

18/02/2019

### Qty. | Description

1

#### CR 64-4-2 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96123534

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.

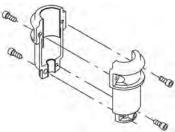
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.

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.

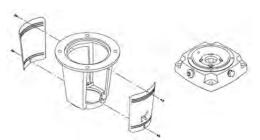


The motor stool connects the pump head and motor. The pump head has a combined 1/2" priming plug and vent screw.



Date:

18/02/2019



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.

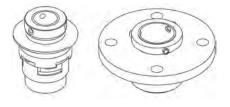
Primary seal:

- 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.

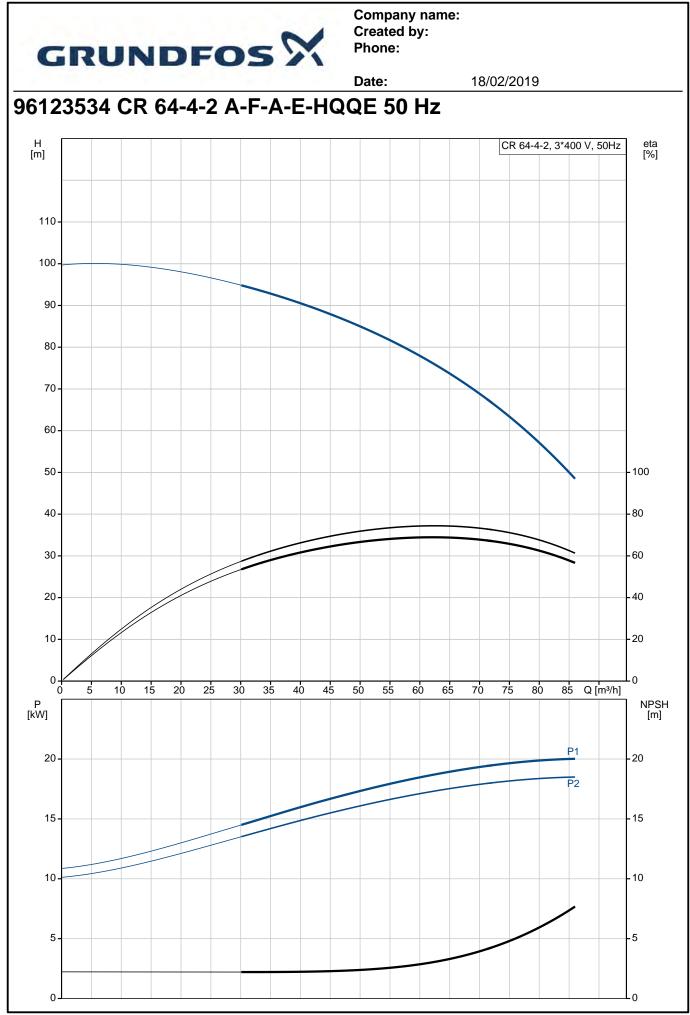
The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.



