

Date: 17/02/2019

Qty. | Description

1 | CRN 32-9-2 A-F-A-E-HQQE



Product No.: 96122366

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

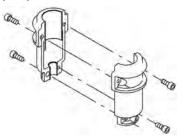
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

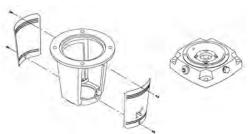
The colour code for the finished product is NCS 9000/RAL 9005.

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)

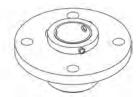
• Stationary seat material: silicon carbide (SiC)

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.

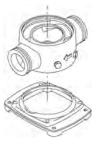




The shaft seal is retained in the pump head by a cover and screws. It can be replaced without removing the motor.

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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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: 2934 rpm

Rated flow: 30 m³/h
Rated head: 131.6 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE
Approvals on nameplate: CE, EAC,

Approvals on nameplate: CE, EAC,ACS Curve tolerance: 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: 30 bar

Max pressure at stated temp: 30 bar / 120 °C

30 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: 160LB
IE Efficiency class: IE3
Rated power - P2: 18.5 kW
Power (P2) required by pump: 18.5 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-415D/660-690Y V Rated current: 34,5-32,5/20,0-18,8 A

Starting current: 830-980 %
Cos phi - power factor: 0.89-0.85
Rated speed: 2940-2950 rpm
Efficiency: IE3 92,4%
Motor efficiency at full load: 92.4-92.4 %
Motor efficiency at 3/4 load: 93.2 %
Motor efficiency at 1/2 load: 93.2 %

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: 200 kg Gross weight: 239 kg

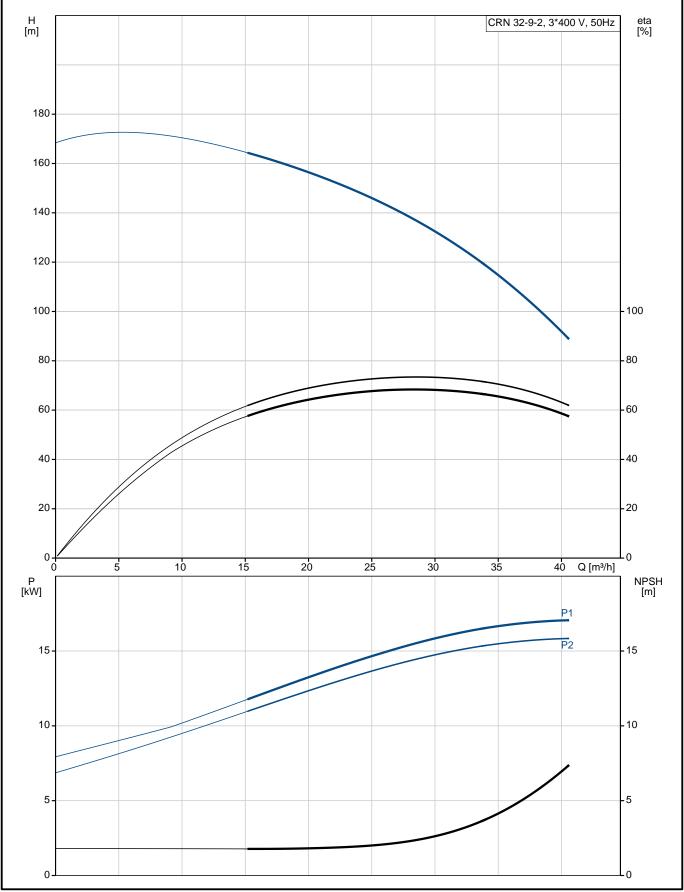


			Date:	17/02/2019	
Qty.	Description				
	Shipping volume: Danish VVS No.:	0.805 m³ 385916092			



