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Inventflow: Grundfos A-partner

Grundfos CRN 1S-30 A-P-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/crn/grundfos-crn-1s-30-a-p-a-e-hqqe>

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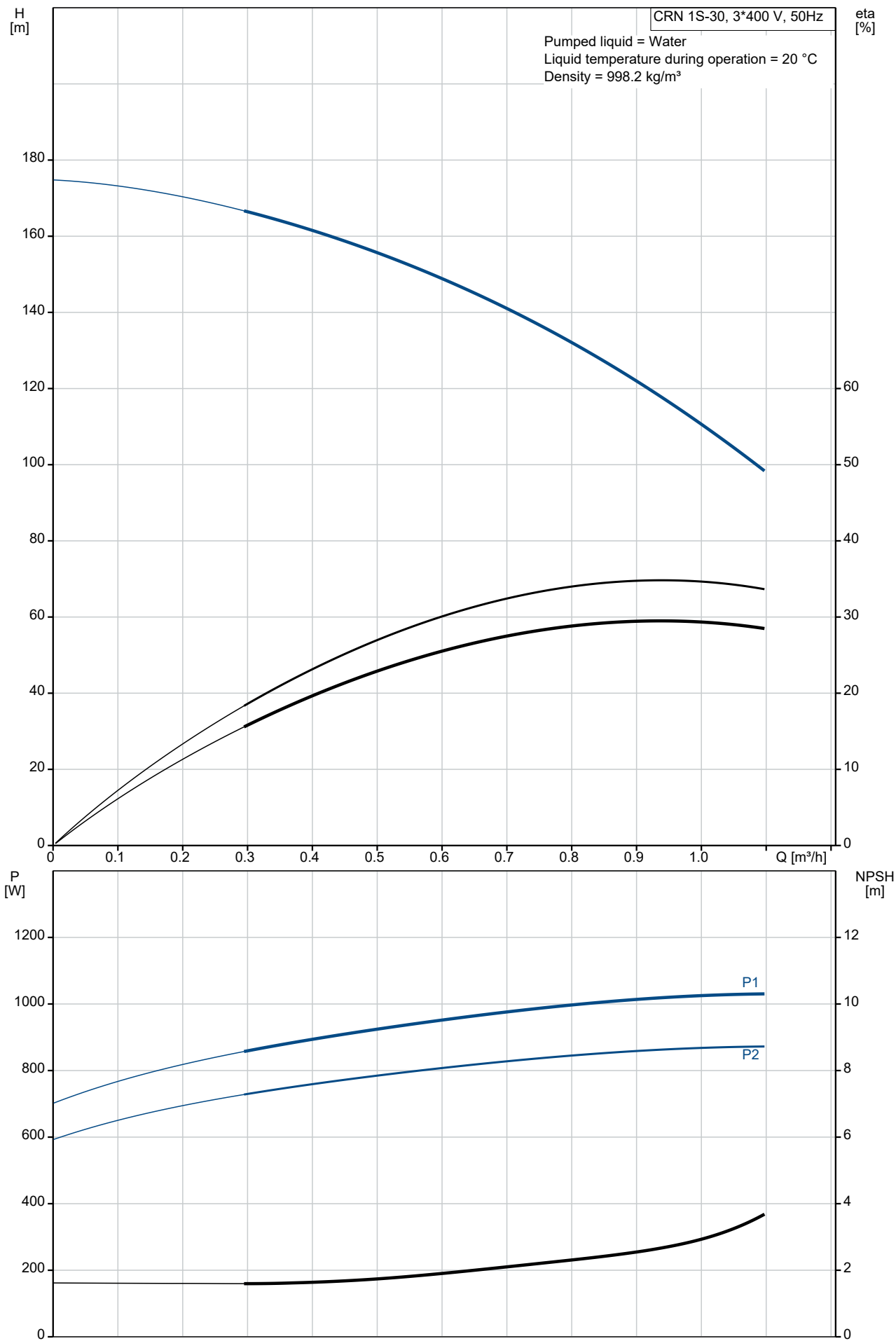
Datasheet



