

CRI1S-11 A-P-I-E-HQQE 1x220/240 50HZ

Grundfos pump 96562686



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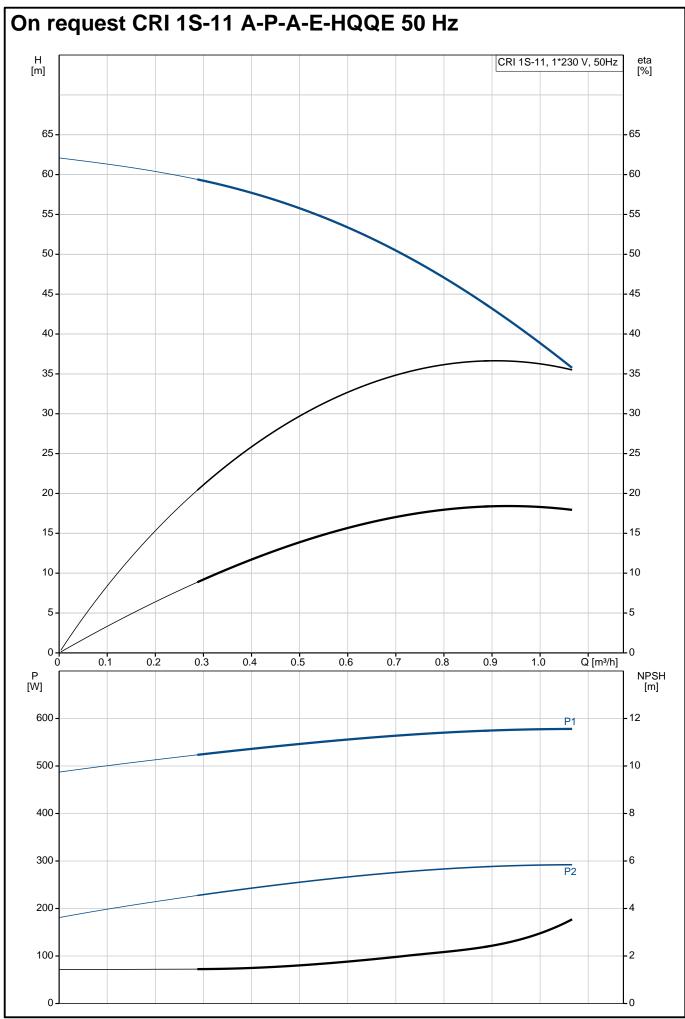
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Position	Qty.	Description
	1	CRI 1S-11 A-P-A-E-HQQE
		Product No.: On request
		Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in stainless steel. Power transmission is via a rigid split coupling. Pipe connection is via PJE (Victaulic®) couplings.
		The pump is fitted with a 1-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: 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.

