

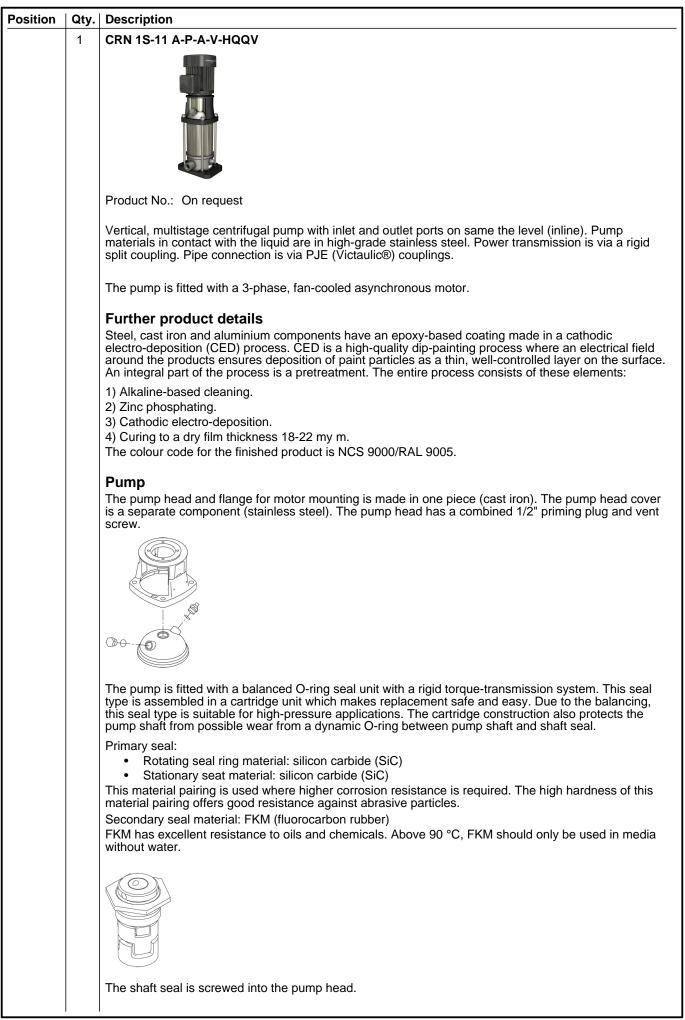
## CRN1S-11 A-P-G-V-HQQV 3x230/400 50HZ Grundfos pump 96516082



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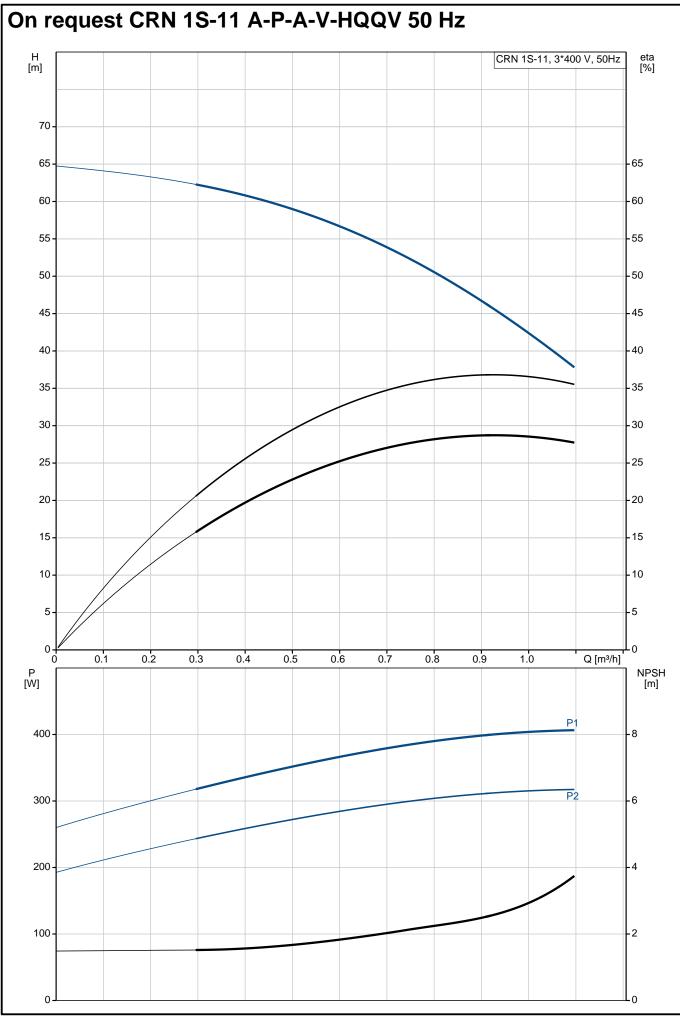
https://www.lenntech.com/grundfos/CRN1S/96516082/CRN-1S-11-A-P-G-V-HQQV.html

