

**Date:** 17/02/2019

Qty. | Description

1 **CRN 32-5 A-F-A-E-HQQE** 



Product No.: 96122359

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

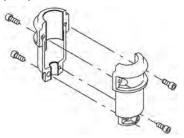
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

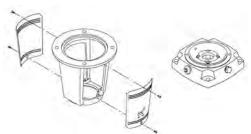
The colour code for the finished product is NCS 9000/RAL 9005.

### **Pump**

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



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



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.



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Primary seal:

· Rotating seal ring material: silicon carbide (SiC)

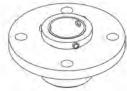
• Stationary seat material: silicon carbide (SiC)

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.

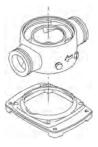




The shaft seal is retained in the pump head by a cover and screws. It can be replaced without removing the motor.

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 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



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### Qty. | Description

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

Technical:

Pump speed on which pump data are based: 2924 rpm

Rated flow: 30 m³/h
Rated head: 76 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE
Approvals on nameplate: CE, EAC,ACS

Curve tolerance: CE, EAC,ACS

ISO9906:2012 3B

Materials:

Base: Stainless steel

EN 1.4408 AISI 316

Impeller: Stainless steel

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: FF300

**Electrical data:** 

Motor standard: IEC
Motor type: 160MB
IE Efficiency class: IE3
Rated power - P2: 11 kW
Power (P2) required by pump: 11 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-415D/660-690Y V Rated current: 20,8-19,8/12,0-11,8 A

Starting current: 660-780 %
Cos phi - power factor: 0.88-0.84
Rated speed: 2940-2950 rpm
Efficiency: IE3 91,2%
Motor efficiency at full load: 91.2-91.2 %
Motor efficiency at 3/4 load: 91.8 %
Motor efficiency at 1/2 load: 91.3 %

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: 160 kg Gross weight: 193 kg

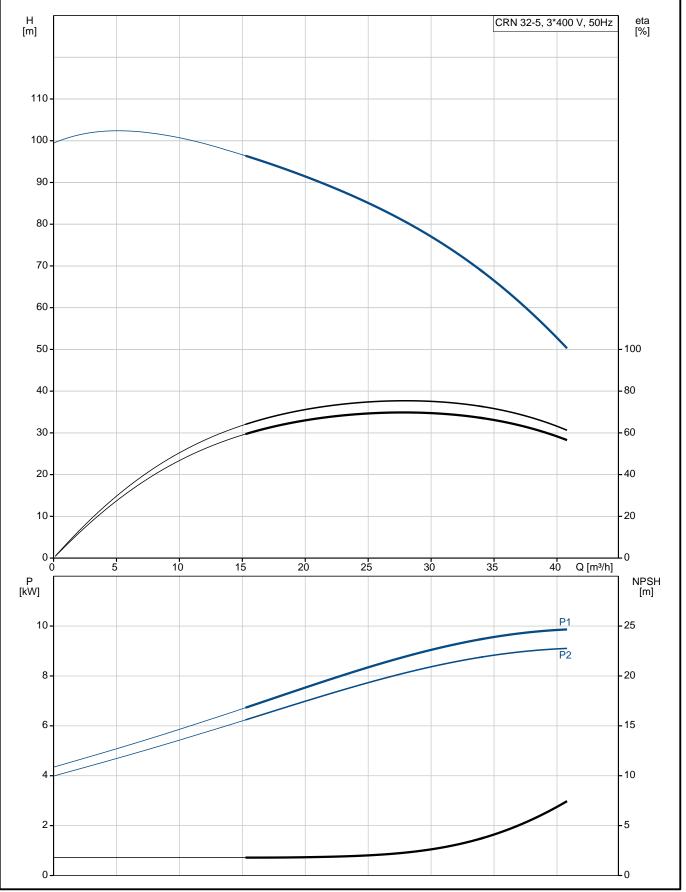


		Date:	17/02/2019	
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Danish VVS No.:	385916050			
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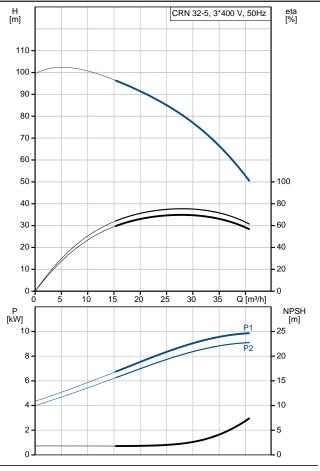
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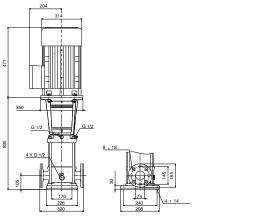
## 96122359 CRN 32-5 A-F-A-E-HQQE 50 Hz