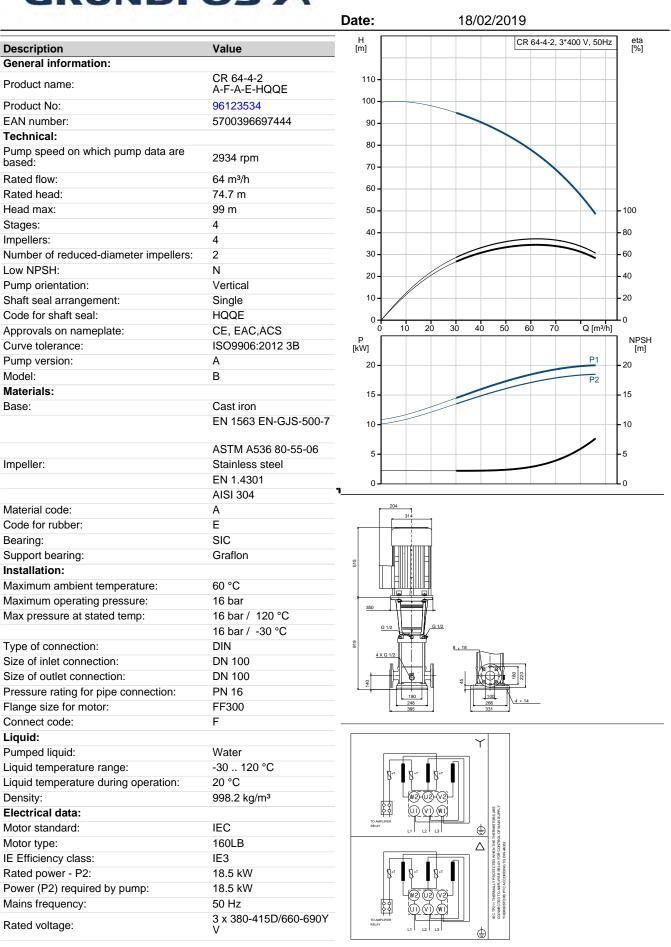
Frequency converter: N   Liquid: Pumped liquid: N   Pumped liquid: N   Liquid temperature range: -   Liquid temperature during operation Density: S   Technical: Pump speed on which pump data Rated flow: G   Rated head: 7 Pump orientation: N   Shaft seal arrangement: S Code for shaft seal: H   Approvals on nameplate: C C C	998.2 kg/m <sup>3</sup> are based: 2934 rpm 64 m <sup>3</sup> /h '4.7 m /ertical Single HQQE CE, EAC,ACS SO9906:2012 3B Cast iron EN 1563 EN-GJS-500-7		
Controls:Frequency converter:NLiquid:VPumped liquid:VLiquid temperature range:-Liquid temperature during operationDensity:STechnical:Pump speed on which pump dataRated flow:6Rated head:7Pump orientation:VShaft seal arrangement:SCode for shaft seal:HApprovals on nameplate:C	Vater 30 120 °C 30 20 °C 998.2 kg/m <sup>3</sup> are based: 2934 rpm 34 m <sup>3</sup> /h 74.7 m /ertical Single 1QQE CE, EAC,ACS SO9906:2012 3B Cast iron EN 1563 EN-GJS-500-7		
Frequency converter: N   Liquid: Pumped liquid: N   Pumped liquid: N   Liquid temperature range: -   Liquid temperature during operation Density: S   Technical: Pump speed on which pump data Rated flow: G   Rated head: 7 Pump orientation: N   Shaft seal arrangement: S Code for shaft seal: H   Approvals on nameplate: C C C	Vater 30 120 °C 30 20 °C 998.2 kg/m <sup>3</sup> are based: 2934 rpm 34 m <sup>3</sup> /h 74.7 m /ertical Single 1QQE CE, EAC,ACS SO9906:2012 3B Cast iron EN 1563 EN-GJS-500-7		
Frequency converter:NLiquid:Pumped liquid:VPumped liquid:VLiquid temperature range:-Liquid temperature during operationDensity:STechnical:Pump speed on which pump dataRated flow:GRated head:7Pump orientation:VShaft seal arrangement:SCode for shaft seal:HApprovals on nameplate:G	Vater 30 120 °C 30 20 °C 998.2 kg/m <sup>3</sup> are based: 2934 rpm 34 m <sup>3</sup> /h 74.7 m /ertical Single 1QQE CE, EAC,ACS SO9906:2012 3B Cast iron EN 1563 EN-GJS-500-7		
Pumped liquid:VLiquid temperature range:-Liquid temperature during operation-Density:-Technical:-Pump speed on which pump data-Rated flow:-Rated head:-Pump orientation:-Shaft seal arrangement:-Code for shaft seal:-Approvals on nameplate:-	30 120 °C on: 20 °C 998.2 kg/m <sup>3</sup> are based: 2934 rpm 64 m <sup>3</sup> /h 74.7 m /ertical Single HQQE CE, EAC,ACS SO9906:2012 3B Cast iron EN 1563 EN-GJS-500-7		
Pumped liquid:VLiquid temperature range:-Liquid temperature during operation-Density:-Technical:-Pump speed on which pump data-Rated flow:-Rated head:-Pump orientation:-Shaft seal arrangement:-Code for shaft seal:-Approvals on nameplate:-	30 120 °C on: 20 °C 998.2 kg/m <sup>3</sup> are based: 2934 rpm 64 m <sup>3</sup> /h 74.7 m /ertical Single HQQE CE, EAC,ACS SO9906:2012 3B Cast iron EN 1563 EN-GJS-500-7		
