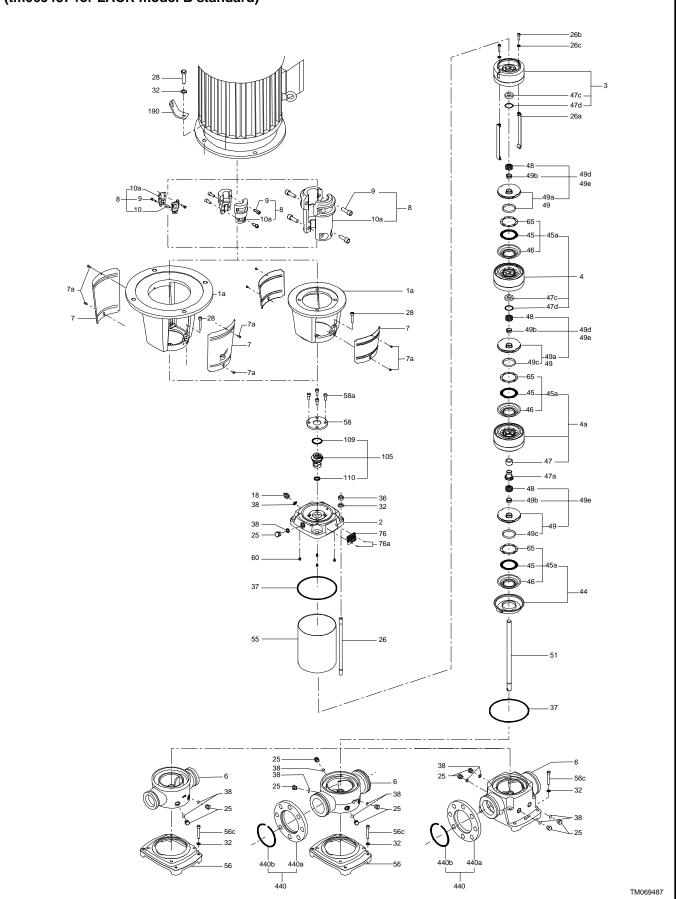


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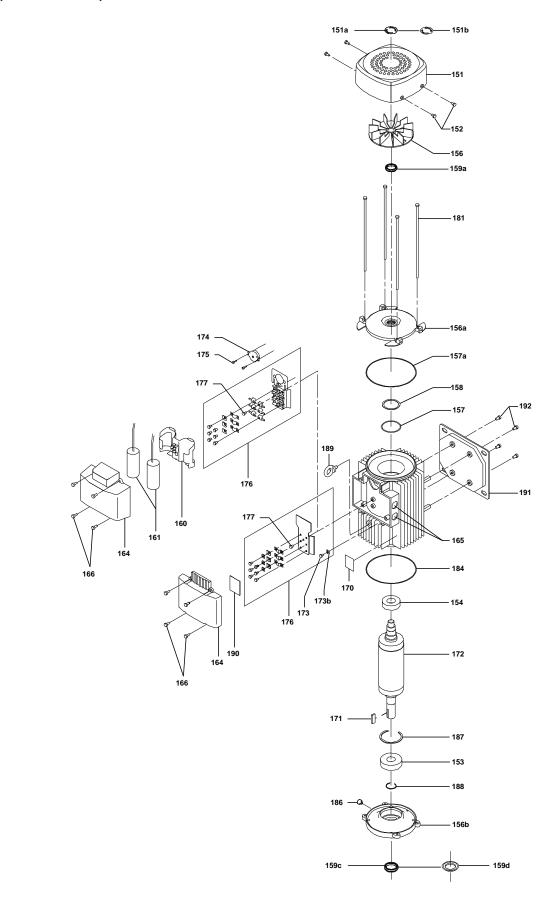
(tm069487 for LACR model B standard)