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



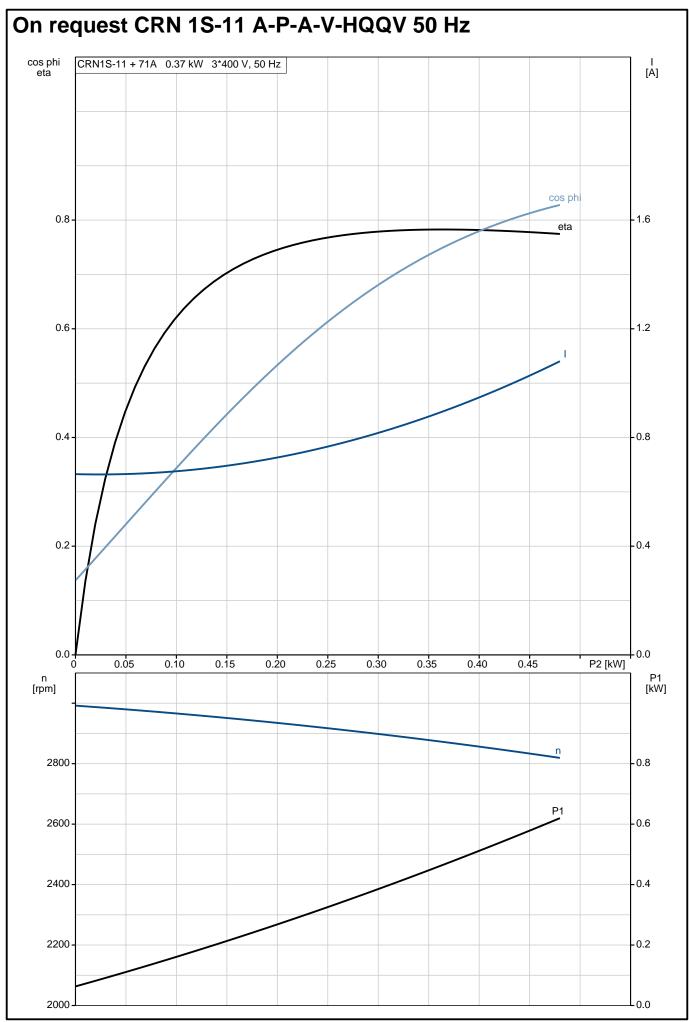
Position	Qty.	Description						
		The pump has a stainless-steel base mounted on a separate base plate. The base and base plate are kept in position by the tension of the staybolts which hold the pump together. The outlet side of the base has a combined drain plug and bypass valve. The pump is secured to the foundation by four bolts through the base plate. The base is prepared for connection by means of PJE (Victualic®) couplings.						
		Matan						
		<b>Motor</b> 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).						
		<ul> <li>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 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 (I1/1).</li> </ul>						
		Technical data						
		<b>Controls:</b> Frequency converter:	NONE					
		Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation Density:	Water -20 90 °C tion: 20 °C 998.2 kg/m <sup>3</sup>					
		Technical:	0.02/h					
		Rated flow: Rated head:	0.9 m³/h 43.5 m					
		Pump orientation:	Vertical					
		Shaft seal arrangement:	Single					
		Code for shaft seal:	HQQV CE, EAC					
		Approvals on nameplate: 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:						
		Maximum operating pressure:	25 bar					
		Max pressure at stated temp:	25 bar / 90 °C					
		Turne of compositions	25 bar / -20 °C					
		Type of connection: Size of inlet connection:	PJE DN 32					
			1 1/4 inch					
		Size of outlet connection:	DN 32					
			1 1/4 inch					
		Pressure rating for pipe connection: PN 50						