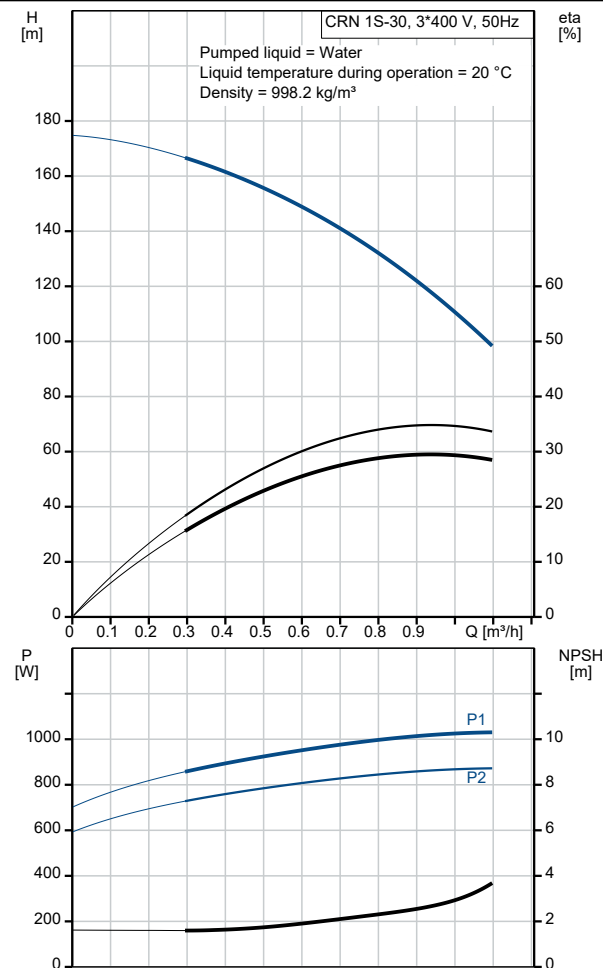
Qty.	Description
1	CRN 1S-30 A-P-A-E-HQQE  Product No.: 96516064 Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers, intermediate chambers and outer sleeve are made of Impeller: Stainless steel, EN 1.4401. - Pump head cover and base are made of Pump housing: Stainless steel, EN 1.4408. - The shaft seal has assembly length according to EN 12756. - Power transmission is via cast iron split coupling. Flange standard: - Pipework connection is via PJE flanges/couplings. Phase: The motor is a 3-phase AC motor. Controls: Frequency converter: NONE Liquid: Pumped liquid: Water Liquid temperature range: -20 .. 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Technical: Pump speed on which pump data are based: 2853 rpm Rated flow: 0.9 m³/h Rated head: 118.3 m Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals on nameplate: CE, EAC, ACS 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: 60 °C Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C Type of connection: PJE

Qty.	Description
	Size of inlet connection: DN 32 Size of outlet connection: DN 32 Pressure rating for connection: PN 50 Flange size for motor: FT100 Electrical data: Motor standard: IEC 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 Rated voltage: 3 x 220-240D/380-415Y V Rated current: 4.35/2.50 A Starting current: 450-500 % Cos phi - power factor: 0.83-0.76 Rated speed: 2840-2870 rpm Efficiency: IE3 82,7% Motor efficiency at full load: 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): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 85905176 Others: Minimum efficiency index, MEI ≥: 0.54 Net weight: 32.2 kg Gross weight: 35.1 kg Shipping volume: 0.13 m ³ Danish VVS No.: 385910530 Country of origin: HU Custom tariff no.: 84137075

