

Date: 17/02/2019

Qty. | Description

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



Product No.: 96123138

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

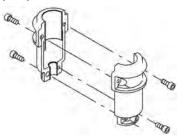
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

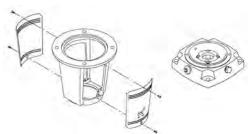
The colour code for the finished product is NCS 9000/RAL 9005.

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: 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: Stainless steel

EN 1.4408 AISI 316

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

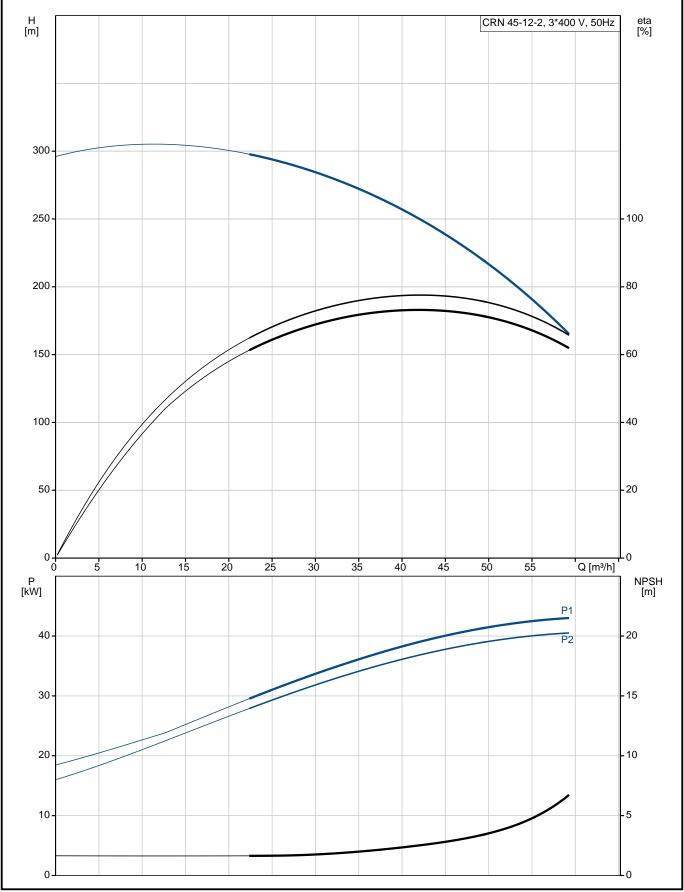


		Date:	17/02/2019	
Description				
Shipping volume: Danish VVS No.:	1.24 m³ 385917122			
Danish VV3 No	303917122			



