

Date: 17/02/2019

Qty. | Description

1 | CRN 32-4 A-F-A-E-HQQE



Product No.: 96122357

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 DIN flanges.

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

Further product details

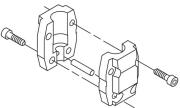
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

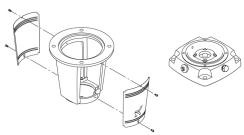
The colour code for the finished product is NCS 9000/RAL 9005.

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.



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)



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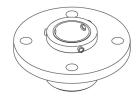
Qty. | Description

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.

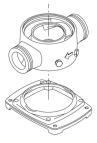




The shaft seal is retained in the pump head by a cover and screws. It can be replaced without removing the motor.

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 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. 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.

Technical data

Controls:

Frequency converter: NONE

Liquid:

Pumped liquid: Water
Liquid temperature range: -40 .. 120 °C
Liquid temperature during operation: 20 °C
Density: 998.2 kg/m³



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Qty. | Description

Technical:

Pump speed on which pump data are based: 2919 rpm

Rated flow:

Rated head:

Pump orientation:

Shaft seal arrangement:

Code for shaft seal:

Approvals on nameplate:

Curve tolerance:

Som 3/h

Sp.1 m

Vertical

Single

HQQE

CE, EAC,ACS

ISO9906:2012 3B

Materials:

Base: Stainless steel

EN 1.4408 AISI 316 Stainless steel

Impeller: Stainless stee

EN 1.4401 AISI 316

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 / -40 °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: FF265

Electrical data:

Motor standard: IEC
Motor type: 132SB
IE Efficiency class: IE3
Rated power - P2: 7.5 kW
Power (P2) required by pump: 7.5 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-415D/660-690Y V Rated current: 14,4-14,0/8,30-8,10 A

Starting current: 780-910 %

Cos phi - power factor: 0.88-0.82

Rated speed: 2910-2920 rpm

Efficiency: IE3 90,1%

Motor efficiency at full load: 90.1-90.4 %

Motor efficiency at 3/4 load: 90.8 %

Motor efficiency at 1/2 load: 90.8 %

Number of poles: 2

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

Insulation class (IEC 85): F

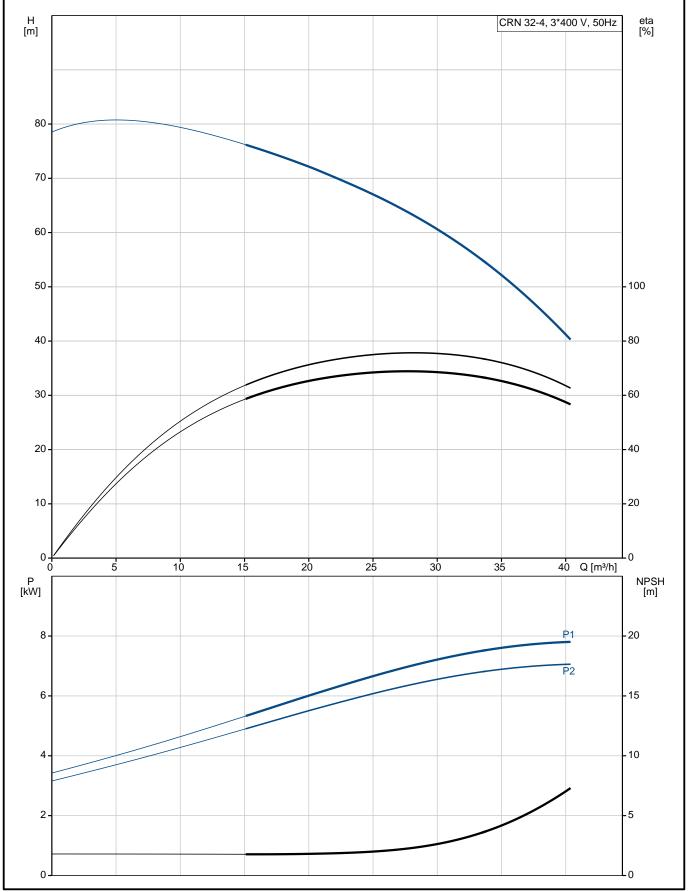
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 112 kg
Gross weight: 135 kg
Shipping volume: 0.309 m³
Danish VVS No.: 385916040