Liquid temperature range: Liquid temperature during operation Density: <b>Technical:</b> Pump speed on which pump data Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate:	30 120 °C on: 20 °C 998.2 kg/m <sup>3</sup> are based: 2934 rpm 64 m <sup>3</sup> /h 74.7 m /ertical Single HQQE CE, EAC,ACS SO9906:2012 3B Cast iron EN 1563 EN-GJS-500-7		
Liquid temperature during operation Density: 9 <b>Technical:</b> Pump speed on which pump data Rated flow: 6 Rated head: 7 Pump orientation: V Shaft seal arrangement: 5 Code for shaft seal: H Approvals on nameplate: 0	on: 20 °C 998.2 kg/m <sup>3</sup> are based: 2934 rpm 64 m <sup>3</sup> /h 74.7 m /ertical Single HQQE CE, EAC,ACS SO9906:2012 3B Cast iron EN 1563 EN-GJS-500-7		
Technical:Pump speed on which pump dataRated flow:Rated head:7Pump orientation:Shaft seal arrangement:Scode for shaft seal:Approvals on nameplate:	are based: 2934 rpm 34 m <sup>3</sup> /h 74.7 m /ertical Single HQQE CE, EAC,ACS SO9906:2012 3B Cast iron EN 1563 EN-GJS-500-7		
Pump speed on which pump dataRated flow:6Rated head:7Pump orientation:1Shaft seal arrangement:5Code for shaft seal:6Approvals on nameplate:6	64 m <sup>3</sup> /h 74.7 m /ertical Single HQQE CE, EAC,ACS SO9906:2012 3B Cast iron EN 1563 EN-GJS-500-7		
Pump speed on which pump dataRated flow:6Rated head:7Pump orientation:1Shaft seal arrangement:5Code for shaft seal:6Approvals on nameplate:6	64 m <sup>3</sup> /h 74.7 m /ertical Single HQQE CE, EAC,ACS SO9906:2012 3B Cast iron EN 1563 EN-GJS-500-7		
Rated flow:ARated head:7Pump orientation:XShaft seal arrangement:SCode for shaft seal:HApprovals on nameplate:C	64 m <sup>3</sup> /h 74.7 m /ertical Single HQQE CE, EAC,ACS SO9906:2012 3B Cast iron EN 1563 EN-GJS-500-7		
Pump orientation:VShaft seal arrangement:SCode for shaft seal:HApprovals on nameplate:C	/ertical Single HQQE CE, EAC,ACS SO9906:2012 3B Cast iron EN 1563 EN-GJS-500-7		
Shaft seal arrangement:SCode for shaft seal:HApprovals on nameplate:C	Single HQQE CE, EAC,ACS SO9906:2012 3B Cast iron EN 1563 EN-GJS-500-7		
Code for shaft seal: H Approvals on nameplate: C	HQQE CE, EAC,ACS SO9906:2012 3B Cast iron EN 1563 EN-GJS-500-7		
Approvals on nameplate: 0	CE, EAC,ACS SO9906:2012 3B Cast iron EN 1563 EN-GJS-500-7		
	SO9906:2012 3B Cast iron EN 1563 EN-GJS-500-7		
	Cast iron EN 1563 EN-GJS-500-7		
	EN 1563 EN-GJS-500-7		
Materials:	EN 1563 EN-GJS-500-7		
	ASTM A536 80-55-06		
	Stainless steel		
•	EN 1.4301		
	AISI 304		
0	SIC		
Support bearing: 0	Graflon		
Installation:			
Maximum ambient temperature: 6	0° 00		
51 - 51 - 51 - 51 - 51 - 51 - 51 - 51 -	6 bar		
· · ·	6 bar / 120 °C 6 bar / -30 °C		
	DIN		
	DN 100		
	DN 100		
Pressure rating for pipe connection			
Flange size for motor: F	F300		
Electrical data:			
	EC		
	60LB		
	E3		
•	8.5 kW 8.5 kW		
	50 Hz		
	8 x 380-415D/660-690Y	V	
Rated current: 3	34,5-32,5/20,0-18,8 A		
0	330-980 %		
	).89-0.85		
•	2940-2950 rpm E3 92,4%		
	E3 92,4% )2.4-92.4 %		
	)3.2 %		
	03.2 %		



