

CRN1S-5 A-FGJ-G-V-HQQV 3x230/400 50HZ Grundfos pump 96515933



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https://www.lenntech.com/grundfos/CRN1S/96515933/CRN-1S-5-A-FGJ-G-V-HQQV.html

info@lenntech.com

tel. +31 152 610 900 fax. +31 152 616 289

Position | Qty. | Description

1 CRN 1S-5 A-FGJ-A-V-HQQV



Product No.: On request

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. Power transmission is via a rigid split coupling. Pipe connection is via combined DIN-ANSI-JIS flanges.

The pump is fitted with a 3-phase, fan-cooled asynchronous motor.

Further product details

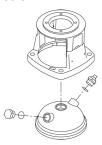
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

The pump head and flange for motor mounting is made in one piece (cast iron). The pump head cover is a separate component (stainless steel). 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.

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: FKM (fluorocarbon rubber)

FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.



The shaft seal is screwed into the pump head.

Position Qty. Description The pump has a stainless-steel base mounted on a seperate base plate. This base and base plate are kept in position by the tension of 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 flanges and base are cast in one piece and prepared for connection by means of DIN, ANSI or JIS. Motor The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with tapped-hole flange (FT). Motor-mounting designation in accordance with IEC 60034-7: IM B 14 (Code I) / IM 3601 (Code II). Electrical tolerances comply with IEC 60034. 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 reset. The motor-protective circuit breaker must be set according to the rated current of the motor (11/1). Technical data Controls: Frequency converter: NONE Liquid: Pumped liquid: Water Liquid temperature range: -20 .. 90 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m3 Technical: Rated flow: 0.9 m³/h Rated head: 21.1 m Pump orientation: Vertical Shaft seal arrangement: Sinale 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: 40 °C 25 bar Maximum operating pressure: 25 bar / 90 °C Max pressure at stated temp: 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 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: FT85 **Electrical data:** Motor standard: **IEC** Motor type: 71A IE Efficiency class: IE3 Rated power - P2: 0.37 kW

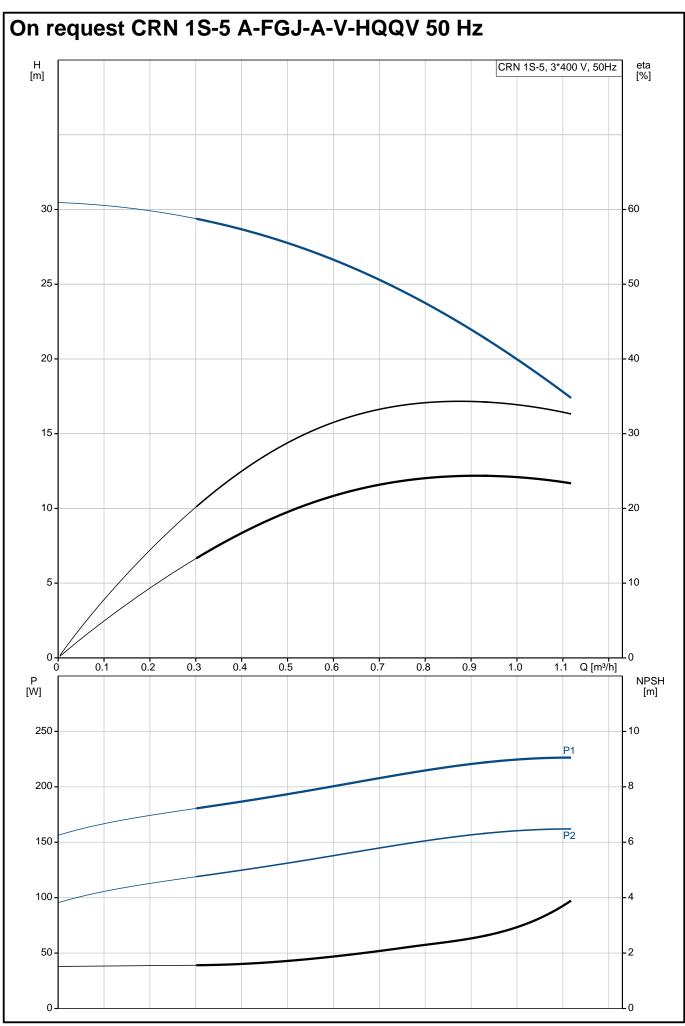
Mains frequency:

Power (P2) required by pump:

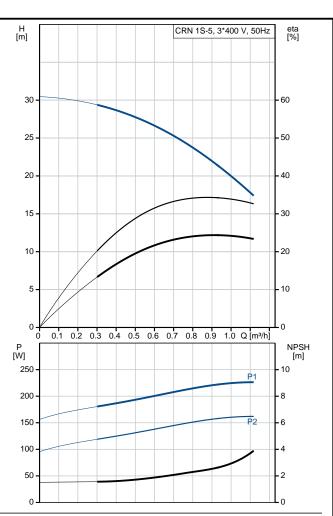
0.37 kW

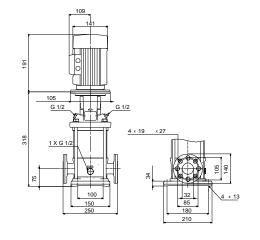
50 Hz

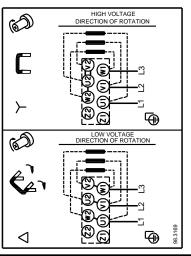
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		Rated current:	1.74/1.00 A
		Starting current:	490-530 %
		Cos phi - power factor:	0.80-0.70
		Rated speed:	2850-2880 rpm
		Efficiency:	IE3 73,8%
		Motor efficiency at full load:	73.8 % 79.0 %
		Motor efficiency at 3/4 load: Motor efficiency at 1/2 load:	79.0 % 75.5 %
		Number of poles:	2
		Enclosure class (IEC 34-5):	55 Dust/Jetting
		Insulation class (IEC 85):	F
		Others:	
		Minimum efficiency index, MEI	: 0.54
		Net weight:	21.6 kg
		Gross weight: Shipping volume:	24.2 kg 0.054 m³
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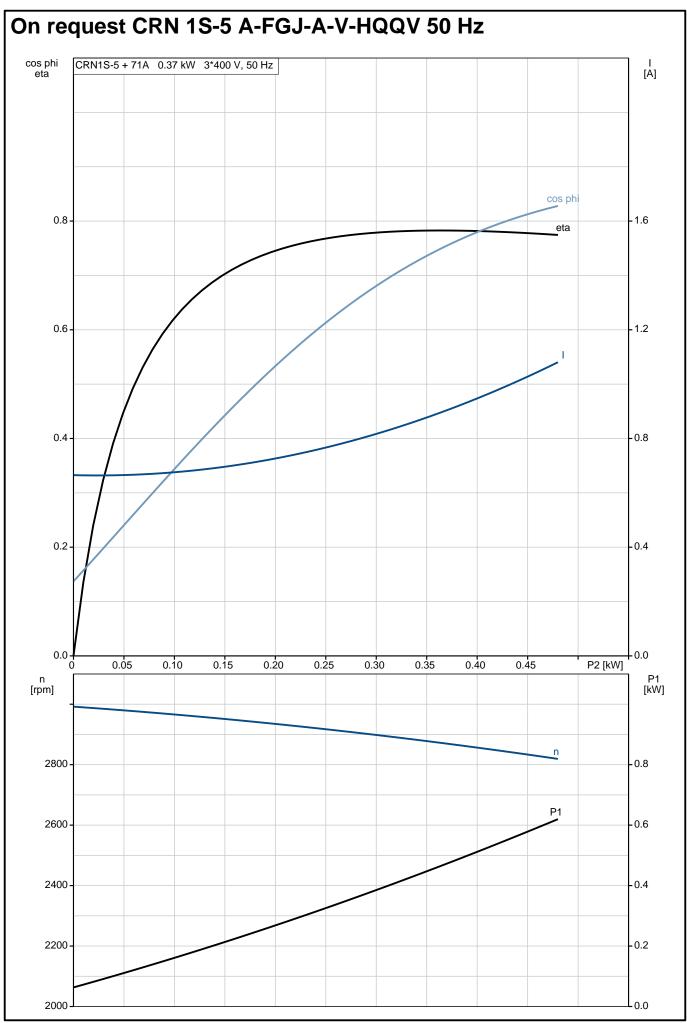
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Max pressure at stated temp: 25 bar / 90 °C 25 bar / -20 °C Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32 1 1/4 inch Size of outlet connection: DN 25/32 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: FT85 Connect code: FGJ Liquid: Pumped liquid: Water Liquid temperature range: -20 90 °C Liquid temperature during operation: Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: IE3 Rated power - P2: 0.37 kW Power (P2) required by pump: 0.37 kW Mains frequency: So Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1.74/1.00 A Starting current: 490-530 % Cos phi - power factor: Rated speed: Efficiency: IE3 73,8% Motor efficiency at full load: 73.8 %		
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Pressure rating for pipe connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: FT85 Connect code: FGJ Liquid: Pumped liquid: Water Liquid temperature range: -20 90 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 71A IE Efficiency class: IE3 Rated power - P2: 0.37 kW Power (P2) required by pump: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1.74/1.00 A Starting current: 490-530 % Cos phi - power factor: 0.80-0.70 Rated speed: 2850-2880 rpm Efficiency: IE3 73,8% Motor efficiency at full load: 73.8 %		
Flange rating inlet: Flange size for motor: FT85 Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Pumped liquid: Liquid temperature during operation: Density: Page 120 90 °C Density: Density: Page 240 90 °C Density: Density: Page 250 90 °C Density: Page 260 90 °C Density: Page 270 90 °C Densi		
Flange size for motor: Connect code: FGJ Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Blectrical data: Motor standard: Motor type: T1A IE Efficiency class: Rated power - P2: Power (P2) required by pump: Nains frequency: Rated voltage: Rated voltage: Starting current: Cos phi - power factor: Efficiency: Motor efficiency at full load: FT85 FGJ Water FGJ Water FAB Water 10 °C P98.2 kg/m³ EEC Motor type: 71A IEC Motor type: 71A IE Sa Rated Power - P2: 0.37 kW Power (P2) required by pump: 1.74/1.00 A Starting current: 1.74/1.00 A Starting current: 490-530 % Cos phi - power factor: 0.80-0.70 Rated speed: Efficiency: IE3 73,8% Motor efficiency at full load: 73.8 %	Pressure rating for pipe connection:	PN 25
Connect code: FGJ Liquid: Pumped liquid: Water Liquid temperature range: -20 90 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 71A IE Efficiency class: IE3 Rated power - P2: 0.37 kW Power (P2) required by pump: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1.74/1.00 A Starting current: 490-530 % Cos phi - power factor: 0.80-0.70 Rated speed: 2850-2880 rpm Efficiency: IE3 73,8% Motor efficiency at full load: 73.8 %	Flange rating inlet:	300 lb
