

Date: 17/02/2019

Qty. | Description

1 | CRN 45-5 A-F-A-E-HQQE



Product No.: 96123125

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

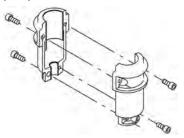
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

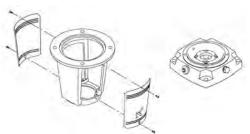
The colour code for the finished product is NCS 9000/RAL 9005.

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.

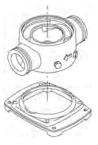




The shaft seal is retained in the pump head by a cover and screws. It can be replaced without removing the motor.

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: 45 m³/h
Rated head: 100.4 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: 16 bar

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

16 bar / -40 °C

Type of connection: DIN
Size of inlet connection: DN 80
Size of outlet connection: DN 80
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 â%¥: 0.70 Net weight: 195 kg Gross weight: 228 kg

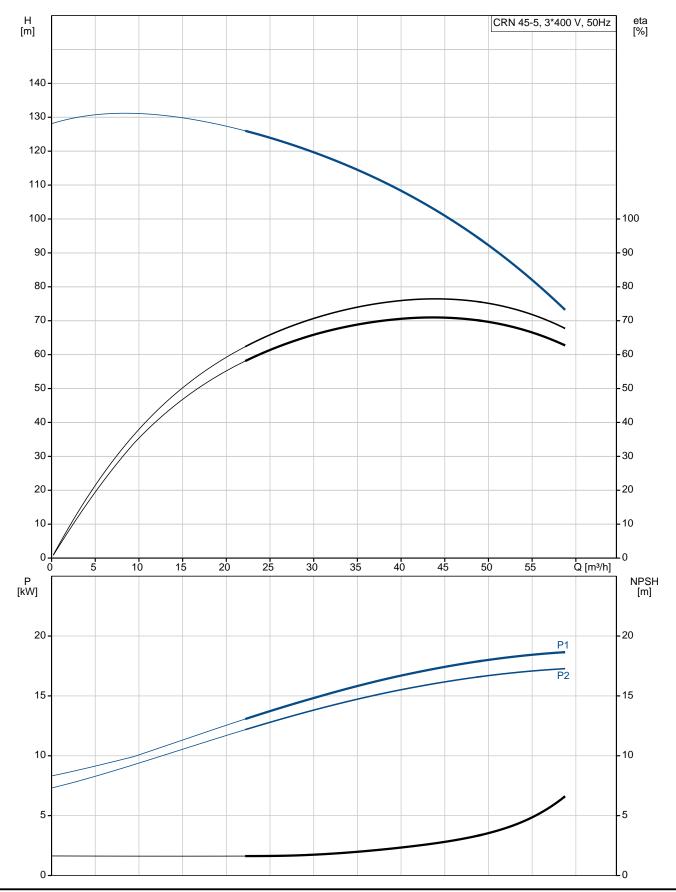


	1-		Date:	17/02/2019	
-	Description				
	Shipping volume: Danish VVS No.:	0.495 m³ 385917050			
	Danish VVO No	303917030			