GRUNDFO	DS X	Phone:		
		Date:	18/02/2019	
Description				
Enclosure class (IEC 34-5): Insulation class (IEC 85):	55 Dust/Jetting F			
Others: Minimum efficiency index, MEI á	à‰¥: 0.70			
Net weight:	196 kg			
Gross weight: Shipping volume:	229 kg 0.495 m³			
Danish VVS No.:	385908042			



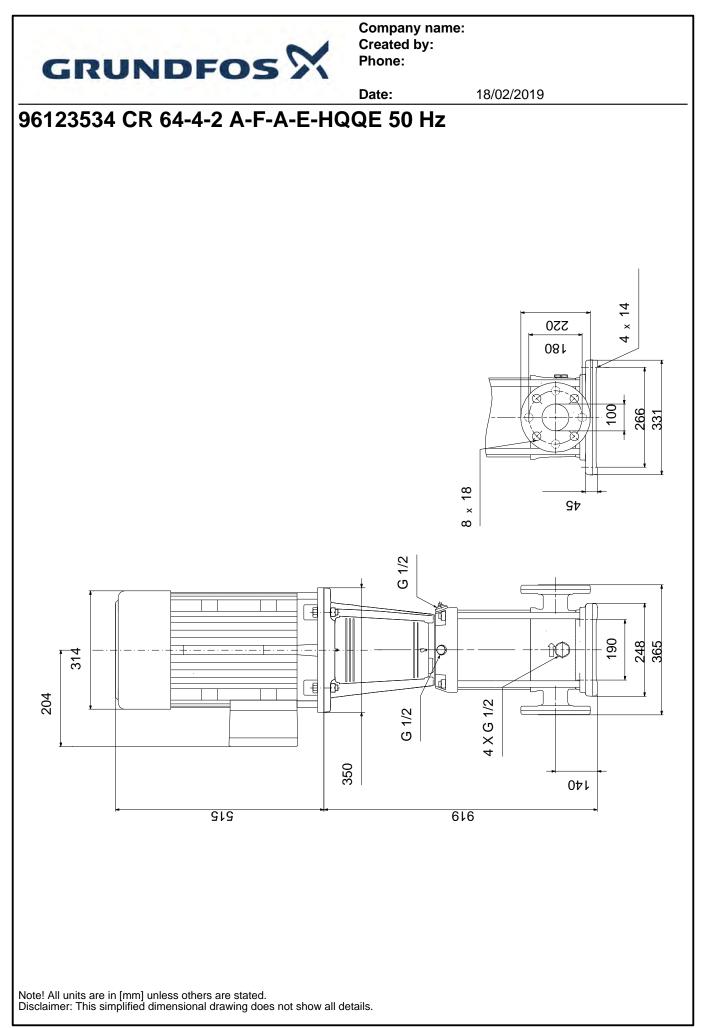


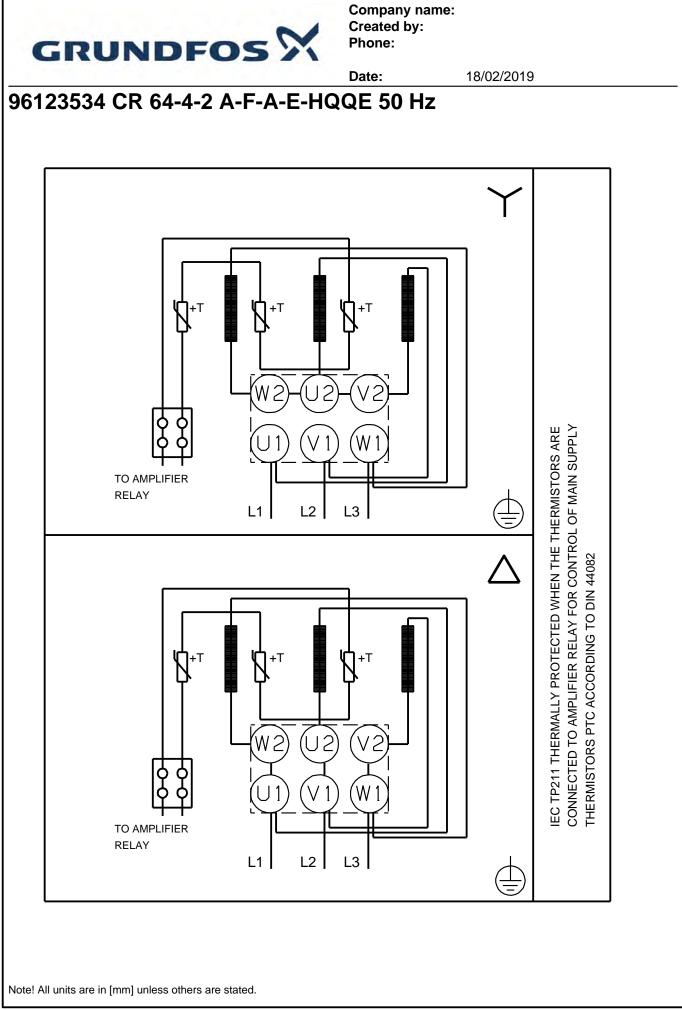


Printed from Grundfos Product Centre [2018.09.002]