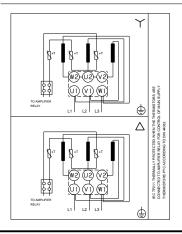




Product name:	December 1	Walara
Product name:         CRN 32-5 A-F-A-E-HQDE           Product No:         96122359           EAN number:         5700396684031           Technical:         2924 rpm           Pump speed on which pump data are based:         2924 rpm           Rated flow:         30 m³/h           Rated head:         76 m           Head max:         97.8 m           Stages:         5           Impellers:         5           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:         B           Materials:         B           Base:         Stainless steel           EN 1.4408         AISI 316           Impeller:         Stainless steel           EN 1.4401         AISI 316           Material code:         A           Code for rubber:         E           Bearing:         SIC      <	Description General information:	Value
Product No: 96122359 EAN number: 5700396684031  Technical:  Pump speed on which pump data are based: 76 m Rated flow: 30 m³/h Rated head: 76 m Head max: 97.8 m Stages: 5 Impellers: 5 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: B  Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AAISI 316  Material code: A Code for rubber: E 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 Type of connection: DIN Size of inlet connection: DN 65 Size of outlet connection: PN 40 Plange size for motor: FF300 Connect code: F Liquid: Water Liquid temperature during operation: 20 °C Liquid temperature during operation: P98.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 160MB IE Efficiency class: IE3	General Information.	CBN 32-5
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AISI 316  Material code: Code for rubber: Bearing: SIC Support bearing: Installation:  Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: Size of inlet connection: DN 65 Size of outlet connection: Pressure rating for pipe connection: Pressure rating for pipe connection: FF300 Connect code: F Liquid: Pumped liquid: Vater Liquid temperature range: -40 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³  Electrical data: Motor standard: IEC Motor type: IE Efficiency class: IE3	impelier.	
Material code:  Code for rubber:  Bearing:  SIC  Support bearing:  Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection:  Size of inlet connection:  DIN  Size of outlet connection:  Pressure rating for pipe connection:  Pressure rating for pipe connection:  Frange size for motor:  Connect code:  F  Liquid:  Pumped liquid:  Vater  Liquid temperature range:  -40 120 °C  Liquid temperature during operation:  20 °C  Density:  Bectrical data:  Motor standard:  IEC  Motor type:  IE Efficiency class:  IE3		
Code for rubber:  Bearing: SIC Support bearing: Graflon  Installation:  Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: Size of inlet connection: DIN Size of outlet connection: DN 65 Pressure rating for pipe connection: PN 40 Flange size for motor: Connect code: F Liquid: Pumped liquid: Uvater Liquid temperature during operation: DN 65 Pressity: Pumped liquid: Liquid temperature during operation: DN 65  Flectrical data: Motor standard: IEC Motor type:  IE Efficiency class:  IE3	Material code:	
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: FF300  Connect code: F  Liquid:  Pumped liquid: Water  Liquid temperature range: -40 120 °C  Liquid temperature during operation: 20 °C  Density: 998.2 kg/m³  Electrical data:  Motor standard: IEC  Motor type: 160MB  IE Efficiency class: IE3		
Support bearing:  Installation:  Maximum ambient temperature:  Maximum operating pressure:  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:  Pressure rating for pipe connection:  Flange size for motor:  Connect code:  Liquid:  Pumped liquid:  Under the pressure rating operation:  Vater  Liquid temperature during operation:  DN 65  F  Liquid temperature during operation:  Liquid temperature during operation:  Liquid temperature during operation:  Liquid temperature during operation:  Liquid temperat		_
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: FF300  Connect code: F  Liquid:  Pumped liquid: Water  Liquid temperature range: -40 120 °C  Liquid temperature during operation: 20 °C  Density: 998.2 kg/m³  Electrical data:  Motor standard: IEC  Motor type: 160MB  IE Efficiency class: IE3	•	
Maximum ambient temperature:  Maximum operating pressure:  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:  Pressure rating for pipe connection:  PN 40  Flange size for motor:  Connect code:  F  Liquid:  Pumped liquid:  Under temperature range:  Liquid temperature during operation:  DN 65  FESSURE (FROM TO		Cidilon
