

Date: 17/02/2019

Qty. | Description

1 CR 45-12-2 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96122818

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

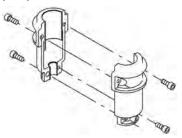
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

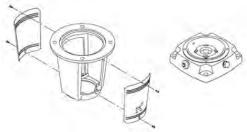
A long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.



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



Date: 17/02/2019



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.

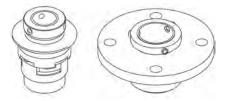
Primary seal:

- 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.



Date: 17/02/2019

Qty. | Description

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: 242.1 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 SIC

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



Date: 17/02/2019

Qty. | Description

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

Insulation class (IEC 85):

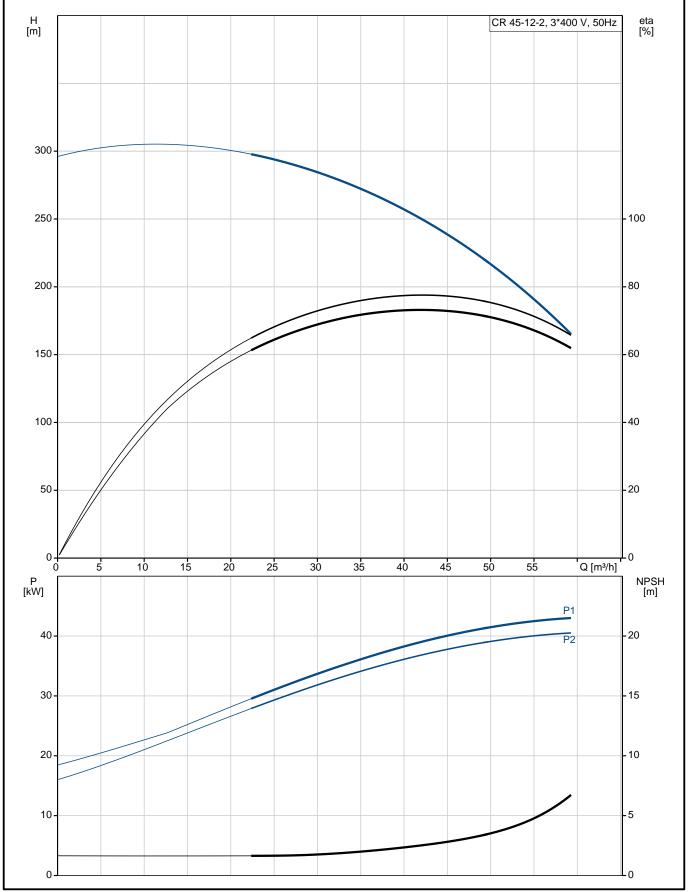
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 460 kg
Gross weight: 562 kg
Shipping volume: 1.24 m³
Danish VVS No.: 385907122



