

CRN1-17 A-FGJ-G-E-HQQE 3x230/400 50HZ Grundfos pump 96516411



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info@lenntech.com tel. +31 152 610 900 fax. +31 152 616 289

Position	Qty.	Description
	1	CRN 1-17 A-FGJ-A-E-HQQE
		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.
		Cana Color and and a contraction of the contraction
		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: EPDM (ethylene-propylene rubber) EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.
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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.

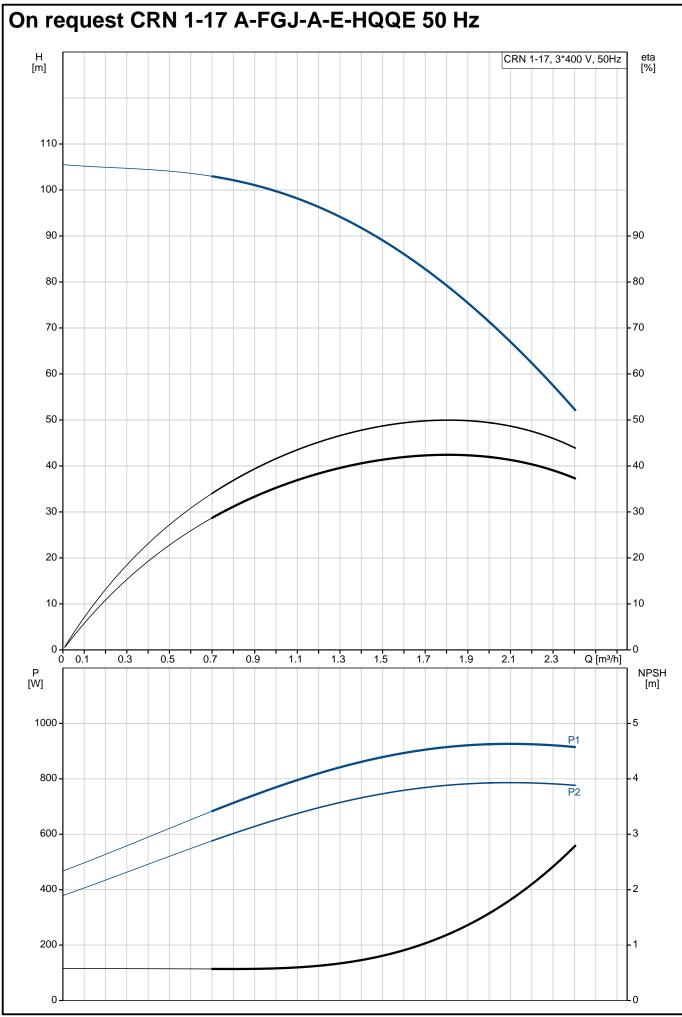
The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (11/1).

Technical data

Controls:

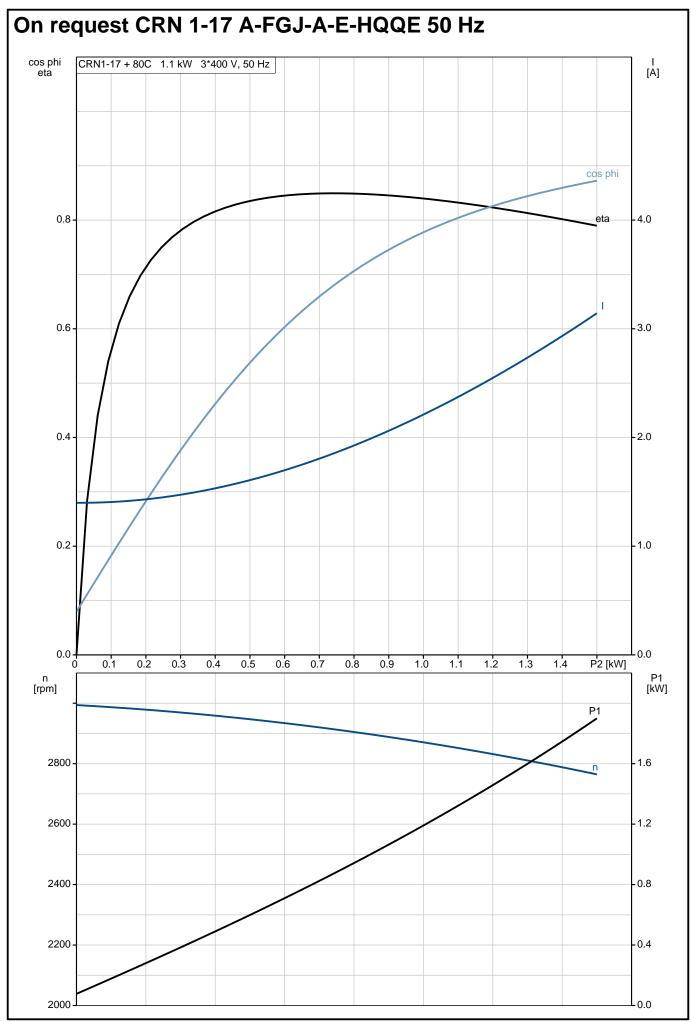
NONE
Water -20 120 °C ion: 20 °C 998.2 kg/m ³
1.8 m ³ /h 80.1 m Vertical Single HQQE CE, EAC,ACS ISO9906:2012 3B
Stainless steel
AISI 316 Stainless steel EN 1.4401 AISI 316
SIC
60 °C 25 bar 25 bar / 120 °C 25 bar / -20 °C DIN / ANSI / JIS DN 25/32

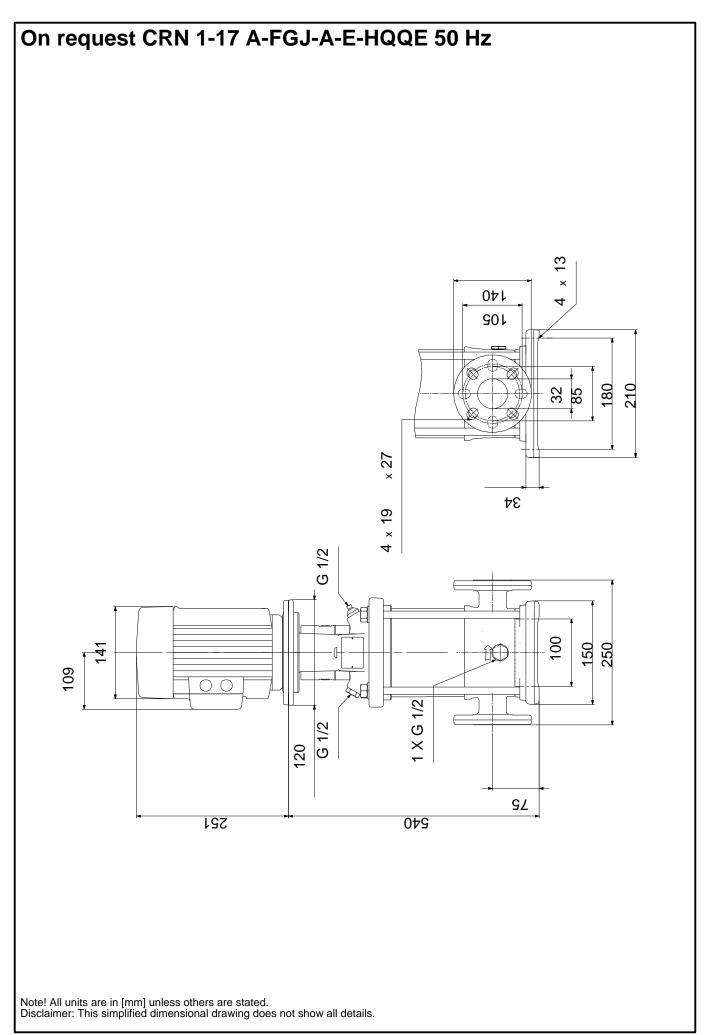
Position	Qty.	Description	
		• • • •	1 1/4 inch
		Size of outlet connection:	DN 25/32
			1 1/4 inch
		Pressure rating for pipe connect	
		Flange rating inlet: Flange size for motor:	300 lb FT100
		Electrical data:	
		Motor standard:	IEC
		Motor type: IE Efficiency class:	80C IE3
		Rated power - P2:	1.1 kW
		Power (P2) required by pump:	1.1 kW
		Mains frequency:	50 Hz
		Rated voltage: Rated current:	3 x 220-240D/380-415Y V 4.35/2.50 A
		Starting current:	450-500 %
		Cos phi - power factor:	0.83-0.76
		Rated speed:	2840-2870 rpm
		Efficiency: Motor efficiency at full load:	IE3 82,7% 82.7 %
		Motor efficiency at 3/4 load:	84.6 %
		Motor efficiency at 1/2 load:	85.4 %
		Number of poles:	2
		Enclosure class (IEC 34-5): Insulation class (IEC 85):	55 Dust/Jetting F
		Others:	
		Minimum efficiency index, MEI	
		Net weight: Gross weight:	31.4 kg 35.5 kg
		Shipping volume:	0.092 m ³