Position	Qty.	Description	
		kept in position by the tension of base has a combined drain plug	base mounted on a separate base plate. The base and base plate are the staybolts which hold the pump together. The outlet side of the and bypass valve. The pump is secured to the foundation by four bolts e is prepared for connection by means of PJE (Victualic®) couplings.
		Motor	
		The motor is a totally enclosed, f The motor is flange-mounted wit	an-cooled motor with principal dimensions to IEC and DIN standards. h tapped-hole flange (FT).
		Motor-mounting designation in a Electrical tolerances comply with	ccordance with IEC 60034-7: IM B 14 (Code I) / IM 3601 (Code II).
		The motor has built-in thermal pi IEC 60034-11 and requires no fu	rotection (PTO current and temperature sensors) in accordance with inther motor protection. The protection reacts to both slow- and onstant overload and stalled conditions.
		As the thermal protection incorport ensures that the automatic reset	prates automatic reset, the motor must be connected in a way which cannot cause accidents.
		Technical data	
		Controls:	
		Frequency converter:	NONE
		Liquid: Pumped liquid:	Water
		Liquid temperature range: Liquid temperature during opera	-20 120 °C
		Density:	998.2 kg/m ³
		Technical:	
		Rated flow: Rated head:	0.9 m³/h 46.6 m
		Pump orientation:	Vertical
		Shaft seal arrangement:	Single
		Code for shaft seal: Approvals on nameplate:	HQQE CE, EAC,ACS
		Curve tolerance:	ISO9906:2012 3B
		Materials:	
		Base:	Stainless steel EN 1.4408
			AISI 316
		Impeller:	Stainless steel
			EN 1.4301 AISI 304
		Bearing:	SIC
		Installation:	
		Maximum ambient temperature:	
		Maximum operating pressure: Max pressure at stated temp:	25 bar 25 bar / 120 °C
		Type of connection:	25 bar / -20 °C PJE
		Type of connection: Size of inlet connection:	DN 32
			1 1/4 inch
		Size of outlet connection:	DN 32 1 1/4 inch
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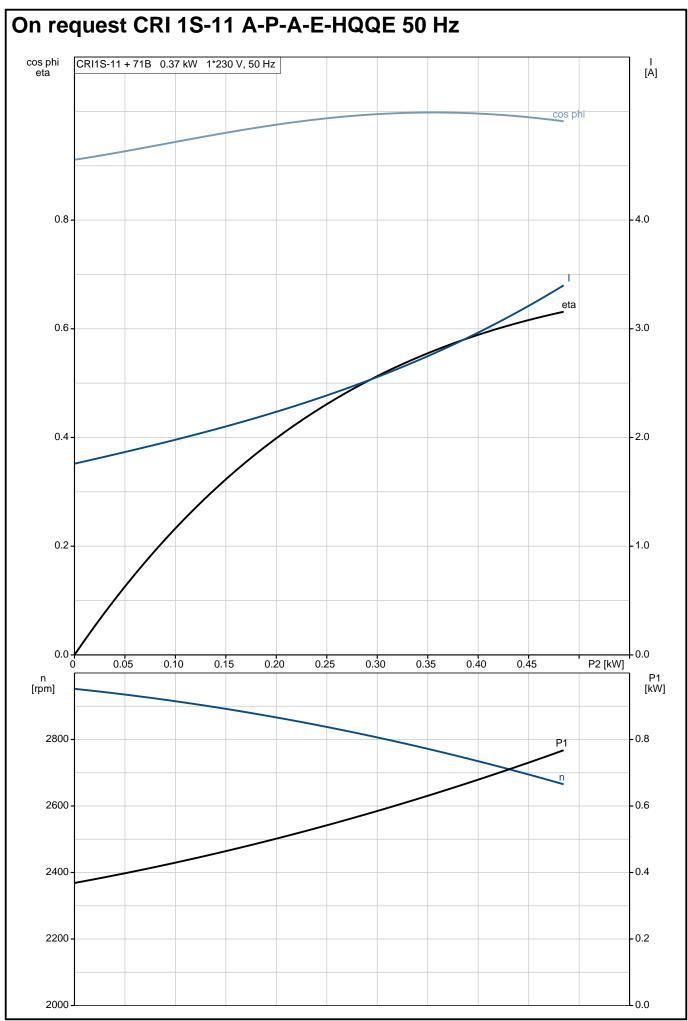
Position	Qty.	Description	
		Pressure rating for pipe connec	tion: PN 50
		Flange size for motor:	FT85
		Electrical data:	
		Electrical data: Motor standard:	IEC
		Motor type:	71B
		Rated power - P2:	0.37 kW
		Power (P2) required by pump:	
		Mains frequency: Rated voltage:	50 Hz 1 x 220-230/240 V
		Rated current:	2.95/2.70 A
		Starting current:	280 %
		Cos phi - power factor:	0.99
		Rated speed:	2770 rpm
		Motor efficiency at full load: Number of poles:	60.0-56.0 % 2
		Enclosure class (IEC 34-5):	2 55 Dust/Jetting
		Insulation class (IEC 85):	F
		Others:	
		Minimum efficiency index, MEI	
		Net weight: Gross weight:	20.4 kg 23.2 kg
		Shipping volume:	0.063 m ³
		os Product Contro [2018 06 002]	3/13