96516064 CRN 1S-30 A-P-A-E-HQQE 50 Hz

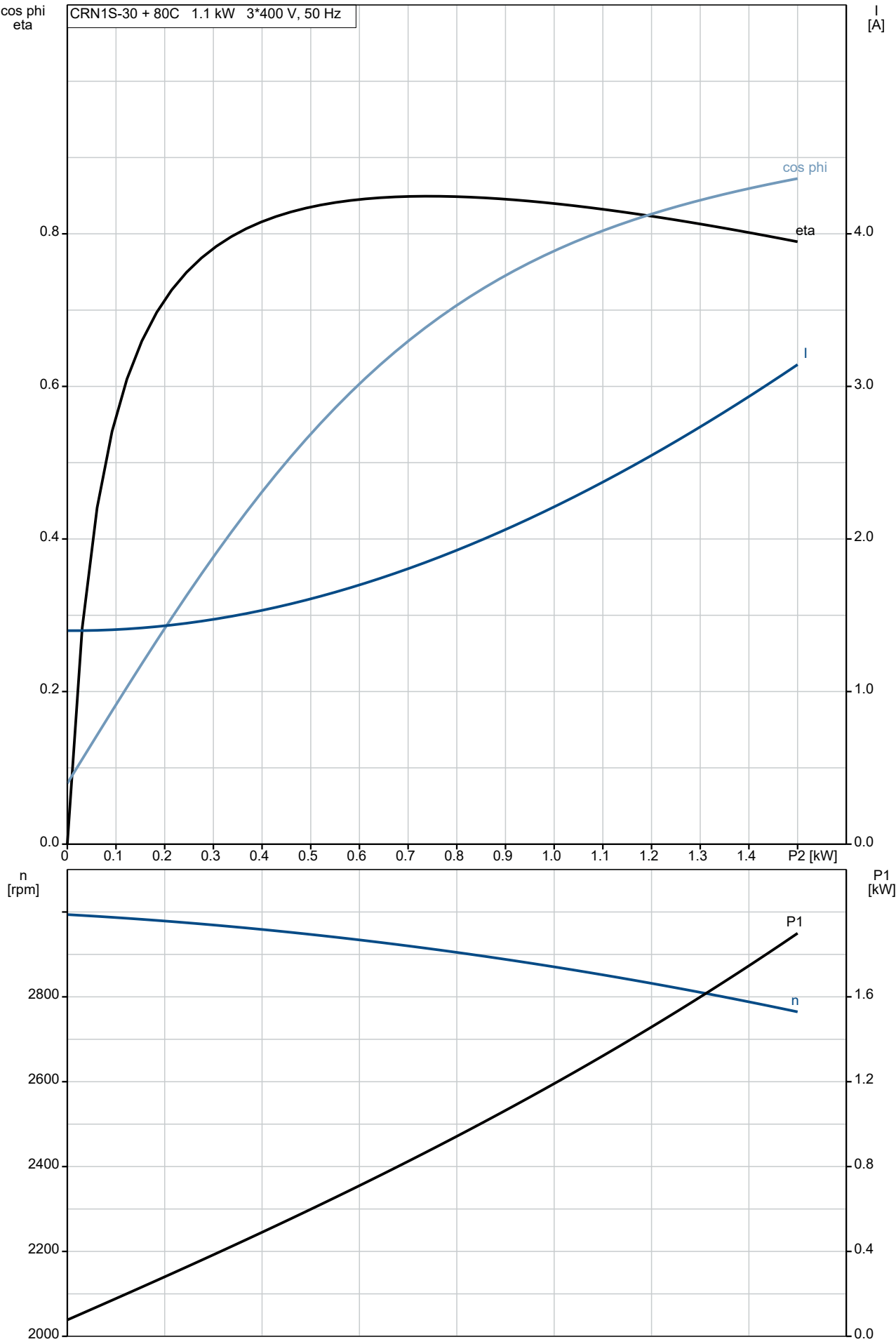


Description	Value
General information:	
Product name:	CRN 1S-30 A-P-A-E-HQQE
Product No:	96516064
EAN number:	5700396736167
Technical:	
Pump speed on which pump data are based:	2853 rpm
Rated flow:	0.9 m³/h
Rated head:	118.3 m
Maximum head:	175.6 m
Stages:	30
Impellers:	30
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CE, EAC, ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Base:	Stainless steel
Base:	EN 1.4408
Base:	AISI 316
Impeller:	Stainless steel
Impeller:	EN 1.4401
Impeller:	AISI 316
Material code:	A
Code for rubber:	E
Bearing:	SIC
Installation:	
Maximum ambient temperature:	60 °C
Maximum operating pressure:	25 bar
Max pressure at stated temp:	25 bar / 120 °C
Max pressure at stated temp:	25 bar / -20 °C
Type of connection:	PJE
Size of inlet connection:	DN 32
Size of outlet connection:	DN 32
Pressure rating for connection:	PN 50
Flange size for motor:	FT100
Connect code:	P
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor standard:	IEC
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
Rated voltage:	3 x 220-240D/380-415V V
Rated current:	4.35/2.50 A
Starting current:	450-500 %
Cos phi - power factor:	0.83-0.76
Rated speed:	2840-2870 rpm
Efficiency:	IE3 82,7%
Motor efficiency at full load:	82.7 %
Motor efficiency at 3/4 load:	84.6 %
Motor efficiency at 1/2 load:	85.4 %

