

CRN5-3 A-FGJ-G-V-HQQV 3x230/400 50HZ Grundfos pump 96517204



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https://www.lenntech.com/grundfos/CRN05/96517204/CRN-5-3-A-FGJ-G-V-HQQV.html

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Position	Qty.	Description
	1	CRN 5-3 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. 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 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
		A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.
		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.

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 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

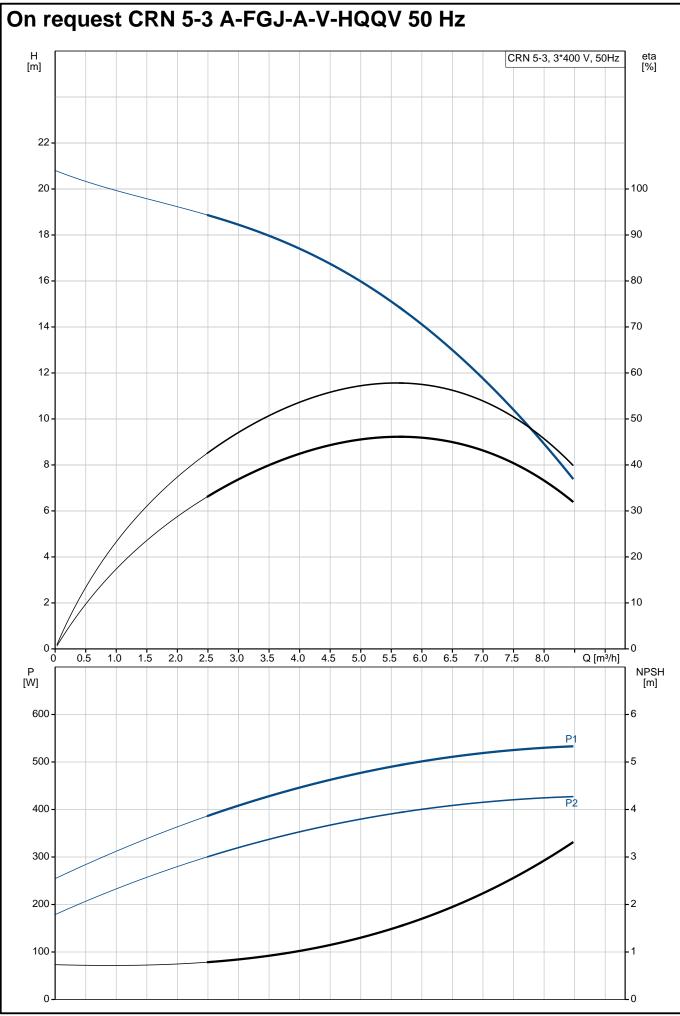
Liquid:

Pumped liquid:WaterLiquid temperature range:-20 .. 90 °CLiquid temperature during operation:20 °CDensity:998.2 kg/m³

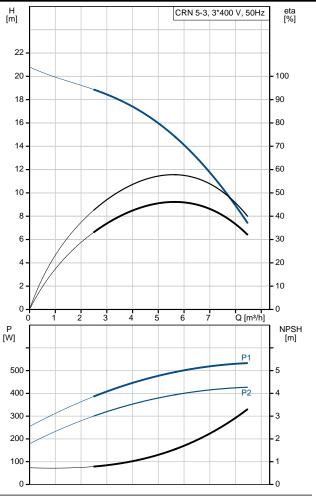
Technical:

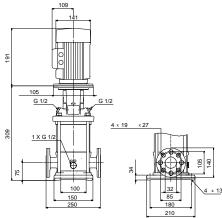
rechnical:	
Rated flow:	5.8 m³/h
Rated head:	14.9 m
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQV
Approvals on nameplate:	CE, EAC
Curve tolerance:	ISO9906:2012 3B
Materials:	
Base:	Stainless steel
	EN 1.4408
less allow	AISI 316
Impeller:	Stainless steel
	EN 1.4401
Booring	AISI 316 SIC
Bearing:	310
Installation:	
Maximum ambient temperature:	40 °C
Maximum operating pressure:	25 bar
Maximum operating pressure: Max pressure at stated temp:	25 bar / 90 °C
max prosoure at stated temp.	20 501 / 00 0