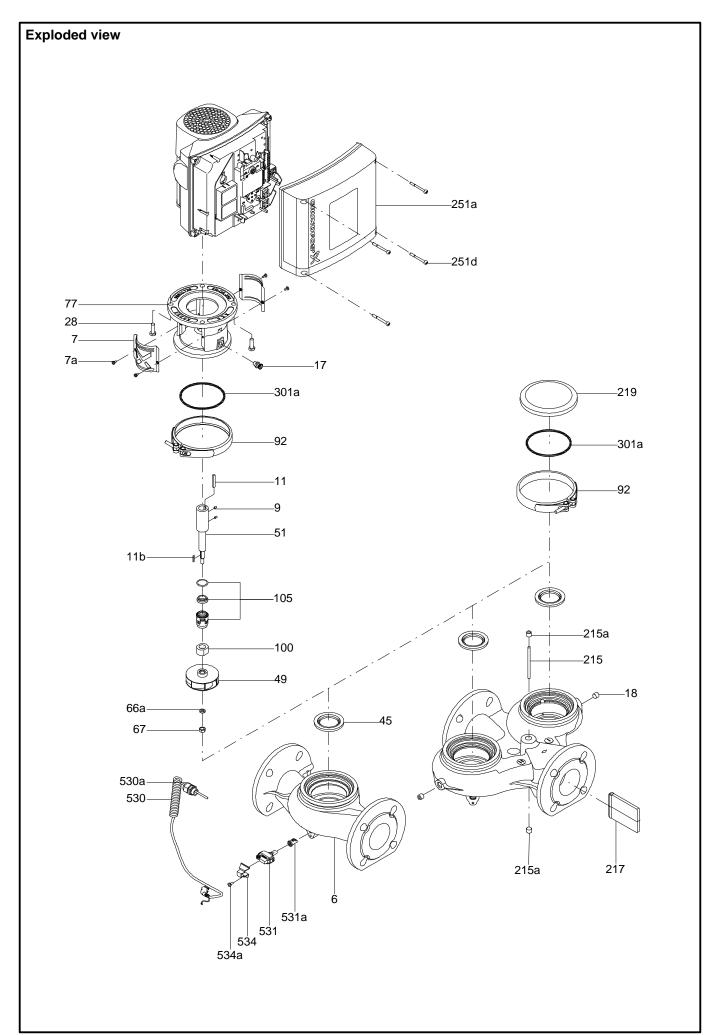


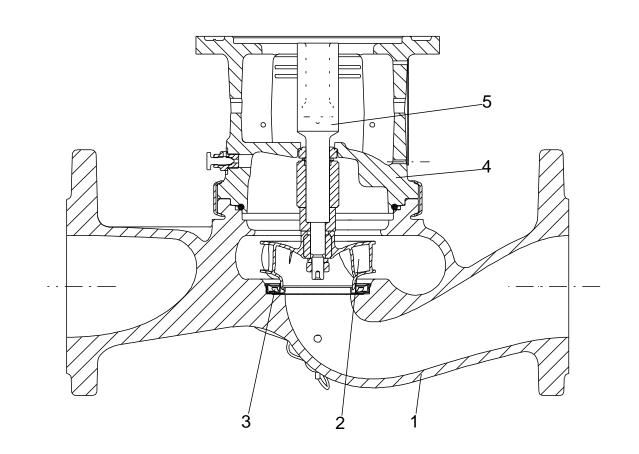
Description	Value	H [m]	CRN 1-17, 3*400 V, 50Hz [%]
General information:	Taluc	frid	
Product name:	CRN 1-17 A-FGJ-A-E-HQQE	110 -	
Product No:	On request		
EAN number:	On request	100 -	
Technical:		00	
Rated flow:	1.8 m³/h	90 -	90
Rated head:	80.1 m	80 -	80
Stages:	17	70 -	
Impellers:	17		
Number of reduced-diameter	0	60 -	
impellers:	0		
Low NPSH:	Ν	50 -	50
Pump orientation:	Vertical	10	
•		40 -	40
Shaft seal arrangement:	Single	30 -	
Code for shaft seal:	HQQE	- 50	
Approvals on nameplate:	CE, EAC,ACS	20 -	
Curve tolerance:	ISO9906:2012 3B	-	
Pump version:	A	10 -	- 10
Model:	A		
	~	0 -	
Materials:		0	0.2 0.6 1.0 1.4 1.8 Q [m³/h]
Base:	Stainless steel	P [W]	NPSH [m]
	EN 1.4408	1000 -	
	AISI 316		P1
Impeller:	Stainless steel	800 -	-4
impener.		000	P2
	EN 1.4401	600 -	-3
	AISI 316	000 -	
Material code:	A	400 -	2
Code for rubber:	E	400 -	
Bearing:	SIC		
	310	200 -	
Installation:			
Maximum ambient temperature:	60 °C	0 -	
Maximum operating pressure:	25 bar	4	
Max pressure at stated temp:	25 bar / 120 °C		109
	25 bar / -20 °C		141
Type of connection:	DIN / ANSI / JIS	Г	
Size of inlet connection:	DN 25/32	251	
	1 1/4 inch	~	