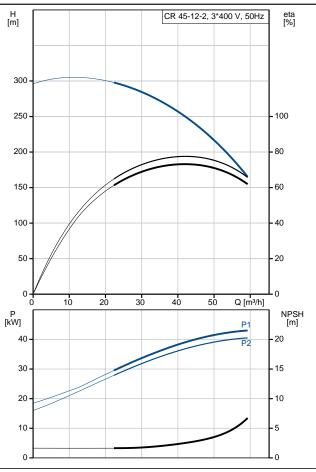
Date: 17/02/2019

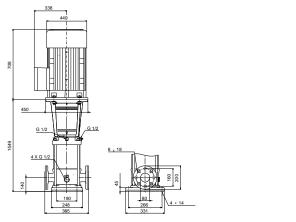
96122818 CR 45-12-2 A-F-A-E-HQQE 50 Hz

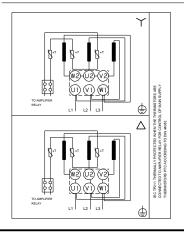




Description	Value
General information:	
Product name:	CR 45-12-2
	A-F-A-E-HQQE
Product No:	96122818
EAN number:	5700396688626
Technical:	
Pump speed on which pump data are	2960 rpm
based:	·
Rated flow:	45 m³/h
Rated head:	242.1 m
Head max:	295.8 m
Stages:	12
Impellers:	12
Number of reduced-diameter impellers:	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:	A E
Code for rubber: Bearing:	A E SIC
Code for rubber: Bearing: Support bearing:	A E
Code for rubber: Bearing: Support bearing: Installation:	A E SIC Graflon
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature:	A E SIC Graflon
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure:	A E SIC Graflon 55 °C 33 bar
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature:	A E SIC Graflon 55 °C 33 bar 33 bar / 120 °C
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:	A E SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -30 °C
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection:	A E SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -30 °C DIN
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection:	A E SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection:	A E SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection:	A E SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor:	A E SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code:	A E SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid:	A E SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400 F
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid:	A E SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400 F
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range:	A E SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400 F Water -30 120 °C
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation:	A E SIC Graflon 55 °C 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
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density:	A E SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -30 °C DIN DN 80 DN 80 PN 40 FF400 F Water -30 120 °C
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data:	A E SIC Graflon 55 °C 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
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard:	A E SIC Graflon 55 °C 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
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type:	A E SIC Graflon 55 °C 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
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class:	A E SIC Graflon 55 °C 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
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	E SIC Graflon 55 °C 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
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	A E SIC Graflon 55 °C 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
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	A E SIC Graflon 55 °C 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
Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	A E SIC Graflon 55 °C 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







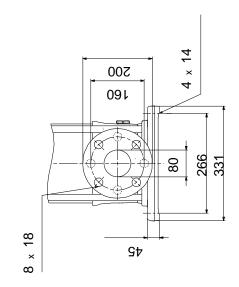


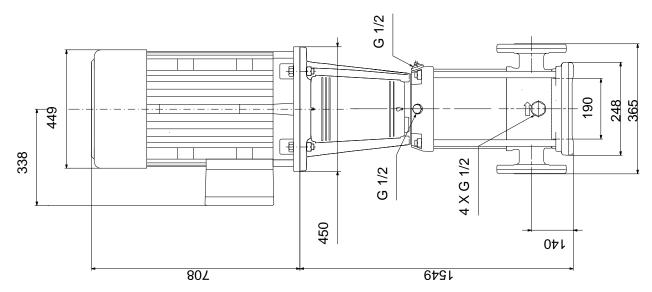
Description	Value
Starting current:	690-690 %
Cos phi - power factor:	0.89
Rated speed:	2960 rpm
Efficiency:	IE3 94,0%
Motor efficiency at full load:	94.0-94.0 %
Motor efficiency at 3/4 load:	94.5-94.5 %
Motor efficiency at 1/2 load:	94.4-94.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	81U15336
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	460 kg
Gross weight:	562 kg
Shipping volume:	1.24 m³
Danish VVS No.:	385907122