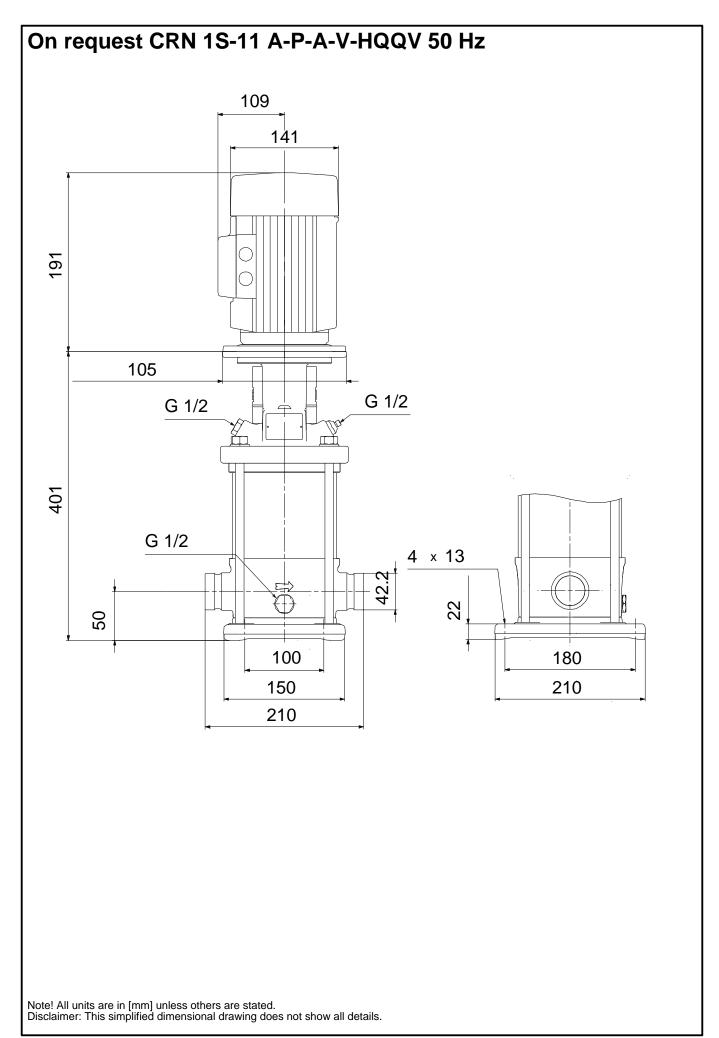
Position	Qty.	Description	
		Flange size for motor:	FT85
Position	Qty.	Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: 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):	IEC 71A IE3 0.37 kW 0.37 kW 50 Hz 3 x 220-240D/380-415Y V 1.74/1.00 A 490-530 % 0.80-0.70 2850-2880 rpm IE3 73,8% 73.8 % 79.0 % 75.5 % 2 55 Dust/Jetting
		Insulation class (IEC 85): Others: Minimum efficiency index, MEI Net weight:	F : 0.54 19.7 kg
		Gross weight: Shipping volume:	22.4 kg 0.063 m <sup>3</sup>