		Date:	18/02/2019
Description	Value		
Rated current:	34,5-32,5/20,0-18,8 A	-	
Starting current:	830-980 %		
Cos phi - power factor:	0.89-0.85		
ated speed:	2940-2950 rpm		
fficiency:	IE3 92,4%		
lotor efficiency at full load:	92.4-92.4 %		
lotor efficiency at 3/4 load:	93.2 %		
lotor efficiency at 1/2 load:	93.2 %		
umber of poles:	2		
nclosure class (IEC 34-5):	55 Dust/Jetting		
nsulation class (IEC 85):	F		
lotor protec:	PTC		
lotor No:	85U17528		
Controls:			
requency converter:	NONE		
Others:			
linimum efficiency index, MEI ≥:	0.70		
et weight:	196 kg		
iross weight:	229 kg		
hipping volume:	0.495 m³		
anish VVS No.:	385908042		

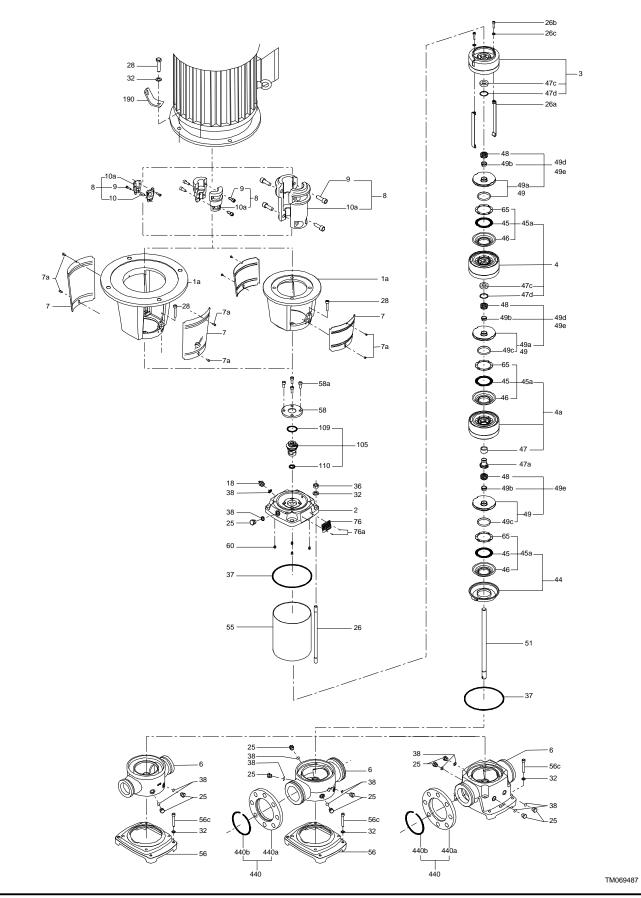




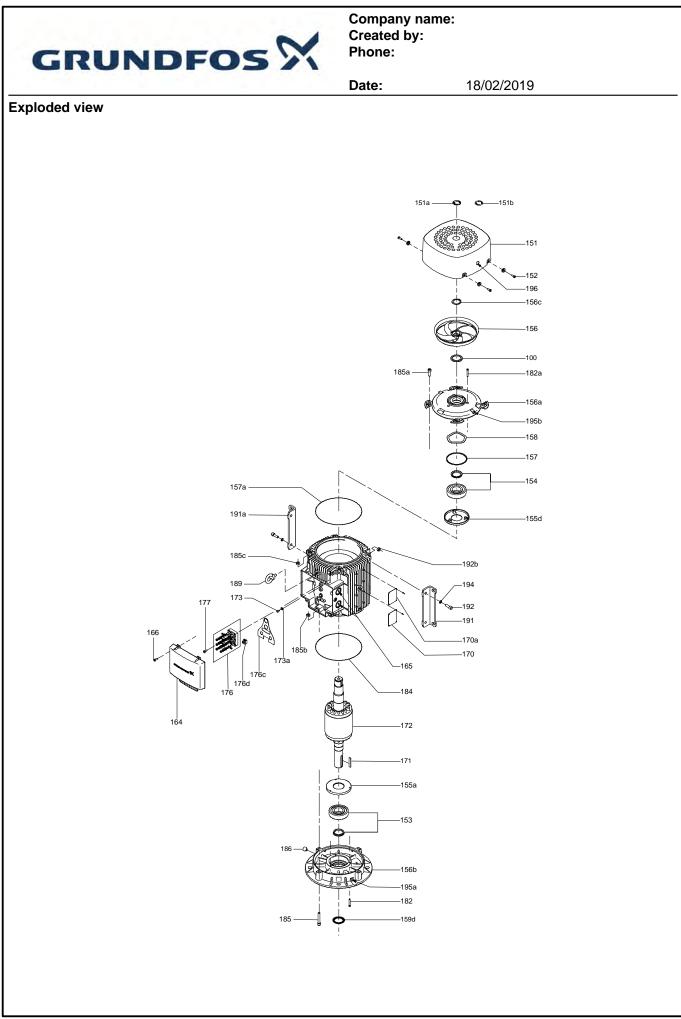


18/02/2019

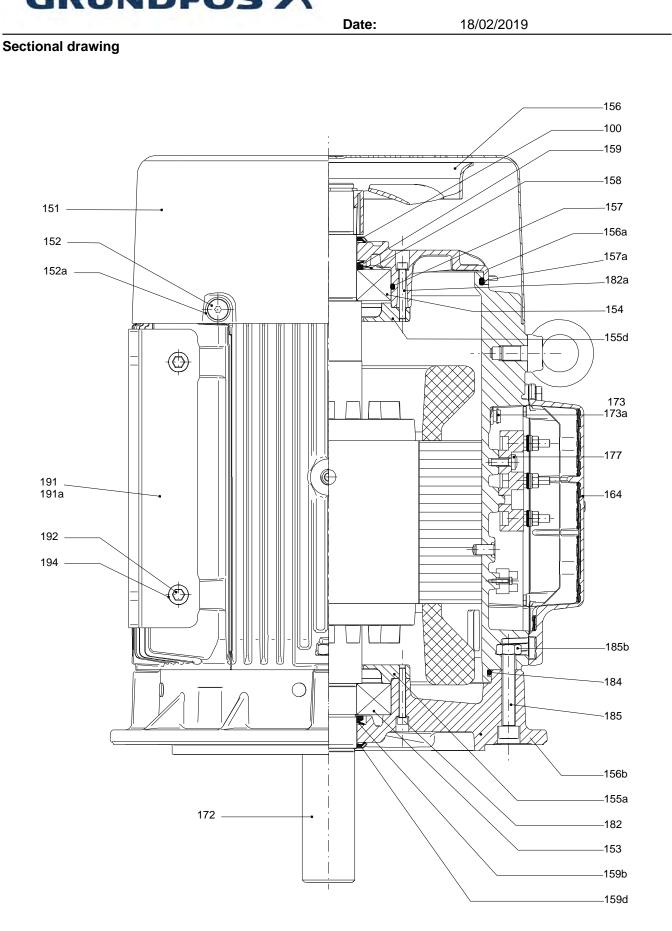
# (tm069487 for LACR model B standard)



Printed from Grundfos Product Centre [2018.09.002]









18/02/2019

# Spare parts CR 64-4-2, Product No. 96123534 Valid from 3.3.2014 (1410)

Pos	s Description	Annotation	Classification Data	Part no.	Qty.	
	Base			96587673	1	pcs
6	Base					1
	Kit, chamber stack			98050920	1	pcs
3	Upper chamber cpl.					1
	Cone					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
47d						
47c						
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						
45	Seal ring					
46	Neck ring					
65	Top f/neck ring					
47	Bearing					
4/	Intermediate chamber cpl.					2
4	Cone				4	<u> </u>
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
45-	Spare, turbulence optimizer KP					
45a	5 1					
45	Seal ring					
46	Neck ring					
65	Top f/neck ring					
47d	3					
47c						_
26c	Washer		Designation: DIN 125	A	2	2
			Thickness: 1,6			
26b	•					2
26a	Strap cpl.		Length (mm): 339,5		2	2
			Thread: M8			
44	Suction interconnector cpl.					1
	Inlet part					
45	Seal ring					
46	Neck ring					
65	Top f/neck ring					
47a						1
	Driver					
	Holder					
	Disc spring					
	Bearing ring					
49e	e Impeller cpl.				2	2