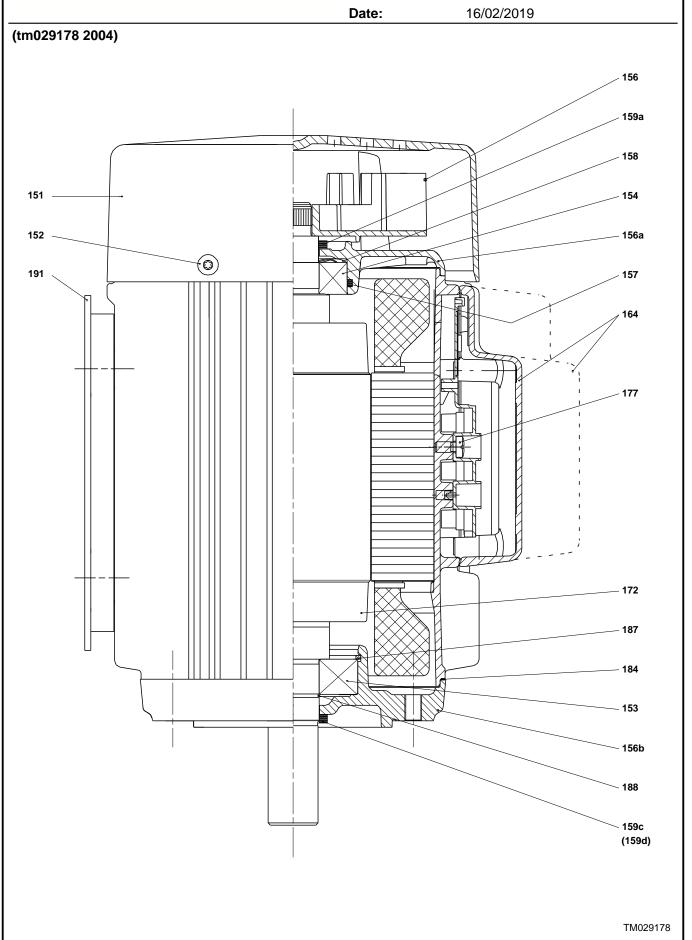
Date: 16/02/2019

(tm029184 0505)



TM029184







Date: 16/02/2019

Spare parts CR 32-2, Product No. 96122009 Valid from 3.3.2014 (1410)

	Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
-		Base			96547299	1	pcs
	6	Base				1	
-	80	Kit, chamber stack			96416276	1	pcs
-	80	Chamber stack				1	
-	3	Upper chamber cpl.					
		Cone					
		Spare, turbulence optimizer KP					
		Spare, turbulence optimizer KP					
		Spare, turbulence optimizer KP					
		Spare, turbulence optimizer KP					
		Guide					
	47d	Lock ring					
	47c	Bush					
-	4a	Intermediate chamber cpl.					
		Intermediate chamber cpl.					
-	45a	Neck ring cpl.					
	45	Seal ring					
	46	Neck ring					
	65	Top f/neck ring					
	47	Bearing					
	26c	Washer		Designation: DIN 125A			
				Thickness: 1,6			
	26b	Hex socket head cap screw		111101111000. 1,0			
-	26a	Strap cpl.		Thread: M8			
	200	Strip		Till Gdd. Wil			
		Nut					
-	44	Suction interconnector cpl.					
		Suction interconnector					
	45	Seal ring					
	46	Neck ring					
	65	Top f/neck ring					
-	47a	Bearing cpl.					
	-77 α	Driver					
		Holder					
		Disc spring					
		Bearing ring					
	49e	Impeller cpl.					
	48	Nut					
	49b	Split cone					
	49	Impeller					
-	43	Impeller hub					
	49c	Wear ring					
	51	Shaft					
	31	Kit, chambers			98497462	1	200
-	4a	Intermediate chamber cpl.			30431402	1	pcs
F	та	Intermediate chamber cpl.				ı	
	450	Neck ring cpl.					
-	45a 45						
	45 46	Seal ring					
		Neck ring					
	65	Top f/neck ring					
	47	Bearing					
-	47a	Bearing cpl.				1	
		Driver					