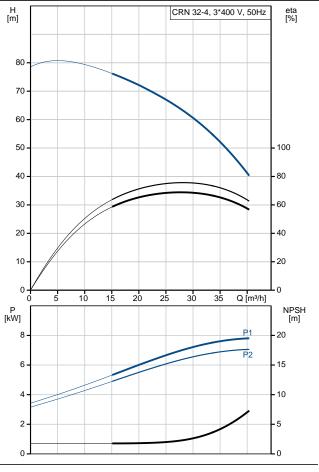
Date: 17/02/2019

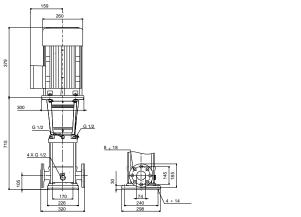
96122357 CRN 32-4 A-F-A-E-HQQE 50 Hz

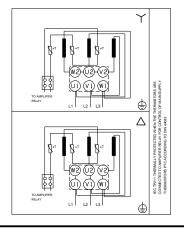




Description	Value
General information:	
Product name:	CRN 32-4
Floduct name.	A-F-A-E-HQQE
Product No:	96122357
EAN number:	5700396684017
Technical:	
Pump speed on which pump data are	2919 rpm
based:	2919 Ipili
Rated flow:	30 m³/h
Rated head:	59.1 m
Head max:	77.8 m
Stages:	4
Impellers:	4
Number of reduced-diameter 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:	Stainless steel
	EN 1.4408
	AISI 316
Impeller:	Stainless steel
mipolior.	EN 1.4401
	AISI 316
Material code:	AISI 316
Material code:	A
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 / -40 °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 / -40 °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 / -40 °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 / -40 °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 / -40 °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 / -40 °C DIN DN 65 DN 65 PN 40 FF265
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 / -40 °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 / -40 °C DIN DN 65 DN 65 PN 40 FF265 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 / -40 °C DIN DN 65 DN 65 PN 40 FF265 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 / -40 °C DIN DN 65 DN 65 PN 40 FF265 F Water -40 120 °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 / -40 °C DIN DN 65 DN 65 PN 40 FF265 F Water -40 120 °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 / -40 °C DIN DN 65 DN 65 PN 40 FF265 F Water -40 120 °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 / -40 °C DIN DN 65 DN 65 PN 40 FF265 F Water -40 120 °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 / -40 °C DIN DN 65 DN 65 PN 40 FF265 F Water -40 120 °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 / -40 °C DIN DN 65 DN 65 PN 40 FF265 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC 132SB
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 / -40 °C DIN DN 65 DN 65 PN 40 FF265 F Water -40 120 °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: IE Efficiency class: Rated power - P2:	A E SIC Graflon 60 °C 16 bar 16 bar / 120 °C 16 bar / -40 °C DIN DN 65 DN 65 PN 40 FF265 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC 132SB
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 / -40 °C DIN DN 65 DN 65 PN 40 FF265 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC 132SB 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 / -40 °C DIN DN 65 DN 65 PN 40 FF265 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC 132SB IE3 7.5 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 / -40 °C DIN DN 65 DN 65 PN 40 FF265 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC 132SB IE3 7.5 kW 7.5 kW 50 Hz 3 x 380-415D/660-690Y
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 / -40 °C DIN DN 65 DN 65 PN 40 FF265 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC 132SB IE3 7.5 kW 7.5 kW 50 Hz