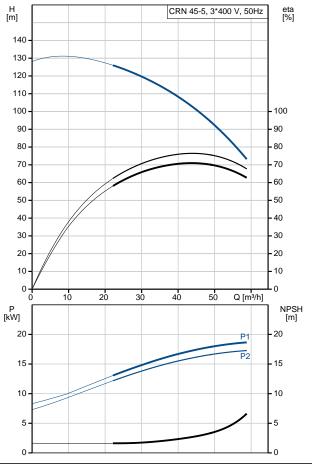
Date: 17/02/2019

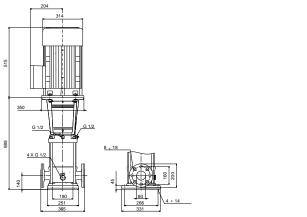
96123125 CRN 45-5 A-F-A-E-HQQE 50 Hz

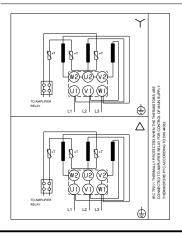




Description	Value
General information:	
Product name:	CRN 45-5 A-F-A-E-HQQE
Product No:	96123125
EAN number:	5700396691701
Technical:	
Pump speed on which pump data are based:	2934 rpm
Rated flow:	45 m³/h
Rated head:	100.4 m
Head max:	127.8 m
Stages:	5
Impellers:	5
Number of reduced-diameter impellers:	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:	В
Materials:	D
Base:	Stainless steel
Dase.	EN 1.4408
	AISI 316
lasa alla vi	
Impeller:	Stainless steel
	EN 1.4401
Matadalaada	AISI 316
Material code:	A
Code for rubber:	E
Bearing:	SIC
Support bearing: Installation:	Graflon
	00.00
Maximum ambient temperature:	60 °C
Maximum operating pressure:	16 bar
Maximum operating pressure: Max pressure at stated temp:	16 bar / 120 °C
Max pressure at stated temp:	16 bar / 120 °C 16 bar / -40 °C
Max pressure at stated temp: Type of connection:	16 bar / 120 °C 16 bar / -40 °C DIN
Max pressure at stated temp: Type of connection: Size of inlet connection:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80
Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80 DN 80
Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80 DN 80 PN 40
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:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80 DN 80 PN 40 FF300
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:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80 DN 80 PN 40
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:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80 DN 80 PN 40 FF300 F
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:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80 DN 80 PN 40 FF300 F
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:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80 DN 80 PN 40 FF300 F
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:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80 DN 80 PN 40 FF300 F Water -40 120 °C 20 °C
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:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80 DN 80 PN 40 FF300 F
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:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80 DN 80 PN 40 FF300 F Water -40 120 °C 20 °C 998.2 kg/m³
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:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80 DN 80 PN 40 FF300 F Water -40 120 °C 20 °C 998.2 kg/m³
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:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80 DN 80 PN 40 FF300 F Water -40 120 °C 20 °C 998.2 kg/m³
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:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80 DN 80 PN 40 FF300 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC 160LB IE3
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:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80 DN 80 PN 40 FF300 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC 160LB IE3 18.5 kW
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:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80 DN 80 PN 40 FF300 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC 160LB IE3
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:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80 DN 80 PN 40 FF300 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC 160LB IE3 18.5 kW
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:	16 bar / 120 °C 16 bar / -40 °C DIN DN 80 DN 80 PN 40 FF300 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC 160LB IE3 18.5 kW 18.5 kW







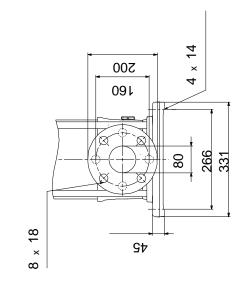


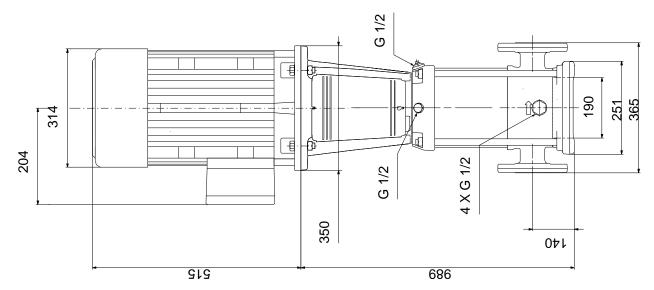
Description	Value
Starting current:	830-980 %
Cos phi - power factor:	0.89-0.85
Rated speed:	2940-2950 rpm
Efficiency:	IE3 92,4%
Motor efficiency at full load:	92.4-92.4 %
Motor efficiency at 3/4 load:	93.2 %
Motor efficiency at 1/2 load:	93.2 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17528
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	195 kg
Gross weight:	228 kg
Shipping volume:	0.495 m³
Danish VVS No.:	385917050