Doc	Description	Annotation	Classification Data	Dart no	<u></u>	/ Hnit
<b>Pos</b> 48	Description Nut	Annotation	Classification Data	Part no.	U	y. Unit
40 49b	Split cone					
490	Impeller					
ъJ	Impeller hub					
49c	Wear ring					
490 49d	Impeller cpl. reduced diameter					2
490 48	Nut					2
49b	Split cone					
49a	Impeller, reduced diameter					
10	Impeller hub					
49c	Wear ring					
51	Shaft					1
	Kit, chambers			98497500	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.					
45	Seal ring					
46	Neck ring					
65	Top f/neck ring					
47	Bearing					
47a	Bearing cpl.					1
	Driver					
	Holder					
	Disc spring					
	Bearing ring					
	Kit, coupling			96416592	1	pcs
	Adjusting fork					1
8	Coupling cpl.		Dimension: 22/42			1
9	Hex socket head cap screw		Designation: DI	V 912		
-			Length (mm): 25	-		
			Thread: M10			
10a	Coupling half					
	Kit, coupling guard			96505135	1	pcs
7a	Socket button head screw				•	4
7	Coupling guard					2
•	Kit, cover			98832448	1	pcs
58a	Hex socket head cap screw		Designation: DIN 91		1	4
Joa	They socket head cap sciew		Length (mm): 25	2		4
			Thread: M10			
59	Cover					1
58				06446500	4	1
	Kit, gaskets			96416599	1	pcs
07	Adjusting fork					1
37	O-ring		<b>.</b>			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
110						



Pos	Description	Annotation	Classification Data	Part no.	Otv	. Uni
1 03	Description	Annotation	Thickness: 3,55	Turtifu.	wiy.	
	Kit, impeller			98497503	1	pcs
48	Nut					1
48	Nut					1
49b	Split cone					1
49	Impeller					1
	Impeller hub					
49c	Wear ring					
	Kit, Impeller, reduced diamete			98634080	1	pcs
48	Nut					1
48	Nut					1
49b	Split cone					1
49a	Impeller, reduced diameter					1
100	Impeller hub					
49c	Wear ring					
430	Kit, plug			96505136	1	pcs
18	Air vent screw			30303130		pcs 1
10	Spindle					1
05	Plug					4
25 25	Plug					4
	Plug		Diamatan 40.0			1
38	O-ring		Diameter: 16,3			2
			Material type: FKM			
00			Thickness: 2,4			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
			Material type: EPDM			
			Thickness: 2,4			
	Kit, shaft seal HQQE			96525458	1	pcs
	Grinding device					1
105	Shaft seal		Material type: HQQ	=		1
	Adjusting fork					
109	O-ring					
110	O-ring		Diameter: 21,5			
	-		Material type: EPDM			
			Thickness: 4,25			
	Kit, wear parts		, -	98497495	1	pcs
45	Seal ring					8
47d	Lock ring					8
47c	Bush					6
49c	Wear ring					8
490 65	Top f/neck ring					o 8
00	Motor			85904228		
						pcs
0.01-	Kit, bearing cpl.			967966	010	1
32b	Waved washer					
153	Angular-contact bearing					
154	Ball bearing					
157	O-ring					
159	V-ring					
	Kit, bearing plate			967966	64	1