Date: 17/02/2019

96122818 CR 45-12-2 A-F-A-E-HQQE 50 Hz



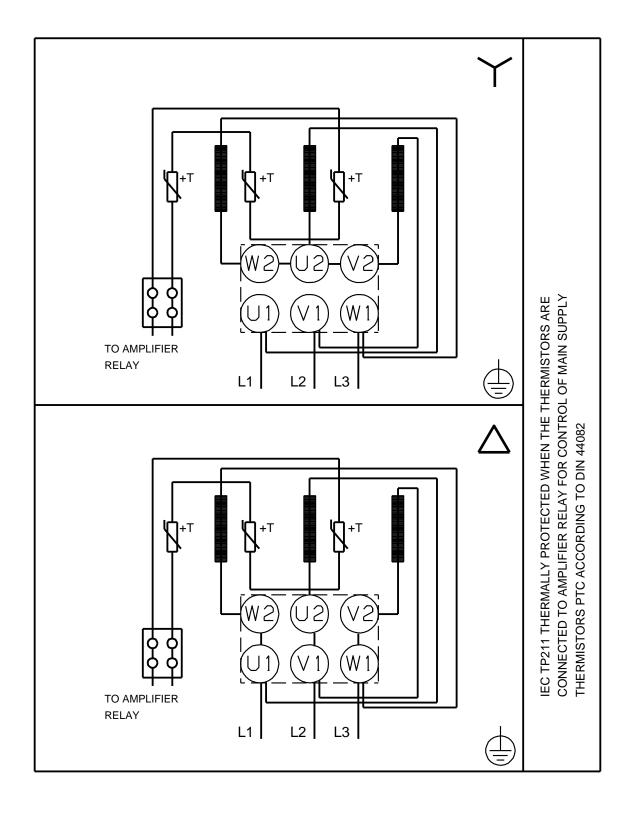


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 17/02/2019

96122818 CR 45-12-2 A-F-A-E-HQQE 50 Hz

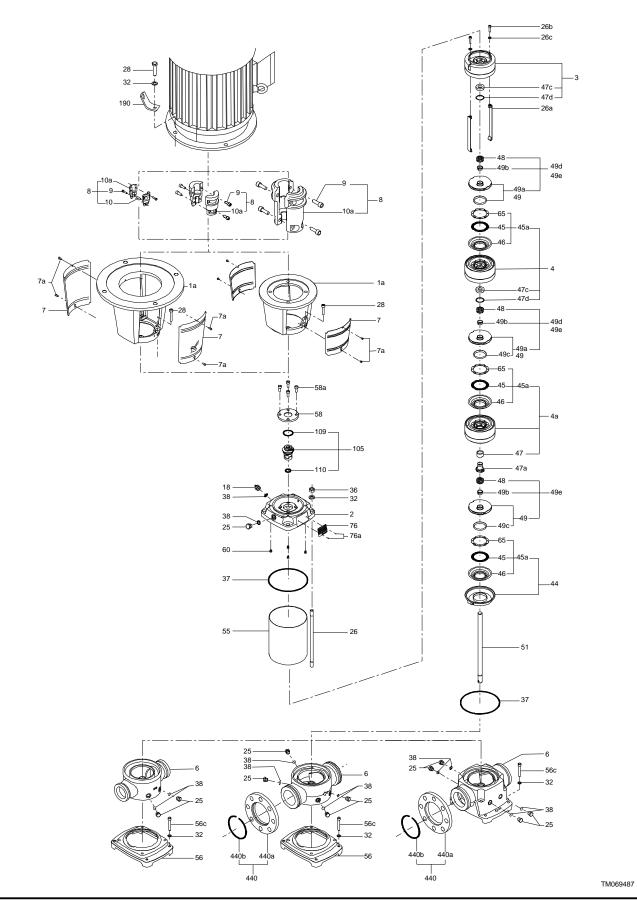


Note! All units are in [mm] unless others are stated.



Date: 17/02/2019

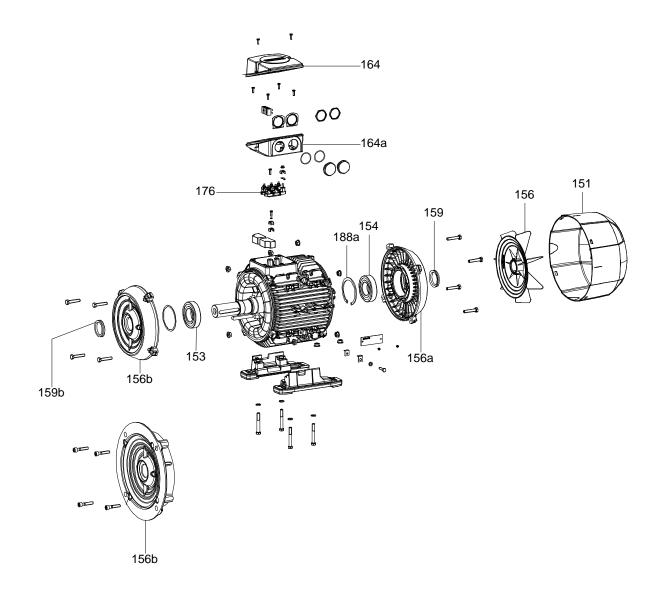
(tm069487 for LACR model B standard)





Date: 17/02/2019

(TM058162)





Date: 17/02/2019

Spare parts CR 45-12-2, Product No. 96122818 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			96472029		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): 9	969		
			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					
/Ω	IIIDellel					
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



