

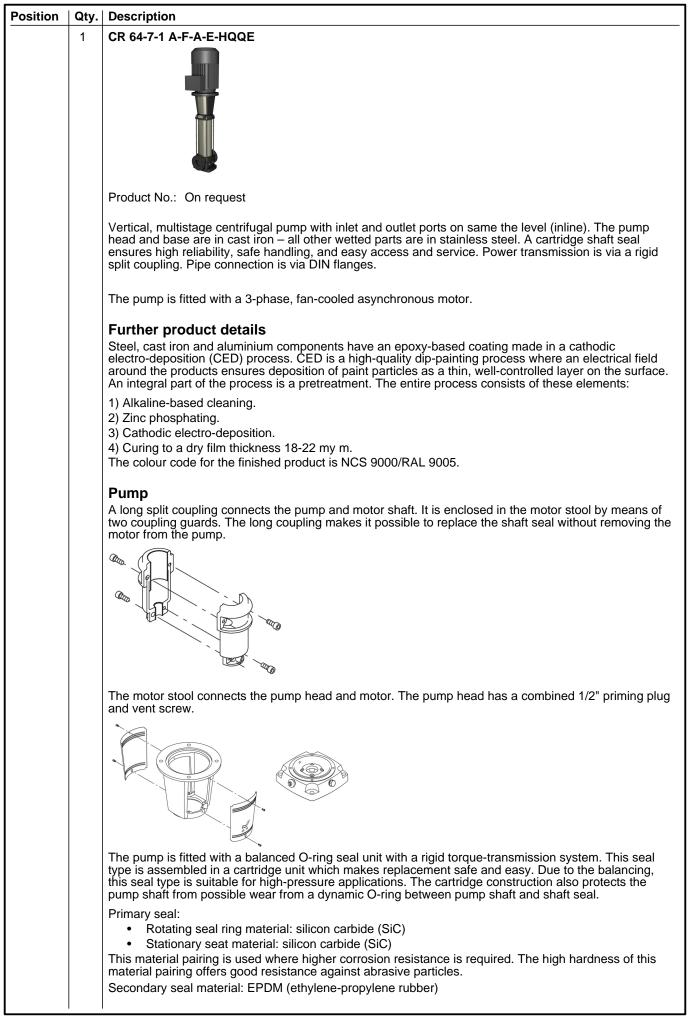
## CR64-7-1 A-F-A-E-HQQE 3x400/690 50 HZ Grundfos pump 96123544



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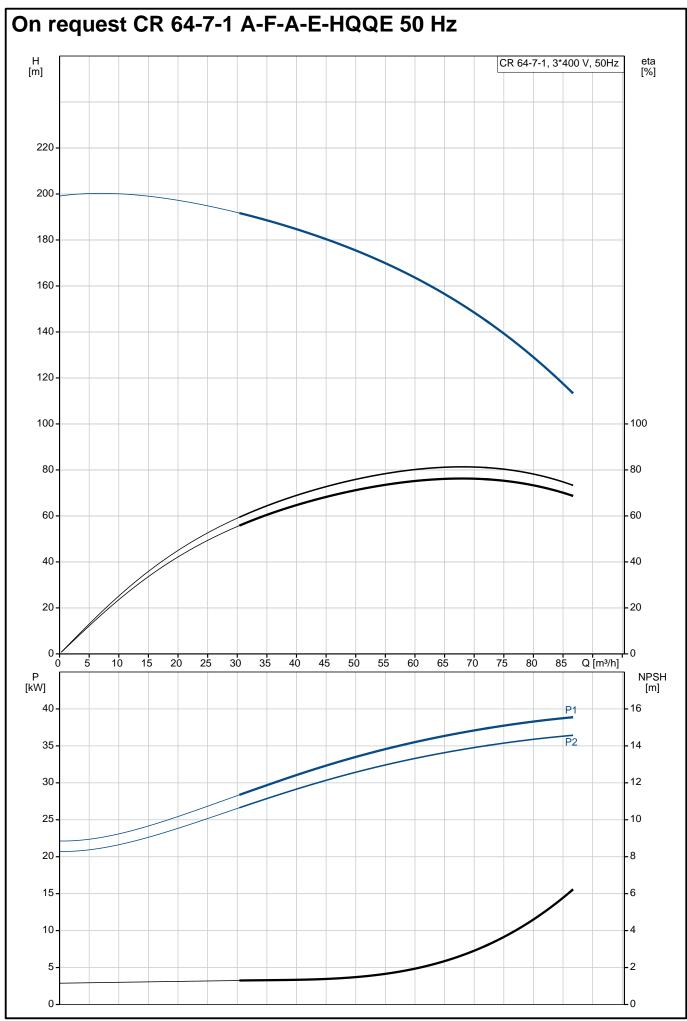
https://www.lenntech.com/grundfos/CRFAM/96123544/CR-64-7-1-A-F-A-E-HQQE.html