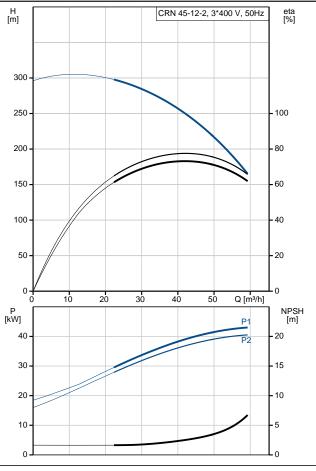
Date: 17/02/2019

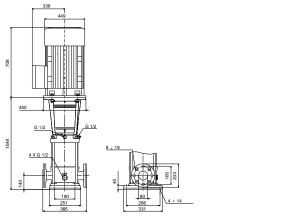
96123138 CRN 45-12-2 A-F-A-E-HQQE 50 Hz

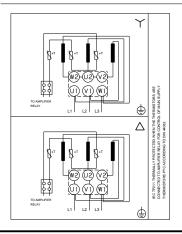




Description Value General information: CRN 45-12-2 AF-A-E-HQQE Product No: 96123138 EAN number: 5700396691831 Technical: 2960 rpm Pump speed on which pump data are based: 242.1 m Rated flow: 45 m³/h Rated head: 242.1 m Head max: 295.8 m Stages: 12 Impellers: 12 Number of reduced-diameter impellers: 2 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: B Materials: B Base: Stainless steel Mactrial: Stainless steel EN 1.4401 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Material code:		
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Code for rubber: Bearing: Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 33 bar / 120 °C 33 bar / -40 °C Type of connection: DIN Size of inlet connection: Pressure rating for pipe connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Pectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mator SIC SIC SIC SIC SIC SIC SIC SIC	Material code:	A
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: PN 80 Size of outlet connection: PN 40 Flange size for motor: Connect code: F Liquid: Pumped liquid: Uquid temperature range: Liquid temperature during operation: Density: Pectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Rated voltage: Sa bar / A0 °C DIN Size of Outlet connection: DN 80 PN 40 FF400 FF400 Connect code: F Liquid: Water Liquid temperature auring operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: SIEMENS IE3 Rated power - P2: 45 kW Mains frequency: 50 Hz Rated voltage:		E
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: PN 80 Size of outlet connection: PN 40 Flange size for motor: Connect code: F Liquid: Pumped liquid: Uquid temperature range: Liquid temperature during operation: Density: Pectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Rated voltage: Sa bar / A0 °C DIN Size of Outlet connection: DN 80 PN 40 FF400 FF400 Connect code: F Liquid: Water Liquid temperature auring operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: SIEMENS IE3 Rated power - P2: 45 kW Mains frequency: 50 Hz Rated voltage:	Bearing:	SIC
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: PN 40 Flange size for motor: FF400 Connect code: F Liquid: Pumped liquid: Water Liquid temperature range: -40 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 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 Rated voltage:		Graflon
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: PN 40 Flange size for motor: FF400 Connect code: F Liquid: Pumped liquid: Water Liquid temperature range: -40 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 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 Rated voltage: 3 x 380-420D/660-725Y		<u> </u>
Maximum operating pressure: 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: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: DN 80 FF400 Connect code: F Liquid: Pumped liquid: Water Liquid temperature appe: Liquid temperature liquing operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor standard: Motor type: SIEMENS IE Efficiency class: Rated power - P2: Power (P2) required by pump: A5 kW Mains frequency: Rated voltage: X3 x 380-420D/660-725Y V	Maximum ambient temperature:	55 °C
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: PN 40 Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Density: Pelectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Patent A S W Mains frequency: Signal A S A S A S A S A S A S A S A S A S A		
Type of connection: Type of connection: DIN Size of inlet connection: DN 80 Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Density: Pelectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Rated voltage: A0 . 120 °C SIEMENS IE3 Rated voltage: 3 x 380-420D/660-725Y Rated voltage:		
Type of connection: Size of inlet connection: DN 80 Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Dn 80 PN 40 FF400 Connect code: F Liquid: Pumped liquid: Uater Liquid temperature ange: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Rated voltage: Rated voltage: DN 80 PN 40 EF400 F Liquid: Vater Liquid: Uater Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ EleC SIEMENS IE3 Rated power - P2: 45 kW Power (P2) required by pump: 45 kW Mains frequency: SO Hz Rated voltage:	max procedure at stated temp.	
Size of inlet connection: Size of outlet connection: DN 80 Pressure rating for pipe connection: PN 40 Flange size for motor: Connect code: F Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Pelectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Rated voltage: DN 80 DN 80 DN 80 DN 80 DN 80 PN 40 FF400 FC Connect code: F Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: SIEMENS IE 3 Rated power - P2: 45 kW Power (P2) required by pump: 45 kW Mains frequency: SO Hz Rated voltage:	Type of connection:	
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: F Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Pelectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Rated voltage: DN 80 PN 40 PV 40 FF400 FC Connect code: F Uater Power (P2) required by pump: A5 kW Mains frequency: SIEMENS Rated voltage: DN 80 PN 40 Power (P2) required by pump: A5 kW Rated voltage: Rated voltage: DN 80 PN 40 FF400 FE400 SIEMENS IEC Motor type: SIEMENS IE3 Rated power - P2: A5 kW Power (P2) required by pump: A5 kW Mains frequency: SO Hz Rated voltage:		
Pressure rating for pipe connection: Flange size for motor: Connect code: F Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Pelectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Rated voltage: PN 40 Water F-40 120 °C 20 °C P98.2 kg/m³ EIEC Motor type: SIEMENS IE3 Rated power - P2: 45 kW Power (P2) required by pump: A5 kW Rated voltage: Rated voltage:		
Flange size for motor: Connect code: F Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Pelectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Rated voltage: FF400 FF400 FF400 FF400 FF400 FF400 Water Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ EIEC Motor type: SIEMENS IE3 Rated by SIEMENS IE3 Rated power - P2: 45 kW Power (P2) required by pump: 45 kW Mains frequency: S0 Hz Rated voltage:		
Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Density: Blectrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Rated voltage: Rated voltage: F Water Water L20 °C 20 °C Density: 998.2 kg/m³ EEC SIEMENS IEC Motor type: SIEMENS IE3 Rated power - P2: 45 kW A5 kW Mains frequency: 50 Hz Rated voltage:		
Liquid: Pumped liquid: Uiquid temperature range: Uiquid temperature during operation:	9	
Pumped liquid: Water Liquid temperature range: -40 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 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		ı
Liquid temperature range: Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: -40 120 °C 20 °C 298.2 kg/m³ IEC SIEMENS IES 45 kW Power (P2) required by pump: 45 kW Mains frequency: 3 x 380-420D/660-725Y	•	Wotor
Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ 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		
Density: 998.2 kg/m³ Electrical data: IEC 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		
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		
Motor standard: Motor type: SIEMENS IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: IEC SIEMENS IE3 R45 kW 45 kW Mains frequency: 50 Hz	-	998.2 kg/m³
Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: SIEMENS IE3 45 kW 50 Hz Rated voltage:		IFO
IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: IE3 45 kW 50 Hz Rated voltage: 3 x 380-420D/660-725Y		
Rated power - P2: 45 kW Power (P2) required by pump: 45 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y		
Power (P2) required by pump: 45 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y	-	
Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y		
Rated voltage: 3 x 380-420D/660-725Y V		
Rated voltage:	Mains frequency:	50 Hz
	Rated voltage:	
Rated current: 81,0-74,0/47,0-43,0 A		
	Rated current:	81,0-74,0/47,0-43,0 A