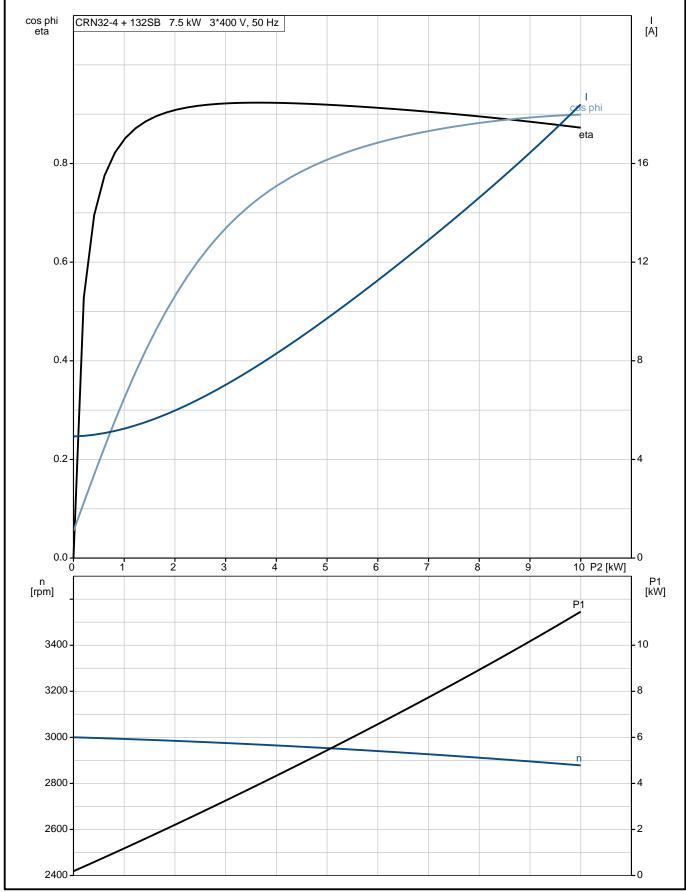


Description	Value
Starting current:	780-910 %
Cos phi - power factor:	0.88-0.82
Rated speed:	2910-2920 rpm
Efficiency:	IE3 90,1%
Motor efficiency at full load:	90.1-90.4 %
Motor efficiency at 3/4 load:	90.8 %
Motor efficiency at 1/2 load:	90.8 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17522
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	112 kg
Gross weight:	135 kg
Shipping volume:	0.309 m ³
Danish VVS No.:	385916040