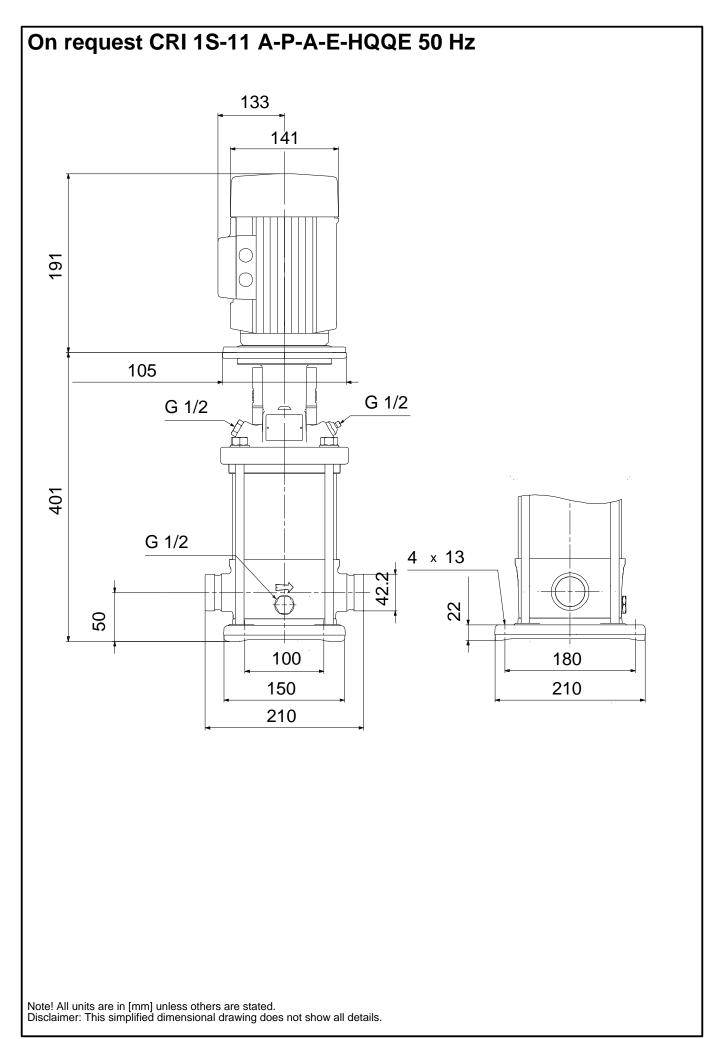
Description	Value	H [m] CRI 1S-11, 1*230 V, 50Hz [%]
General information:	Value	
Product name:	CRI 1S-11 A-P-A-E-HQQE	65 - 65
Product No:	On request	60 60
EAN number:	On request	55 - 55
Technical:		
Rated flow:	0.9 m³/h	50 50
Rated head:	46.6 m	45 - 45
Stages:	11	40 40
Impellers:	11	40 - 40
	2	35 - 35
Number of reduced-diameter impellers:	0	30 - 30
Low NPSH:	Ν	
Pump orientation:	Vertical	25 - 25
Shaft seal arrangement:	Single	20 20
Code for shaft seal:	HQQE	
		15
Approvals on nameplate:	CE, EAC,ACS	10 10
Curve tolerance:	ISO9906:2012 3B	
Pump version:	A	5
Model:	A	0 0
Materials:		0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 Q [m³/h]
Base:	Stainless steel	P NPSH
	EN 1.4408	[W] [m]
	AISI 316	
		500 - 10
Impeller:	Stainless steel	
	EN 1.4301	400 8
	AISI 304	300 - 6
Material code:	A	P2
Code for rubber:	E	200 - 4
Bearing:	SIC	
Installation:		100 - 2
Maximum ambient temperature:	40 °C	
Maximum operating pressure:		<u>133</u>
Max pressure at stated temp:	25 bar / 120 °C	
	25 bar / -20 °C	
Type of connection:	PJE	
Size of inlet connection:	DN 32	
	1 1/4 inch	
Size of outlet connection:	DN 32	
	1 1/4 inch	
Dressure roting for sine connection.		G 1/2 G 1/2
Pressure rating for pipe connection:	PN 50	
Flange size for motor:	FT85	
Connect code:	Р	
Liquid:		G 1/2
Pumped liquid:	Water	
Liquid temperature range:	-20 120 °C	
Liquid temperature during operation:	20 °C	
Density:	998.2 kg/m ³	
Electrical data:		210
Motor standard:	IEC	
		LOW VOLTAGE DIRECTION OF ROTATION
Motor type:	71B	DIRECTION OF ROTATION
Rated power - P2:	0.37 kW	
Power (P2) required by pump:	0.37 kW	
Mains frequency:	50 Hz	
Rated voltage:	1 x 220-230/240 V	
Rated current:	2.95/2.70 A	
Starting current:	280 %	
Cos phi - power factor:	0.99	
		HIGH VOLTAGE DIRECTION OF ROTATION
Rated speed:	2770 rpm	DIRECTION OF ROTATION
Motor efficiency at full load:	60.0-56.0 %	
Number of poles:	2	
Enclosure class (IEC 34-5):	55 Dust/Jetting	
Insulation class (IEC 85):	F	
	РТО	
Motor protec:		
Motor protec: Motor No:	85215102	