Maximum operating pressure:  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:  PN 40  Flange size for motor:  Connect code:  F  Liquid:  Pumped liquid:  Vater  Liquid temperature range:  Liquid temperature during operation:  DN 65  F  Liquid temperature during operation:  DN 65  F  Liquid temperature range:  Liquid temperature luring operation:  Density:  998.2 kg/m³  Electrical data:  Motor standard:  Motor type:  160MB  IE Efficiency class:		60 °C
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:  Pressure rating for pipe connection:  PN 40  Flange size for motor:  Connect code:  F  Liquid:  Pumped liquid:  Vater  Liquid temperature range:  -40 120 °C  Liquid temperature during operation:  Density:  998.2 kg/m³  Electrical data:  Motor standard:  IEC  Motor type:  160MB  IE Efficiency class:	•	
Type of connection:  DIN  Size of inlet connection:  DN 65  Size of outlet connection:  Pressure rating for pipe connection:  PN 40  Flange size for motor:  Connect code:  F  Liquid:  Pumped liquid:  Vater  Liquid temperature range:  -40 120 °C  Liquid temperature during operation:  Density:  Blectrical data:  Motor standard:  IEC  Motor type:  IES  IES		
Size of inlet connection:  Size of outlet connection:  DN 65  Pressure rating for pipe connection:  PN 40  Flange size for motor:  Connect code:  F  Liquid:  Pumped liquid:  Liquid temperature range:  Liquid temperature during operation:  Density:  Pelectrical data:  Motor standard:  IEC  Motor type:  IES		
Size of inlet connection:  Size of outlet connection:  DN 65  Pressure rating for pipe connection:  PN 40  Flange size for motor:  Connect code:  F  Liquid:  Pumped liquid:  Liquid temperature range:  Liquid temperature during operation:  Density:  Pelectrical data:  Motor standard:  IEC  Motor type:  IES	Type of connection:	DIN
Pressure rating for pipe connection:  Flange size for motor:  Connect code:  F  Liquid:  Pumped liquid:  Liquid temperature range:  Liquid temperature during operation:  Density:  Plectrical data:  Motor standard:  Motor type:  IE Efficiency class:  PN 40  Water  L-40 120 °C  20 °C  998.2 kg/m³  Electrical data:  Motor standard:  IEC	• •	
Flange size for motor:  Connect code:  F  Liquid:  Pumped liquid:  Liquid temperature range:  Liquid temperature during operation:  Density:  Blectrical data:  Motor standard:  Motor type:  IE Efficiency class:  FF300  F 40  Power 4  FF300  F 40  FE300  Water  Liquid temperature during operation:  20 °C  998.2 kg/m³  Electrical data:  Motor standard:  IEC  Motor type:  160MB  IE Efficiency class:	Size of outlet connection:	DN 65
Flange size for motor:  Connect code:  F  Liquid:  Pumped liquid:  Liquid temperature range:  Liquid temperature during operation:  Density:  Blectrical data:  Motor standard:  Motor type:  IE Efficiency class:  FF300  F 40  Power 4  FF300  F 40  FE300  Water  Liquid temperature during operation:  20 °C  998.2 kg/m³  Electrical data:  Motor standard:  IEC  Motor type:  160MB  IE Efficiency class:	Pressure rating for pipe connection:	PN 40
Liquid: Pumped liquid: Uiquid temperature range: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: 160MB IE Efficiency class: IE3		FF300
Pumped liquid: Water Liquid temperature range: -40 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³  Electrical data:  Motor standard: IEC Motor type: 160MB IE Efficiency class: IE3	Connect code:	F
Liquid temperature range:  Liquid temperature during operation:  Density:  998.2 kg/m³  Electrical data:  Motor standard:  Motor type:  160MB  IE Efficiency class:  IE3	Liquid:	
Liquid temperature during operation: 20 °C  Density: 998.2 kg/m³  Electrical data:  Motor standard: IEC  Motor type: 160MB  IE Efficiency class: IE3	Pumped liquid:	Water
Density: 998.2 kg/m³  Electrical data:  Motor standard: IEC  Motor type: 160MB  IE Efficiency class: IE3	Liquid temperature range:	-40 120 °C
Electrical data:  Motor standard: IEC  Motor type: 160MB  IE Efficiency class: IE3	Liquid temperature during operation:	20 °C
Motor standard: IEC Motor type: 160MB IE Efficiency class: IE3	Density:	998.2 kg/m³
Motor type: 160MB IE Efficiency class: IE3	Electrical data:	
IE Efficiency class: IE3	Motor standard:	IEC
,	Motor type:	
Rated power - P2: 11 kW		IE3
	Rated power - P2:	11 kW
Power (P2) required by pump: 11 kW	Power (P2) required by pump:	11 kW
Mains frequency: 50 Hz	Mains frequency:	50 Hz
Rated voltage: 3 x 380-415D/660-690Y	Rated voltage:	
V		
Rated current: 20,8-19,8/12,0-11,8 A	Kated current:	∠∪,8-19,8/12,U-11,8 A