Date: 17/02/2019

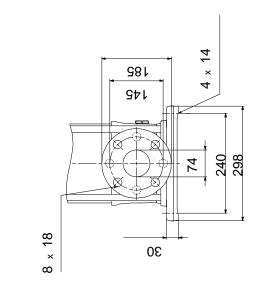
96122357 CRN 32-4 A-F-A-E-HQQE 50 Hz

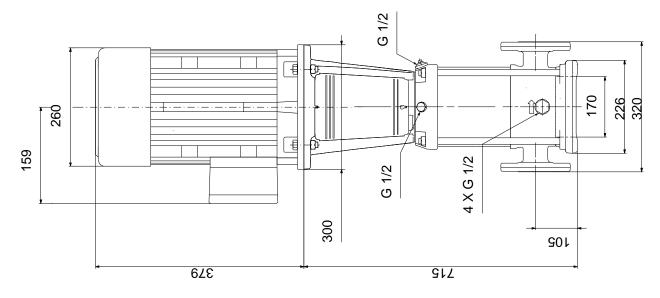




Date: 17/02/2019

96122357 CRN 32-4 A-F-A-E-HQQE 50 Hz



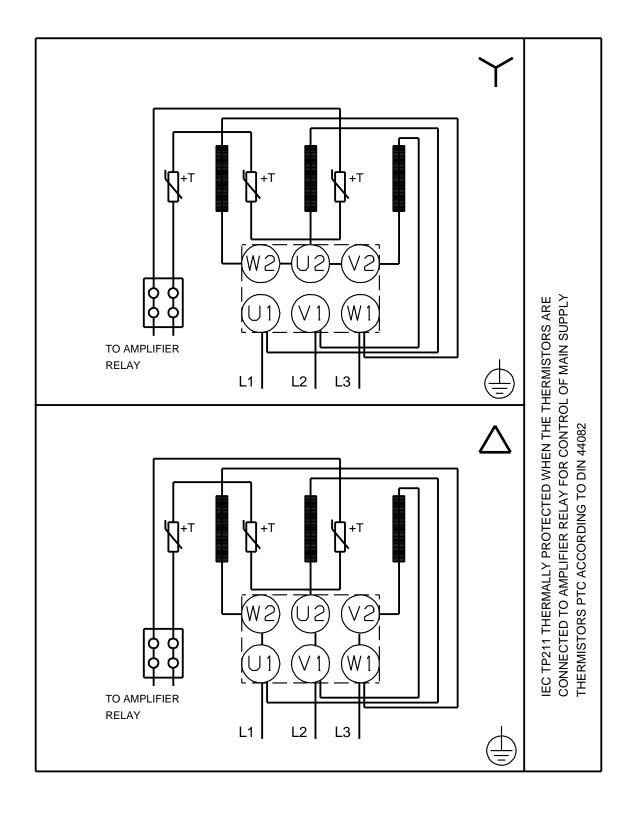


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 17/02/2019

96122357 CRN 32-4 A-F-A-E-HQQE 50 Hz

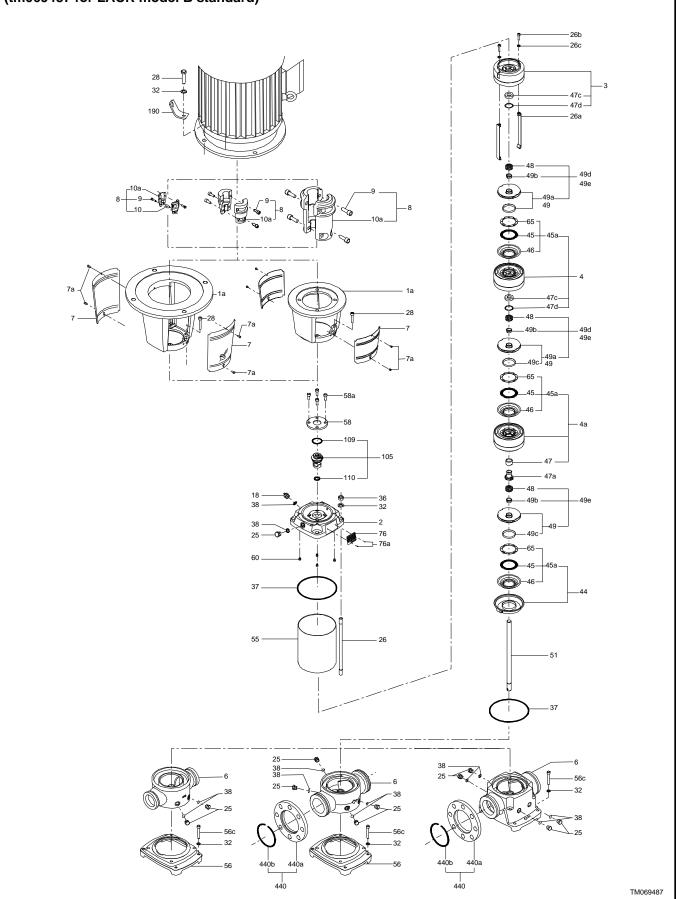


Note! All units are in [mm] unless others are stated.