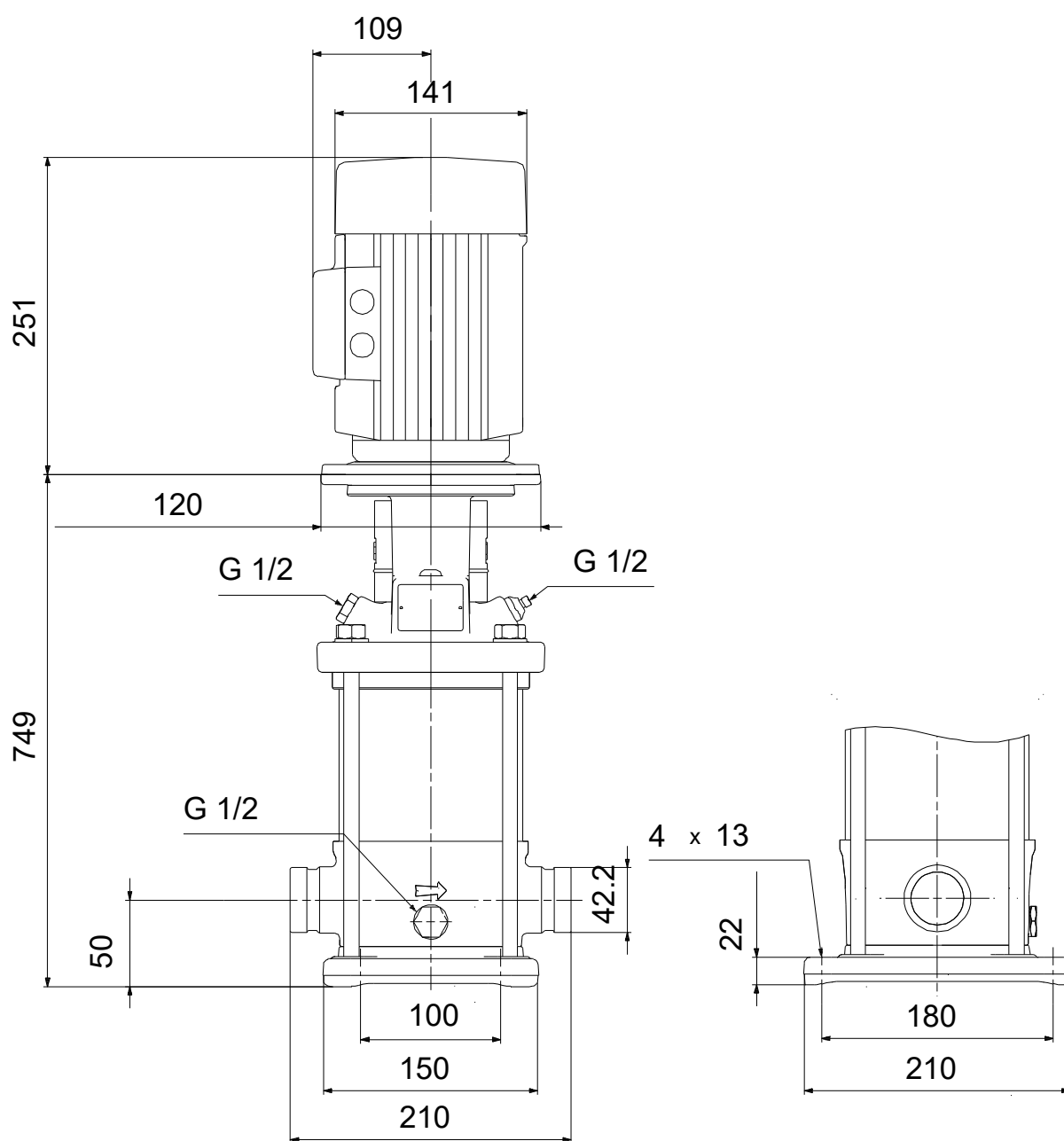


Description	Value
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85905176
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.54
Net weight:	32.2 kg
Gross weight:	35.1 kg
Shipping volume:	0.13 m³
Danish VVS No.:	385910530
Country of origin:	HU
Custom tariff no.:	84137075