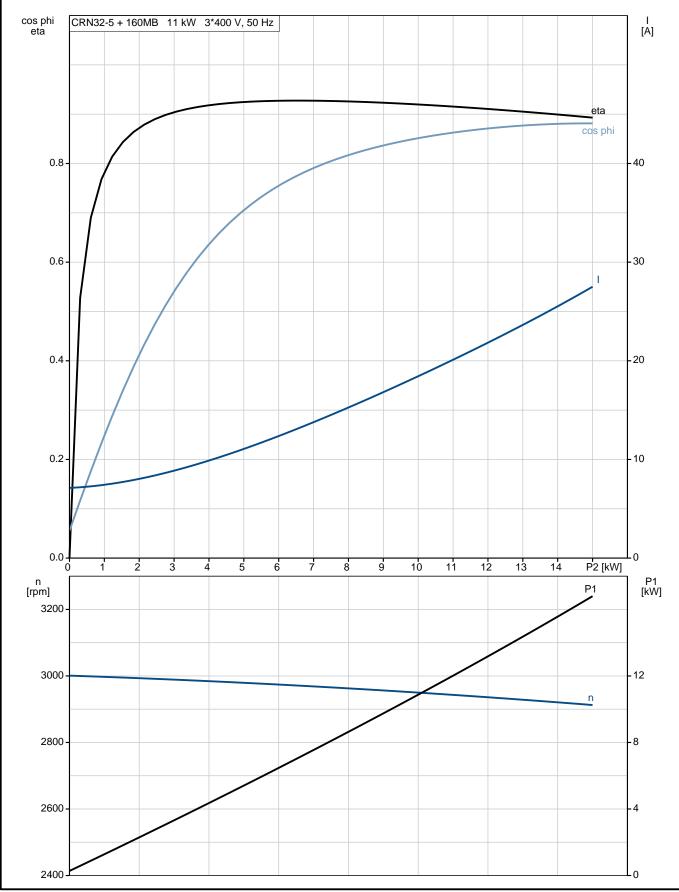


Description	Value
Starting current:	660-780 %
Cos phi - power factor:	0.88-0.84
Rated speed:	2940-2950 rpm
Efficiency:	IE3 91,2%
Motor efficiency at full load:	91.2-91.2 %
Motor efficiency at 3/4 load:	91.8 %
Motor efficiency at 1/2 load:	91.3 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17524
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	160 kg
Gross weight:	193 kg
Shipping volume:	0.495 m³
Danish VVS No.:	385916050