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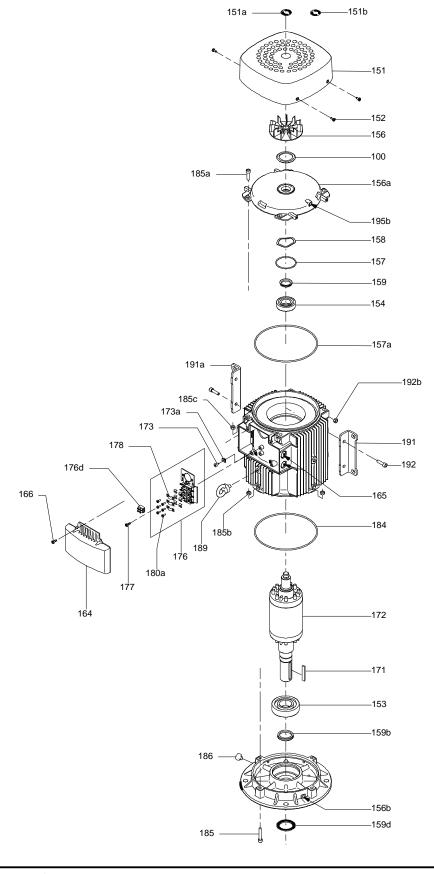
(tm069487 for LACR model B standard)



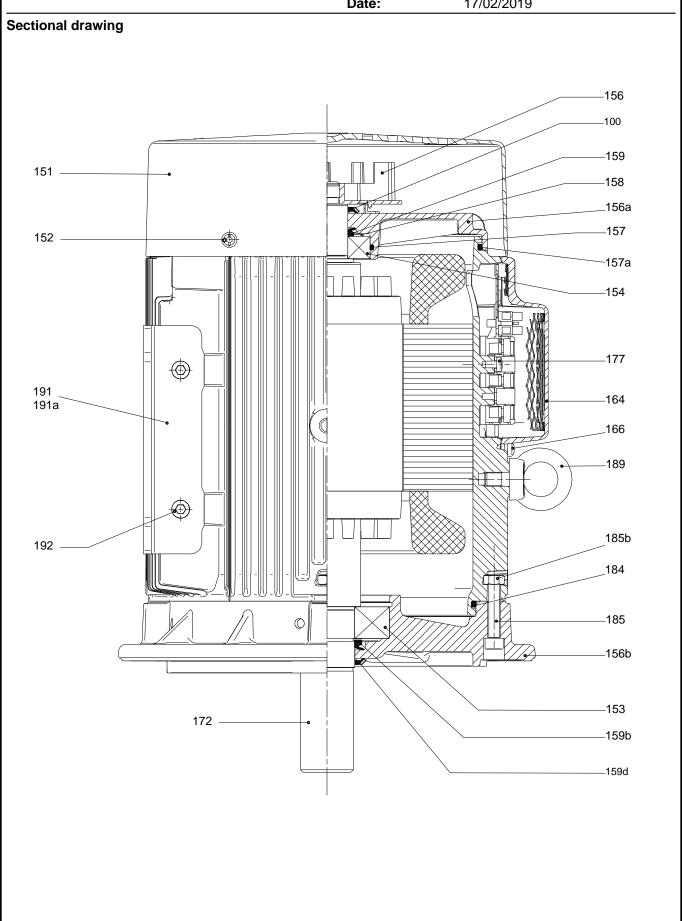


Date: 17/02/2019

Exploded view









Date: 17/02/2019

Spare parts CRN 32-4, Product No. 96122357 Valid from 3.3.2014 (1410)

	Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
-		Base			98925061	1	pcs
	6	Base				1	
-	80	Kit, chamber stack			96416295	1	pcs
-	80	Chamber stack				1	
-	3	Upper chamber cpl.					
		Guide cup					
		Guide cup					
		Cone					
		Guide					
		Chamber					
		Chamber					
	47d	Lock ring					
	47c	Bush					
-	4a	Intermediate chamber cpl.					
		Guide cup					
		Guide cup					
		Cone					
		Guide					
		Chamber					
		Chamber					
	45a	Neck ring cpl.					
	47	Bearing					
-	4	Intermediate chamber cpl.					
		Guide cup					
		Guide cup					
		Cone					
		Guide					
		Chamber					
		Chamber					
	45a	Neck ring cpl.					
	47d	Lock ring					
	47c	Bush					
	26c	Washer		Designation: DIN 125A			
				Thickness: 1,6			
	26b	Hex socket head cap screw					
	26a	Strap cpl.		Length (mm): 289			
				Thread: M8			
-	44	Suction interconnector cpl.					
	44a	Suction interconnector					
	45	Seal ring					
	46	Neck ring					
	65	Top f/neck ring					
-	47a	Bearing cpl.					
		Driver					
		Holder					
		Disc spring					
		Bearing ring					
-	49e	Impeller cpl.					
	48	Nut					
	49b	Split cone					
-	49	Impeller					
		Impeller hub					
	49c	Wear ring					