Pos	Description	Annotation Classification Data	Part no.	Qty	/.	Un
	Holder					
	Disc spring					
	Bearing ring					
	Kit, coupling		96416590	1		рс
	Adjusting fork				1	
9	Hex socket head cap screw	Designation: DIN 912			4	
		Length (mm): 25				
		Thread: M10				
10a	Coupling				1	
	Kit, coupling guard		96505134	1		рс
7a	Socket button head screw				4	•
7	Coupling guard				2	
	Kit, cover		98832448	1		рс
58a	Hex socket head cap screw	Designation: DIN 912	00002110	•	4	۲۰
oou	Trex socker fload dap solew	Length (mm): 25			-	
		Thread: M10				
58	Cover	Tilleau. WTO			1	
50			06416507	1	'	no
	Kit, gaskets		96416597	1	1	рс
27	Adjusting fork					
37	O-ring	Diam. (40.0			2	
38	O-ring	Diameter: 16,3			2	
		Material type: EPDM				
		Thickness: 2,4				
38	O-ring	Diameter: 16,3			4	
		Material type: EPDM				
		Thickness: 2,4				
60	Spring				4	
109	O-ring				1	
110	O-ring	Diameter: 21,2			1	
		Material type: EPDM				
		Thickness: 3,55				
	Kit, impeller		98497465	1		рс
48	Nut				1	
48	Nut				1	
49b	Split cone				1	
49	Impeller				1	
	Impeller hub					
49c	Wear ring					
	Kit, plug		96505136	1		рс
18	Air vent screw		00000100	•	1	۲۰
10	Spindle				•	
	Plug					
2F					4	
25	Plug					
25	Plug	Diameter 40.0			1	
38	O-ring	Diameter: 16,3			2	
		Material type: FKM				
		Thickness: 2,4				
38	O-ring	Diameter: 16,3			4	
		Material type: FKM				
		Thickness: 2,4				
38	O-ring	Diameter: 16,3			6	
		Material type: FKM				
		Thickness: 2,4				
38	O-ring	Diameter: 16,3			2	
	-	Material type: EPDM				
		Thickness: 2,4				
38	O-ring	Diameter: 16,3			4	
	g	Material type: EPDM			•	
		Thickness: 2,4				



Pos	Description		. Ur
	Kit, shaft seal HQQE	96525458 1	рс
	Grinding device		1
105	Shaft seal	Material type: HQQE	1
	Adjusting fork		
109	O-ring		
110	O-ring	Diameter: 21,5	
		Material type: EPDM	
		Thickness: 4,25	
	Kit, wear parts	98497130 1	рс
45	Seal ring		2
47d	Lock ring		2
47c	Bush		1
49c	Wear ring		2
65	Top f/neck ring		2
	Motor	85903740 1	рс
	Kit, bearing cpl.	96279802	
111	Ball bearing	Designation: 6206.2Z.C3.SYN	•
153	Angular-contact bearing	D001gridulori: 0200.22.00.0114	
157	O-ring	Diameter: 62	
137	O-mig	Material type: NBR	
		Thickness: 3	
150	Waved washer	THICKNESS. 3	
158		00070700	
450	Kit, end shield	96279790	1
156a	End shield	D : 4 00	
157	O-ring	Diameter: 62	
		Material type: NBR	
		Thickness: 3	
158	Waved washer		
159a	Seal ring		
	Kit, eyebolt	96279825	1
189	Eyebolt		
	Kit, fan	96279758	1
156	Fan		
159c	Seal ring		
159a	Seal ring		
	Kit, fan cover	96279756	1
151b	Label		
151	Fan cover		
152	Pan head thread forming screw		
	Kit, flange	96279779	1
156b	Flange	30210110	•
159.c	Seal ring		
186	Drain plug		
100	Kit, shaft seal	96279763	1
1500		902/9/03	
159c	Seal ring		
159a	Seal ring	00070700	
404	Kit, staybolts	96279793	1
181	Pan head staybolt		
	Kit, terminal board	96279769	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		
176	Terminal board		
•	Pan head screw		