Date: 17/02/2019

96123125 CRN 45-5 A-F-A-E-HQQE 50 Hz





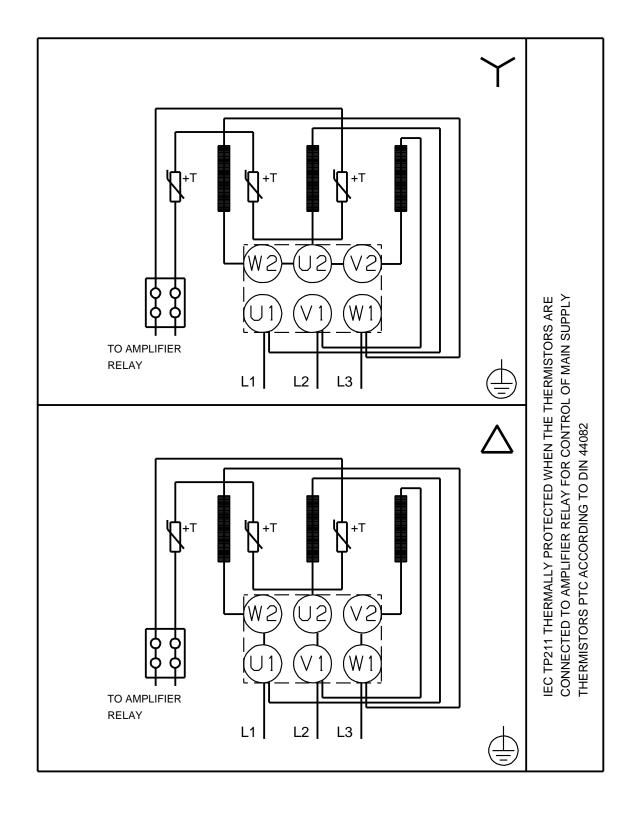
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

17/02/2019

96123125 CRN 45-5 A-F-A-E-HQQE 50 Hz

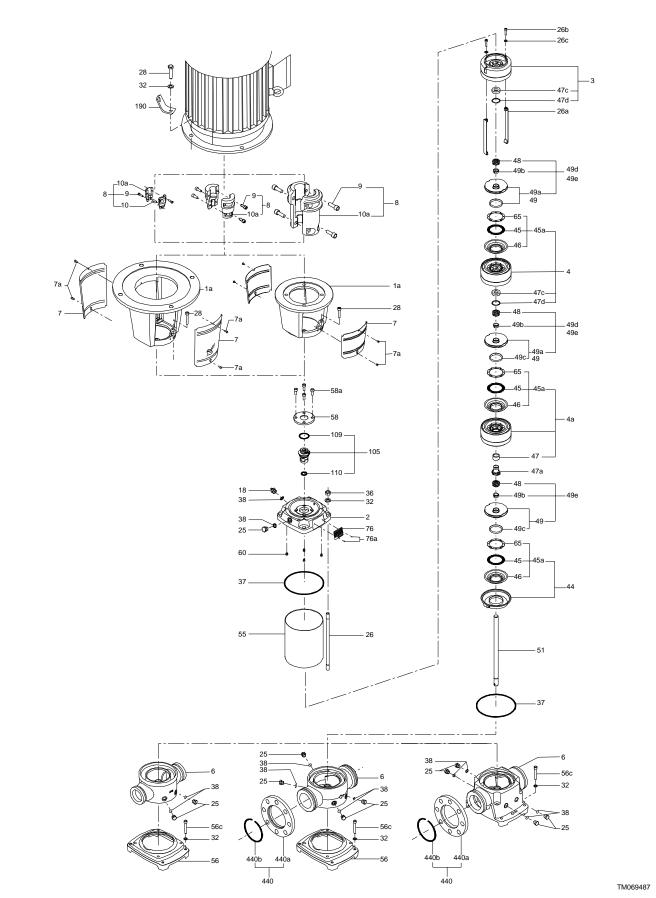


Note! All units are in [mm] unless others are stated.



