

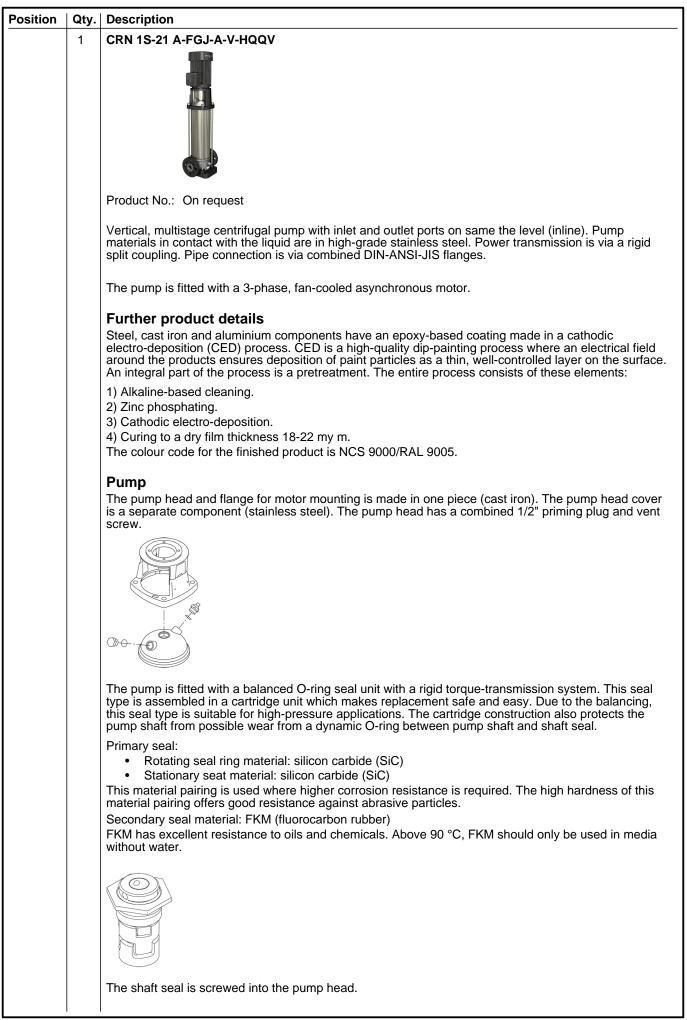
## CRN1S-21 A-FGJ-G-V-HQQV 3x230/400 50HZ Grundfos pump 96515950



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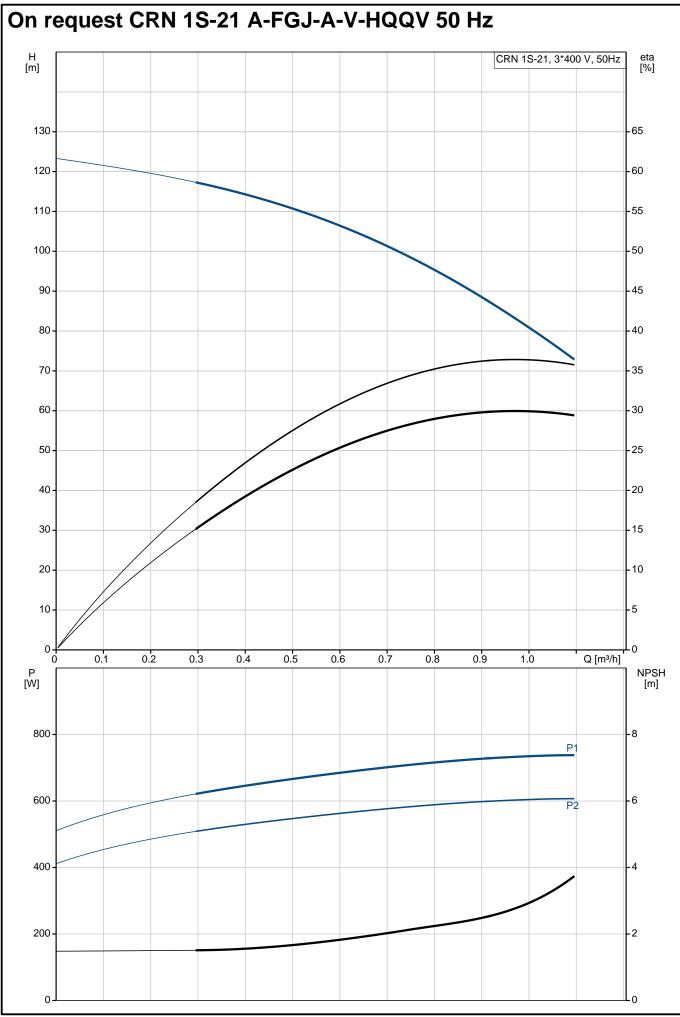
https://www.lenntech.com/grundfos/CRN1S/96515950/CRN-1S-21-A-FGJ-G-V-HQQV.html