Size of outlet connection:	DN 25/32		
	1 1/4 inch		
Pressure rating for pipe connection:	PN 25		$G_{1/2}$
Flange rating inlet:	300 lb	540	<u>4 × 19 × 27</u> 1 X G 1/2
Flange size for motor:	FT100		
Connect code:	FGJ		
Liquid:			
Pumped liquid:	Water	L	
	-20 120 °C		
Liquid temperature range:	-20120 C		250 180 210
Liquid temperature during operation:	20 °C		<u> </u>
Density:	998.2 kg/m³		
Electrical data:			
Motor standard:	IEC	6	DIRECTION OF ROTATION
		1.	
Motor type:	80C		┆┍╅╍══╾┑┆┆ ┃
IE Efficiency class:	IE3		
Rated power - P2:	1.1 kW		
Power (P2) required by pump:	1.1 kW		
Mains frequency:	50 Hz		
	3 x 220-240D/380-415Y V		
Rated voltage:			
Rated current:	4.35/2.50 A	6	LOW VOLTAGE DIRECTION OF ROTATION
Starting current:	450-500 %	1000	()
Cos phi - power factor:	0.83-0.76	r.	
Rated speed:	2840-2870 rpm		
		🖌 '	
Efficiency:	IE3 82,7%		
Motor efficiency at full load:	82.7 %		
Motor efficiency at 3/4 load:	84.6 %	1	
wow enciency at 3/4 load.	0.110 / 0	$ \triangleleft$	

Description	Value
Motor efficiency at 1/2 load:	85.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85905176
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI :	0.7
Net weight:	31.4 kg
Gross weight:	35.5 kg
Shipping volume:	0.092 m³