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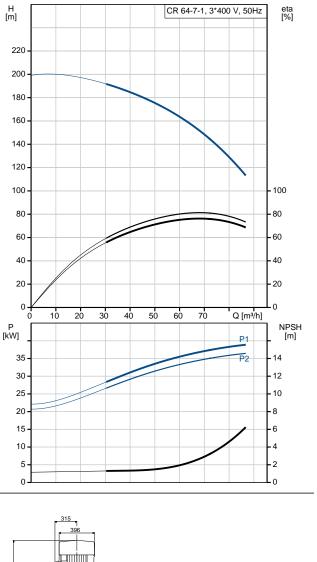


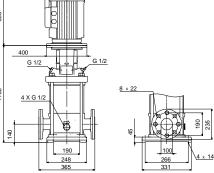
Position	Qty.	Description
		EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.
		The shaft seal is retained in the pump head by a cover and screws. It can be replaced without removing the motor.
		The chambers and impellers are made of stainless-steel sheet. The chambers 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.
		<ul> <li>Motor</li> <li>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).</li> <li>Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II). Electrical tolerances comply with IEC 60034.</li> <li>The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.</li> <li>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.</li> <li>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.</li> <li>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</li> </ul>
		Product Center.
		Controls: Frequency converter: NONE
		Liquid:WaterPumped liquid:WaterLiquid temperature range:-30 120 °CLiquid temperature during operation:20 °CDensity:998.2 kg/m³
		Technical:Rated flow:64 m³/hRated head:154.7 mPump orientation:VerticalShaft seal arrangement:SingleCode for shaft seal:HQQEApprovals on nameplate:CE, EAC,ACSCurve tolerance:ISO9906:2012 3B
		Materials:

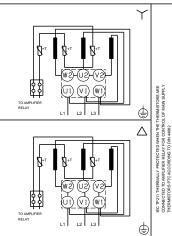
Position	Qty.	Description	
	αιγ.	-	<b>0</b>
		Base:	Cast iron
			EN 1563 EN-GJS-500-7
			ASTM A536 80-55-06
		Impeller:	Stainless steel
			EN 1.4301
			AISI 304
		Bearing:	SIC
		Support bearing:	Graflon
		Installation:	
		Maximum ambient temperature:	
		Maximum operating pressure:	30 bar
		Max pressure at stated temp:	30 bar / 120 °C
			30 bar / -30 °C
		Type of connection:	DIN
		Size of inlet connection:	DN 100
		Size of outlet connection:	DN 100
		Pressure rating for pipe connecti	
		Flange size for motor:	FF350
		<b></b>	
		Electrical data:	
		Motor standard:	
		Motor type:	SIEMENS
		IE Efficiency class:	IE3
		Rated power - P2:	37 kW
		Power (P2) required by pump:	
		Mains frequency:	50 Hz
		Rated voltage:	3 x 380-420D/660-725Y V
		Rated current:	68,0-63,0/39,0-36,0 A
		Starting current:	670-670 %
		Cos phi - power factor:	0.87
		Rated speed:	2955 rpm
		Efficiency:	IE3 93,7%
		Motor efficiency at full load:	93.7-93.7 %
		Motor efficiency at 3/4 load:	93.9-93.9 %
		Motor efficiency at 1/2 load:	93.5-93.5 %
		Number of poles:	2
		Enclosure class (IEC 34-5):	55 Dust/Jetting
		Insulation class (IEC 85):	F
		Others:	
		Minimum efficiency index, MEI	. 07
		Net weight:	369 kg
		Gross weight: Shipping volume:	413 kg 0.808 m³
		Danish VVS No.:	385908071
		Danish VVS No	303300071
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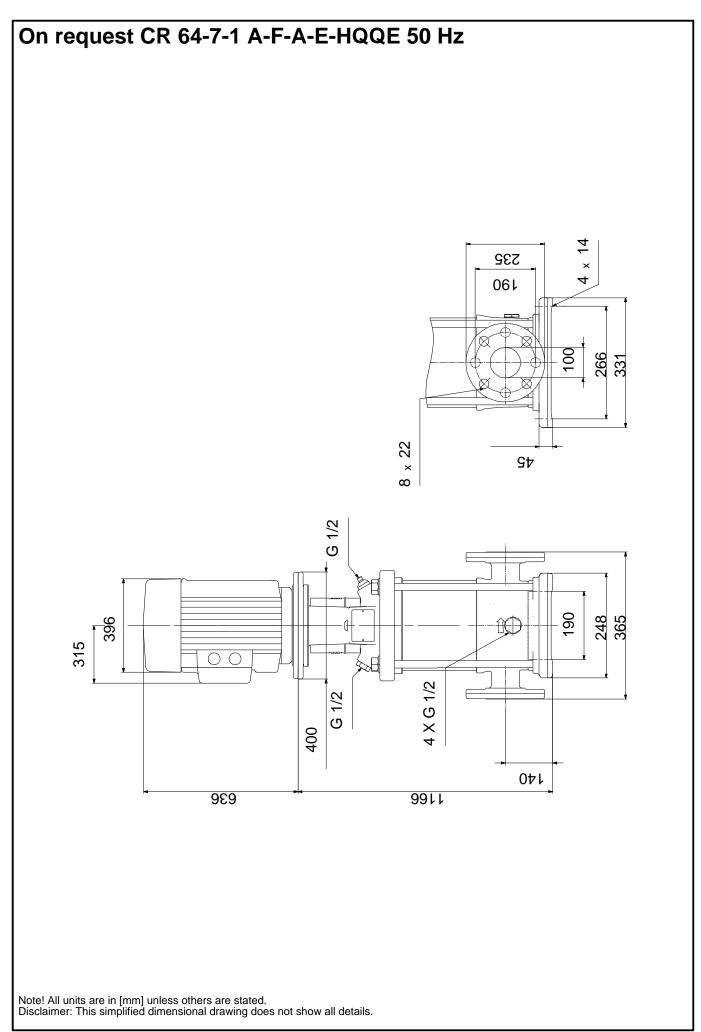
Description	Value	H [m]
General information:		
Product name:	CR 64-7-1 A-F-A-E-HQQE	220 -
Product No:	On request	
EAN number:	On request	200 -
Technical:		180 -
Rated flow:	64 m³/h	100
Rated head:	154.7 m	160 -
Stages:	7	140 -
Impellers:	7	140 -
Number of reduced-diameter impellers	• 1	120 -
Number of reduced-diameter impeliers	. 1	100 -
Low NPSH:	Ν	100-
Pump orientation:	Vertical	80 -
Shaft seal arrangement:	Single	
Code for shaft seal:	HQQE	60 -
Approvals on nameplate:	CE, EAC,ACS	40 -
Curve tolerance:	ISO9906:2012 3B	
Pump version:	A	20 -
Model:	В	
Materials:		o
Base:	Cast iron	P [kW]
	EN 1563 EN-GJS-500-7	
	ASTM A536 80-55-06	35 -
Impeller:	Stainless steel	30 -
	EN 1.4301	25 -
	AISI 304	20
Material code:	A	
Code for rubber:	E	15 <b>-</b>
Bearing:	SIC	10 -
Support bearing:	Graflon	5 -
Installation:		0
Maximum ambient temperature:	55 °C	
Maximum operating pressure:	30 bar	-
Max pressure at stated temp:	30 bar / 120 °C	
	30 bar / -30 °C	•
Type of connection:	DIN	
Size of inlet connection:	DN 100	636
Size of outlet connection:	DN 100	
Pressure rating for pipe connection:	PN 40	400
Flange size for motor:	FF350	<u></u> <u>G</u>
Connect code:	F	
Liquid:	•	99 12 4 X G
Pumped liquid:	Water	
Liquid temperature range:	-30 120 °C	I I I
Liquid temperature during operation:	20 °C	140
Density:	998.2 kg/m <sup>3</sup>	
Electrical data:	590.2 kg/m	
Motor standard:	IEC	
Motor type:	SIEMENS	
IE Efficiency class:	IE3	
Rated power - P2:	37 kW	
Power (P2) required by pump:	37 kW	1
Mains frequency:	50 Hz	
Rated voltage:	3 x 380-420D/660-725Y V	
Rated current:	68,0-63,0/39,0-36,0 A	l k
Starting current:	670-670 %	TO AMPLIFIE RELAY
Cos phi - power factor:	0.87	
Rated speed:	2955 rpm	г
Efficiency:	IE3 93,7%	
Motor efficiency at full load:	93.7-93.7 %	-   I
Motor efficiency at 3/4 load:	93.9-93.9 %	
Motor efficiency at 1/2 load:	93.5-93.5 %	L k
Number of poles:	2	TO AMPLIFIE
Enclosure class (IEC 34-5):	55 Dust/Jetting	RELAY
· · ·		L