96516064 CRN 1S-30 A-P-A-E-HQQE 50 Hz



96516064 CRN 1S-30 A-P-A-E-HQQE 50 Hz



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

Spare parts CRN 1S-30, Product No. 96516064
Produced After 1101 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenheid
- 80	Kit, chamber stack		Bearing type: SILICON CARBIDE	96479097	1	pcs
- 4a	Chamber w. bearing cpl.				4	
	Vane				1	
	Retainer				1	
	Guide vane				6	
4a	Intermediate chamber				1	
45	Neck ring				1	
47	Bearing bush				1	
65	Retainer for seal ring				1	
65	Neck ring retainer				1	
- 4	Chamber cpl.				25	
4a	Intermediate chamber				1	
45	Neck ring				1	
65	Neck ring retainer				1	
- 5a	Chamber cpl.				1	
	Vane				1	
4a	Intermediate chamber				1	
45	Neck ring				1	
65	Retainer for seal ring				1	
65	Neck ring retainer				1	
- 44a	Guide vane				1	
	Plate				1	
50	Top plate				1	
47a	Bearing ring				4	
- 49	Impeller cpl.				30	
49	Impeller				1	
51	Shaft, spline, cpl.				1	
64d	Spacing pipe		Internal diameter: 12,85		4	
			Outer diameter: 15,85			
			Length (mm): 4,50			
64c	Clamp, splined		Internal diameter: 8,5		1	
			Outer diameter: 15			
64a	Spacing pipe				25	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
-	Kit, coupling			00415061	1	pcs
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 20			
			Thread: M6			
10a	Coupling half				2	
10	Shaft pin		Diameter: 5		1	
			Length (mm): 26			
-	Kit, coupling guard			96505130	1	pcs
7.a	Combi Slot Torx screw				4	
7	Coupling guard				2	
-	Kit, gaskets			96455090	1	pcs
37	O-ring				2	
38	O-ring				1	
38	O-ring				2	
109	O-ring		Diameter: 22,00		1	
			Material type: EPDM			
			Thickness: 2,75			
-	Kit, plug			96505133	1	pcs
- 18	Air vent screw				1	
	Spindle				1	
	Plug				1	
23b	Spindle				1	
25	Plug				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenheid
25	Plug				1	
38	O-ring				1	
38	O-ring				2	
38	O-ring		Diameter: 16,3		1	
			Material type: FKM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3		2	
			Material type: FKM			
			Thickness: 2,4			
-	Kit, shaft seal HQQE			96455086	1	pcs
105	Shaft seal		Material type: HQQE		1	
-	Kit, wear parts		Material type: SILICON CARBIDE	96455094	1	pcs
-	4a Chamber w. bearing cpl.				4	
	Vane				1	
	Retainer				1	
	Guide vane				6	
4a	Intermediate chamber				1	
45	Neck ring				1	
47	Bearing bush				1	
65	Retainer for seal ring				1	
65	Neck ring retainer				1	
45	Neck ring				32	
47a	Bearing ring				4	
64d	Spacing pipe		Internal diameter: 12,85		4	
			Outer diameter: 15,85			
			Length (mm): 4,50			
64c	Clamp, splined		Internal diameter: 8,5		1	
			Outer diameter: 15			
65	Neck ring retainer				32	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
441 b	Gasket				2	
-	Motor			85904365	1	pcs
-	Kit, Ball bearing			96279741	1	
111	Ball bearing		Designation: 6304.2Z.C3.SYN		1	
111	Ball bearing				1	
157	O-ring		Diameter: 32		1	
			Material type: NBR			
			Thickness: 2			
158	Waved washer				1	
-	Kit, fan			96279721	1	
156	Fan				1	
159 a	Seal ring				1	
-	Kit, fan cover			96279720	1	
151	Fan cover				1	
152	Pan head thread forming screw				2	
-	Kit, flange			96279854	1	
156 b	Flange				1	
159c	Seal ring				1	
184	Gasket		Internal diameter: 114,80		1	
			Outer diameter: 121,20			
			Thickness: 0,25			
185	Pan head screw				4	
186	Drain plug				1	
-	Kit, shaft seal			96279722	1	
159c	Seal ring				1	
159 a	Seal ring				1	
-	Kit, terminal box			96279724	1	