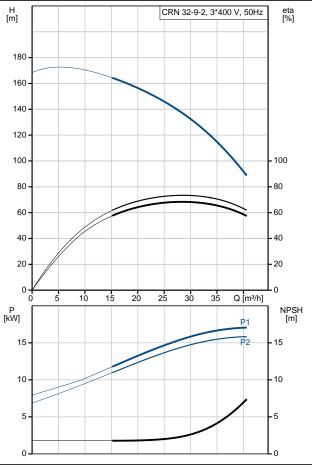
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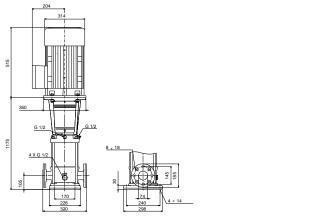
96122366 CRN 32-9-2 A-F-A-E-HQQE 50 Hz

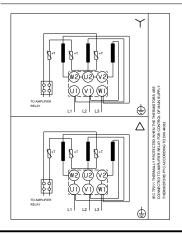




Description Value General information: CRN 32-9-2 A-F-A-E-HQCE Product name: A-F-A-E-HQCE Product No: 96122366 EAN number: 5700396684109 Technical: 2934 rpm Pump speed on which pump data are based: 30 m³/h Rated flow: 30 m³/h Rated head: 131.6 m Head max: 168 m Stages: 9 Impellers: 9 Number of reduced-diameter impellers: 2 Low NPSH: N Number of reduced-diameter impellers: 2 Low NPSH: N Number of reduced-diameter impellers: 2 Low NPSH: N Numpor of reduced-diameter impellers: 2 Low NPSH: N Numpor of reduced-diameter impellers: 2 Low NPSH: N Nump or installation: N Maderial al ranagement: Single Code for shaft seal: HQQE Approvate seal: Stainless steel		
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Code for rubber: Bearing: Support bearing: Graflon Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 30 bar / 120 °C 30 bar / -40 °C Type of connection: DIN Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Pressure rating for pipe connection: Ff300 Connect code: F Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Pelectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Rated voltage: Rated voltage: Bearing: SIC Graflon	Material code:	
Bearing: SIC Support bearing: Graflon Installation: Maximum ambient temperature: 60 °C Maximum operating pressure: 30 bar Max pressure at stated temp: 30 bar / 120 °C 30 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: 160LB IE Efficiency class: IE3 Rated power - P2: 18.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D/660-690Y V		* *
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Size of connection: Size of inlet connection: Pressure rating for pipe connection: Pressure rating for pipe connection: Flange size for motor: Connect code: F Liquid: Pumped liquid: Under temperature during operation: Density: Size of coulet connection: Power (P2) required by pump: Maximum ambient temperature: 60 °C 30 bar / 120 °C 30 bar / 120 °C DN 65 FF300 PN 40 FF300 F Under temperature connection: FF300 F Liquid: Water Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 160LB IE Sfficiency class: Rated power - P2: Power (P2) required by pump: 18.5 kW Mains frequency: Nated voltage: Nated voltage: Signal on the standard of t		SIC
Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 30 bar / 120 °C 30 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: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Density: Density: Motor standard: Motor standard: IEC Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Rated voltage: Mains frequency: Rated voltage: Mains frequency: So Dan Size Go °C Density: Bi Co Connect code: IE Size Bi Size		
Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 30 bar / 120 °C 30 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: Liquid temperature range: Liquid temperature during operation: Density: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: IEC Motor type: IES Rated power - P2: Power (P2) required by pump: Rated voltage: B 0 °C 30 bar / 120 °C DN 65 PN 40 FF300 F CONDENSITE SENSITE SENSI		Cianon
Maximum operating pressure: Max pressure at stated temp: 30 bar / 120 °C 30 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: Liquid temperature range: Liquid temperature during operation: Dn 65 FF300 Connect code: F Liquid: Pumped liquid: Liquid temperature ange: Liquid temperature luring operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor standard: IEC Motor type: 160LB IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: So Hz Rated voltage: 3 x 380-415D/660-690Y		60 °C
Max pressure at stated temp: 30 bar / 120 °C 30 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: Liquid temperature range: Liquid temperature during operation: Density: Density: P98.2 kg/m³ Electrical data: Motor standard: Motor type: IEC Motor type: IES Rated power - P2: Power (P2) required by pump: Rated voltage: 3 x 380-415D/660-690Y V		
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: Liquid temperature range: Liquid temperature during operation: Density: Density: Pelectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Pand 3 x 380-415D/660-690Y V Rated voltage:		
