

**Date:** 17/02/2019

Qty. | Description

1 CR 45-13-2 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96122820

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via DIN flanges.

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

#### Further product details

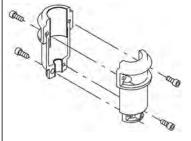
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

- 1) Alkaline-based cleaning.
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.

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

### **Pump**

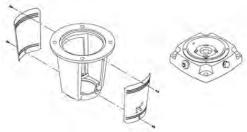
A long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.



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



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The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system. This seal type is assembled in a cartridge unit which makes replacement safe and easy. Due to the balancing, this seal type is suitable for high-pressure applications. The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.

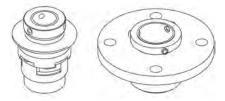
#### Primary seal:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



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

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

The base is made of cast iron. Both the inlet and the outlet side of the base have two pressure gauge tappings. The pump is secured to the foundation by four bolts through the base plate. The flanges are fastened to the base by means of locking rings.



### **Motor**

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with 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.

A variable speed drive makes adjustment of pump performance to any duty point possible. If the motor is to be connected to a variable speed drive, the pump must be ordered with an electrically insulated motor bearing.



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#### **Technical data**

Controls:

Frequency converter: NONE

Liquid:

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

Technical:

Pump speed on which pump data are based: 2960 rpm

Rated flow: 45 m³/h
Rated head: 262.6 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE
Approvals on nameplate: CE, EAC,ACS
Curve tolerance: ISO9906:2012 3B

Materials:

Base: Cast iron

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

Impeller: Stainless steel

EN 1.4301 AISI 304

Bearing: SIC Support bearing: Graflon

Installation:

Maximum ambient temperature: 55 °C Maximum operating pressure: 33 bar

Max pressure at stated temp: 33 bar / 120 °C

33 bar / -30 °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: FF400

**Electrical data:** 

Motor standard: IEC
Motor type: SIEMENS
IE Efficiency class: IE3
Rated power - P2: 45 kW
Power (P2) required by pump: 45 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-420D/660-725Y V Rated current: 81,0-74,0/47,0-43,0 A

Starting current: 690-690 %
Cos phi - power factor: 0.89
Rated speed: 2960 rpm
Efficiency: IE3 94,0%
Motor efficiency at full load: 94.0-94.0 %
Motor efficiency at 3/4 load: 94.5-94.5 %
Motor efficiency at 1/2 load: 94.4-94.4 %

Number of poles: 2



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

Insulation class (IEC 85):

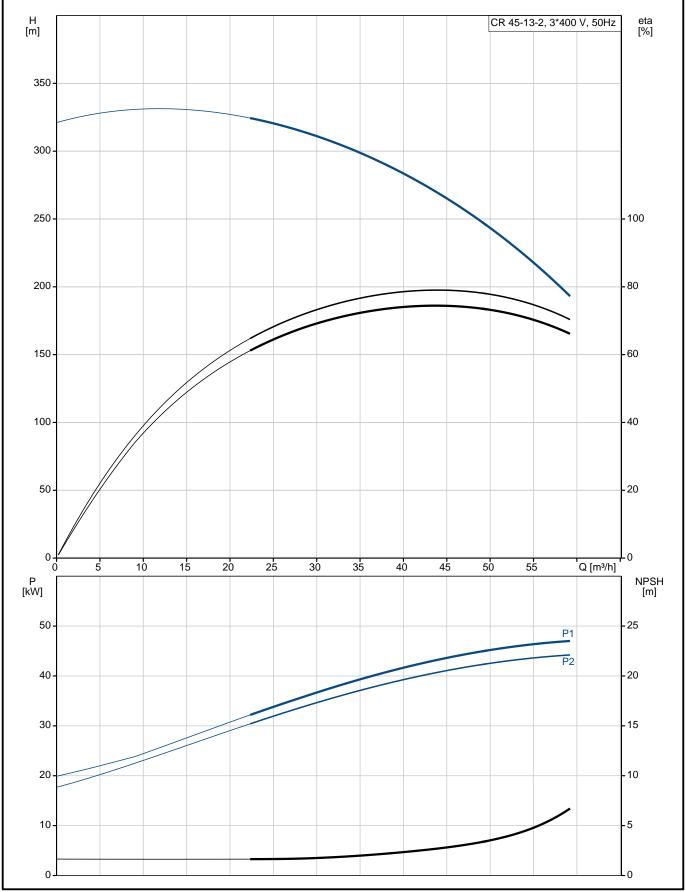
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 464 kg
Gross weight: 566 kg
Shipping volume: 1.24 m³
Danish VVS No.: 385907132