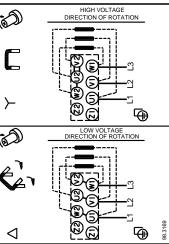
Position	Qty.	Description	
		-	25 bar / -20 °C
		Type of connection:	DIN / ANSI / JIS
		Size of inlet connection:	DN 25/32
			1 1/4 inch
		Size of outlet connection:	DN 25/32
			1 1/4 inch
		Pressure rating for pipe connect	tion: PN 25
		Flange rating inlet:	300 lb
		Flange size for motor:	FT85
		Electrical data:	
		Motor standard:	IEC
		Motor type:	71B
		IE Efficiency class:	IE3
		Rated power - P2:	0.55 kW
		Power (P2) required by pump:	0.55 KW 50 Hz
		Mains frequency: Rated voltage:	3 x 220-240D/380-415Y V
		Rated current:	2.50/1.44 A
		Starting current:	580-620 %
		Cos phi - power factor:	0.80-0.70
		Rated speed:	2830-2850 rpm
		Efficiency:	IE3 77,8%
		Motor efficiency at full load:	77.8 %
		Motor efficiency at 3/4 load:	81.5 %
		Motor efficiency at 1/2 load:	79.5 %
		Number of poles:	2
		Enclosure class (IEC 34-5):	55 Dust/Jetting
		Insulation class (IEC 85):	F
		Others:	
		Minimum efficiency index, MEI	
		Net weight:	20.8 kg
		Gross weight: Shipping volume:	23.4 kg 0.054 m³
			0.054 11-
	I	1	