Type of connection: Size of inlet connection: DN 65 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: Density: Pelectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Rated voltage: DN 65 DN 65 PN 40 FF300 Connect code: F Liquid: Water Liquid: Vater Liquid temperature during operation: 20 °C 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 160LB IE 3 Rated power - P2: 18.5 kW Power (P2) required by pump: Nains frequency: So Hz Rated voltage: Rated voltage:	wax pressure at stated temp.	
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: Density: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Rated voltage: DN 65 DN 65 DN 65 PN 40 FF300 FC Connect code: F Uater Water -40 120 °C 20 °C 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 160LB IE 3 Rated power - P2: Power (P2) required by pump: Na.5 kW Mains frequency: S0 Hz Rated voltage: Rated voltage:	Type of connection:	
Size of outlet connection: 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: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Rated voltage: DN 65 PN 40 FF300 FC V 30 FE FC Water Liquid: Water Liquid temperature during operation: 20 °C P98.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 160LB IE SH Rated power - P2: Power (P2) required by pump: 18.5 kW Mains frequency: S0 Hz Rated voltage: 3 x 380-415D/660-690Y V		
Pressure rating for pipe connection: Flange size for motor: Connect code: F Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Pelectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Rated voltage: PN 40 FF300 FC POW 40 FF300 Vater Liquid temperature during operation: 20 °C		
Flange size for motor: Connect code: F Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Pelectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Rated voltage: FF300 FF30		
Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Rated voltage: F Water -40 120 °C 20 °C Density: 998.2 kg/m³ EEC 160LB IEC 160LB IE3 Rated power - P2: 18.5 kW Alians frequency: 50 Hz Rated voltage: Rated voltage:		
Liquid:Pumped liquid:WaterLiquid temperature range:-40 120 °CLiquid temperature during operation:20 °CDensity:998.2 kg/m³Electrical data:Motor standard:IECMotor type:160LBIE Efficiency class:IE3Rated power - P2:18.5 kWPower (P2) required by pump:18.5 kWMains frequency:50 HzRated voltage:3 x 380-415D/660-690Y		
Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: 160LB IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Water -40 120 °C 20 °C PowC 180LB IEC 180LB 183 Rated Power - P2: 18.5 kW Power (P2) required by pump: 3 x 380-415D/660-690Y		<u> </u>
Liquid temperature range: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: 160LB IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: -40 120 °C 20 °C 998.2 kg/m³ IEC Motor type: 160LB 18.5 kW Power (P2) required by pump: 3 x 380-415D/660-690Y		100
Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: 160LB IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: 20 °C 998.2 kg/m³ IEC 160LB 185. 183 Rated 3 Rated power - P2: 18.5 kW Aligned Power (P2) required by pump: So Hz Rated voltage: 20 °C 180.2 kg/m³ 180.2 kg/		
Density: 998.2 kg/m³ Electrical data: IEC Motor standard: IEC Motor type: 160LB IE Efficiency class: IE3 Rated power - P2: 18.5 kW Power (P2) required by pump: 18.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D/660-690Y		
Electrical data: Motor standard: IEC Motor type: 160LB IE Efficiency class: IE3 Rated power - P2: 18.5 kW Power (P2) required by pump: 18.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D/660-690Y		
Motor standard: IEC Motor type: 160LB IE Efficiency class: IE3 Rated power - P2: 18.5 kW Power (P2) required by pump: 18.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D/660-690Y V	-	998.2 kg/m³
Motor type: 160LB IE Efficiency class: IE3 Rated power - P2: 18.5 kW Power (P2) required by pump: 18.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D/660-690Y V		
IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: IE3 18.5 kW 18.5 kW 3 x 380-415D/660-690Y		
Rated power - P2: 18.5 kW Power (P2) required by pump: 18.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D/660-690Y V		160LB
Power (P2) required by pump: 18.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D/660-690Y	IE Efficiency class:	IE3
Mains frequency: 50 Hz Rated voltage: 3 x 380-415D/660-690Y		
Rated voltage: 3 x 380-415D/660-690Y V	Power (P2) required by pump:	18.5 kW
Rated voltage:	Mains frequency:	50 Hz
Rated current: 34,5-32,5/20,0-18,8 A	Rated voltage:	
	Rated current:	34,5-32,5/20,0-18,8 A