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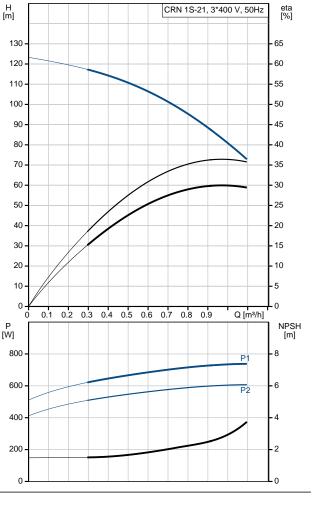


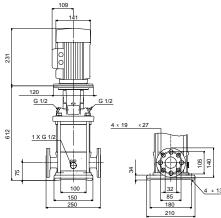
Position	Qty.	Description				
	αιγ.	•				
		The pump has a stainless-steel l	base mounted on a seperate base plate. This base and base plate are the staybolts which hold the pump together. The outlet side of the			
		base has a combined drain plug	and bypass valve. The pump is secured to the foundation by four bolts			
		through the base plate. The flang	ges and base are cast in one piece and prepared for connection by			
		means of DIN, ANSI or JIS.	- ' ' '			
		Motor				
			an-cooled motor with principal dimensions to IEC and DIN standards.			
		The motor is flange-mounted wit				
		Motor-mounting designation in a	ccordance with IEC 60034-7: IM B 14 (Code I) / IM 3601 (Code II).			
		Electrical tolerances comply with				
		The motor efficiency is classified	as IE3 in accordance with IEC 60034-30-1.			
		The motor does not incorporate	motor protection and must be connected to a motor-protective circuit			
		breaker which can be manually r rated current of the motor (11/1).	reset. The motor-protective circuit breaker must be set according to the			
		Technical data				
		Controls:				
		Frequency converter:	NONE			
		Liquid:				
		Pumped liquid:	Water			
		Liquid temperature range:	-20 90 °C			
		Liquid temperature during operation				
		Density:	998.2 kg/m <sup>3</sup>			
		Taskaisal				
		Technical:	0.0 m³/b			
		Rated flow: Rated head:	0.9 m³/h 83.3 m			
			Vertical			
		Pump orientation: Shaft seal arrangement:	Single			
		Code for shaft seal:	HQQV			
		Approvals on nameplate:	CE, EAC			
		Curve tolerance:	ISO9906:2012 3B			
		Materials:				
		Base:	Stainless steel			
			EN 1.4408			
			AISI 316			
		Impeller:	Stainless steel			
			EN 1.4401			
			AISI 316			
		Bearing:	SIC			
		Installation:				
		Maximum ambient temperature:	60 °C			
		Maximum ambient temperature: Maximum operating pressure:	25 bar			
		Max pressure at stated temp:	25 bar / 90 °C			
			25 bar / -20 °C			
		Type of connection:	DIN / ANSI / JIS			
		Size of inlet connection:	DN 25/32			
			1 1/4 inch			
		Size of outlet connection:	DN 25/32			
		Propouro roting for size consect	1 1/4 inch			
		Pressure rating for pipe connection: PN 25				
		Flange rating inlet: Flange size for motor:	300 lb FT100			
		Electrical data:				
		Motor standard:	IEC			
		Motor type:	80A			
		IE Efficiency class:	IE3			
		Rated power - P2:	0.75 kW			
		Power (P2) required by pump:	0.75 kW			
		Mains frequency:	50 Hz			