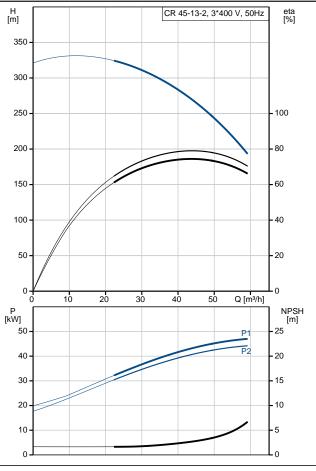
**Date:** 17/02/2019

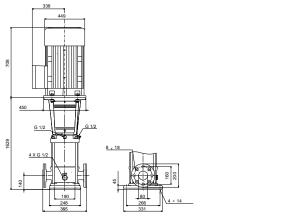
### 96122820 CR 45-13-2 A-F-A-E-HQQE 50 Hz

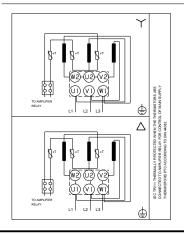




Description	Value
General information:	
Product name:	CR 45-13-2 A-F-A-E-HQQE
Product No:	96122820
EAN number:	5700396688640
Technical:	
Pump speed on which pump data are	
based:	2960 rpm
Rated flow:	45 m³/h
Rated head:	262.6 m
Head max:	321 m
Stages:	13
Impellers:	13
Number of reduced-diameter impellers:	2
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CE, EAC,ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	В
Materials:	
Base:	Cast iron
	EN 1563 EN-GJS-500-7
	ASTM A536 80-55-06
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Material code:	A
Code for rubber:	E
Bearing:	SIC
Support bearing:	Graflon
In a tallation.	
Installation:	
Maximum ambient temperature:	55 °C
	55 °C 33 bar
Maximum ambient temperature:	
Maximum ambient temperature: Maximum operating pressure:	33 bar
Maximum ambient temperature: Maximum operating pressure:	33 bar 33 bar / 120 °C
Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:	33 bar 33 bar / 120 °C 33 bar / -30 °C
Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection:	33 bar / 33 bar / 120 °C 33 bar / -30 °C DIN
Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection:	33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80
Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: Size of inlet connection:	33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80
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:	33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40
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:	33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400
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:	33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400
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:	33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400 F
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:	33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400 F Water -30 120 °C
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:	33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400 F Water -30 120 °C 20 °C
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:	33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400 F Water -30 120 °C
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:	33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400 F Water -30 120 °C 20 °C 998.2 kg/m³
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:	33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400 F Water -30 120 °C 20 °C 998.2 kg/m³ IEC
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:	33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400 F  Water -30 120 °C 20 °C 998.2 kg/m³  IEC SIEMENS
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:	33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400 F  Water -30 120 °C 20 °C 998.2 kg/m³  IEC SIEMENS IE3
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:	33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400 F  Water -30 120 °C 20 °C 998.2 kg/m³  IEC SIEMENS IE3 45 kW
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:	33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400 F  Water -30 120 °C 20 °C 998.2 kg/m³  IEC SIEMENS IE3 45 kW 45 kW
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:	33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400 F  Water -30 120 °C 20 °C 998.2 kg/m³  IEC SIEMENS IE3 45 kW 45 kW 50 Hz
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:	33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400 F  Water -30 120 °C 20 °C 998.2 kg/m³  IEC SIEMENS IE3 45 kW 45 kW