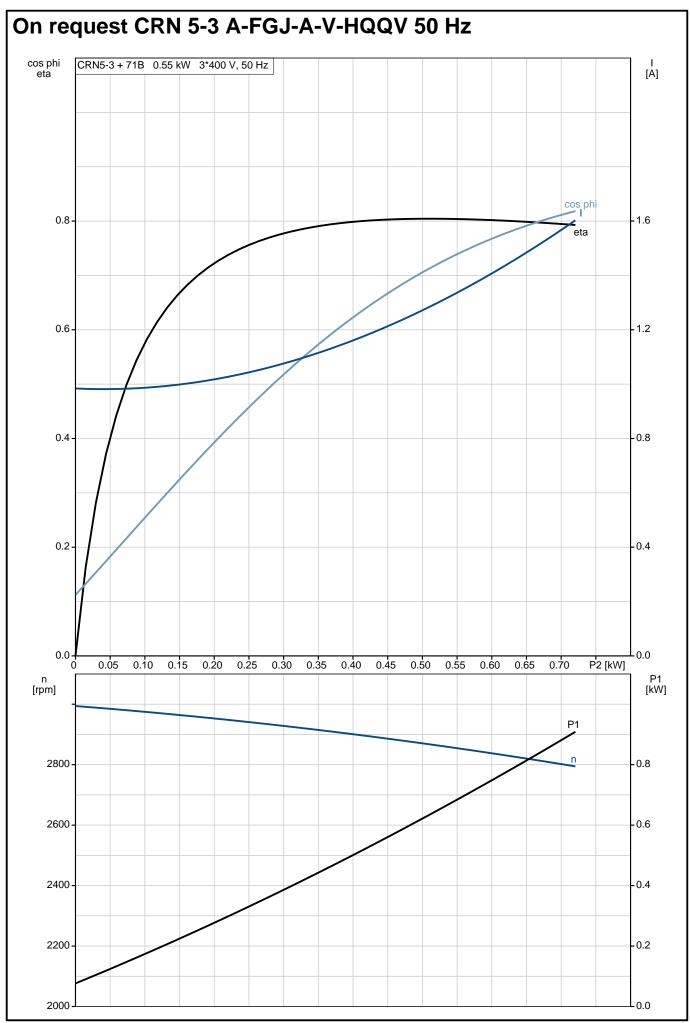
Description	Value	H [m]
General information:		
Product name:	CRN 5-3 A-FGJ-A-V-HQQV	22
Product No:	On request	22
EAN number:	On request	20
Technical:	Chrisquest	
Rated flow:	5.8 m ³ /h	18
Rated head:	14.9 m	16
Stages:	3	14
Impellers:	3	
Number of reduced-diameter	0	12
impellers:		1(
Low NPSH:	Ν	
Pump orientation:	Vertical	8
Shaft seal arrangement:	Single	
Code for shaft seal:	HQQV	6
Approvals on nameplate:	CE, EAC	2
Curve tolerance:	ISO9906:2012 3B	
Pump version:	A	:
Model:	Α	
Materials:		(
Base:	Stainless steel	P
2000.	EN 1.4408	[W]
lean all an	AISI 316	50
Impeller:	Stainless steel	10
	EN 1.4401	40
	AISI 316	300
Material code:	A	
Code for rubber:	V	200
Bearing:	SIC	10
Installation:		100
Maximum ambient temperature:	40 °C	(
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	
	DIN 23/32	
	1 1/1 inch	
	1 1/4 inch	
Size of outlet connection:	DN 25/32	
	DN 25/32 1 1/4 inch	
Size of outlet connection: Pressure rating for pipe connection:	DN 25/32	
Pressure rating for pipe connection: Flange rating inlet:	DN 25/32 1 1/4 inch	
Pressure rating for pipe connection: Flange rating inlet:	DN 25/32 1 1/4 inch PN 25	
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor:	DN 25/32 1 1/4 inch PN 25 300 lb	
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 FT85	
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 FT85	
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 FT85 FGJ	
Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range:	DN 25/32 1 1/4 inch PN 25 300 lb FT85 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 FT85 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:	DN 25/32 1 1/4 inch PN 25 300 lb FT85 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: Density: Electrical data:	DN 25/32 1 1/4 inch PN 25 300 lb FT85 FGJ Water -20 90 °C 20 °C 998.2 kg/m ³	
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 FT85 FGJ Water -20 90 °C 20 °C 998.2 kg/m ³ IEC	6
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 FT85 FGJ Water -20 90 °C 20 °C 998.2 kg/m ³ IEC 71B	6
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:	DN 25/32 1 1/4 inch PN 25 300 lb FT85 FGJ Water -20 90 °C 20 °C 998.2 kg/m ³ IEC 71B IE3	
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 FT85 FGJ Water -20 90 °C 20 °C 998.2 kg/m ³ IEC 71B IE3 0.55 kW	60