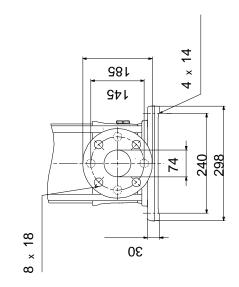


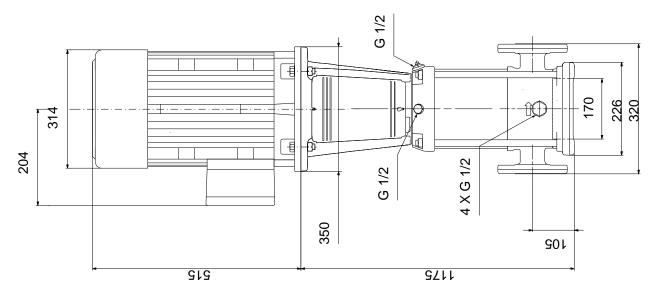
Description	Value
Starting current:	830-980 %
Cos phi - power factor:	0.89-0.85
Rated speed:	2940-2950 rpm
Efficiency:	IE3 92,4%
Motor efficiency at full load:	92.4-92.4 %
Motor efficiency at 3/4 load:	93.2 %
Motor efficiency at 1/2 load:	93.2 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17528
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	200 kg
Gross weight:	239 kg
Shipping volume:	0.805 m ³
Danish VVS No.:	385916092



Date: 17/02/2019

96122366 CRN 32-9-2 A-F-A-E-HQQE 50 Hz





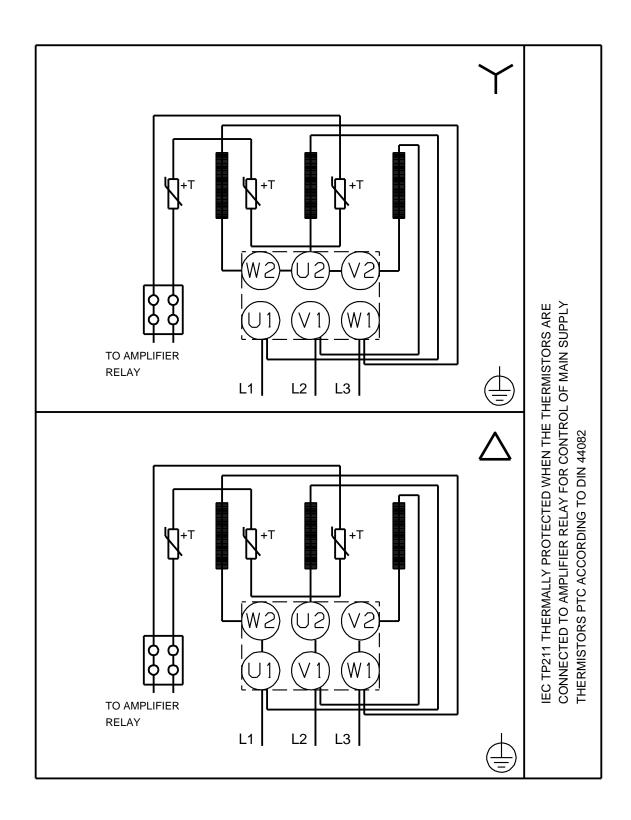
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