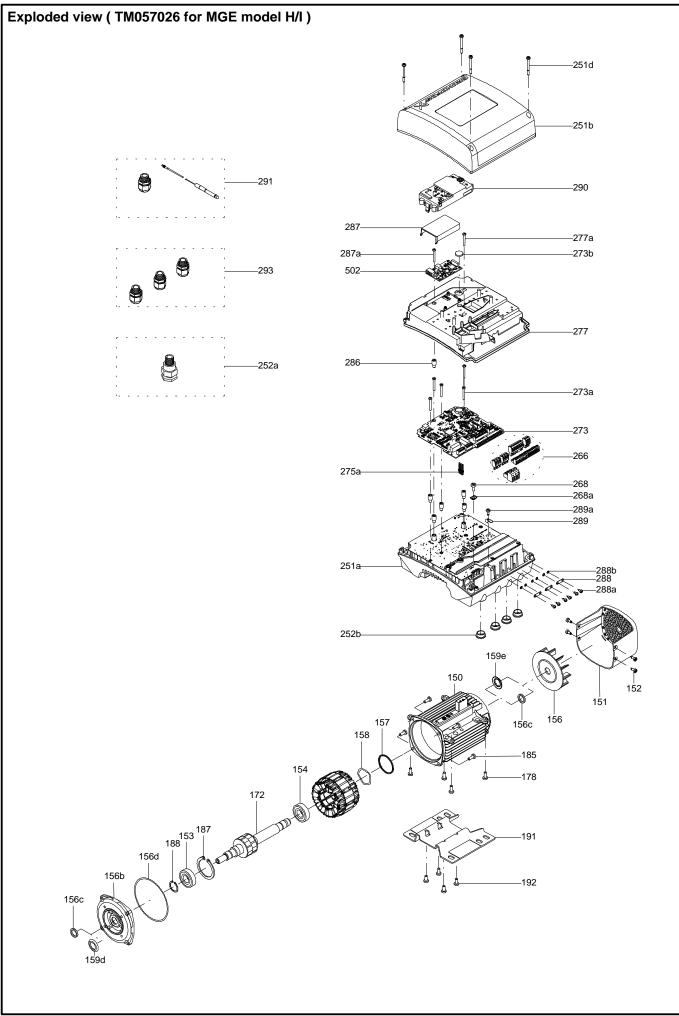








TM058200



Parts list CRN 1-17, Product No. On request Valid from 1.1.2011 (1152)

Pos	Description	Annotation	Données de classification	Reference	Quantité	Unité
	Motor				1	pcs
	Base cpl.				1	pcs
6	Base				1	
56	Base plate				1	
201.a	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	
	ŭ		Material type: EPDM			
			Thickness: 2,4			
37	O-ring		······································		2	
100	O-ring		Diameter: 16,3		2	
100	0 mig		Material type: EPDM		2	
			Thickness: 2,4			
2	Dump hood on		THICKNESS. 2,4		1	
	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	
			Thread: M6			
60	Formed wire spring				1	
77	Pump cover				1	
8	Coupling cpl.				1	pcs
9	Hex socket head cap screw		Designation: DIN 912		4	poo
5	They socket head cap solew		Length (mm): 20			
			Thread: M6			
10	Chaft siz				4	
10	Shaft pin		Diameter: 5		1	
			Length (mm): 26			
10a	Coupling half				2	
26	Staybolt		Length (mm): 403		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.				14	
4a	Intermediate chamber				1	
45	Neck ring				1	
43 65	Neck ring retainer				1	
	¥				2	
4a	Chamber w. bearing cpl.					
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	
65	Neck ring retainer				1	
36	Lock nut		Thread: M8		1	
47a	Bearing ring, rotating				2	
49	Impeller cpl.				17	
49						

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
	Plate				1	
50b	Top plate				1	
51	Shaft, spline, cpl.				1	
64a	Spacing pipe				14	
64a	Spacing pipe		Internal diameter: 12,85		2	
			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: HQQE		1	pcs
	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				1	
102	O-ring		Diameter: 22,00		1	
			Material type: EPDM			
			Thickness: 2,75			
103	Seal ring, stationary				1	
105	Seal ring, rotating				1	
107	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