**Date:** 17/02/2019

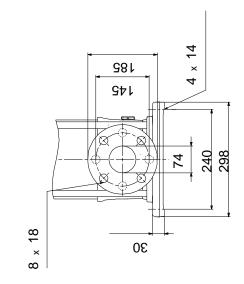
## 96122359 CRN 32-5 A-F-A-E-HQQE 50 Hz

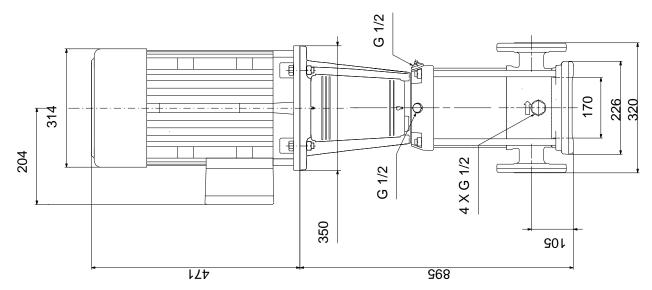




**Date:** 17/02/2019

# 96122359 CRN 32-5 A-F-A-E-HQQE 50 Hz





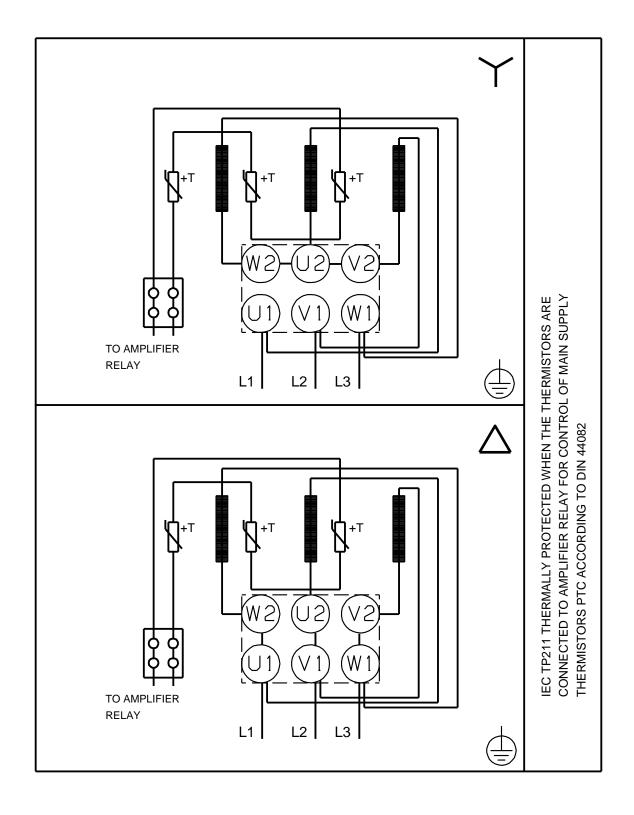
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

17/02/2019

### 96122359 CRN 32-5 A-F-A-E-HQQE 50 Hz

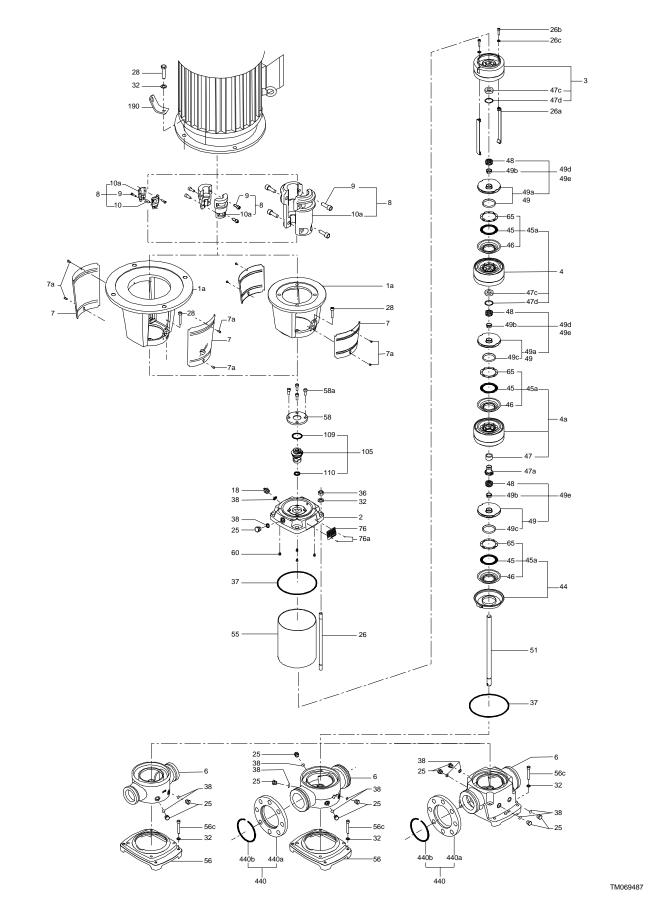


Note! All units are in [mm] unless others are stated.