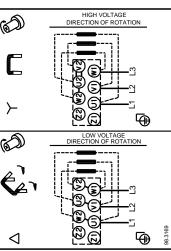
Position	Qty.	Description	
		Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85):	3 x 220-240D/380-415Y V 3.30/1.90 A 580-620 % 0.81-0.71 2840-2870 rpm IE3 80,7% 80.7 % 82.7 % 81.7 % 2 55 Dust/Jetting F
		Others: Minimum efficiency index, MEI Net weight: Gross weight: Shipping volume:	: 0.54 30.8 kg 34.9 kg 0.092 m <sup>3</sup>
	I		



Description	Value	H [m]
General information:		
Product name:	CRN 1S-21 A-FGJ-A-V-HQQV	130 -
Product No:	On request	120 -
EAN number:	On request	110 -
Technical:		
Rated flow:	0.9 m³/h	100 -
Rated head:	83.3 m	90 -
Stages:	21	80 -
Impellers:	21	
Number of reduced-diameter impellers:	0	70 <b>-</b>
Low NPSH:	Ν	50 -
Pump orientation:	Vertical	30 -
Shaft seal arrangement:	Single	40 -
Code for shaft seal:	HQQV	30 -
Approvals on nameplate:	CE, EAC	20
Curve tolerance:	ISO9906:2012 3B	20 -
Pump version:	A	10 -
Model:	A	۰ <b>/</b>
Materials:		0 0.1 (
Base:	Stainless steel	P [W]
	EN 1.4408	
	AISI 316	800 -
Impeller:	Stainless steel	
	EN 1.4401	600 -
	AISI 316	400 -
Material code:	A	400
Code for rubber:	V	000
Bearing:	SIC	200 -
Installation:		
Maximum ambient temperature:	60 °C	0
Maximum operating pressure:	25 bar	
Max pressure at stated temp:	25 bar / 90 °C	•
· · ·	25 bar / -20 °C	
Type of connection:	DIN / ANSI / JIS	
Size of inlet connection:	DN 25/32	
	211 20/02	231
	1 1/4 inch	
Size of outlet connection:	1 1/4 inch	
Size of outlet connection:	DN 25/32	120
Size of outlet connection:	,	<u>120</u> G 1//
Pressure rating for pipe connection:	DN 25/32 1 1/4 inch PN 25	
Pressure rating for pipe connection: Flange rating inlet:	DN 25/32 1 1/4 inch PN 25 300 lb	<u>G 1/2</u>
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor:	DN 25/32 1 1/4 inch PN 25 300 lb FT100	<u>G 1/2</u>
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code:	DN 25/32 1 1/4 inch PN 25 300 lb	<u>G 1/2</u>
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid:	DN 25/32 1 1/4 inch PN 25 300 lb FT100 FGJ	G 1/2 G 1/2 G 1/2 G 1/2
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid:	DN 25/32 1 1/4 inch PN 25 300 lb FT100 FGJ Water	G 1/2 G 1/2 G 1/2 G 1/2
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid:	DN 25/32 1 1/4 inch PN 25 300 lb FT100 FGJ	G 1/2 G 1/2 G 1/2 G 1/2
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation:	DN 25/32 1 1/4 inch PN 25 300 lb FT100 FGJ Water -20 90 °C 20 °C	G 1/2 G 1/2 G 1/2 G 1/2
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density:	DN 25/32 1 1/4 inch PN 25 300 lb FT100 FGJ Water -20 90 °C	