17/02/2019

96122366 CRN 32-9-2 A-F-A-E-HQQE 50 Hz

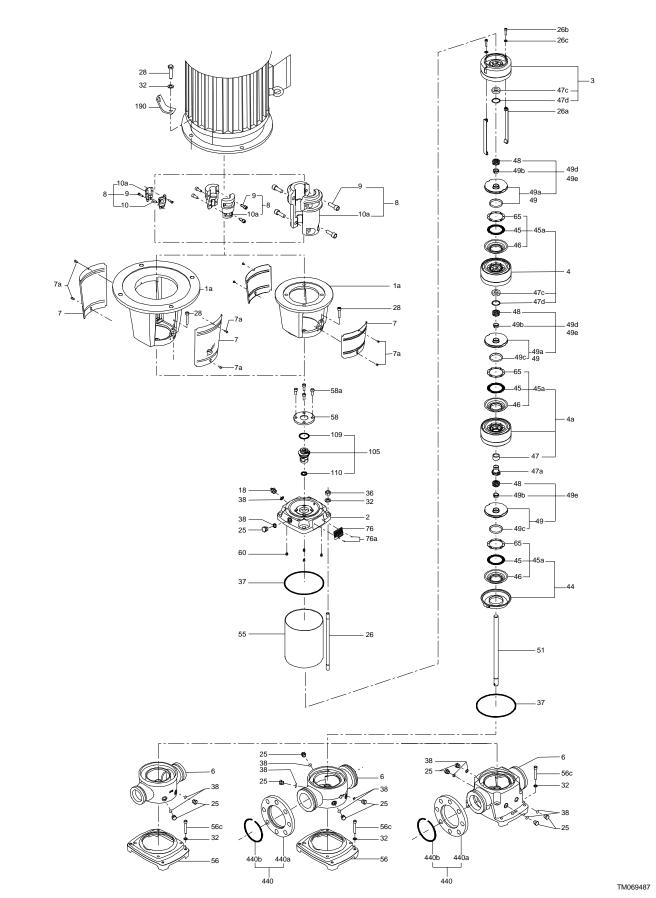


Note! All units are in [mm] unless others are stated.



Date: 17/02/2019

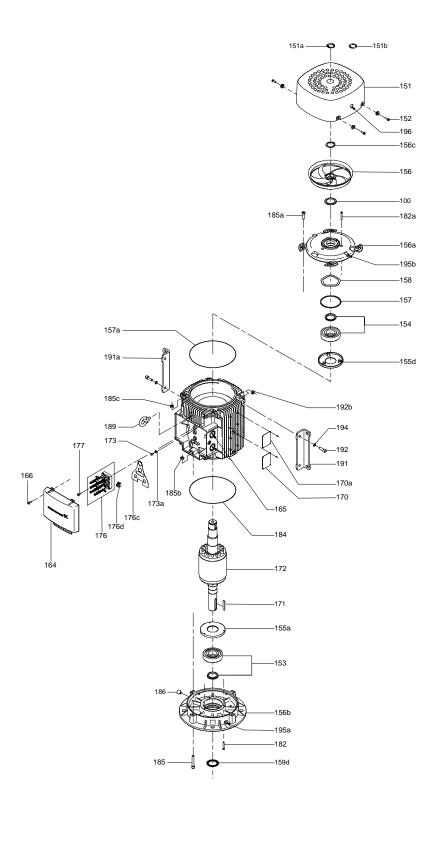
(tm069487 for LACR model B standard)