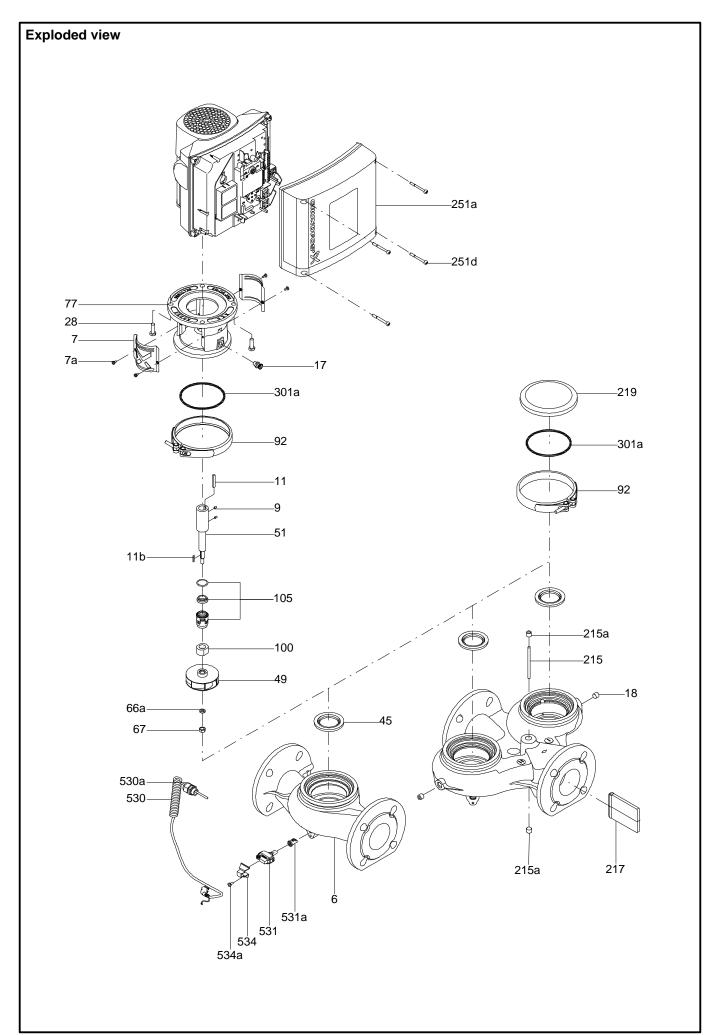


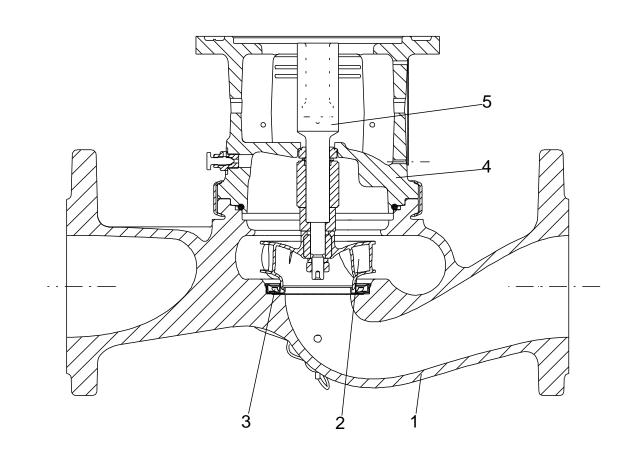




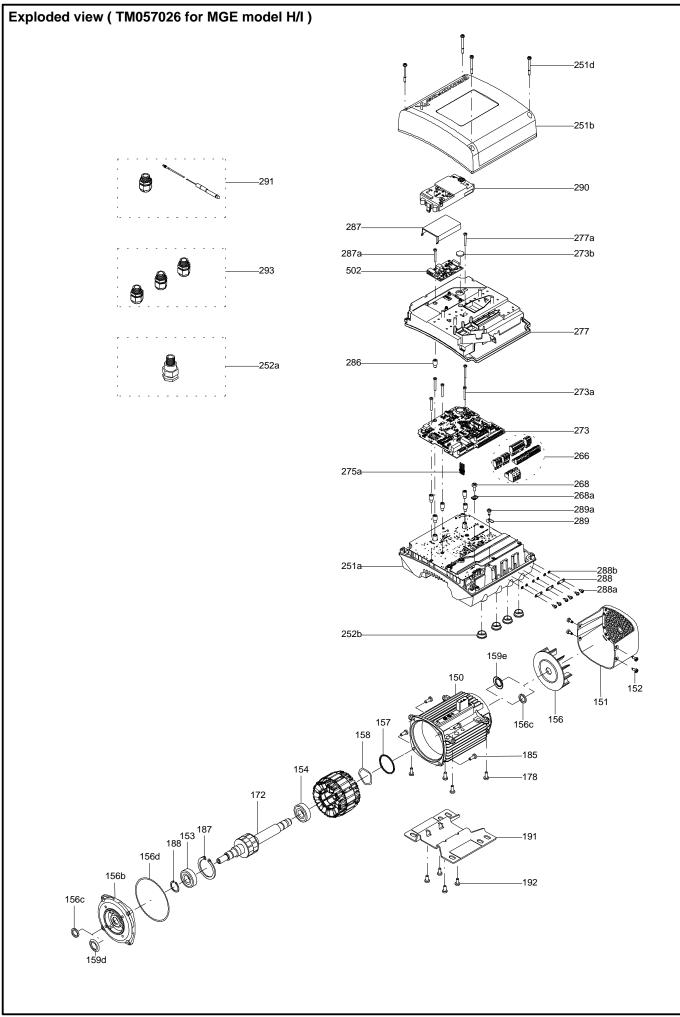
Description	Value
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	81U15334
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI :	0.7
Net weight:	369 kg
Gross weight:	413 kg
Shipping volume:	0.808 m³
Danish VVS No.:	385908071







## TM058200



## Parts list CR 64-7-1, Product No. On request Valid from 1.4.2012 (1213)

Pos	Description Motor	Annotation	Données de classification	Nelelelice	Quantit	
1	Motor Basic unit				1	pcs pcs
1 2a	Pump head cpl.				1	pus
2a 2	Pump head					1
2	Hex socket head cap screw		Designation: DIN 912	)		4
0	Thex socket field cap screw		Length (mm): 25	-		-
			Thread: M10			
18	Air vent screw					1
10	Plug					1
	Spindle					
23	Plug					1
37	O-ring					1
58	Cover					1
60	Spring					4
100	O-ring		Diameter: 16,3			2
	- ····g		Material type: EPDM			
			Thickness: 2,4			
6b	Base cpl.		Rubber type: EPDM		1	
-	Bearing ring, stationary		· · · · · · · · · · · · · · · · · · ·			1
6	Base					1
25	Plug					4
31	Hex socket head cap screw					1
32	Washer		Designation: DIN 125	5A		1
			Internal diameter: 6,4			
			Outer diameter: 12,0			
			Thickness: 1,6			
37	O-ring					1
38	O-ring		Diameter: 16,3			4
			Material type: EPDM			
			Thickness: 2,4			
26	Staybolt		Length (mm): 745		4	
			Thread: M16			
36	Hex nut		Thread: M16		4	
55	Outer sleeve		Outer diameter: 216		1	
			Length (mm): 601			