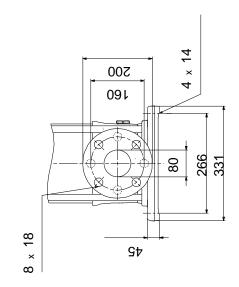


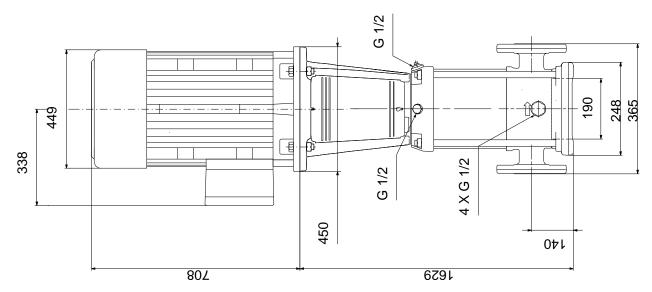
Description	Value
Starting current:	690-690 %
Cos phi - power factor:	0.89
Rated speed:	2960 rpm
Efficiency:	IE3 94,0%
Motor efficiency at full load:	94.0-94.0 %
Motor efficiency at 3/4 load:	94.5-94.5 %
Motor efficiency at 1/2 load:	94.4-94.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	81U15336
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	464 kg
Gross weight:	566 kg
Shipping volume:	1.24 m³
Danish VVS No.:	385907132



