

Date: 17/02/2019

Qty. | Description

1 | CRN 45-12 A-F-A-E-HQQE



Product No.: 96123139

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

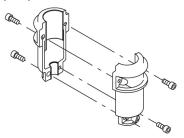
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

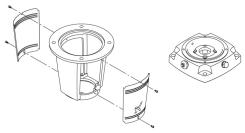
The colour code for the finished product is NCS 9000/RAL 9005.

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.

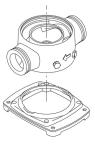




The shaft seal is retained in the pump head by a cover and screws. It can be replaced without removing the motor.

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.

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.

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: 2960 rpm

Rated flow: 45 m³/h
Rated head: 250 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE
Approvals on nameplate: CE, EAC,ACS

Materials:

Curve tolerance:

Base: Stainless steel

EN 1.4408 AISI 316

ISO9906:2012 3B

Impeller: Stainless steel

EN 1.4401 AISI 316

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 / -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: 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

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

Insulation class (IEC 85): F

Others:

Minimum efficiency index, MEI ≥: 0.70 Net weight: 460 kg Gross weight: 562 kg

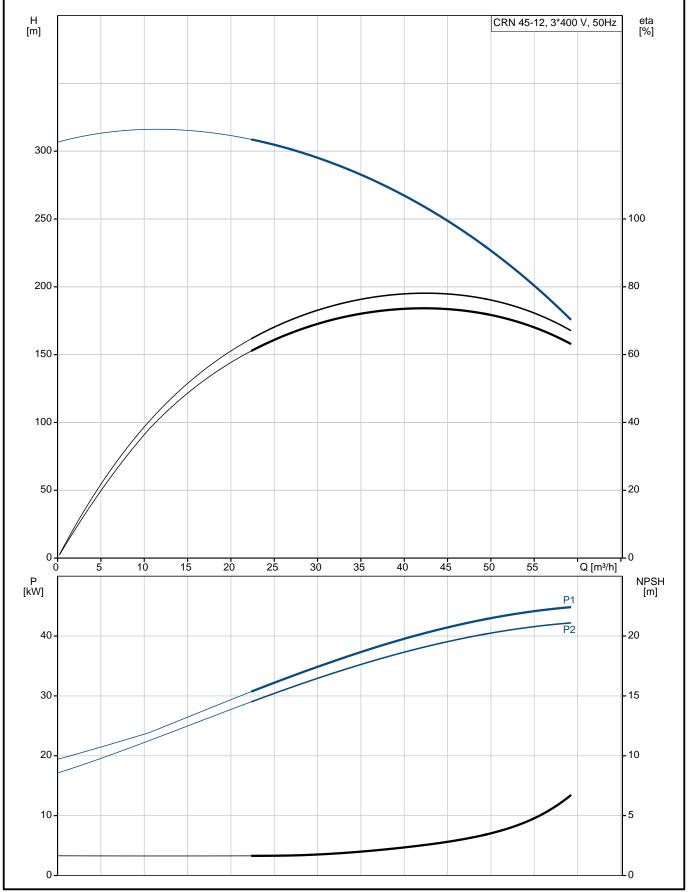


			Date:	17/02/2019	
Qty.	Description				
		1 04 m3			
	Shipping volume: Danish VVS No.:	1.24 m ³			
	Danish VVS No.:	385917120			
	1				