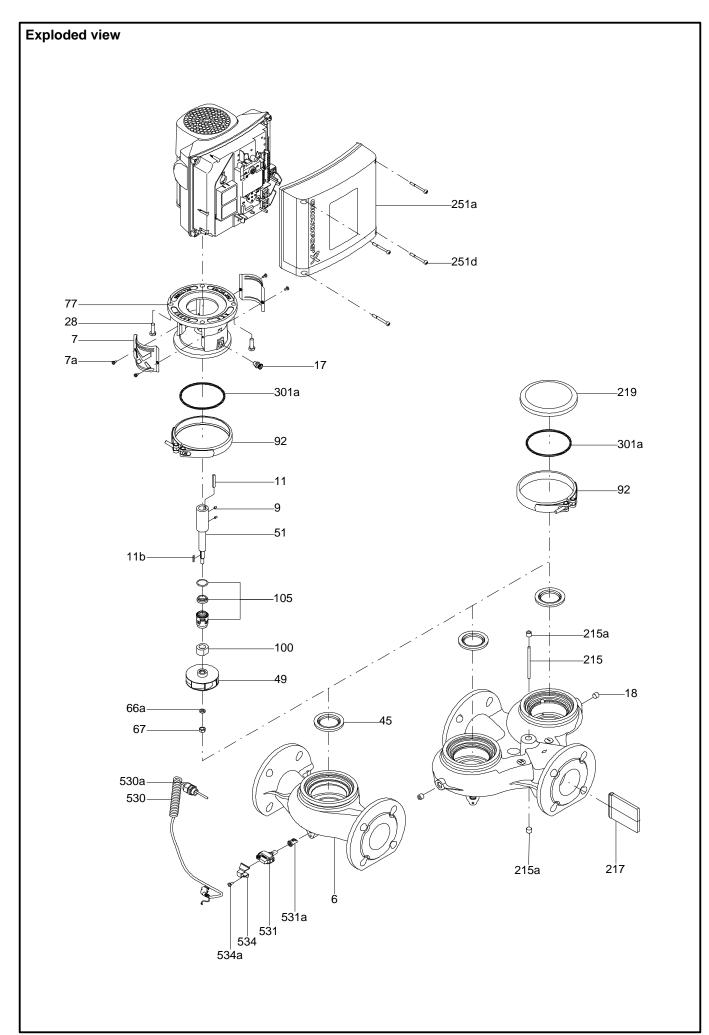


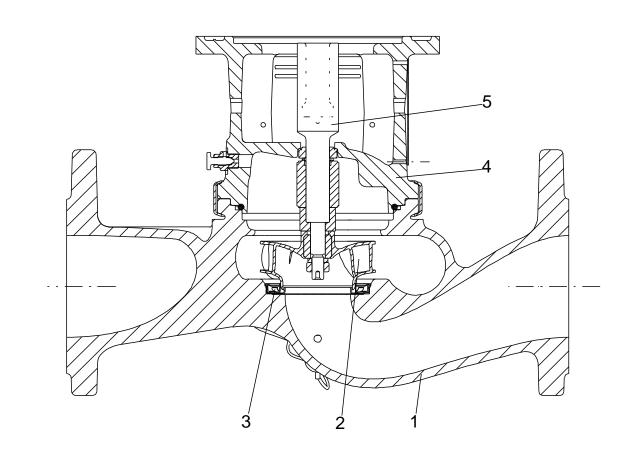
Description	Value	H [m]	CRN 1S-11, 3*400 V, 50Hz [%]
General information:	Taluc	[]	
Product name:	CRN 1S-11 A-P-A-V-HQQV	70 -	
Product No:	On request	65 -	- 65
EAN number:	On request		
Technical:	On request	60 -	60
	0.0	55 <b>-</b>	- 55
Rated flow:	0.9 m³/h	50 -	-50
Rated head:	43.5 m		
Stages:	11	45 -	- 45
Impellers:	11	40 -	- 40
Number of reduced-diameter	0	35 -	35
impellers:	0		
Low NPSH:	N	30 -	-30
Pump orientation:	Vertical	25 <b>-</b>	
Shaft seal arrangement:	Single	20 -	
Code for shaft seal:	HQQV		
Approvals on nameplate:	CE, EAC	15 <b>-</b>	- 15
Curve tolerance:	ISO9906:2012 3B	10 -	
Pump version:	A	5 -	-5
Model:		J	<b>-</b> 3
Model: Materials:	Α	0 <del> </del>	0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 Q [m³/h]
	0	РГ	0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 Q [III/II]
Base:	Stainless steel	[Ŵ]	[m]
	EN 1.4408	400 -	P1 - 8
	AISI 316		
Impeller:	Stainless steel	300 -	P2 - 6
	EN 1.4401	300 -	P2 - 6
	AISI 316		
Material code:	A	200 -	-4
Code for rubber:	V		
Bearing:	SIC	100 -	2
Installation:	0.0		
Maximum ambient temperature:	40 °C	0	
	05 h		
Maximum operating pressure:		1	<u>109</u>
Max pressure at stated temp:	25 bar / 90 °C		
	25 bar / -20 °C		
Type of connection:	PJE		
Size of inlet connection:	DN 32	191	
	1 1/4 inch		
Size of outlet connection:	DN 32		
	1 1/4 inch	10	
Pressure rating for pipe connection:	PN 50		<u>G 1/2</u> <u>G 1/2</u>
Flange size for motor:	FT85		
Connect code:	Ρ	401	
Liquid:	-		
Pumped liquid:	Water	<u>c</u>	
Liquid temperature range:	-20 90 °C		
		20	
Liquid temperature during operation:	20 °C		
Density:	998.2 kg/m³		
Electrical data:			
Motor standard:	IEC		
Motor type:	71A	6	HIGH VOLTAGE DIRECTION OF ROTATION
IE Efficiency class:	IE3	1800	·
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 %	′	
-			LOW VOLTAGE DIRECTION OF ROTATION
Cos phi - power factor:	0.80-0.70	6	
Rated speed:	2850-2880 rpm		<b></b>
Efficiency:	IE3 73,8%	(Carl	
Motor efficiency at full load:	73.8 %	ר 🖌	
Motor efficiency at 3/4 load:	79.0 %	_	
Motor efficiency at 1/2 load:	75.5 %		
Number of poles:	2		
		$  \langle \langle \rangle \rangle$	