Pos	Description	Annotation Classification Data	Part no. Qty. Uni
-	Kit, terminal box		96279772 1
164	Terminal box cover w/gasket		
166	Pan head thread forming screw		
1a	Motor stool		96587723 1 pcs
2	Pump head		96587722 1 pcs
3	Upper chamber cpl.		98633863 1 pcs
47c	Bulk, Bush (10 pcs)		99321194 1
4a	Bulk, Intermediate chamber cpl. (5 pcs)		99262755 1 pcs
45a	Bulk, Neck ring cpl. (10 pcs)		98686545 1
45	Bulk, Seal ring (10 pcs)		97915217
65	Bulk, Top f/neck ring (10 pcs)		96534931
+ 4a	Intermediate chamber cpl.		99363114 1 pcs
- 6	Base cpl.	Rubber type: EPDM	96587692 1 pcs
25	Bulk, Plug (10 pcs)	71	96536013 4
37	Bulk, O-ring (10 pcs)		96536149 1
38	Bulk, O-ring (10 pcs)	Diameter: 16,3	99198815 4
	Bain, 6 mig (16 poo)	Material type: EPDM	00100010
		Thickness: 2,4	
38	Bulk, O-ring (50 pcs)	Diameter: 16,3	99412727 4
- 55	Sain, Sing (00 pos)	Material type: EPDM	30712121 T
		Thickness: 2,4	
7a	Bulk, Socket button head screw (10 pcs)	HIIONIGSS. 2,4	96549696 4 pcs
7 7	Bulk, Coupling guard (10 pcs)		<u>'</u>
			<u>'</u>
+ 18	Bulk, Air vent screw (5 pcs)		96547461 1 pcs
+ 18	Air vent screw		95061351 1 pcs
25	Bulk, Plug (10 pcs)		96536013 1 pcs
26c	Bulk, Washer (4 pcs)	Designation: DIN 125A	99262704 2 pcs
		Thickness: 1,6	
26c	Washer	Designation: DIN 125A	96586880 2 pcs
		Thickness: 1,6	
26b	Bulk, Hex socket head cap screw (10 pcs)		98931380 2 pcs
+ 26a	Strap cpl.	Thread: M8	98983835 2 pcs
26	Staybolt	Length (mm): 286	98976694 4 pcs
		Thread: M16	
28	Bulk, Hex socket head cap screw (10 pcs)	Designation: DIN 912	96536147 4 pcs
		Length (mm): 50	
		Thread: M10	
32	Bulk, Washer (100 pcs)	Designation: DIN 125 A	98923051 4 pcs
		Internal diameter: 17	
		Outer diameter: 30	
		Thickness: 3	
36	Bulk, Hex nut (20 pcs)	Thread: M16	96620480 4 pcs
37	Bulk, O-ring (10 pcs)		96536149 1 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.	······	96547328 1 pcs
45	Bulk, Seal ring (10 pcs)		97915217 1
65	Bulk, Top f/neck ring (10 pcs)		96534931 1
+ 47a	Bulk, Bearing cpl. (5 pcs)		99366796 1 pcs
+ 47a + 47a	Bulk, Bearing cpl. (3 pcs)		· · · · · · · · · · · · · · · · · · ·
49e			
	Bulk, Impeller cpl. (3 pcs)		98287180 2 pcs
48	Bulk, Nut (3 pcs)		99262680 1
48	Bulk, Nut (10 pcs)		99262683 1
48	Bulk, Nut (10 pcs)		96536016 1



	Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
	49b	Bulk, Split cone (10 pcs)			965360	010 1	
	49c	Bulk, Wear ring (10 pcs)			965349	930 1	
+	49e	Bulk, Impeller cpl. (10 pcs)			96534935	2	pcs
+	49e	Impeller cpl.			98394455	2	pcs
	55	Outer sleeve		Outer diameter: 197,0	99024620	1	pcs
				Length (mm): 165,5			
	58	Cover			98893158	1	pcs
	60	Bulk, Spring (20 pcs)			96536032	4	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
	203	Bulk, Lock ring (4 pcs)			96534918	1	pcs