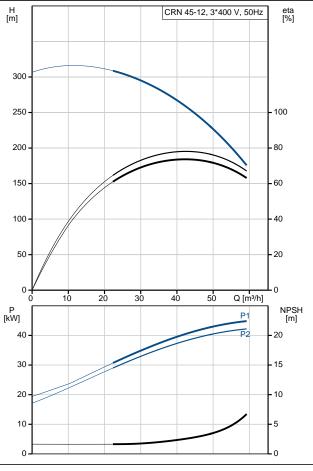
Date: 17/02/2019

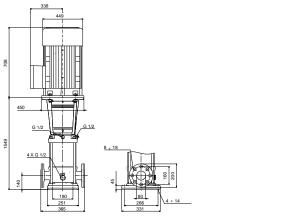
96123139 CRN 45-12 A-F-A-E-HQQE 50 Hz

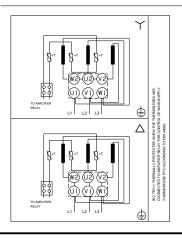




Description	Value
General information:	
Product name:	CRN 45-12
	A-F-A-E-HQQE
Product No:	96123139
EAN number:	5700396691848
Technical:	
Pump speed on which pump data are based:	2960 rpm
Rated flow:	45 m³/h
Rated head:	250 m
Head max:	306.2 m
Stages:	12
Impellers:	12
Number of reduced-diameter impellers:	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:	
Base:	Stainless steel
B 466.	EN 1.4408
	AISI 316
Impeller:	Stainless steel
impelier.	EN 1.4401
	AISI 316
Material and a	
Material code:	A
Cada fan mulahan	_
Code for rubber:	E
Bearing:	SIC
Bearing: Support bearing:	
Bearing: Support bearing: Installation:	SIC Graflon
Bearing: Support bearing: Installation: Maximum ambient temperature:	SIC Graflon
Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure:	SIC Graflon 55 °C 33 bar
Bearing: Support bearing: Installation: Maximum ambient temperature:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C
Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C
Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN
Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80
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:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80 DN 80
Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80
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:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80 DN 80
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:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80 DN 80 PN 40
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:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80 DN 80 PN 40 FF400
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:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80 DN 80 PN 40 FF400
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:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80 DN 80 PN 40 FF400 F
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:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80 DN 80 PN 40 FF400 F
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:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80 DN 80 PN 40 FF400 F Water -40 120 °C
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:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80 DN 80 PN 40 FF400 F Water -40 120 °C 20 °C
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:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80 DN 80 PN 40 FF400 F Water -40 120 °C 20 °C
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:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80 DN 80 PN 40 FF400 F Water -40 120 °C 20 °C 998.2 kg/m³
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:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80 DN 80 PN 40 FF400 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC
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:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80 DN 80 PN 40 FF400 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS IE3
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:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80 DN 80 PN 40 FF400 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS IE3 45 kW
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:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80 DN 80 PN 40 FF400 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS IE3 45 kW 45 kW
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: Mains frequency:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80 DN 80 PN 40 FF400 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS IE3 45 kW
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:	SIC Graflon 55 °C 33 bar 33 bar / 120 °C 33 bar / -40 °C DIN DN 80 DN 80 PN 40 FF400 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS IE3 45 kW 45 kW 50 Hz







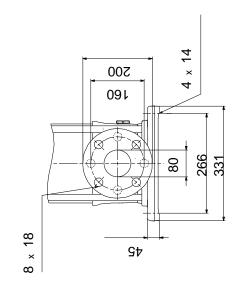


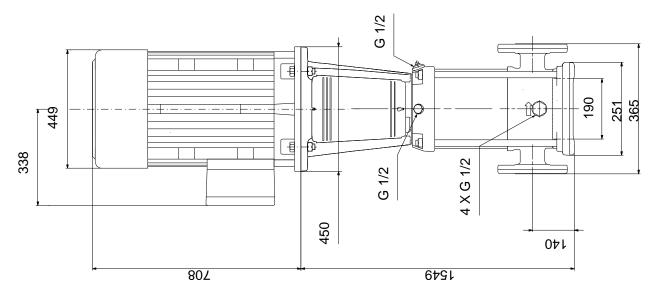
Description	Value
Starting current:	690-690 %
Cos phi - power factor:	0.89
Rated speed:	2960 rpm
Efficiency:	IE3 94,0%
Motor efficiency at full load:	94.0-94.0 %
Motor efficiency at 3/4 load:	94.5-94.5 %
Motor efficiency at 1/2 load:	94.4-94.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
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.:	385917120