66a	Washer		Designation: DIN 125 A		4	
			Internal diameter: 17			
			Outer diameter: 30			
16	Motor atoplant		Thickness: 3		1	<u> </u>
1a	Motor stool cpl.				1	pcs
1a 7	Motor stool				1	
	Coupling guard				4	
7a 9	Socket button head screw		Dimonsion: 22/55			
8 9	Coupling cpl. Hex socket head cap screw		Dimension: 22/55 Designation: DIN 912	)	1	4
ฮ	nex socket nead cap screw		Length (mm): 25	<u>.</u>		4
			Thread: M10			
10a	Coupling half					2
10a 28	Hex head screw		Length (mm): 60		4	~
20			Thread: M16		+	
28	Hex socket head cap screw		Designation: DIN 912		4	
20	Her source head cap sciew		Length (mm): 50		-+	
			Thread: M10			
32a	Washer		Designation: DIN 125 A		8	
JZd	VVASIIGI		Internal diameter: 17		U	
			Outer diameter: 30			
			Thickness: 3			
			1 HOM 1033. J			
36	Hex nut		Thread: M16		4	

	Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
	76	Plate				1	
	76a	Rivet				2	
-	105	Shaft seal		Material type: HQQE		1	pcs
		Adjusting fork				1	
	109	O-ring				1	
	110	O-ring		Diameter: 21,5		1	
				Material type: EPDM			
				Thickness: 4,25			
-	200	Flange cpl.				2	pcs
	201	Flange		Diameter: DN 100		1	
				Pressure: PN 40			
	203	Lock ring				1	

Disclaimer: The information about the Grundfos pump in this document may be outdated. Data may be subject to alterations without further notice. Please contact us to verify the data above is still accurate/up-to-date.

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