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 FT85 FGJ Water -20 90 °C 20 °C 998.2 kg/m ³ IEC 71B IE3	(a) (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: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	DN 25/32 1 1/4 inch PN 25 300 lb FT85 FGJ Water -20 90 °C 20 °C 998.2 kg/m ³ IEC 71B IE3 0.55 kW	(6) (6)
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: Mains frequency:	DN 25/32 1 1/4 inch PN 25 300 lb FT85 FGJ Water -20 90 °C 20 °C 998.2 kg/m ³ IEC 71B IE3 0.55 kW 0.55 kW	[6] ∑
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: Mains frequency:	DN 25/32 1 1/4 inch PN 25 300 lb FT85 FGJ Water -20 90 °C 20 °C 998.2 kg/m ³ IEC 71B IE3 0.55 kW 0.55 kW 50 Hz	[6] ← →
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 FT85 FGJ Water -20 90 °C 20 °C 998.2 kg/m ³ IEC 71B IE3 0.55 kW 0.55 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 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 FT85 FGJ Water -20 90 °C 20 °C 998.2 kg/m ³ IEC 71B IE3 0.55 kW 0.55 kW 50 Hz 3 x 220-240D/380-415Y V 2.50/1.44 A 580-620 %	 2 2 3 4 4
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: Starting current: Cos phi - power factor:	DN 25/32 1 1/4 inch PN 25 300 lb FT85 FGJ Water -20 90 °C 20 °C 998.2 kg/m ³ IEC 71B IE3 0.55 kW 0.55 kW 50 Hz 3 x 220-240D/380-415Y V 2.50/1.44 A 580-620 % 0.80-0.70	 2 2 3 4 4
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: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed:	DN 25/32 1 1/4 inch PN 25 300 lb FT85 FGJ Water -20 90 °C 20 °C 998.2 kg/m ³ IEC 71B IE3 0.55 kW 0.55 kW 50 Hz 3 x 220-240D/380-415Y V 2.50/1.44 A 580-620 % 0.80-0.70 2830-2850 rpm	 2 2 3 4
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 voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency:	DN 25/32 1 1/4 inch PN 25 300 lb FT85 FGJ Water -20 90 °C 20 °C 998.2 kg/m ³ IEC 71B IE3 0.55 kW 0.55 kW 0.55 kW 50 Hz 3 x 220-240D/380-415Y V 2.50/1.44 A 580-620 % 0.80-0.70 2830-2850 rpm IE3 77,8%	 2 2 3 4 4
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: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load:	DN 25/32 1 1/4 inch PN 25 300 lb FT85 FGJ Water -20 90 °C 20 °C 20 °C 998.2 kg/m ³ IEC 71B IE3 0.55 kW 0.55 kW 0.55 kW 50 Hz 3 x 220-240D/380-415Y V 2.50/1.44 A 580-620 % 0.80-0.70 2830-2850 rpm IE3 77,8% 77.8 %	 2 2 3 4 4
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: Starting current: Cos phi - power factor: Rated speed: Efficiency:	DN 25/32 1 1/4 inch PN 25 300 lb FT85 FGJ Water -20 90 °C 20 °C 998.2 kg/m ³ IEC 71B IE3 0.55 kW 0.55 kW 0.55 kW 50 Hz 3 x 220-240D/380-415Y V 2.50/1.44 A 580-620 % 0.80-0.70 2830-2850 rpm IE3 77,8%	 2 2 3 4 4