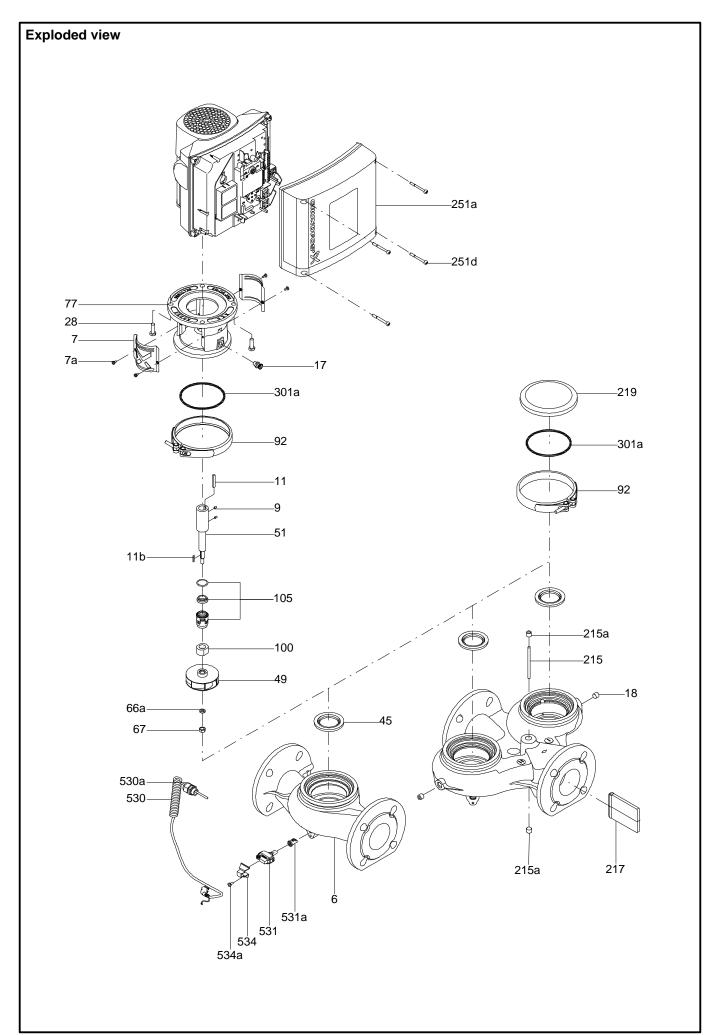
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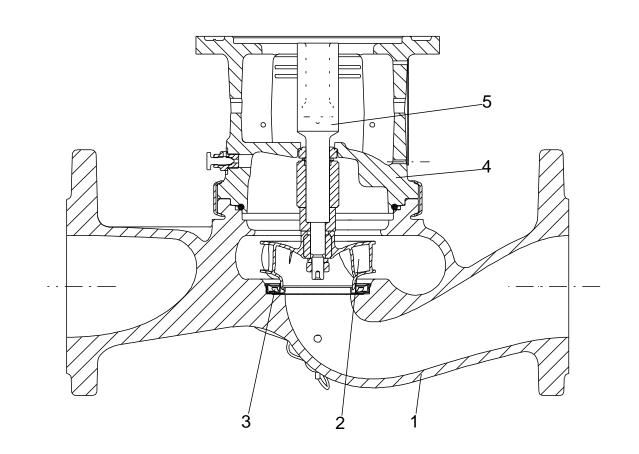
Description	Value
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI :	0.54
Net weight:	20.4 kg
Gross weight:	23.2 kg
Shipping volume:	0.063 m ³