Date: 17/02/2019

96123139 CRN 45-12 A-F-A-E-HQQE 50 Hz



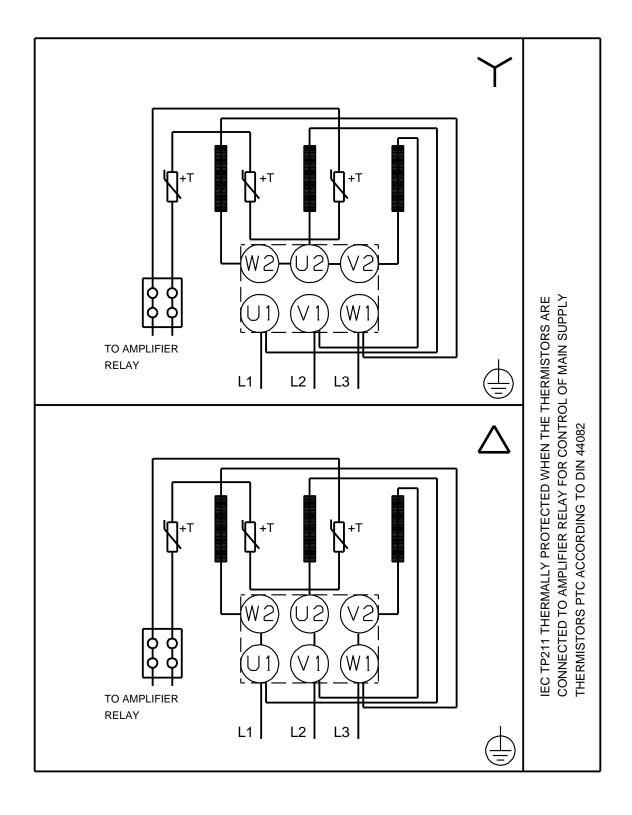


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 17/02/2019

96123139 CRN 45-12 A-F-A-E-HQQE 50 Hz

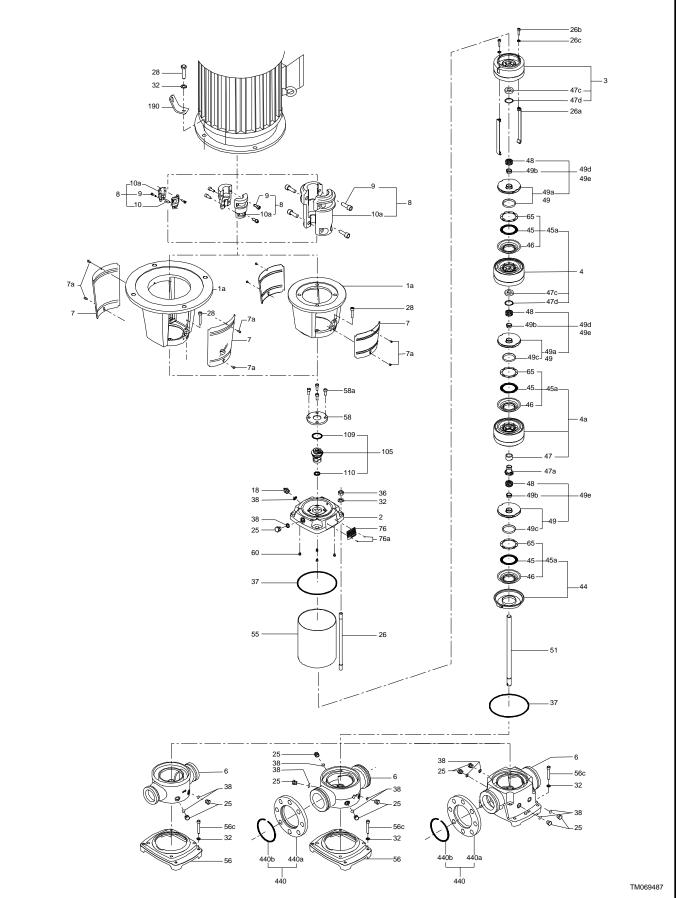


Note! All units are in [mm] unless others are stated.



Date: 17/02/2019

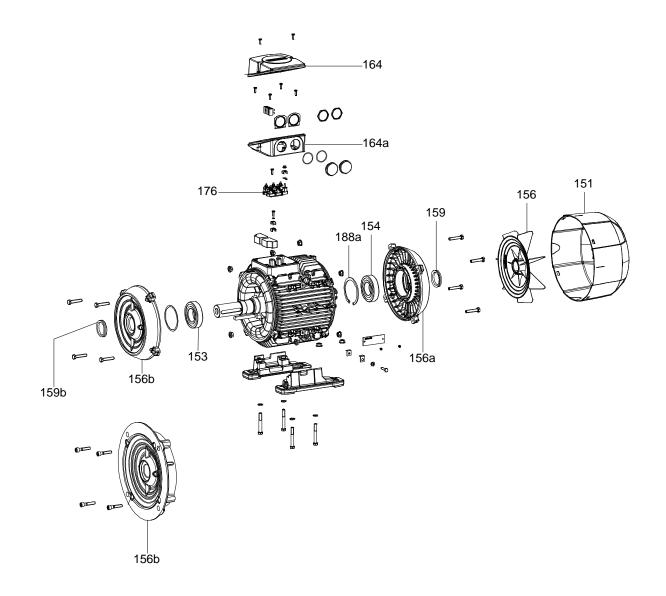
(tm069487 for LACR model B standard)





Date: 17/02/2019

(TM058162)





Date: 17/02/2019

Spare parts CRN 45-12, Product No. 96123139 Valid from 3.3.2014 (1410)