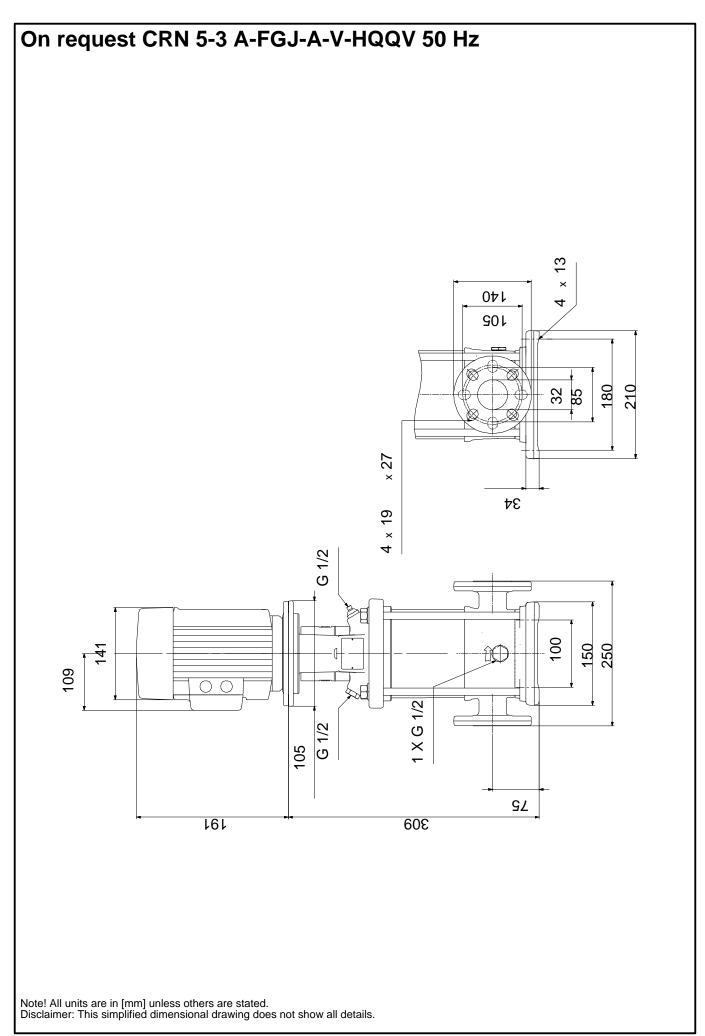


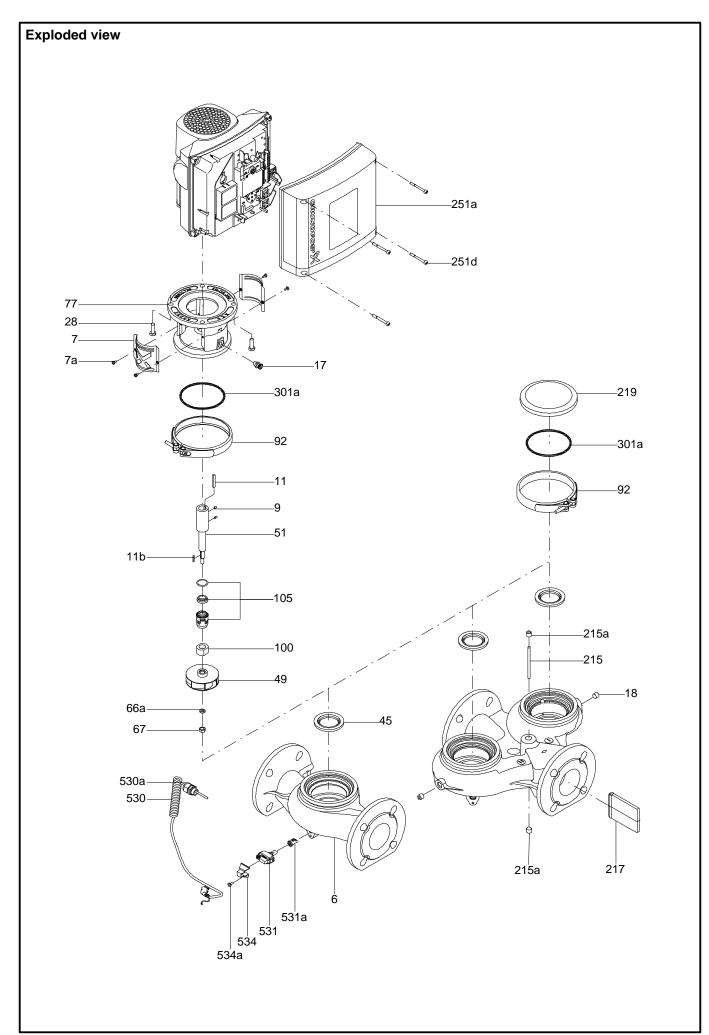


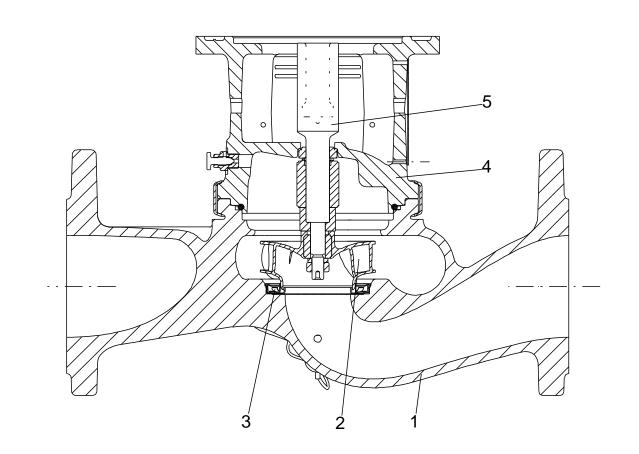


Description	Value
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85805103
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI :	0.57
Net weight:	20.8 kg
Gross weight:	23.4 kg
Shipping volume:	0.054 m³