Pos	Description	Annotation	Classification Data	Part no.	Qtv.	Uni
51	Shaft					
	Kit, chambers			98633738	1	pcs
4a	Intermediate chamber cpl.					1
	Guide cup					
	Guide cup					
	Cone					
	Guide					
	Chamber					
	Chamber					
45a	Neck ring cpl.					
47	Bearing opi.					
47a	Bearing cpl.					1
41 a	Driver					ı
	Holder					
	Disc spring					
	Bearing ring					
	Kit, coupling			96416591	1	pcs
	Adjusting fork					1
9	Hex socket head cap screw		Designation: DIN 912			4
			Length (mm): 25			
			Thread: M10			
10a	Coupling		Type: SPACER			1
	Kit, coupling guard			96505134	1	pcs
7a	Socket button head screw					4
7	Coupling guard				:	2
	Kit, cover			98832448	1	pcs
58a	Hex socket head cap screw		Designation: DIN 912			4
			Length (mm): 25			
			Thread: M10			
58	Cover					1
	Kit, gaskets			96416597		pcs
	Adjusting fork			00110001		1
37	O-ring					2
38	O-ring		Diameter: 16,3			2
30	O-IIIIg		Material type: EPDM			_
			Thickness: 2,4			
20	O win m					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			98633780	1	pcs
48	Nut					1
48	Nut					1
49b	Split cone					1
49	Impeller					1
	Impeller hub					
49c	Wear ring					
	Kit, plug			96505136	1	pcs
18	Air vent screw			33330100		1
10						•
	Spindle					
25	Plug					4
25	Plug					4
25	Plug					1
38	O-ring		Diameter: 16,3		:	2



Pos	Description		, Ur
		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
		Material type: EPDM	
		Thickness: 2,4	
	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	98497451 1	рс
45	Seal ring		7
47d	Lock ring		7
47c	Bush		5
49c	Wear ring		7
65	Top f/neck ring		7
00	Motor	91333038 1	pc
	Kit, bearing cpl.	96796642	
111	Ball bearing		'
153	Angular-contact bearing	Designation: 6206.2Z.C3.SYN	
157	O-ring	Diameter: 62	
137	O-IIIIg	Material type: NBR	
		Thickness: 3	
158	Waved washer	THICKNESS. 3	
159.b	V-ring		
159	V-ring	00070074	
400	Kit, eyebolt	96279874	1
189	Lifting eye		
	Kit, fan	96796189	1
156	Fan		
	Kit, fan cover	96796188	1
151	Fan cover		
152	Pan head thread forming scre		
	Kit, flange	96796224	1
156.b	Flange		
159.b	V-ring		
185c	Nut		
185	Hex socket head cap screw		
186	Drain plug		
	Kit, gaskets	96798510	1
184	O-ring		
-	Kit, ND-end shield cpl.	96796598	1
156.a	End shield NDE	33700000	
157	O-ring	Diameter: 62	
	- mig	Material type: NBR	
		Material type, NRK	