Dee	Description	Annotation	Classification Data	Dart no	<u></u>	/ Hnis
<b>Pos</b> 155.a	Bearing cover	Annotation	Classification Data	Part no.	QTY	. Unit
208a	Gasket					
208a 208	Hex socket head cap screw		Designation: D			
200				111912		
			Length (mm): 40			
			Thread: M5			
	Kit, eyebolt			96796	712	1
189	Eyebolt					
	Kit, fan			96796	654	1
156.c	Retaining ring					
156	Fan					
	Kit, fan cover			96796	647	1
151	Fan cover					
152.a	Rubber bush					
152	Hex head cap screw					
196	Diaphragm					
100	Kit, flange			96796	662	1
156.b				30790	002	1
	Flange					
159.b	Seal ring					
185.b	Nut					
185	Hex socket head cap screw					
186	Drain plug					
195.a	Grease nipple					
	Kit, gaskets			96798	508	1
184	O-ring		Diameter: 235			
	Kit, lubrication nipple			96796	671	1
195.b	Grease nipple					
195.a	Grease nipple					
	Kit, ND-end shield cpl.			96796	669	1
32b	Waved washer					
156.a	End shield NDE					
157	O-ring					
159	V-ring					
185.c	Nut					
185.a	Hex socket head cap screw					
195.b	Grease nipple			000.40		
	Kit, shaft seal			96843	459	1
159.b	V-ring					
159	V-ring					
	Kit, terminal board			96796	657	1
	Terminal connection					
	Washer					
36	Hex nut					
173	Torx Screw					
176.d	Terminal board					
176	Terminal board					
177	Torx Screw					
	Kit, terminal box cover			96796	659	1
164	Terminal box cover			30790	000	•
164 273a		N/				
	Pan head thread forming screw	NV		00000001	4	·
1a	Motor stool			98993921		pcs
2	Pump head			96547433		pcs
3	Upper chamber cpl.			98634144		pcs
47c	Bulk, Bush (10 pcs)			99321	194	1
4	Bulk, Intermediate chamber cpl. (3 pcs	;)		99481471	2	pcs
4a	Bulk, Intermediate chamber cpl. (5 pcs	5)		99262958	1	pcs
	Bulk, Intermediate chamber cpl. (10 pc			99481484	2	pcs
4						
				96547	441	1
4 45a 45	Bulk, Neck ring cpl. (10 pcs) Bulk, Seal ring (10 pcs)			96547	441 5360	



Pos	Description	Annotation	Classification Data	Part no.	Qty	. Unit
65	Bulk, Top f/neck ring (10 pcs)	Annotation	Shassingation Data		360	
6	Base			96587690		pcs
7a	Bulk, Socket button head screw (10 pcs)			96549696		pcs
7	Bulk, Coupling guard (10 pcs)			96603279		pcs
8	Coupling cpl.		Dimension: 22/42	96587704		pcs
18	Bulk, Air vent screw (5 pcs)		Dimension. 22/42	96547461		
	Air vent screw (5 pcs)			95061351		pcs
18					-	pcs
25	Bulk, Plug (10 pcs)		Designations DIN 4054	96536013		pcs
26c	Bulk, Washer (4 pcs)		Designation: DIN 125A	99262704	2	pcs
00-			Thickness: 1,6	0050000	~	
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): 339,5	98983892	2	pcs
			Thread: M8			
26	Staybolt		Length (mm): 496	98976696	4	pcs
-			Thread: M16			
28.a	Bulk, Hex head screw (20 pcs)			96620478		pcs
28	Bulk, Hex socket head cap screw (10 pcs)		Designation: DIN 912	96536147	4	pcs
			Length (mm): 50			
			Thread: M10			
32	Bulk, Washer (100 pcs)		Designation: DIN 125 A	98923051	8	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.			98634152	1	pcs
45	Bulk, Seal ring (10 pcs)			965360	30	1
65	Bulk, Top f/neck ring (10 pcs)			965360	14	1
47a	Bulk, Bearing cpl. (5 pcs)			99270649		pcs
47a	Bulk, Bearing cpl. (10 pcs)			96535951	1	pcs
48	Bulk, Nut (3 pcs)			99262680		pcs
48	Bulk, Nut (10 pcs)			99262683		pcs
48	Bulk, Nut (10 pcs)			96536016		pcs
49e	Bulk, Impeller cpl. (5 pcs)			96536036		pcs
48	Bulk, Nut (3 pcs)			992626		1
40	Bulk, Nut (10 pcs)			992626		1
40 48	Bulk, Nut (10 pcs)			992626		1
40 49b	Bulk, Split cone (10 pcs)			965360		
49e	Impeller cpl.			98394371		pcs
49b	Bulk, Split cone (10 pcs)			96536010		pcs
49a	Bulk, Impeller, reduced diameter (5 pcs)			99500075		pcs
49c	Bulk, Wear ring (10 pcs)		0 1 1 1 1 1 1 1	965358		
55	Outer sleeve		Outer diameter: 216,0	98820378	1	pcs
			Length (mm): 353,5			
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	96	1
109	Bulk, O-ring (10 pcs)			965475	86	1
105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984070	1	pcs
440b	Bulk, Lock ring (4 pcs)			96547435		pcs