Liquid:Pumped liquid:WaterLiquid temperature range:-20 90 °CLiquid temperature during operation:20 °CDensity:998.2 kg/m³Electrical data:IECMotor standard:IECMotor type:71AIE Efficiency class:IE3Rated power - P2:0.37 kWPower (P2) required by pump:0.37 kWMains frequency:50 HzRated voltage:3 x 220-240D/380-415Y VRated current:1.74/1.00 AStarting current:490-530 %Cos phi - power factor:0.80-0.70Rated speed:2850-2880 rpmEfficiency:IE3 73,8%Motor efficiency at full load:73.8 %	Flange size for motor:	FT85
Pumped liquid: Water Liquid temperature range: -20 90 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 71A IE Efficiency class: IE3 Rated power - P2: 0.37 kW Power (P2) required by pump: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1.74/1.00 A Starting current: 490-530 % Cos phi - power factor: 0.80-0.70 Rated speed: 2850-2880 rpm Efficiency: IE3 73,8% Motor efficiency at full load: 73.8 %	Connect code:	FGJ
Liquid temperature range: -20 90 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 71A IE Efficiency class: IE3 Rated power - P2: 0.37 kW Power (P2) required by pump: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1.74/1.00 A Starting current: 490-530 % Cos phi - power factor: 0.80-0.70 Rated speed: 2850-2880 rpm Efficiency: IE3 73,8% Motor efficiency at full load: 73.8 %	Liquid:	
Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 71A IE Efficiency class: IE3 Rated power - P2: 0.37 kW Power (P2) required by pump: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1.74/1.00 A Starting current: 490-530 % Cos phi - power factor: 0.80-0.70 Rated speed: 2850-2880 rpm Efficiency: IE3 73,8% Motor efficiency at full load: 73.8 %	Pumped liquid:	Water
Density: 998.2 kg/m³ Electrical data: IEC Motor standard: IEC Motor type: 71A IE Efficiency class: IE3 Rated power - P2: 0.37 kW Power (P2) required by pump: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1.74/1.00 A Starting current: 490-530 % Cos phi - power factor: 0.80-0.70 Rated speed: 2850-2880 rpm Efficiency: IE3 73,8% Motor efficiency at full load: 73.8 %	Liquid temperature range:	-20 90 °C
Density: 998.2 kg/m³ Electrical data: IEC Motor standard: IEC Motor type: 71A IE Efficiency class: IE3 Rated power - P2: 0.37 kW Power (P2) required by pump: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1.74/1.00 A Starting current: 490-530 % Cos phi - power factor: 0.80-0.70 Rated speed: 2850-2880 rpm Efficiency: IE3 73,8% Motor efficiency at full load: 73.8 %	Liquid temperature during operation:	20 °C
Electrical data: IEC Motor standard: IEC Motor type: 71A IE Efficiency class: IE3 Rated power - P2: 0.37 kW Power (P2) required by pump: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1.74/1.00 A Starting current: 490-530 % Cos phi - power factor: 0.80-0.70 Rated speed: 2850-2880 rpm Efficiency: IE3 73,8% Motor efficiency at full load: 73.8 %		
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Rated speed: 2850-2880 rpm Efficiency: IE3 73,8% Motor efficiency at full load: 73.8 %		
Efficiency: IE3 73,8% Motor efficiency at full load: 73.8 %		
Motor efficiency at full load: 73.8 %		· · · · · · · · · · · · · · · · · · ·
		·
Motor efficiency at 3/4 load: 79.0 %		
	Motor efficiency at 3/4 load:	79.0 %