Pos	Description	Annotation	Classification Data	Part no. Q	ty.	Un
158	Waved washer					
159	V-ring					
185.c						
185.a	Hex socket head cap screw					
	Kit, shaft seal			96843458	1	
159.b	V-ring					
159	V-ring					
	Kit, terminal board			96030209	1	
176	Terminal					
176	Terminal board					
178	Connecting piece					
179	Cable shoe					
180a	Slot cheese head screw		Designation: COM	IBI TORX T25		
			Length (mm): 10			
			Thread: M5			
180	Wire clamp					
	Kit, terminal box cover			96796215	1	
164	Terminal box cover w/gasket					
166	Pan head thread forming screw					
1a	Motor stool			96547431 1		рс
2	Pump head			98593646 1		рс
3	Upper chamber cpl.			98633870 1		рс
47c	Bulk, Bush (10 pcs)			99321194	1	
· 4	Bulk, Intermediate chamber cpl. (3 pcs)			99481487 2		рс
4a	Bulk, Intermediate chamber cpl. (5 pcs)			99262783 1		pc
4	Bulk, Intermediate chamber cpl. (10 pcs)			99481488 2		pc
45a	Bulk, Neck ring cpl. (10 pcs)			96547322		•
4	Intermediate chamber cpl.			98633840 2		рс
6b	Base cpl.		Rubber type: EPDM	96587693 1		pc
25	Bulk, Plug (10 pcs)			96536013		F -
37	Bulk, O-ring (10 pcs)			96536149		
38	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815		
	,		Material type: EPDM			
			Thickness: 2,4			
38	Bulk, O-ring (50 pcs)		Diameter: 16,3	99412727	4	
	3 (3 - 1 7		Material type: EPDM			
			Thickness: 2,4			
56	Base plate		,	96587691	1	
7a	Bulk, Socket button head screw (10 pcs)			96549696 4		рс
7	Bulk, Coupling guard (10 pcs)			96603300 2		рс
. 8	Coupling cpl.		Dimension: 22/38	96587705 1		рс
18	Bulk, Air vent screw (5 pcs)			96547461 1		рс
18	Air vent screw			95061351 1		рс
25	Bulk, Plug (10 pcs)			96536013 1		рс
26c	Bulk, Washer (4 pcs)		Designation: DIN 125A	99262704 2		pc
_00	(Thickness: 1,6	30202704 2		۳۰
26c	Washer		Designation: DIN 125A	96586880 2		рс
_00			Thickness: 1,6	20000000 2		~~
26b	Bulk, Hex socket head cap screw (10 pcs)		98931380 2		рс
26a	Strap cpl.	,	Length (mm): 289	98983859 2		pc
_00	and oh.		Thread: M8	3000000 Z		۲۰
26	Staybolt		Length (mm): 492	98976683 4		рс
20	Staybolt		Thread: M16	30370003 4		ρU
28	Bulk, Hex socket head cap screw (10 pcs	1	Designation: DIN 912	96536147 4		no
20	buin, tien sounet flead cap sciew (10 pcs	,	Length (mm): 50	30330147 4		рс
			Thread: M10			
20	Pulk How hood paraw (20 pea)			06600474 4		nc
28	Bulk, Hex head screw (20 pcs)		Length (mm): 45 MM	96620474 4		рс
			Thread: M12			



	Pos	Description	Annotation	Classification Data	Part no.	Qty	. Unit
	36	Bulk, Nut (20 pcs)		Thread: M12	96620479	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.			98633886	1	pcs
	45	Bulk, Seal ring (10 pcs)			979152	217	1
	65	Bulk, Top f/neck ring (10 pcs)			965349	31	1
+	47a	Bulk, Bearing cpl. (5 pcs)			99366796	1	pcs
+	47a	Bulk, Bearing cpl. (10 pcs)			96534932	1	pcs
-	49e	Impeller cpl.			98394326	4	pcs
	48	Bulk, Nut (3 pcs)			992626	088	1
	48	Bulk, Nut (10 pcs)			992626	83	1
	48	Bulk, Nut (10 pcs)			965360	16	1
	49b	Bulk, Split cone (10 pcs)			965360	10	1
-	49	Bulk, Impeller (10 pcs)			965349	33	1
	49c	Bulk, Wear ring (10 pcs)			965	349	30
	55	Outer sleeve		Outer diameter: 197	98896484	1	pcs
				Length (mm): 305,5			
	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	86	1
+	105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984070	1	pcs
	203	Bulk, Lock ring (4 pcs)			96534918	1	pcs