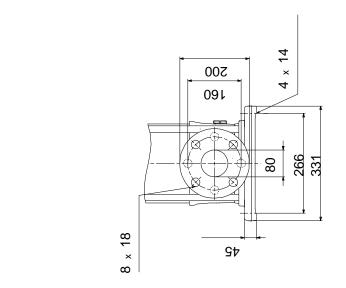


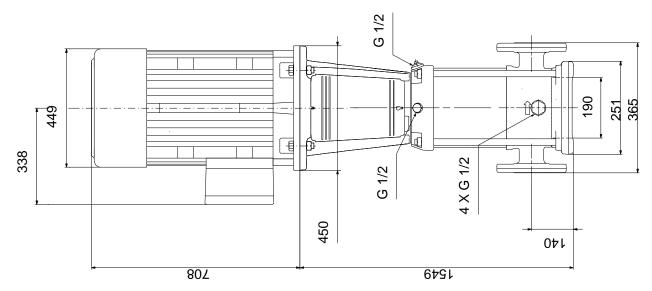
Description	Value
Starting current:	690-690 %
Cos phi - power factor:	0.89
Rated speed:	2960 rpm
Efficiency:	IE3 94,0%
Motor efficiency at full load:	94.0-94.0 %
Motor efficiency at 3/4 load:	94.5-94.5 %
Motor efficiency at 1/2 load:	94.4-94.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
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.:	385917122