	Pos	Description	Annotation	Classification Data	Part no.	Qty	<i>.</i>	Uni
	48	Nut					1	
	48	Nut					1	
	49b	Split cone					1	
	49a	Impeller, reduced diameter					1	
		Impeller hub						
	49c	Wear ring						
		Kit, plug			96505136	1		pcs
	18	Air vent screw			00000.00	•	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Spindle					•	
		Plug						
	25	Plug					4	
	25	Plug					1	
	38	O-ring		Diameter: 16,3			2	
	30	O-IIIIg		Material type: FKM			_	
				Thickness: 2,4				
	38	O ring		Diameter: 16,3			4	
	38	O-ring					4	
				Material type: FKM				
	20	O ring		Thickness: 2,4			_	
	38	O-ring		Diameter: 16,3			6	
				Material type: FKM				
				Thickness: 2,4				
	38	O-ring		Diameter: 16,3			2	
				Material type: EPDM				
				Thickness: 2,4				
	38	O-ring		Diameter: 16,3			4	
				Material type: EPDM				
				Thickness: 2,4				
•		Kit, shaft seal HQQE			96525458	1		pcs
		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		pcs
	45	Seal ring					13	
	47d	Lock ring					13	
	47c	Bush					10	
	49c	Wear ring					13	
	65	Top f/neck ring					13	
		Motor				1		pcs
	156	Kit, fan			986719	984	1	
	151	Kit, fan cover			980622		1	
	156b	Kit, flange			980622			
		Kit, lubrication nipple			98062			
	156a	Kit, ND-end shield cpl.			98062			
	159b	Kit, seal ring			98062			
	176	Kit, terminal board			980622			
	164a	Kit, terminal board Kit, terminal box			980622			
	104a	Motor stool			96587724			pcs
	2				96547433			
		Pump head						pcs
-	3	Upper chamber cpl.			98634042			pcs
	47c	Bulk, Bush (10 pcs)			99321			
+	4a	Bulk, Intermediate chamber cpl. (5 pcs)			99262867			pcs
+	4a	Intermediate chamber cpl.			99139113			pcs
-	4	Bulk, Intermediate chamber cpl. (5 pcs)			99458546			pcs
	45a	Bulk, Neck ring cpl. (4 pcs)			98763	585	1	



	Pos	Description	Annotation	Classification Data	Part no.		Unit
	45a	Bulk, Neck ring cpl. (10 pcs)			965473	397 1	
	7a	Bulk, Socket button head screw (10 pcs)			96549696	4	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
		, (1 ,		Thickness: 1,6			•
	26c	Washer		Designation: DIN 125A	96586880	2	pcs
		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): 969	98983889		
	20a	Strap cpi.		Thread: M8	90903009	_	pcs
	00	01			00070707		
	26	Staybolt		Length (mm): 1127	98976727	4	pcs
		B III II		Thread: M16			
	28	Bulk, Hex socket head cap screw (10 pcs)		Designation: DIN 912	96536147	4	pcs
				Length (mm): 50			
				Thread: M10			
	28	Bulk, Hex head screw (20 pcs)		Length (mm): 60	97506949	4	pcs
				Thread: M16			
	32	Bulk, Washer (100 pcs)		Designation: DIN 125 A	98923051	4	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
		3 (- 1)		Material type: EPDM			
				Thickness: 2,4			
	38	Bulk, O-ring (50 pcs)		Diameter: 16,3	99412727	2	pcs
	-	Daint, O mily (66 pee)		Material type: EPDM	00112727	_	poo
				Thickness: 2,4			
_	44	Suction interconnector cpl.		11110101000. 2, T	98634054	1	pcs
	45	Bulk, Seal ring (10 pcs)			979114		•
	45	Bulk, Seal ring (10 pcs)			965359		
		_ · · · · · · · · · · · · · · · · · · ·					
	65	Bulk, Top f/neck ring (10 pcs)			965473		
+	47a	Bulk, Bearing cpl. (5 pcs)			99270649		pcs
+	47a	Bulk, Bearing cpl. (10 pcs)			96535951	-	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
-	49e	Impeller cpl.			98394328	10	pcs
	48	Bulk, Nut (3 pcs)			992626	80 1	
	48	Bulk, Nut (10 pcs)			992626	83 1	
	48	Bulk, Nut (10 pcs)			965360)16 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		
	49b 49a						pcs
-		Bulk, Impeller, reduced diameter (5 pcs)			96535954		pcs
	49c	Bulk, Wear ring (10 pcs)		Out = 1	965359		
	55	Outer sleeve		Outer diameter: 216,0	98820373	1	pcs
				Length (mm): 983,5	00000177		
	58	Cover			98893158		pcs
	60	Bulk, Spring (20 pcs)			96536032		pcs
-	105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984086	1	pcs
		Adjusting fork			965878	396 1	
	109	Bulk, O-ring (10 pcs)			965475	86 1	
				Material type: HQQE	96984070		



Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
440b	Bulk, Lock ring (4 pcs)			96535943	1	pcs