**Date:** 17/02/2019

## 96122820 CR 45-13-2 A-F-A-E-HQQE 50 Hz



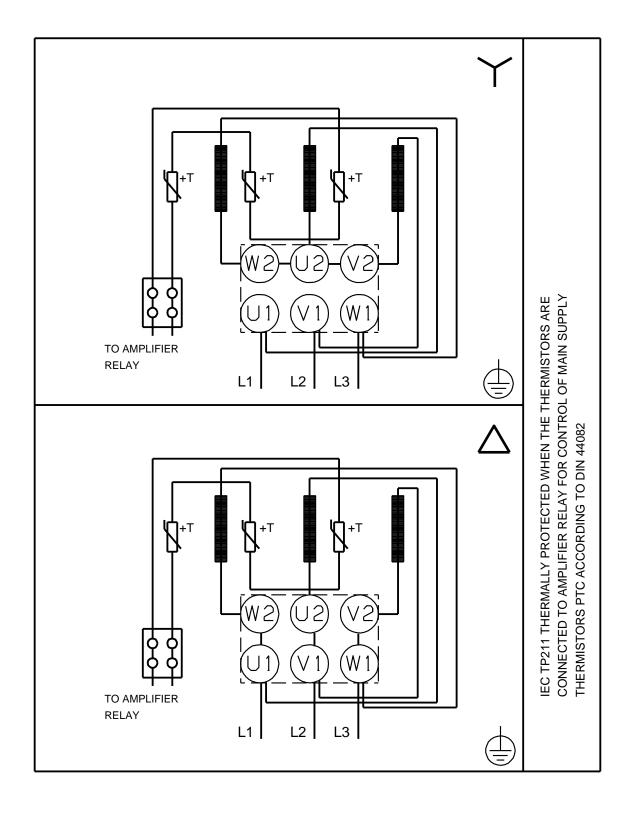


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



**Date:** 17/02/2019

### 96122820 CR 45-13-2 A-F-A-E-HQQE 50 Hz

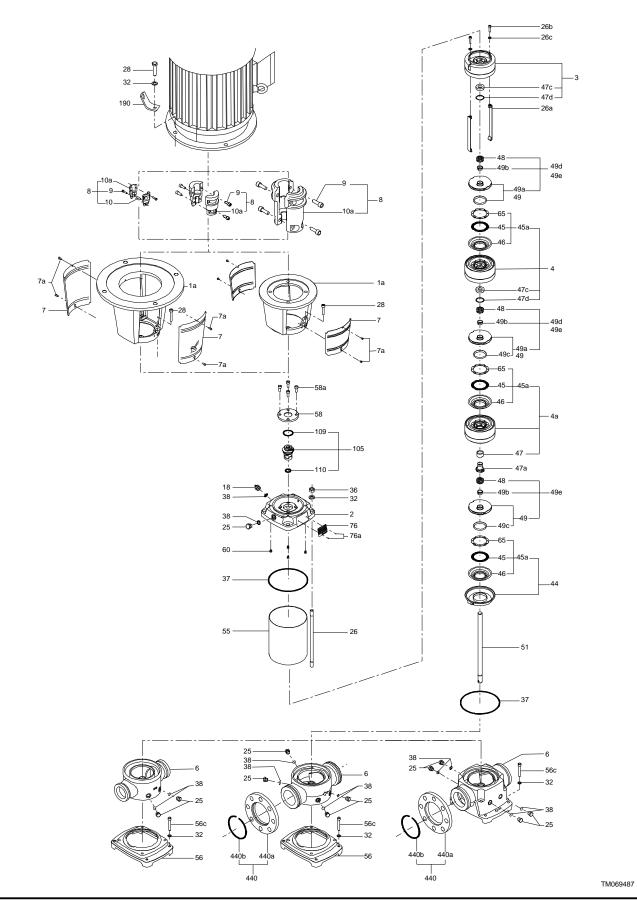


Note! All units are in [mm] unless others are stated.



**Date:** 17/02/2019

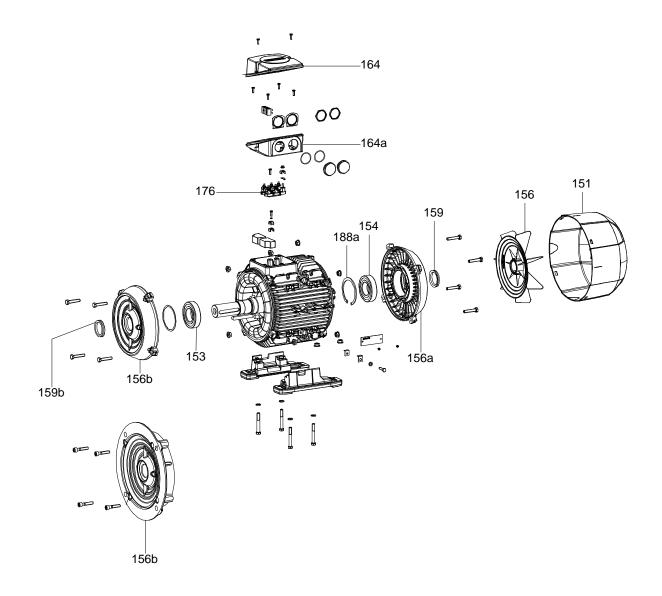
### (tm069487 for LACR model B standard)





**Date:** 17/02/2019

(TM058162)





**Date:** 17/02/2019

# Spare parts CR 45-13-2, Product No. 96122820 Valid from 3.3.2014 (1410)

Pos	Description	Annotation	Classification Data	Part no.	Qty.	
•	Base			96587694	1	рс
6	Base			00470000	1	
80	Chamber stack			96472033		pc
80	Chamber stack				1	
3	Upper chamber cpl.					
	Guide cup					
	Guide cup					
	Cone					
	Guide vane					
	Chamber					
	Chamber					
47d	Lock ring					
47c	Bush					
4a	Intermediate chamber cpl.					
	Guide cup					
	Guide cup					
	Cone					
	Guide vane					
	Chamber					
	Chamber					
45a	Neck ring cpl.					
47	Bearing					
4	Intermediate chamber cpl.					
	Guide cup					
	Guide cup					
	Cone					
	Guide vane					
	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): 1	1049		
			Thread: M8			
44	Suction interconnector cpl.					
	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.					
496	Nut					
49b	Split cone					
	Impeller					
7(1)	mpellel					
49	Impeller hub					