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation:	DN 25/32 1 1/4 inch PN 25 300 lb FT100 FGJ Water -20 90 °C 20 °C	G 1/2 G 1/2 G 1/2 G 1/2
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density:	DN 25/32 1 1/4 inch PN 25 300 lb FT100 FGJ Water -20 90 °C 20 °C	
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type:	DN 25/32 1 1/4 inch PN 25 300 lb FT100 FGJ Water -20 90 °C 20 °C 998.2 kg/m <sup>3</sup>	
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard:	DN 25/32 1 1/4 inch PN 25 300 lb FT100 FGJ Water -20 90 °C 20 °C 998.2 kg/m <sup>3</sup> IEC	
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type:	DN 25/32 1 1/4 inch PN 25 300 lb FT100 FGJ Water -20 90 °C 20 °C 998.2 kg/m <sup>3</sup> IEC 80A	
Pressure rating for pipe connection: Flange rating inlet: 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:	DN 25/32 1 1/4 inch PN 25 300 lb FT100 FGJ Water -20 90 °C 20 °C 998.2 kg/m <sup>3</sup> IEC 80A IE3 0.75 kW	
Pressure rating for pipe connection: Flange rating inlet: 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:	DN 25/32 1 1/4 inch PN 25 300 lb FT100 FGJ Water -20 90 °C 20 °C 998.2 kg/m <sup>3</sup> IEC 80A IE3 0.75 kW 0.75 kW	
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency:	DN 25/32 1 1/4 inch PN 25 300 lb FT100 FGJ Water -20 90 °C 20 °C 998.2 kg/m <sup>3</sup> IEC 80A IE3 0.75 kW 0.75 kW 50 Hz	
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage:	DN 25/32 1 1/4 inch PN 25 300 lb FT100 FGJ Water -20 90 °C 20 °C 998.2 kg/m <sup>3</sup> IEC 80A IE3 0.75 kW 0.75 kW 50 Hz 3 x 220-240D/380-415Y V	
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current:	DN 25/32 1 1/4 inch PN 25 300 lb FT100 FGJ Water -20 90 °C 20 °C 998.2 kg/m <sup>3</sup> IEC 80A IE3 0.75 kW 0.75 kW 50 Hz 3 x 220-240D/380-415Y V 3.30/1.90 A	
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor standard: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current:	DN 25/32 1 1/4 inch PN 25 300 lb FT100 FGJ Water -20 90 °C 20 °C 998.2 kg/m <sup>3</sup> IEC 80A IE3 0.75 kW 0.75 kW 0.75 kW 50 Hz 3 x 220-240D/380-415Y V 3.30/1.90 A 580-620 %	
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor standard: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor:	DN 25/32 1 1/4 inch PN 25 300 lb FT100 FGJ Water -20 90 °C 20 °C 998.2 kg/m <sup>3</sup> IEC 80A IE3 0.75 kW 0.75 kW 50 Hz 3 x 220-240D/380-415Y V 3.30/1.90 A 580-620 % 0.81-0.71	
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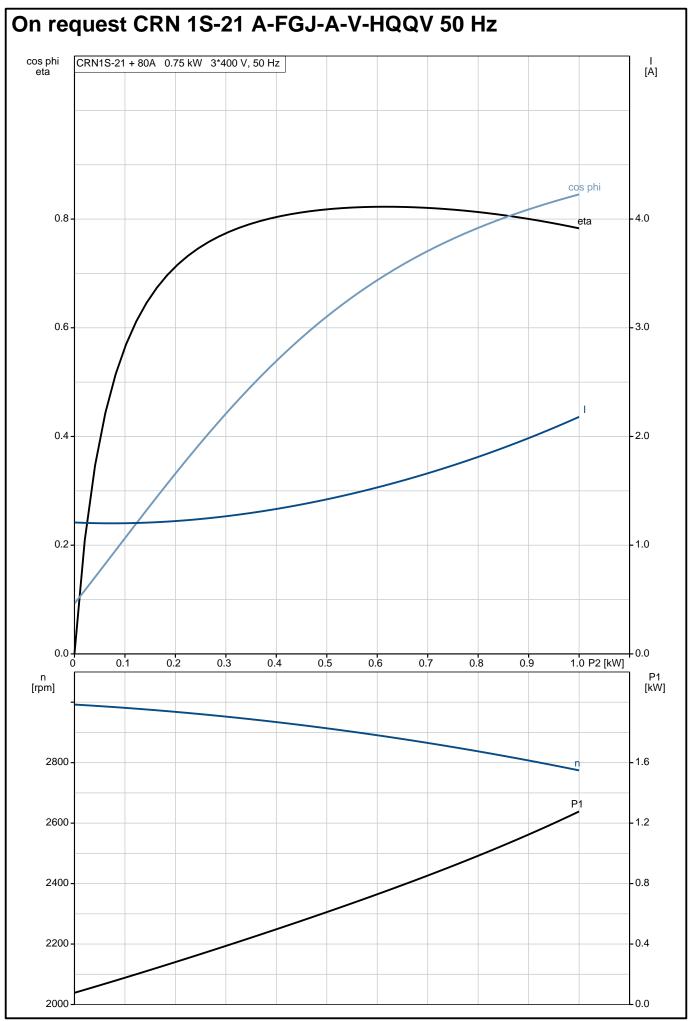