**Date:** 17/02/2019

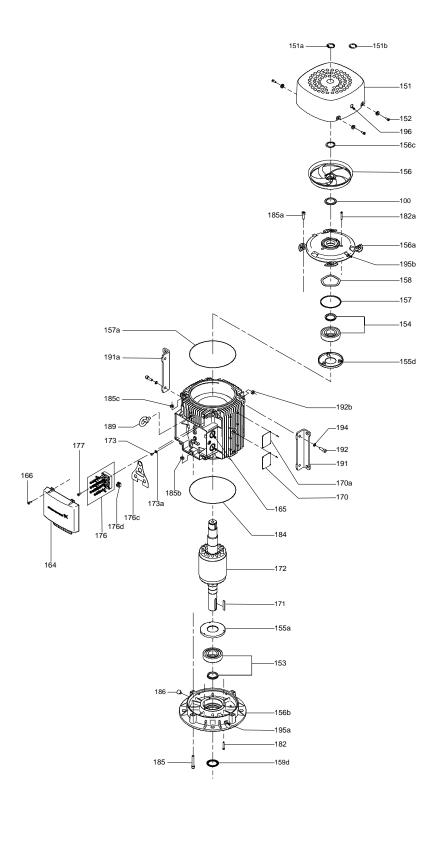
(tm069487 for LACR model B standard)



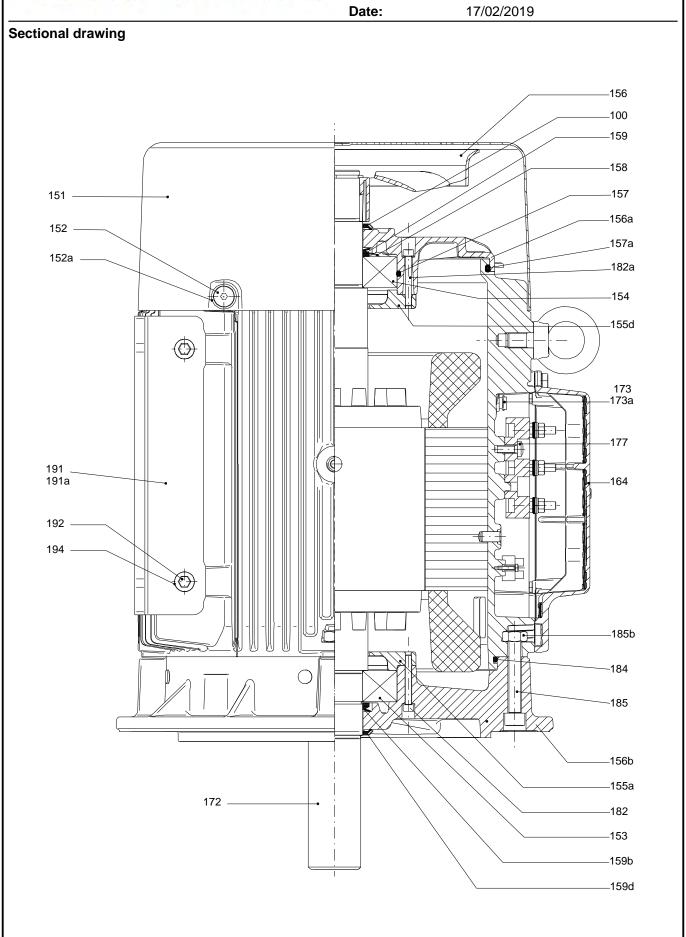


**Date:** 17/02/2019

**Exploded view** 









**Date:** 17/02/2019

# Spare parts CRN 32-5, Product No. 96122359 Valid from 3.3.2014 (1410)

Pos	Description	Annotation	Classification Data	Part no.	Qty.	
_	Base			98925061	1	pcs
6	Base			00440000	. 1	
80	Kit, chamber stack			96416296		pcs
80	Chamber stack				1	l
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: D	IN 125A		
			Thickness: 1,6			
26b	Hex socket head cap screw					
26a	Strap cpl.		Length (mm): 3	359		
			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					
49	Impeller Impeller hub					