Pos	Description	Annotation	Classification Data	Part no.	Qty	· (
49d	Impeller cpl.					
48	Nut					
49b	Split cone					
49a	Impeller, reduced diameter					
iou	Impeller hub					
49c	Wear ring					
51	Shaft					
וכ				00407405		
	Kit, chambers			98497485	1	ŗ
4a	Intermediate chamber cpl.					1
	Guide cup					
	Guide cup					
	Cone					
	Guide vane					
	Chamber					
	Chamber					
45a	Neck ring cpl.					
47	Bearing					
47a	Bearing cpl.					1
	Driver					
	Holder					
	Disc spring					
	Bearing ring			00440504	_	
	Kit, coupling			96416594	1	ŗ
	Adjusting fork					1
8	Coupling cpl.		Dimension: 22/55			1
9	Hex socket head cap screw		Designation: DIN	l 912		
			Length (mm): 25			
			Thread: M10			
10a	Coupling half					
	Kit, coupling guard			96505135	1	ŗ
7a	Socket button head screw					4
7	Coupling guard					2
	Kit, cover			98832448	1	ŗ
58a	Hex socket head cap screw		Designation: DIN 91		•	4
000			Length (mm): 25	_		•
			Thread: M10			
58	Cover		Tilleau. WTO			1
56				00440500	4	
	Kit, gaskets			96416599	1	F
	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
	- ·····g		Material type: EPDM			•
	Vit impeller		Thickness: 3,55	00407400	4	
40	Kit, impeller			98497488	I	1
48	Nut					1
48	Nut					1
49b	Split cone					1
49	Impeller					1
	Impeller hub					
49c	Wear ring					
	Kit, Impeller, reduced diamete			98634014		F



<b>Pos</b> 48	<b>Description</b> Nut	Annotation Classification Data Part no. Qu	<b>y. U</b>
48	Nut		1
49b	Split cone		1
49a	Impeller, reduced diameter		1
	Impeller hub		
49c	Wear ring		
	Kit, plug	96505136 1	po
18	Air vent screw		1
	Spindle		
	Plug		
25	Plug		4
25	Plug		1
38	O-ring	Diameter: 16,3	2
		Material type: FKM	
		Thickness: 2,4	
38	O-ring	Diameter: 16,3	4
	- ····g	Material type: FKM	
		Thickness: 2,4	
38	O-ring	Diameter: 16.3	6
00	- Ting	Material type: FKM	
		Thickness: 2,4	
38	O-ring	Diameter: 16,3	2
<b>J</b> 0	O-ring		
		Material type: EPDM	
00	O min m	Thickness: 2,4	_
38	O-ring	Diameter: 16,3	4
		Material type: EPDM	
		Thickness: 2,4	
	Kit, shaft seal HQQE	96525458 1	po
	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	98497476 1	po
45	Seal ring		13
47d	Lock ring		13
47c	Bush		10
49c	Wear ring		13
65	Top f/neck ring		13
-	Motor	1	po
156	Kit, fan	98671984	
151	Kit, fan cover	98062276	
156b	Kit, flange	98062292	
1000		98062292	
150-	Kit, lubrication nipple		
156a	Kit, ND-end shield cpl.	98062518	
159b	Kit, seal ring	98062552	
176	Kit, terminal board	98062237	
164a	Kit, terminal box	98062263	1
1a	Motor stool	96587724 1	po
2	Pump head	96547433 1	po
3	Upper chamber cpl.	98634042 1	po
47c	Bulk, Bush (10 pcs)	99321194	
4a	Bulk, Intermediate chamber cpl. (5 pcs)	99262867 3	рс
	Intermediate chamber cpl.	99139113 3	po
4a 4	Bulk, Intermediate chamber cpl. (5 pcs)	99458546 9	po