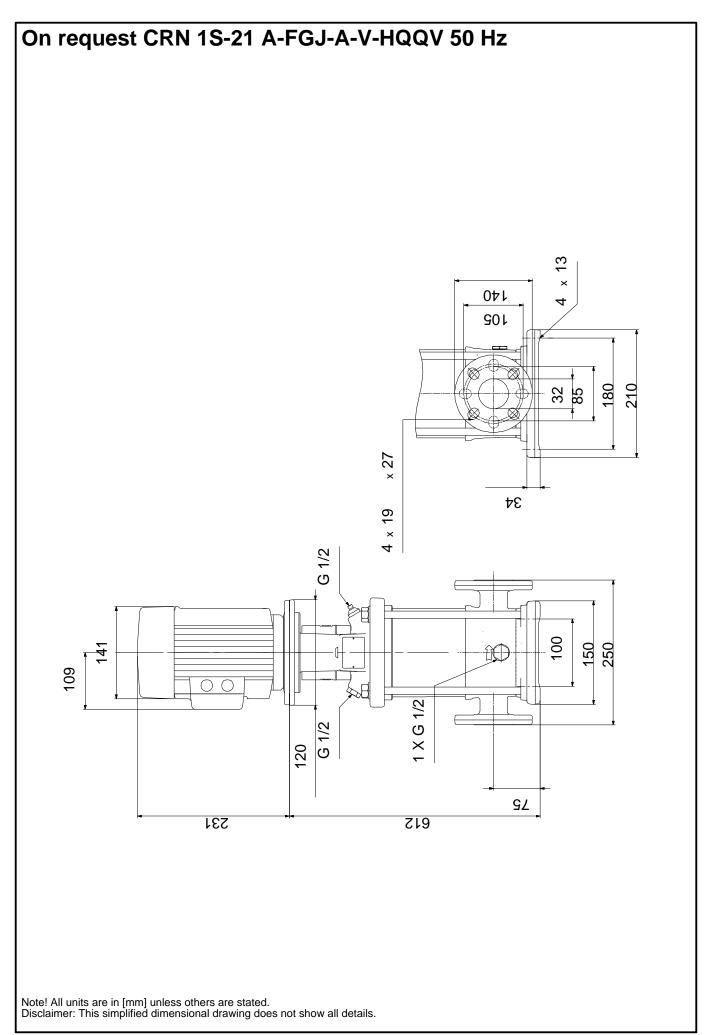


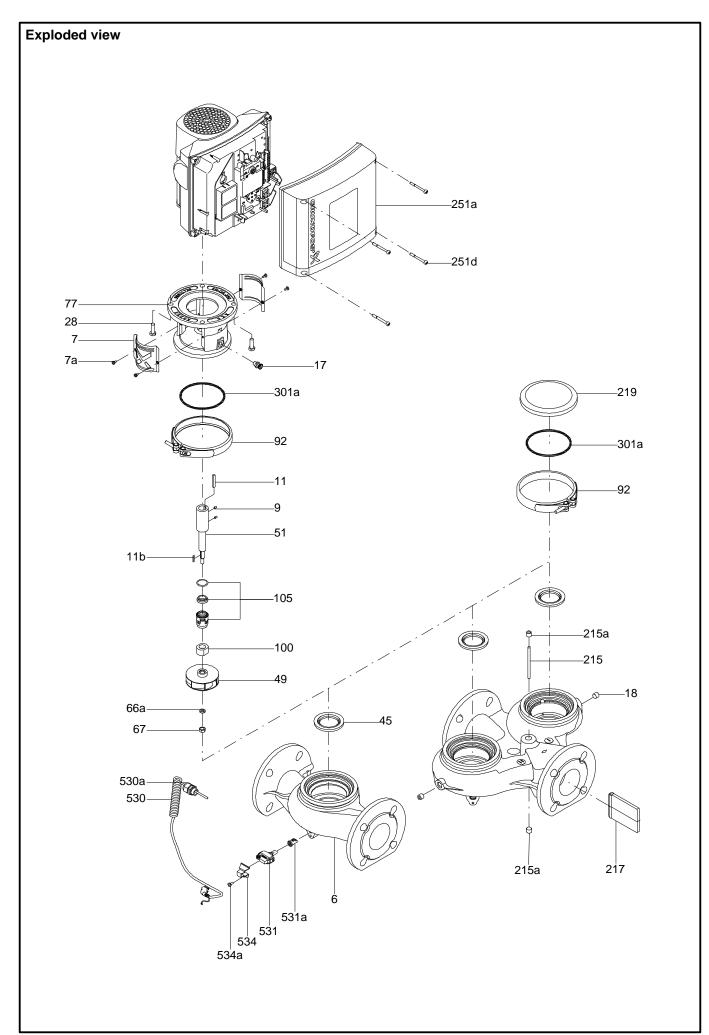


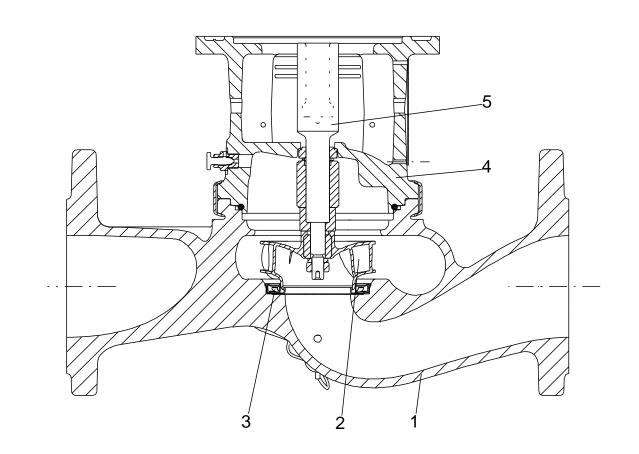
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Description	Value
Motor efficiency at 1/2 load:	81.7 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85905175
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI :	0.54
Net weight:	30.8 kg
Gross weight:	34.9 kg
Shipping volume:	0.092 m <sup>3</sup>