Date: 17/02/2019

96123138 CRN 45-12-2 A-F-A-E-HQQE 50 Hz



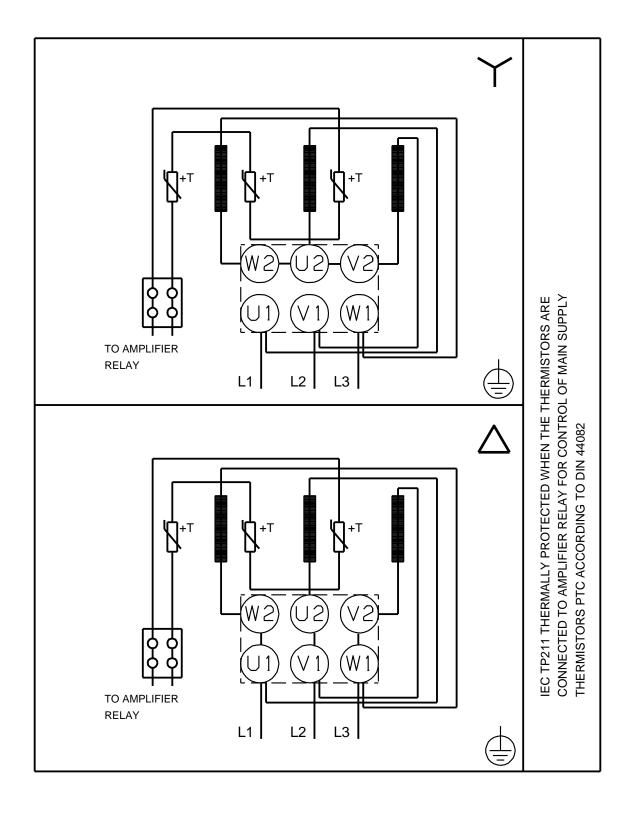


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 17/02/2019

96123138 CRN 45-12-2 A-F-A-E-HQQE 50 Hz

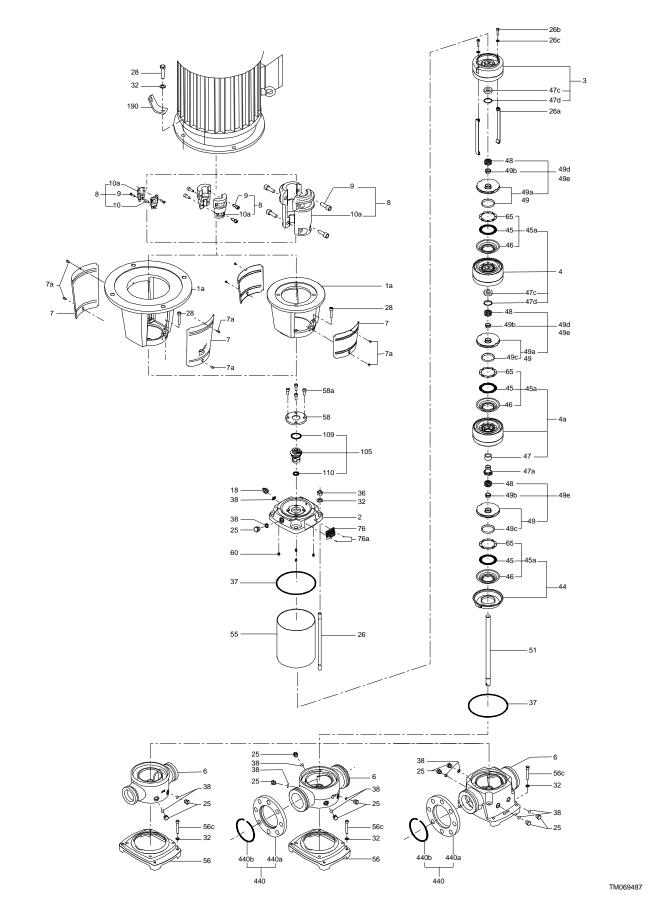


Note! All units are in [mm] unless others are stated.