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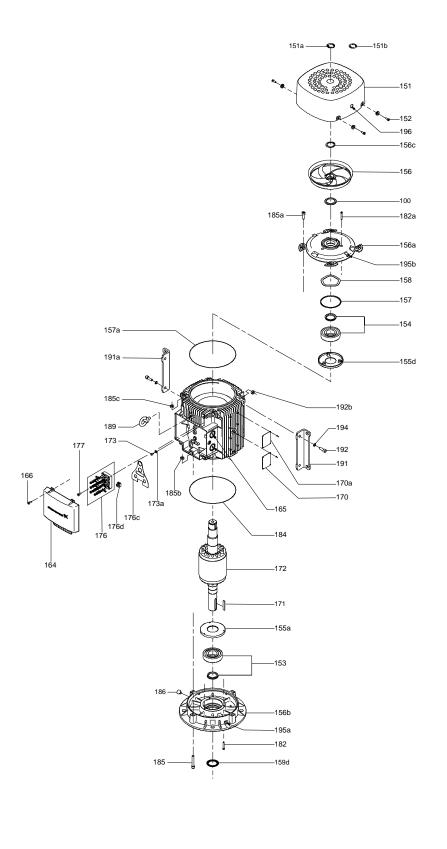
(tm069487 for LACR model B standard)



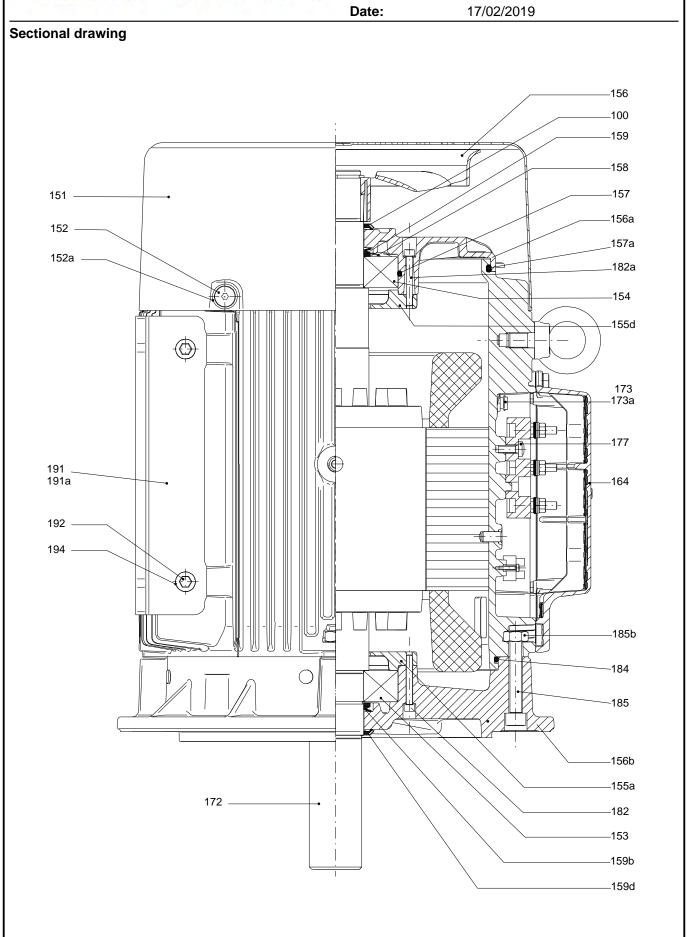


Date: 17/02/2019

Exploded view









Date: 17/02/2019

Spare parts CRN 45-5, Product No. 96123125 Valid from 3.3.2014 (1410)