	Pos		scription	Annotation	Classification Data	Part no.	Qt	у	
•	6	Bas				96587695	1	1	pcs
	6	17:4	Base			00000000	4	1	
•	4-	ΝII,	chambers			98633888	1	_	pcs
•	4a		Intermediate chamber cpl. Cone					1	
			Spare, turbulence optimizer KP						
			Spare, turbulence optimizer KP						
			Spare, turbulence optimizer KP						
			Spare, turbulence optimizer KP Spare, turbulence optimizer KP						
	150		Neck ring cpl.						
	45a 47		Bearing Cpi.						
			<u> </u>					4	
_	47a		Bearing cpl.					1	
			Driver						
			Holder						
			Disc spring						
		12''	Bearing ring			00440504	_		
•		Kit,	coupling			96416594	1		pcs
	_		Adjusting fork		D: : 00/55			1	
	8		Coupling cpl.		Dimension: 22/55			1	
	9		Hex socket head cap screw		Designation: DI	N 912			
					Length (mm): 25				
					Thread: M10				
	10a		Coupling half						
•		Kit,	coupling guard			96505135	1		pcs
	7a		Socket button head screw					4	
	7		Coupling guard					2	
•		Kit,	cover			98832448	1		pcs
	58a		Hex socket head cap screw		Designation: DIN 9	12		4	
					Length (mm): 25				
					Thread: M10				
	58		Cover					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	
		Kit.	plug			96505136	1		pcs
-		.,							



Pos	Description Spindle	Annotation Classification Data Part no.	Ψŧy	. U
25	Plug			4
25	Plug			4
25	Plug	Di		1
38	O-ring	Diameter: 16,3		2
		Material type: FKM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		4
		Material type: FKM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		6
		Material type: FKM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		2
		Material type: EPDM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		4
	, and the second	Material type: EPDM		
		Thickness: 2,4		
	Kit, shaft seal HQQE	96525458	1	р
	Grinding device	55025450	•	1
105	Shaft seal	Material type: HQQE		1
100	Adjusting fork	Material type. HQQL		'
109				
110	O-ring O-ring	Diameter: 21,5		
110	O-ning	•		
		Material type: EPDM		
	129	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	р
156	Kit, fan	98671		1
151	Kit, fan cover	98062	276	1
156b	Kit, flange	98062	292	1
	Kit, lubrication nipple	98062	533	1
156a	Kit, ND-end shield cpl.	98062	518	1
159b	Kit, seal ring	98062	552	1
176	Kit, terminal board	98062	237	1
164a	Kit, terminal box	98062		
1a	Motor stool	96587724		po
2	Pump head	96587726		p
3	Upper chamber cpl.	98634048		po
47c	Bulk, Bush (10 pcs)	99321		1
4	Bulk, Intermediate chamber cpl. (3 pcs)	99335210		
				p(
45a	Bulk, Neck ring cpl. (10 pcs)	96547		
4a	Bulk, Intermediate chamber cpl. (5 pcs)	99262907		р
4	Intermediate chamber cpl.	98634020		po
6	Base	99347238		р
7a	Bulk, Socket button head screw (10 pcs)	96549696		р
7	Bulk, Coupling guard (10 pcs)	96603279		р
18	Bulk, Air vent screw (5 pcs)	96547461	1	р
18	Air vent screw	95061351	1	р
25	Bulk, Plug (10 pcs)	96536013	1	po
26	Bulk, Staybolt (4 pcs)	Length (mm): 1192 98698636		po
		Thread: M16		



	Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
	26	Staybolt		Length (mm): 1192	98976692		pcs
		•		Thread: M16			•
	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	2	pcs
	26a	Strap cpl.		Length (mm): 969	98983887	2	pcs
				Thread: M8			
	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	8	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
				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
	45	Bulk, Seal ring (10 pcs)			965359	952	1
	65	Bulk, Top f/neck ring (10 pcs)			965473	390	1
+	47a	Bulk, Bearing cpl. (5 pcs)			99270649	3	pcs
+	47a	Bulk, Bearing cpl. (10 pcs)			96535951	3	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		pcs
	49c	Bulk, Wear ring (10 pcs)			965359	949	1
+	49a	Impeller, reduced diameter			98585277	1	pcs
	55	Outer sleeve			98820371	1	pcs
	56	Base plate			96587696	1	pcs
	58	Cover			98893158	1	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		1
+	105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984070		pcs
	440b	Bulk, Lock ring (4 pcs)			96535943	4	pcs