Date: 17/02/2019

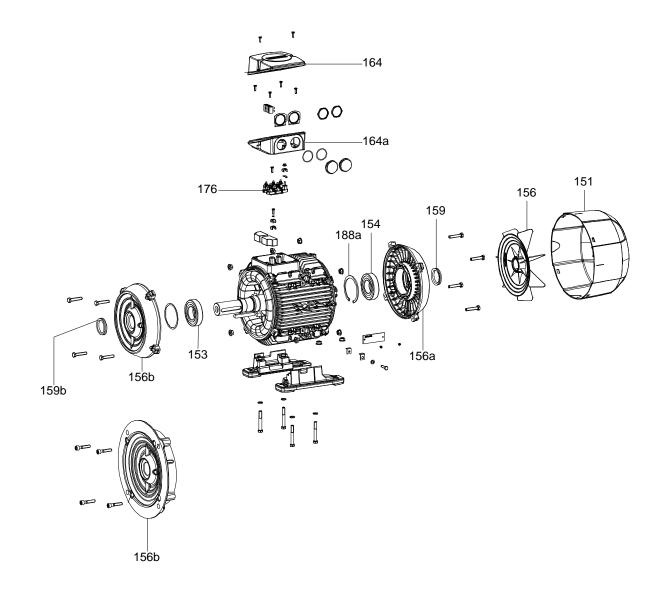
(tm069487 for LACR model B standard)





Date: 17/02/2019

(TM058162)





Date: 17/02/2019

Spare parts CRN 45-12-2, Product No. 96123138 Valid from 3.3.2014 (1410)

	Pos	Description	Annotation	Classification Data	Part no.		Unit
-		Base			96587695	1	pcs
	6	Base					1
-	80	Chamber stack			96472030		pcs
-	80	Chamber stack					1
-	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: DIN	Ι 125Δ		
	200	Washer		Thickness: 1,6	1237		
	26b	Hex socket head cap screw		11110K11633. 1,0			
	26a	Strap cpl.		Length (mm): 96	0		
	20a	Зпар срг.		Thread: M8	9		
	44	Suction interconnector cpl.		Tilleau. Mo			
_							
	44a	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.					
	48	Nut					
	49b	Split cone					
-	49a	Impeller, reduced diameter					
		Impeller hub					
	49c	Wear ring					



Pos	Description	Annotation Classification Data	Part no.	Qty	<i>J</i> .	Un
49d	Impeller cpl. reduced diameter					
48	Nut					
49b	Split cone					
49a	Impeller, reduced diameter					
	Impeller hub					
49c	Wear ring					
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	
	Driver					
	Holder					
	Disc spring					
	Bearing ring					
	Kit, coupling		96416594	1		pcs
	Adjusting fork				1	•
8	Coupling cpl.	Dimension: 22/55			1	
9	Hex socket head cap screw	Designation: DIN	N 912			
	nox cooner nead cap coren	Length (mm): 25				
		Thread: M10				
10a	Coupling half	11110dd. 11110				
100	Kit, coupling guard		96505135	1		pcs
7a	Socket button head screw		00000100	•	4	poc
7	Coupling guard				2	
'	Kit, cover		98832448	1		pcs
58a	Hex socket head cap screw	Designation: DIN 91			4	po
Jua	Hex socket flead cap screw	Length (mm): 25	۷.		_	
		Thread: M10				
58	Cover	Tillead. WTO			1	
50			06446500	4	1	200
	Kit, gaskets		96416599	1	_	pcs
^-	Adjusting fork				1	
37	O-ring	D : 400			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, Impeller, reduced diamete		98634018	1		pcs
48	Nut				1	
48	Nut				1	