Pos	Description	Annotation	Classification Data	Part no.	Qty.	
	Base			96587695	1	pcs
6	Base				1	l
80	Kit, chamber stack			96416249		pcs
80	Chamber stack				1	l
3	Upper chamber cpl.					
	Cone					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
47d	Lock ring					
47c	Bush					
4a	Intermediate chamber cpl.					
	Cone					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
45a	Neck ring cpl.					
47	Bearing					
4	Intermediate chamber cpl.					
	Cone					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
45a	Neck ring cpl.					
47d	Lock ring					
47c	Bush					
26c	Washer		Designation: DI	N 125A		
			Thickness: 1,6			
26b	Hex socket head cap screw					
26a	Strap cpl.		Length (mm): 4	09		
200	Chap opi.		Thread: M8	00		
44	Suction interconnector cpl.		Timoda. Mo			
44a	Suction interconnector					
45	Seal ring					
46	Neck ring					
65	Top f/neck ring					
47a	Bearing cpl.					
41 a	Driver					
	Holder					
	Disc spring					
400	Bearing ring					
49e	Impeller cpl.					
48	Nut					
49b	Split cone					
49a	Impeller, reduced diameter					
	Impeller hub					
49c	Wear ring					



Pos	Description	Annotation Classification Data	Part no.	Qty	/.	Uni
51	Shaft					
	Kit, chambers		98633888	1		pcs
4a	Intermediate chamber cpl.				1	
	Cone					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
45a	Neck ring cpl.					
47	Bearing					
47a	Bearing cpl.				1	
41 a	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: DI	V 912			
		Length (mm): 25				
		Thread: M10				
10a	Coupling half					
	Kit, coupling guard		96505135	1		pcs
7a	Socket button head screw				4	F
7	Coupling guard				2	
•	Kit, cover		98832448	1		pcs
58a	Hex socket head cap screw	Designation: DIN 91		•	4	poc
Jua	Tiex socket flead cap sciew	Length (mm): 25			_	
		Thread: M10				
	0	Thread: WTO			_	
58	Cover		00440500	_	1	
	Kit, gaskets		96416599	1		pcs
	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	
		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	,	98634001	1		pcs
48	Nut				1	•
48	Nut				1	
49b	Split cone				1	
49	Impeller				1	
73	Kit, plug		96505136	1		ncc
1Ω	Air vent screw		30303130	'	1	pcs
18						
	Spindle					
	Plug					
25	Plug				4	
25	Plug				1	
38	O-ring	Diameter: 16,3			2	
		Material type: FKM				
		Thickness: 2,4				



	Description	Annotation	Classification Data	Part no.	Qty.	
38	O-ring		Diameter: 16,3		4	ŀ
			Material type: FKM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3		6	6
			Material type: FKM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3		2	2
	ŭ		Material type: EPDM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3			ı
30	O-filing		Material type: EPDM			
			Thickness: 2,4			
	V. 1 (1 1100E		THICKNESS. 2,4	00505450		
	Kit, shaft seal HQQE			96525458		р
	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		, -	98497474	1	р
45	Seal ring				· 7	
47d	Lock ring					
47c	Bush				5	
49c	Wear ring					
65	Top f/neck ring				. 7	
	Motor			85904228		р
	Kit, bearing cpl.			9679667	76 1	
32b	Waved washer					
153	Angular-contact bearing					
154	Ball bearing					
157	O-ring					
159	V-ring					
	Kit, bearing plate			9679666	64 1	
155.a	Bearing cover					
208a	Gasket					
208	Hex socket head cap screw		Designation: DIN	1012		
200	Tiex socket flead cap screw		Length (mm): 40	1312		
	Kit ayahalt		Thread: M5	007007	10 4	
400	Kit, eyebolt			967967	12 1	
189	Eyebolt					
	Kit, fan			967966	04 1	
156.c	Retaining ring					
156	Fan					
	Kit, fan cover			9679664	17 1	
151	Fan cover					
152.a	Rubber bush					
152	Hex head cap screw					
196	Diaphragm					
	Kit, flange			9679666	32 1	
156.b	Flange			3373300		
150.b	Seal ring					
185.b	Nut					
185	Hex socket head cap screw					
186	Drain plug					
195.a	Grease nipple					
	Kit, gaskets			9679850	08 1	
184	O-ring		Diameter: 235			
	Kit, lubrication nipple					