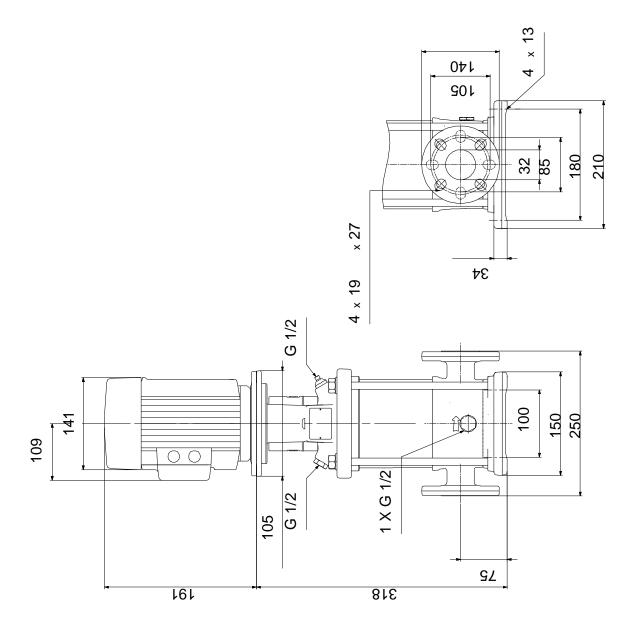




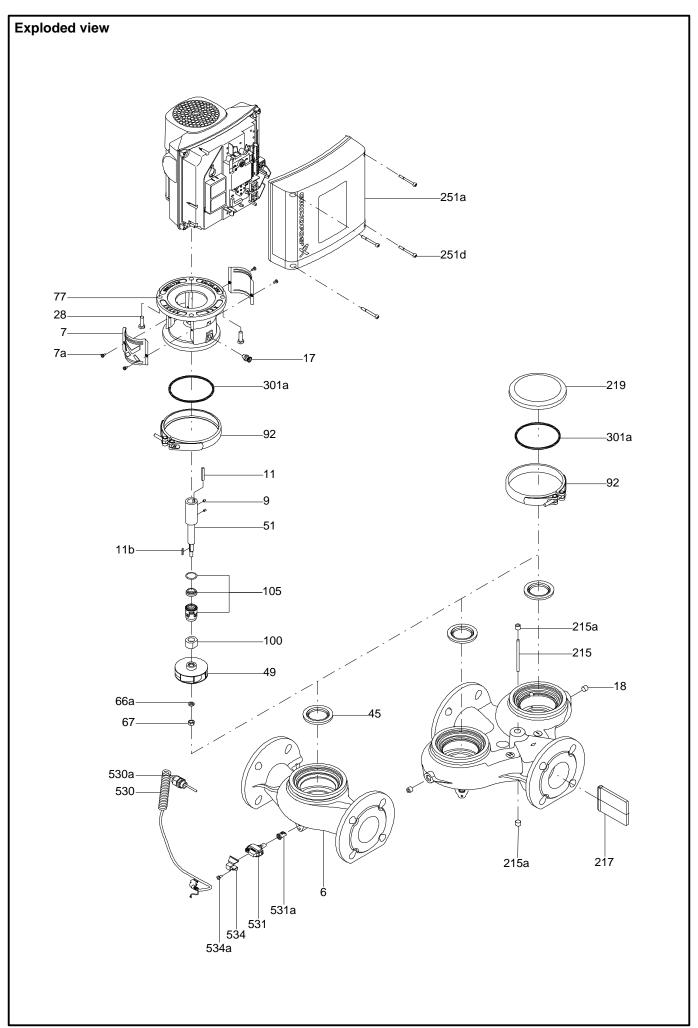
Description	Value
Motor efficiency at 1/2 load:	75.5 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85805102
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI:	0.54
Net weight:	21.6 kg
Gross weight:	24.2 kg
Shipping volume:	0.054 m³