Pos	Description	Annotation Classification Data Part no.		. Ur
49b	Split cone			1
49a	Impeller, reduced diameter			1
	Impeller hub			
49c	Wear ring			
	Kit, plug	96505136	1	рс
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
	- 3	Material type: FKM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		6
00		Material type: FKM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		2
30	O-ring	Material type: EPDM		_
		Thickness: 2,4		
00	O min m			_
38	O-ring	Diameter: 16,3		4
		Material type: EPDM		
		Thickness: 2,4		
	Kit, shaft seal HQQE	96525458		pc
	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	рс
45	Seal ring			13
47d	Lock ring			13
47c	Bush			10
49c	Wear ring			13
65	Top f/neck ring			13
	Motor		1	рс
156	Kit, fan	986719	84	1
151	Kit, fan cover	980622		1
156b	Kit, flange	980622		
	Kit, lubrication nipple	980625		1
156a	Kit, ND-end shield cpl.	980625		1
159b	Kit, seal ring	980625		
176	Kit, terminal board	980622		
164a	Kit, terminal box	980622		
1a	Motor stool	96587724		рс
2	Pump head	96587726		рс
3	Upper chamber cpl.	98634048		pc
47c	Bulk, Bush (10 pcs)	993211		1
4	Bulk, Intermediate chamber cpl. (3 pcs)	99335210		рс
45a	Bulk, Neck ring cpl. (10 pcs)	965473	92	1
4a	Bulk, Intermediate chamber cpl. (5 pcs)	99262907	3	рс
4	Intermediate chamber cpl.	98634020	8	рс
	Base	99347238		pc
6	Dase	000-17200		ρc



	Pos	Description	Annotation	Classification Data	Part no.	Qty	٠. ا	Unit
	7	Bulk, Coupling guard (10 pcs)			96603279	2	ı	pcs
+	18	Bulk, Air vent screw (5 pcs)			96547461	1	-	pcs
+	18	Air vent screw			95061351	1	ı	pcs
	25	Bulk, Plug (10 pcs)			96536013	1	ı	pcs
	26c	Bulk, Washer (4 pcs)		Designation: DIN 125A	99262704	2	ı	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	ı	pcs
				Thread: M8				
	26	Bulk, Staybolt (4 pcs)		Length (mm): 1192	98698636	4	-	pcs
				Thread: M16				
	26	Staybolt		Length (mm): 1192	98976692	4	ı	pcs
				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	8	-	pcs
				Internal diameter: 17				
				Outer diameter: 30				
				Thickness: 3				
	36	Bulk, Hex nut (20 pcs)		Thread: M16	96620480		-	pcs
	38	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815	2	- 1	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			pcs
	45	Bulk, Seal ring (10 pcs)			979114		1	
	45	Bulk, Seal ring (10 pcs)			965359			
	65	Bulk, Top f/neck ring (10 pcs)			965473		1	
+	47a	Bulk, Bearing cpl. (5 pcs)			99270649	-		pcs
+	47a	Bulk, Bearing cpl. (10 pcs)			96535951	-	ı	pcs
	48	Bulk, Nut (3 pcs)			99262680		-	pcs
	48	Bulk, Nut (10 pcs)			99262683		-	pcs
	48	Bulk, Nut (10 pcs)			96536016		-	pcs
	49b	Bulk, Split cone (10 pcs)			96536010		-	pcs
-	49a	Bulk, Impeller, reduced diameter (5 pcs)			96535957		ı	pcs
	49c	Bulk, Wear ring (10 pcs)			965359		1	
+	49a	Impeller, reduced diameter			98585277		ı	pcs
	55	Outer sleeve			98820371			pcs
	56	Base plate			96587696		ı	pcs
	58	Cover			98893158		١	pcs
	60	Bulk, Spring (20 pcs)			96536032	4		pcs
-	105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984086		ı	pcs
		Adjusting fork			965878	396	1	
	109	Bulk, O-ring (10 pcs)			965475	586	1	
+	105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984070	1	ı	pcs
1	440b	Bulk, Lock ring (4 pcs)			96535943	1		pcs