	Pos	Description	Annotation	Classification Data	Part no.		. Unit
	45a	Bulk, Neck ring cpl. (10 pcs)			96547	397	1
	7a	Bulk, Socket button head screw (10 pcs)			96549696		pcs
	7	Bulk, Coupling guard (10 pcs)			96603279	2	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	99262704	2	pcs
				Thickness: 1,6			
	26c	Washer		Designation: DIN 125A	96586880	2	pcs
				Thickness: 1,6			
	26b	Bulk, Hex socket head cap screw (10 pcs)			98931380		pcs
	26a	Strap cpl.		Length (mm): 1049	98983890	2	pcs
				Thread: M8			
	26	Bulk, Staybolt (4 pcs)		Length (mm): 1207	98892301	4	pcs
				Thread: M16			
	26	Staybolt		Length (mm): 1207	98976728	4	pcs
				Thread: M16			
	28	Bulk, Hex socket head cap screw (10 pcs)		Designation: DIN 912	96536147	4	pcs
				Length (mm): 50			
	00	Dulle Harris and (00		Thread: M10	07500015		
	28	Bulk, Hex head screw (20 pcs)		Length (mm): 60	97506949	4	pcs
	00	Dulle Weeken (400 mg)		Thread: M16	00000051		
	32	Bulk, Washer (100 pcs)		Designation: DIN 125 A	98923051	4	pcs
				Internal diameter: 17			
				Outer diameter: 30			
	20	Dulle Hay mut (20 mag)		Thickness: 3	00000400	4	
	36	Bulk, Hex nut (20 pcs)		Thread: M16	96620480		pcs
	38	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815	2	pcs
				Material type: EPDM Thickness: 2,4			
	38	Pulk Oring (50 pos)		Diameter: 16,3	99412727	2	noo
	30	Bulk, O-ring (50 pcs)		Material type: EPDM	99412727		pcs
				Thickness: 2,4			
-	44	Suction interconnector cpl.		THIORIESS. 2,4	98634054	1	pcs
	45	Bulk, Seal ring (10 pcs)			979114		1
	45	Bulk, Seal ring (10 pcs)			965359		1
	65	Bulk, Top f/neck ring (10 pcs)			96547		
+	47a	Bulk, Bearing cpl. (5 pcs)			99270649		pcs
+	47a	Bulk, Bearing cpl. (10 pcs)			96535951		pcs
۱Ľ	48	Bulk, Nut (3 pcs)			99262680		pcs
	48	Bulk, Nut (10 pcs)			99262683		pcs
	48	Bulk, Nut (10 pcs)			96536016		pcs
_	49e	Impeller cpl.			98394328		pcs
	48	Bulk, Nut (3 pcs)			992620		1
	48	Bulk, Nut (10 pcs)			992620		1
	48	Bulk, Nut (10 pcs)			965360		1
-	49b	Bulk, Split cone (10 pcs)			965360		
_	49	Bulk, Impeller (10 pcs)			965359		
	49c	Bulk, Wear ring (10 pcs)				53594	
	49b	Bulk, Split cone (10 pcs)			96536010		pcs
-	49a	Bulk, Impeller, reduced diameter (5 pcs)			96535954		pcs
-	49c	Bulk, Wear ring (10 pcs)			965359		
	55	Outer sleeve		Outer diameter: 216,0	98820374		pcs
	55	Catol Slocvo		Length (mm): 1063,5	30020314	-1	pus
	58	Cover		Longui (min). 1005,5	98893158	1	pcs
	60	Bulk, Spring (20 pcs)			96536032		
	105	Bulk, Shaft seal (12 pcs)		Material type: HOOF	96984086		pcs
<u>                                    </u>	103			Material type: HQQE	965878		pcs
		Adjusting fork					



Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
109	Bulk, O-ring (10 pcs)			965475	586 1	
+ 105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984070	1	pcs
440k	Bulk, Lock ring (4 pcs)			96535943	1	pcs