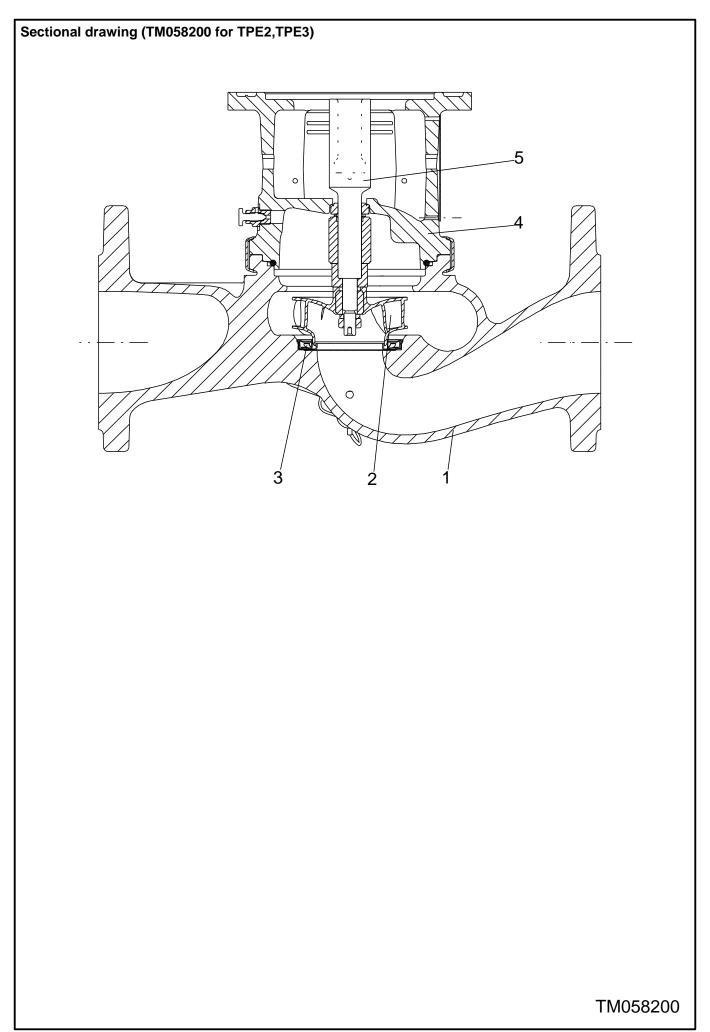


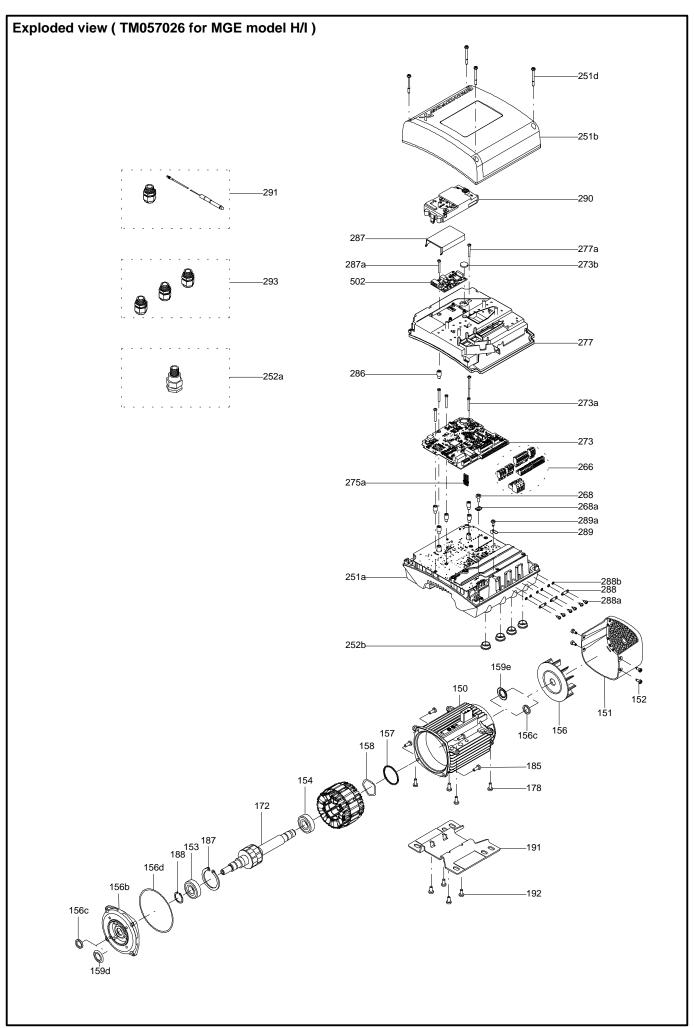
On request CRN 1S-5 A-FGJ-A-V-HQQV 50 Hz



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







Parts list CRN 1S-5, Product No. On request Valid from 1.1.2004 (0401)

Pos	Description Motor	Amountion	Données de classification	I/CICICIICS	Quar 1	ille	U
							po
^	Base cpl.				1		po
6	Base				1		
56	Base plate				1		
201.a	Flange				2		
203	Lock ring				2		
	Sealing parts				1		р
25	Drain plug w/bypass valve				1		÷
38	O-ring		Diameter: 16,3			1	
30	O-filing		·				
			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		
	<u> </u>		Material type: FKM				
			Thickness: 2,4				
2	Dump hood on		1111UN11033. 2,4		1		_
2	Pump head cpl.				1		р
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		
	Hex head screw		L a m mille (manne); 20				
28	Hex nead screw		Length (mm): 20		4		
			Thread: M6				
60	Formed wire spring				1		
77	Pump cover				1		
8	Coupling				1		p
9	Hex socket head cap screw		Designation: DIN 912		4		
	•		Length (mm): 20				
			Thread: M6				
40	Chaft nia						
10	Shaft pin		Diameter: 5		1		
			Length (mm): 26				