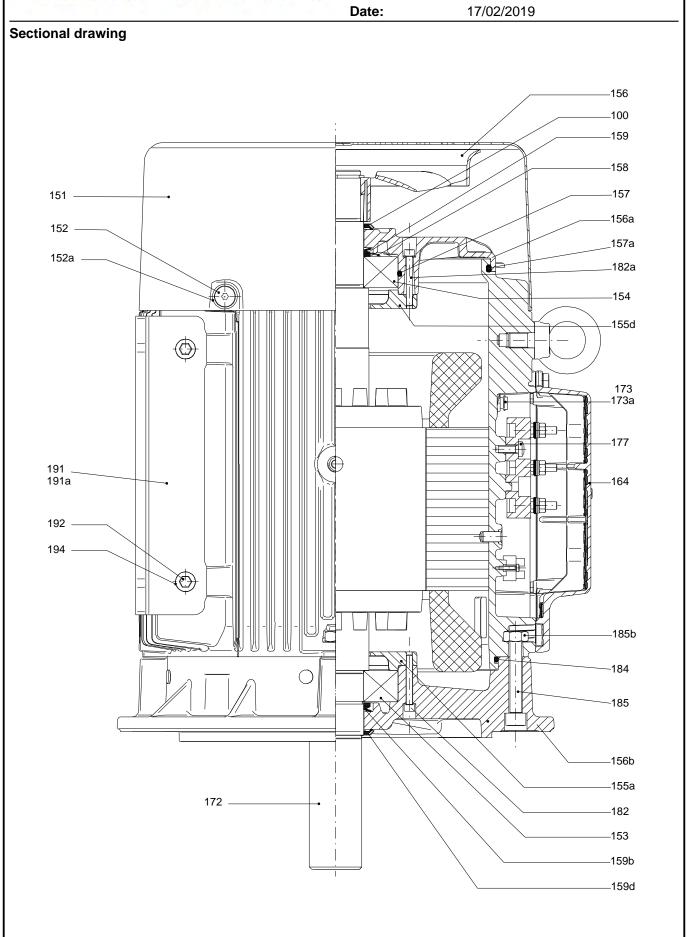


Date: 17/02/2019

Exploded view









Date: 17/02/2019

Spare parts CRN 32-9-2, Product No. 96122366 Valid from 3.3.2014 (1410)

Pos	Description	Annotation	Classification Data	Part no.	Qty.	
	Base			98925061	1	pcs
6	Base					1
80	Kit, chamber stack			96416925		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: D	IN 125Δ		
200	vvasiici		Thickness: 1,6	114 125/4		
26b	Hex socket head cap screw		11110K11C33. 1,0			
26a	Strap cpl.		Length (mm): 6	:30		
20a	Зпар срг.		Thread: M8	33		
44	Suction interconnector cpl.		THI GAU. IVIO			
44 44a	Suction Interconnector cpi. Suction interconnector					
45 46	Seal ring Neck ring					
65	Top f/neck ring					
47a	Bearing cpl.					
	Driver					
	Holder					
	Disc spring					
4.5	Bearing ring					
49e	Impeller cpl.					
48	Nut					
49b	Split cone					
49	Impeller					
	Impeller hub					
49c	Wear ring					



Pos	Description	Annotation	Classification Data	Part no.	Qty	. Un
49d	Impeller cpl. reduced diameter					
48	Nut					
49b	Split cone					
49a	Impeller					
	Impeller hub					
49c	Wear ring					
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
., a	Driver					•
	Holder					
	Disc spring					
	Bearing ring					
	Kit, coupling			96416592	4	no
				90410392		pc:
_	Adjusting fork		Di			1
8	Coupling cpl.		Dimension: 22/42	1.040		1
9	Hex socket head cap screw		Designation: DIN	1912		
			Length (mm): 25			
			Thread: M10			
10a	Coupling half					
	Kit, coupling guard			96505135		pc
7a	Socket button head screw					4
7	Coupling guard					2
	Kit, cover			98832448	1	pcs
58a	Hex socket head cap screw		Designation: DIN 91	2		4
			Length (mm): 25			
			Thread: M10			
58	Cover					1
	Kit, gaskets			96416597	1	pc
	Adjusting fork					1
37	O-ring					2
38	O-ring		Diameter: 16,3			2
			Material type: EPDM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3			4
	Ü		Material type: EPDM			
			Thickness: 2,4			
60	Spring					4
109	O-ring					1
110	O-ring		Diameter: 21,2			1
	g		Material type: EPDM			•
			Thickness: 3,55			
	Kit, impeller		11110KH033. 0,00	98633780	1	no
10				<i>5</i> 0033760		pcs
48	Nut					1
48	Nut					1
49b	Split cone					1
49	Impeller					1
	Impeller hub					
49c	Wear ring					