Pos	Description	Annotation	Classification Data	Part no.	Qty	. Un
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					
47a	Bearing cpl.					1
	Driver					
	Holder					
	Disc spring					
	Bearing ring					
	Kit, coupling			96416592	1	pcs
	Adjusting fork					1
8	Coupling cpl.		Dimension: 22/42			1
9	Hex socket head cap screw		Designation: DII	N 912		
	,		Length (mm): 25			
			Thread: M10			
10a	Coupling half					
	Kit, coupling guard			96505135	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 91			4
			Length (mm): 25			
			Thread: M10			
58	Cover					1
	Kit, gaskets			96416597	1	pcs
	Adjusting fork					1
37	O-ring					2
38	O-ring		Diameter: 16,3			2
	- ····g		Material type: EPDM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3			4
	<u> </u>		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					1
-	Spindle					
	Plug					
25	Plug					4
25	Plug					1
20	ı iug					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	
		Material type: EPDM			
		Thickness: 2,4			
	Kit, shaft seal HQQE	96	525458 1		рс
	Grinding device			1	•
105	Shaft seal	Material type: HQQE		1	
	Adjusting fork	material type. Hade			
109	O-ring				
110	O-ring	Diameter: 21,5			
110	O-filing	Material type: EPDM			
		Thickness: 4,25			
	Kitan manta	·	107151 1		
45	Kit, wear parts	98	497451 1		pc
45	Seal ring			7	
47d	Lock ring			7	
47c	Bush			5	
49c	Wear ring			7	
65	Top f/neck ring			7	
	Motor	85	904227 1		рс
	Kit, bearing cpl.		96796676	3 1	
32b	Waved washer				
153	Angular-contact bearing				
154	Ball bearing				
157	O-ring				
159	V-ring				
	Kit, bearing plate		96796664	1	
155.a	Bearing cover				
208a	Gasket				
208	Hex socket head cap screw	Designation: DIN912	2		
	335	Length (mm): 40			
		Thread: M5			
	Kit, eyebolt	Till Cau. 1910	96796712	) 1	
189			50130112	. 1	
109	Eyebolt		0670005		
150 -	Kit, fan		96796654	. 1	
156.c	Retaining ring				
156	Fan				
	Kit, fan cover		96796647	1	
151	Fan cover				
152.a	Rubber bush				
152	Hex head cap screw				
196	Diaphragm				
	Kit, flange		96796662	1	
156.b	Flange				
159.b	Seal ring				
185.b	Nut				
185	Hex socket head cap screv	,			
100	i ion soonot ricau cab sciev				