Pos	Description	Annotation Classification Data	Part no. Qt	y. Un
195.b	Grease nipple			
195.a	Grease nipple			
•	Kit, ND-end shield cpl.		96796669	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			
100.5	Kit, shaft seal		96843459	1
159.b	•		30043433	'
	V-ring			
159	V-ring			
•	Kit, terminal board		96796657	1
	Terminal connection			
	Washer			
36	Hex nut			
173	Torx Screw			
176.d	Terminal board			
176	Terminal board			
177	Torx Screw			
177	Kit, terminal box cover		96796659	1
101	•		90790039	'
164	Terminal box cover			
273a	Pan head thread forming screw			
1a	Motor stool		98993921 1	pcs
2	Pump head		96587726 1	pcs
3	Upper chamber cpl.		98634048 1	pcs
47c	Bulk, Bush (10 pcs)		99321194	1
4	Bulk, Intermediate chamber cpl. (3 pcs)		99335210 3	pcs
45a	Bulk, Neck ring cpl. (10 pcs)		96547392	1
+ 4a	Bulk, Intermediate chamber cpl. (5 pcs)		99262907 1	pcs
+ 4	Intermediate chamber cpl.		98634020 3	pcs
6	Base		99347238 1	
				pcs
7a	Bulk, Socket button head screw (10 pcs)		96549696 4	pcs
7	Bulk, Coupling guard (10 pcs)		96603279 2	pcs
+ 8	Coupling cpl.	Dimension: 22/42	96587704 1	pcs
+ 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		pcs
	, · · (·)	Thickness: 1,6		F
26c	Washer	Designation: DIN 125A	96586880 2	ncs
200	TTGGTIGT		. 50500000 Z	pcs
00I-	Dulk How pookst hand any service (40 m)	Thickness: 1,6	00004000	<u> </u>
26b	Bulk, Hex socket head cap screw (10 pcs)	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	98931380 2	pcs
26a	Strap cpl.	Length (mm): 409	98983880 2	pcs
		Thread: M8		
26	Staybolt	Length (mm): 632	98976685 4	pcs
		Thread: M16		
28.a	Bulk, Hex head screw (20 pcs)		96620478 4	pcs
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 8	ncc
32	Duik, Washer (100 pcs)		1 30323031 0	pcs
		Internal diameter: 17		
		Outer diameter: 30		
		Thickness: 3		
36	Bulk, Hex nut (20 pcs)	Thread: M16	96620480 4	pcs
38	Bulk, O-ring (10 pcs)	Diameter: 16,3	99198815 2	pcs



	Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
				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.			98634055	1	pcs
	45	Bulk, Seal ring (10 pcs)			979114	148 1	i
	45	Bulk, Seal ring (10 pcs)			965359	952 1	i
	65	Bulk, Top f/neck ring (10 pcs)			965473	390 1	i
+	47a	Bulk, Bearing cpl. (5 pcs)			99270649	1	pcs
+	47a	Bulk, Bearing cpl. (10 pcs)			96535951	1	pcs
	48	Bulk, Nut (3 pcs)			99262680	1	pcs
	48	Bulk, Nut (10 pcs)			99262683	1	pcs
	48	Bulk, Nut (10 pcs)			96536016	1	pcs
	49b	Bulk, Split cone (10 pcs)			96536010	1	pcs
-	49a	Bulk, Impeller, reduced diameter (5 pcs)			96535957	1	pcs
	49c	Bulk, Wear ring (10 pcs)			965359	949 1	i
+	49a	Impeller, reduced diameter			98585277	1	pcs
	55	Outer sleeve		Outer diameter: 216	98820353	1	pcs
				Length (mm): 423,5			
	56	Base plate			96587696	1	pcs
	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	i
	109	Bulk, O-ring (10 pcs)			965475	586 1	i
+	105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984070	1	pcs
	440b	Bulk, Lock ring (4 pcs)			96535943	1	pcs