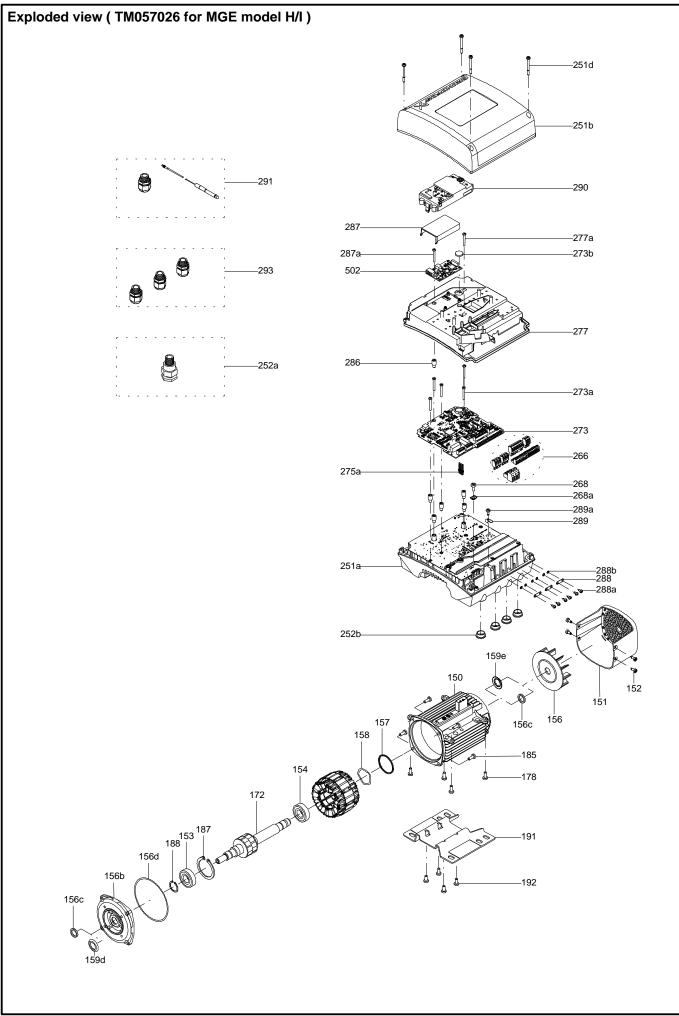
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TM058200



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

Pos	Description Motor	Annotation	Données de classification	Reference	1	antité	
	Base cpl.				1		pcs
<u>^</u>	Base				I	4	pcs
6 25	Plug					1 2	
	•					2	
56	Base plate				4		
05	Sealing parts				1		pcs
25	Drain plug w/bypass valve					1	
38	O-ring		Diameter: 16,3			1	
			Material type: EPDM				
			Thickness: 2,4			_	
37	O-ring					2	
100	O-ring		Diameter: 16,3			2	
			Material type: EPDM				
			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	
			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	
-			Length (mm): 20				
			Thread: M6				
10	Shaft pin		Diameter: 5			1	
10	Chartpin		Length (mm): 26				
10a	Coupling half		Longin (min). 20			2	
26	Staybolt		Length (mm): 292		4	2	ncc
20	Staybolt		Thread: M12		4		pcs
260	Washer		Designation: DIN 125 A		4		
36a	washei		-		4		pcs
			Internal diameter: 13				
			Outer diameter: 24				
	Outer als and		Thickness: 2,5				
55	Outer sleeve		TI 1440		1		pcs
66a	Nut		Thread: M12		4		pcs
80	Chamber stack		Bearing type: HQQE		1	0	pcs
4	Chamber cpl.					8	
	Guide vane					6	
	Plate					1	
	Retainer					1	
	Intermediate chamber					1	
	Vane					1	
45	Neck ring					1	
65	Retainer					1	
4a	Chamber w. bearing cpl.					2	
	Guide vane					6	
	Retainer for bearing					1	
	Bearing bush					1	
	Retainer					1	
	Intermediate chamber					1	
						1	
45	Vane Neck ring					1	

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
5a	Chamber cpl.				1	
	Retainer				1	
	Intermediate chamber				1	
	Vane				1	
45	Neck ring				1	
65	Retainer				1	
36	Lock nut		Thread: M8		1	
47a	Bearing ring, rotating				2	
49	Impeller cpl.				11	
49	Impeller				1	
50a	Guide vane cpl.				1	
	Plate				1	
50a	Guide vane				6	
50b	Top plate				1	
51	Shaft, spline, cpl.				1	
64a	Spacing pipe				8	
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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