Pos	Description	Amountion	Classification Data	Part no.	Qty		υn
195.a	Grease nipple						
	Kit, gaskets			967985	808	1	
184	O-ring		Diameter: 235				
	Kit, lubrication nipple			967966	371	1	
195.b	Grease nipple						
195.a	Grease nipple						
	Kit, ND-end shield cpl.			967966	69	1	
32b	Waved washer			307300	,00	•	
156.a	End shield NDE						
157	O-ring						
159	V-ring						
185.c	Nut						
185.a	Hex socket head cap screw						
195.b	Grease nipple						
	Kit, shaft seal			968434	159	1	
159.b	V-ring						
159	V-ring						
	Kit, terminal board			967966	557	1	
	Terminal connection			337300		•	
20	Washer						
36	Hex nut						
173	Torx Screw						
176.d	Terminal board						
176	Terminal board						
177	Torx Screw						
	Kit, terminal box cover			967966	559	1	
164	Terminal box cover						
273a	Pan head thread forming screw						
1a	Motor stool			98993921	1		рс
2	Pump head			98593646			pc
3	•			98633870			•
	Upper chamber cpl.						рс
47c	Bulk, Bush (10 pcs)			993211			
4	Bulk, Intermediate chamber cpl. (3 pcs)			99481487	_		рс
4a	Bulk, Intermediate chamber cpl. (5 pcs)			99262783	1		рс
4	Bulk, Intermediate chamber cpl. (10 pcs)			99481488	3		рс
45a	Bulk, Neck ring cpl. (10 pcs)			965473	322	1	
4	Intermediate chamber cpl.			98633840	3		рс
6b	Base cpl.		Rubber type: EPDM	96587693	1		pc
25	Bulk, Plug (10 pcs)			965360			
37	Bulk, O-ring (10 pcs)			965361			
			Diamotor: 16.2				
38	Bulk, O-ring (10 pcs)		Diameter: 16,3	991988	010	4	
			Material type: EPDM				
	D. II. O. i. (70		Thickness: 2,4				
38	Bulk, O-ring (50 pcs)		Diameter: 16,3	994127	27	4	
			Material type: EPDM				
			Thickness: 2,4				
56	Base plate			965876	91	1	
7a	Bulk, Socket button head screw (10 pcs)			96549696	4		рс
7	Bulk, Coupling guard (10 pcs)			96603279			pc
8	Coupling cpl.		Dimension: 22/42	96587704			рс
18	Bulk, Air vent screw (5 pcs)			96547461			рс
	Air vent screw (5 pcs)			95061351			•
18							рс
25	Bulk, Plug (10 pcs)			96536013			рс
26c	Bulk, Washer (4 pcs)		Designation: DIN 125A	99262704	2		рс
			Thickness: 1,6				
26c	Washer		Designation: DIN 125A	96586880	2		рс
			Thickness: 1,6				
			•	98931380			



P	os	Description	Annotation	Classification Data	Part no.	Qty	. Unit
26	6a	Strap cpl.		Length (mm): 359	98983860	2	pcs
				Thread: M8			
26	6	Bulk, Staybolt (4 pcs)		Length (mm): 562	98434923	4	pcs
				Thread: M16			
26	6	Staybolt		Length (mm): 562	98976684	4	pcs
				Thread: M16			
28	8.a	Bulk, Hex head screw (20 pcs)			96620478	4	pcs
28	8	Bulk, Hex socket head cap screw (10 pcs)		Designation: DIN 912	96536147	4	pcs
				Length (mm): 50			
				Thread: M10			
32	2	Bulk, Washer (100 pcs)		Designation: DIN 125 A	98923051	8	pcs
				Internal diameter: 17			
				Outer diameter: 30			
				Thickness: 3			
36	6	Bulk, Hex nut (20 pcs)		Thread: M16	96620480	4	pcs
37	7	Bulk, O-ring (10 pcs)			96536149	1	pcs
38	8	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815	2	pcs
				Material type: EPDM			
				Thickness: 2,4			
38	8	Bulk, O-ring (50 pcs)		Diameter: 16,3	99412727	2	pcs
				Material type: EPDM			
				Thickness: 2,4			
- 44	4	Suction interconnector cpl.			98633886	1	pcs
45	5	Bulk, Seal ring (10 pcs)			979152	217	1
65	5	Bulk, Top f/neck ring (10 pcs)			965349	931	1
+ 47	7a	Bulk, Bearing cpl. (5 pcs)			99366796	1	pcs
+ 47	7a	Bulk, Bearing cpl. (10 pcs)			96534932	1	pcs
49	9e	Impeller cpl.			98394326	5	pcs
48	8	Bulk, Nut (3 pcs)			992626	086	1
48	8	Bulk, Nut (10 pcs)			992626	683	1
48	8	Bulk, Nut (10 pcs)			965360	016	1
49	9b	Bulk, Split cone (10 pcs)			965360	010	1
49	9	Bulk, Impeller (10 pcs)			965349	933	1
49	9c	Bulk, Wear ring (10 pcs)			96	5349	30
55	5	Outer sleeve		Outer diameter: 197	99044961	1	pcs
				Length (mm): 375,5			•
58	8	Cover			98893158	1	pcs
60	0	Bulk, Spring (20 pcs)			96536032	4	pcs
- 10	05	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984086	1	pcs
		Adjusting fork			965878	396	1
10	09	Bulk, O-ring (10 pcs)			965475	586	1
+ 10	05	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984070	1	pcs
	03	Bulk, Lock ring (4 pcs)		••	96534918		pcs