Pos	Description Kit Impeller reduced diameter		Qty.	
40	Kit, Impeller, reduced diamete	98033830	1	рс
48	Nut		1	
48	Nut		1	
49b	Split cone		1	
49a	Impeller		1	
	Impeller hub			
49c	Wear ring			
	Kit, plug	96505136	1	рс
18	Air vent screw		1	
	Spindle			
	Plug			
25	Plug		4	ļ
25	Plug		1	
38	O-ring	Diameter: 16,3	2	2
		Material type: FKM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3	4	ļ.
	- 3	Material type: FKM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3	6	:
30	O Tillig	Material type: FKM		
		Thickness: 2,4		
38	Oring	Diameter: 16,3	2	,
30	O-ring			-
		Material type: EPDM		
00	O rito ri	Thickness: 2,4		
38	O-ring	Diameter: 16,3	4	+
		Material type: EPDM		
		Thickness: 2,4		
	Kit, shaft seal HQQE	96525458		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	98497452	1	рс
45	Seal ring		1	1
47d	Lock ring		1	1
47c	Bush		8	}
49c	Wear ring		1	1
65	Top f/neck ring		1	1
	Motor	85904228		рс
	Kit, bearing cpl.	9679667		•
32b	Waved washer	50,000		
153	Angular-contact bearing			
154	Ball bearing			
157	O-ring			
157	V-ring			
103		0070000	1 4	
1FF :	Kit, bearing plate	9679666	4 1	
155.a	Bearing cover			
208a	Gasket	B 1 4 BNI245		
208	Hex socket head cap screw	Designation: DIN912		
		Length (mm): 40		
		Thread: M5		
	Kit, eyebolt	967967	2 1	
189	Eyebolt			
	Kit, fan	967966	1 1	



Pos	Description Patering ring	Annotation Classification Data Part no.	ty. U
156.c	Retaining ring		
156	Fan		
	Kit, fan cover	9679664	7 1
151	Fan cover		
152.a	Rubber bush		
152	Hex head cap screw		
196	Diaphragm		
	Kit, flange	9679666	2 1
156.b	Flange		
159.b	Seal ring		
185.b	Nut		
185	Hex socket head cap screw		
186	Drain plug		
195.a	Grease nipple		
	Kit, gaskets	9679850	8 1
184	O-ring	Diameter: 235	•
104	Kit, lubrication nipple	9679667	1 1
195.b	Grease nipple	9019001	
195.b	The state of the s		
195.8	Grease nipple	007000	n 1
001	Kit, ND-end shield cpl.	9679666	9 1
32b	Waved washer		
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	9684345	9 1
159.b	V-ring		
159	V-ring		
	Kit, terminal board	9679665	7 1
	Terminal connection		
	Washer		
36	Hex nut		
173	Torx Screw		
176.d	Terminal board		
176	Terminal board		
177	Torx Screw		
	Kit, terminal box cover	9679665	0 1
164	Terminal box cover	907 9003	J 1
273a	Pan head thread forming screw	0000004 4	
1a	Motor stool	98993921 1	
2	Pump head	98593646 1	
3	Upper chamber cpl.	98633870 1	
47c	Bulk, Bush (10 pcs)	9932119	
4	Bulk, Intermediate chamber cpl. (3 pcs)	99481487 6	•
4a	Bulk, Intermediate chamber cpl. (5 pcs)	99262783 2	
4	Bulk, Intermediate chamber cpl. (10 pcs)	99481488 6	рс
45a	Bulk, Neck ring cpl. (10 pcs)	9654732	2 1
4	Intermediate chamber cpl.	98633840 6	рс
6b	Base cpl.	Rubber type: EPDM 96587693 1	pc
25	Bulk, Plug (10 pcs)	9653601	•
37	Bulk, O-ring (10 pcs)	9653614	
38	Bulk, O-ring (10 pcs)	Diameter: 16,3 9919881	
55	24m, 2 mg (10 poo)	Material type: EPDM	· ¬
		Thickness: 2,4	
20	Rulk O ring (50 pee)		7 /
38	Bulk, O-ring (50 pcs)	Diameter: 16,3 9941272	, 4
		Material type: EPDM	