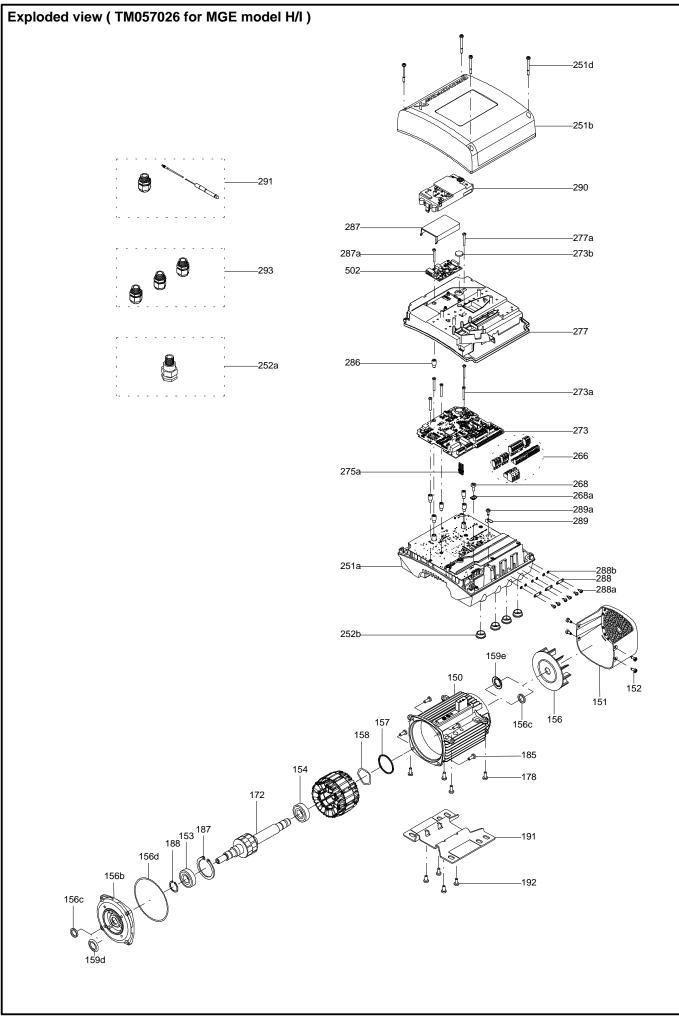








TM058200



Parts list CRN 5-3, Product No. On request Valid from 1.1.2004 (0401)

Pos	Description	Annotation	Données de classification	Reference	Qua	ntite	Unit
	Motor				1		pcs
	Base cpl.				1		pcs
6	Base						
56	Base plate						
201.a	Flange				2		
203	Lock ring				2	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	2	
			Material type: FKM				
			Thickness: 3,3				
100	O-ring		Diameter: 16,3		2	2	
			Material type: FKM				
			Thickness: 2,4				
2	Pump head cpl.				1		pcs
2	Pump head				1	1	•
7	Coupling guard				2		
7.а	Combi Slot Torx screw						
18	Air vent screw						
	Plug					1	
	Spindle					1	
23a	Plug						
28	Hex head screw		Length (mm): 20			1	
20			Thread: M6			•	
60	Formed wire spring					1	
77	Pump cover					1	
8	Coupling				1		pcs
9	Hex socket head cap screw		Designation: DIN 912		2	1	
			Length (mm): 20				
			Thread: M6				
10	Shaft pin		Diameter: 5			1	
			Length (mm): 26				
10a	Coupling half				2	2	
26	Staybolt		Length (mm): 178		4		pcs
			Thread: M12				
36	Nut		Thread: M12		4		pcs
55	Outer sleeve				1		pcs
66a	Washer		Designation: DIN 125 A2		4		pcs
000			Internal diameter: 13		•		poo
			Outer diameter: 24				
			Thickness: 2,5				
80	Chamber stack		1 HOM 1033. 2,0		1		pcs
4	Chamber cpl.				1	1	pus
-	Chamber					1	
45							
45	Neck ring					1	
65	Neck ring retainer					1	
4a	Chamber w. bearing cpl.						
	Chamber					1	
45	Neck ring					1	
65	Neck ring retainer					1	
5a	Chamber cpl.					1	
	Chamber					1	
45	Neck ring					1	
65	Neck ring retainer					1	
36	Lock nut		Thread: M8			1	
47a	Bearing ring, rotating					1	

	Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
+	49	Impeller cpl.				3	
-	50a	Guide vane				1	
		Guide vane				6	
		Plate				1	
	50b	Top plate				1	
	51	Shaft, spline, cpl.				1	
	64a	Spacing pipe		Length (mm): 13.00		1	
	64c	Clamp, splined		Internal diameter: 8,5		1	
				Outer diameter: 15			
	66	Wedge lock washer				1	
	69	Spacing pipe		Length (mm): 26.0		1	
	69	Spacing pipe		Length (mm): 2.00		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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