Description	Value
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:	19.7 kg
Gross weight:	22.4 kg
Shipping volume:	0.063 m <sup>3</sup>

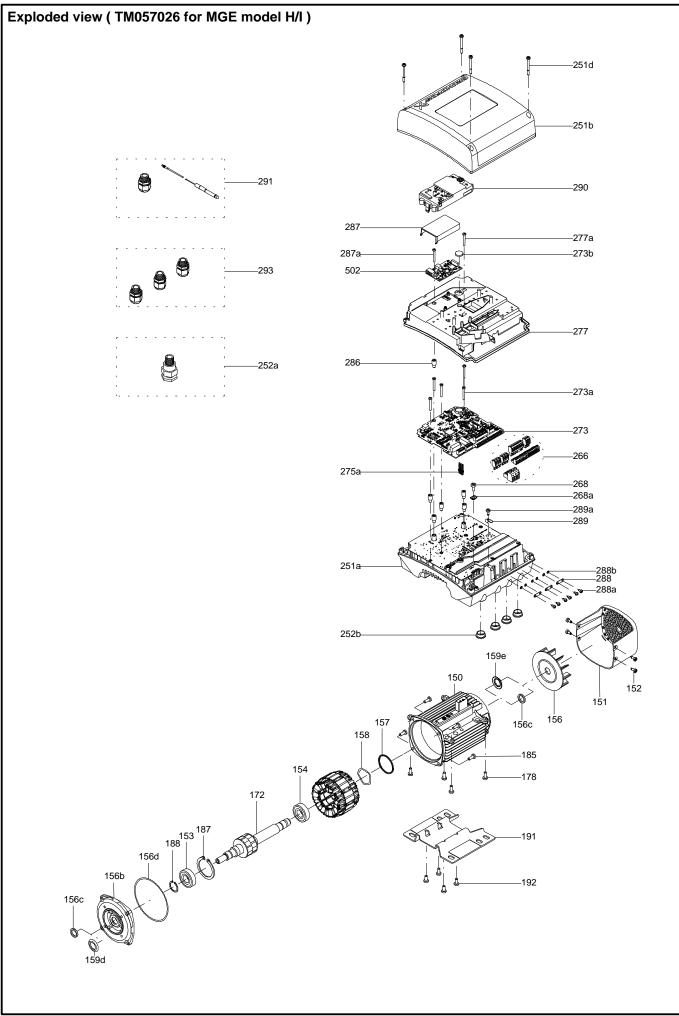








## TM058200



## Parts list CRN 1S-11, Product No. On request Valid from 1.1.2004 (0401)

Pos	Description Motor	Annotation	Données de classification	Neierence	Quantité	
	Base cpl.				1	pcs pcs
6	Base				1	pcs
6						
25	Plug Dess plats				2	
56	Base plate				1	
~-	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): 20		4	
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		4	pus
9	Hex socket head cap screw		Length (mm): 20		4	
			Thread: M6			
10	Shoft nin		Diameter: 5		1	
10	Shaft pin					
40-	O surpline a la slf		Length (mm): 26		0	
10a	Coupling half				2	
26	Staybolt		Length (mm): 292		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
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	
102					3	
103	Seal ring, stationary					
105	Seal ring, rotating				1	
109	O-ring				1	

Pos	Description	
113	Driver	

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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