	Pos	Description	Annotation	Classification Data Thickness: 2,4	Part no.	Qty.	Unit
	56	Base plate		THICKNESS. 2,4	965876	691 1	
	7a	Bulk, Socket button head screw (10 pcs)			96549696		pcs
	7	Bulk, Coupling guard (10 pcs)			96603279		pcs
+	8	Coupling cpl.		Dimension: 22/42	96587704		pcs
+	18	Bulk, Air vent screw (5 pcs)		2 o o 22, .2	96547461		pcs
+	18	Air vent screw			95061351		pcs
•	25	Bulk, Plug (10 pcs)			96536013		pcs
	26c	Bulk, Washer (4 pcs)		Designation: DIN 125A	99262704		pcs
	200	Buik, Washer (4 pes)		Thickness: 1,6	33202704	_	pos
	26c	Washer		Designation: DIN 125A	96586880	2	pcs
	200	Traditor		Thickness: 1,6	0000000	_	Poo
	26b	Bulk, Hex socket head cap screw (10 pcs)		11110111000. 1,0	98931380	2	pcs
	26a	Strap cpl.		Length (mm): 639	98983863		pcs
	200	Oliap opi.		Thread: M8	0000000		poo
	26	Staybolt		Length (mm): 842	98976687	1	pcs
	20	Staybolt		Thread: M16	30370007	-	pcs
	28.a	Bulk, Hex head screw (20 pcs)		TINGAU. WITU	96620478	4	pcs
	28.a	Bulk, Hex socket head cap screw (10 pcs)		Designation: DIN 912	96536147		pcs
	20	Dain, Flox Sounce Head cap sciew (10 pcs)		Length (mm): 50	30330147	7	pus
				Thread: M10			
	32	Bulk, Washer (100 pcs)		Designation: DIN 125 A	08023051	Ω	pcs
	52	Buik, Washer (100 pes)		Internal diameter: 17	30323031	•	pos
				Outer diameter: 30			
				Thickness: 3			
	36	Pulk Hay put (20 pag)		Thread: M16	06620490	1	nac
	37	Bulk, Hex nut (20 pcs) Bulk, O-ring (10 pcs)		Tilleau. WTO	96620480 96536149		pcs
	38	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815		pcs
	30	Buik, O-IIIIg (10 pcs)		Material type: EPDM	99190013		pcs
				Thickness: 2,4			
	38	Bulk, O-ring (50 pcs)		Diameter: 16,3	99412727	2	ncc
	30	Buik, O-IIIIg (30 pcs)		Material type: EPDM	33412121		pcs
				Thickness: 2,4			
_	44	Suction interconnector cpl.		1111CK11633. 2,4	98633886	1	pcs
	45	Bulk, Seal ring (10 pcs)			979152		•
	65	Bulk, Top f/neck ring (10 pcs)			965349		
+	47a	Bulk, Bearing cpl. (5 pcs)			99366796		
		Bulk, Bearing cpl. (3 pcs)					pcs
۲	47a	,			96534932		pcs
	49e	Impeller cpl.			98394326		pcs
۲	49	Bulk, Impeller (10 pcs)			965349		
	49d	Impeller cpl. reduced diameter			98394466		pcs
	48	Bulk, Nut (3 pcs)			992626		
	48	Bulk, Nut (10 pcs)			992626		
	48	Bulk, Nut (10 pcs)			965360		
	49b	Bulk, Split cone (10 pcs)			965360		
	49a	Impeller			965473		
	49c	Bulk, Wear ring (10 pcs)		0 . "		53493	
	55	Outer sleeve		Outer diameter: 197	99051713	1	pcs
				Length (mm): 655,5		_	
	58	Cover			98893158		pcs
	60	Bulk, Spring (20 pcs)			96536032		pcs
•	105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984086		pcs
		Adjusting fork			965878		
	109	Bulk, O-ring (10 pcs)			965475		
+	105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984070		pcs
	203	Bulk, Lock ring (4 pcs)			96534918	1	pcs