10a	Coupling half				2		
26	Staybolt		Length (mm): 187		4		p
			Thread: M12				
36	Nut		Thread: M12		4		р
55	Outer sleeve				1		р
66a	Washer		Designation: DIN 125 A2		4		р
Jua	**GOTIO		Internal diameter: 13		т		۲
			Outer diameter: 24				
			Thickness: 2,5				
80	Chamber stack				1		p
4	Chamber cpl.				3		
4a	Intermediate chamber					1	
45	Neck ring					1	
45 65	Neck ring retainer					1	
4a	Chamber w. bearing cpl.				1		
4a	Intermediate chamber					1	
45	Neck ring					1	
65	Neck ring retainer					1	
5a	Chamber cpl.				1		
4a	Intermediate chamber					1	
45	Neck ring					1	
45 65						1	
	Neck ring retainer		TI 1.10				
36	Lock nut		Thread: M8		1		
47a	Bearing ring, rotating				1		

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
- 49	Impeller cpl.				5	
49	Impeller				1	
- 50a	Guide vane				1	
	Plate				1	
50b	Top plate				1	
51	Shaft, spline, cpl.				1	
64a	Spacing pipe				3	
64a	Spacing pipe		Internal diameter: 12,85		1	
			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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info@lenntech.com https://www.lenntech.com tel. +31 152 610 900 fax. +31 152 616 289