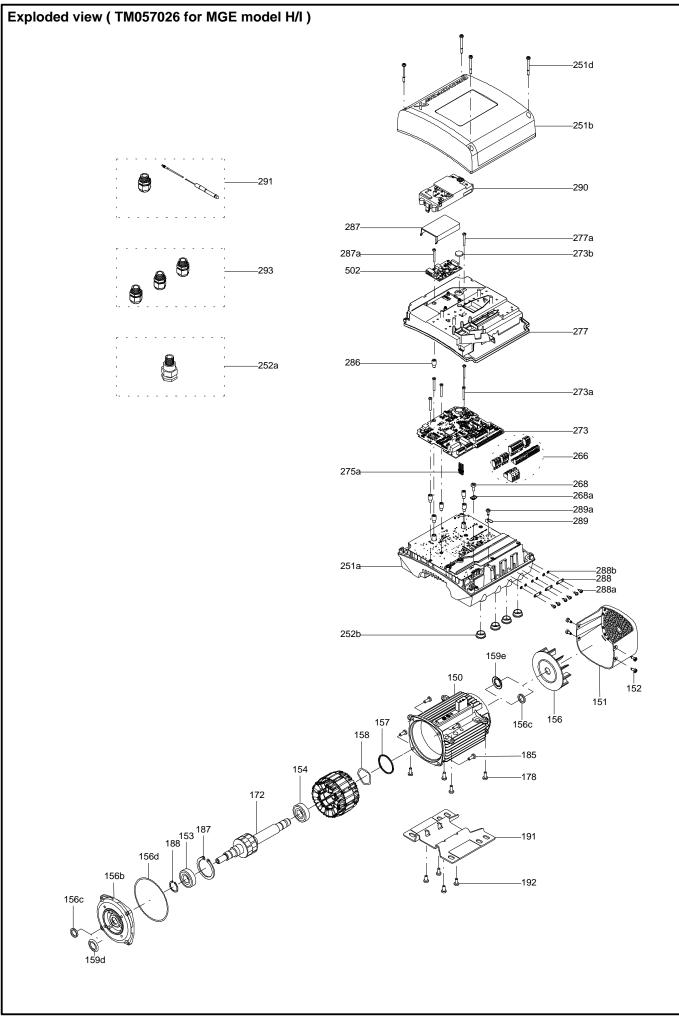








## TM058200



## Parts list CRN 1S-21, Product No. On request Valid from 1.1.2011 (1152)

Pos	Description	Annotation	Données de classification	Reierence	Quantit	
	Motor				1	pcs
_	Base cpl.				1	pcs
6	Base				1	
56	Base plate				1	
201.a	Flange				2	
203	Lock ring				2	
	Sealing parts				1	pcs
25	Drain plug w/bypass valve				1	
38	O-ring		Diameter: 16,3			1
			Material type: FKM			
			Thickness: 2,4			
37	O-ring		Diameter: 137,5		2	
			Material type: FKM			
			Thickness: 3,3			
100	O-ring		Diameter: 16,3		2	
			Material type: FKM			
			Thickness: 2,4			
2	Pump head cpl.				1	pcs
2	Pump head				1	•
7	Coupling guard				2	
7.a	Combi Slot Torx screw				4	
18	Air vent screw				1	
	Plug					1
	Spindle					1
23a	Plug				1	
28	Hex head screw		Length (mm): 25 MM		4	
20			Thread: M6			
60	Formed wire spring		Thread. Mo		1	
77	Pump cover				1	
	Coupling cpl.				1	
8 9			Decignation: DIN 012		4	pcs
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 20			
10			Thread: M6			
10	Shaft pin		Diameter: 5		1	
			Length (mm): 26			
10a	Coupling half				2	
26	Staybolt		Length (mm): 475		4	pcs
			Thread: M12			
36	Nut		Thread: M12		4	pcs
55	Outer sleeve				1	pcs
66a	Washer		Designation: DIN 125 A2		4	pcs
			Internal diameter: 13			
			Outer diameter: 24			
			Thickness: 2,5			
80	Chamber stack				1	pcs
4	Chamber cpl.				17	
4a	Intermediate chamber					1
45	Neck ring					1
65	Neck ring retainer					1
4a	Chamber w. bearing cpl.				3	
4a	Intermediate chamber					1
45	Neck ring					1
65	Neck ring retainer					1
5a	Chamber cpl.				1	•
3a 4a	Intermediate chamber					1
4a 45	Neck ring					1
	-					1
65	Neck ring retainer		Thread MO			I
36	Lock nut		Thread: M8		1	
47a	Bearing ring, rotating				3	

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
- 49	Impeller cpl.				21	
49	Impeller				1	
- 50a	Guide vane				1	
	Plate				1	
50b	Top plate				1	
51	Shaft, spline, cpl.				1	
64a	Spacing pipe				17	
64a	Spacing pipe		Internal diameter: 12,85		3	
			Outer diameter: 15,85			
			Length (mm): 4,50			
64c	Clamp, splined		Internal diameter: 8,5		1	
			Outer diameter: 15			
66	Wedge lock washer				1	
105	Shaft seal		Material type: HQQV		1	pcs
	O-ring				1	
	O-ring				1	
	O-ring				1	
	Seal driver, upper				1	
	Seal driver, lower				1	
	Spacer ring				1	
	Pipe				1	
	Plug				1	
	Plug				1	
	Compression spring				1	
	Socket set screw				3	
103	Seal ring, stationary				1	
105	Seal ring, rotating				1	
109	O-ring				1	
113	Driver				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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