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr.	Aanta	Eenheid
152	Pan head thread forming screw						4
164 a	Terminal box w/gasket						1
164	Terminal box cover w/gasket						1
173 a	Washer	Designation: SQUARE					1
		Internal diameter: 5,5					
		Outer diameter: 10X10					
		Thickness: 1,5					
173 a	Base						1
173	Pan head thread forming screw	Designation: COMBI TORX T25					1
173	Pan head screw	Designation: DIN 7985					1
175	Pan head screw	Designation: DIN 7985					2
176	Terminal cpl.						1
-	Motor				85900456	1	pcs
-	Kit, Ball bearing				96279741	1	
111	Ball bearing	Designation: 6304.2Z.C3.SYN					1
111	Ball bearing						1
157	O-ring	Diameter: 32					1
		Material type: NBR					
		Thickness: 2					
158	Waved washer						1
-	Kit, Ball bearing				96279741	1	
111	Ball bearing	Designation: 6304.2Z.C3.SYN					1
111	Ball bearing						1
157	O-ring	Diameter: 32					1
		Material type: NBR					
		Thickness: 2					
158	Waved washer						1
-	Kit, capacitor				96279731	1	
161	Capacitor						1
164 a	Terminal box w/gasket						1
164	Terminal box cover w/gasket						1
-	Kit, fan				96279740	1	
156	Fan						1
159 a	Seal ring						1
-	Kit, fan cover				96279720	1	
151	Fan cover						1
152	Pan head thread forming screw						2
-	Kit, flange				96279854	1	
156 b	Flange						1
159c	Seal ring						1
184	Gasket	Internal diameter: 114,80					1
		Outer diameter: 121,20					
		Thickness: 0,25					
185	Pan head screw						4
186	Drain plug						1
-	Kit, shaft seal				96279722	1	
159c	Seal ring						1
159 a	Seal ring						1
-	Kit, terminal box				96279725	1	
152	Pan head thread forming screw						4
164 a	Terminal box w/gasket						1
164	Terminal box cover w/gasket						1
166	Pan head screw						4
173 a	Washer	Designation: SQUARE					1
		Internal diameter: 5,5					

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenheid
			Outer diameter: 10X10			
			Thickness: 1,5			
173 a	Base				1	
173	Pan head thread forming screw		Designation: COMBI TORX T25		1	
173	Pan head screw		Designation: DIN 7985		1	
175	Pan head screw		Designation: DIN 7985		4	
176	Terminal cpl.				1	
2	Pump cover			96588244	1	pcs
- 4a	Chamber w. bearing cpl.			97690603	4	pcs
65	Retainer for seal ring			99812852	1	
4a	Chamber w. bearing cpl.			98371226	4	pcs
- 4	Chamber cpl.			97690021	25	pcs
45	Neck ring			96536194	1	
65	Neck ring retainer			99490745	1	
65	Neck ring retainer			99490747	1	
4	Chamber cpl.			96547663	25	pcs
4	Chamber cpl.			98371223	25	pcs
5a	Chamber cpl.			98371222	1	pcs
5a	Chamber cpl.			97564654	1	pcs
6	Base			96588139	1	pcs
7.a	Combi Slot Torx screw			96886324	4	pcs
10	Shaft pin		Diameter: 5	96536473	1	pcs
			Length (mm): 26			
10	Shaft pin		Diameter: 5	96587588	1	pcs
			Length (mm): 26			
18	Air vent screw			96547461	1	pcs
18	Air vent screw			95061351	1	pcs
- 25a	Drain plug w/bypass valve			96588243	1	pcs
38	O-ring			99198815	1	
38	O-ring			99412727	1	
25	Plug			96536013	1	pcs
26	Staybolt		Length (mm): 637	98985635	4	pcs
			Thread: M12			
28	Hex head screw		Length (mm): 25 MM	92529866	4	pcs
			Thread: M6			
32	Washer		Designation: DIN 125 A2	99944263	4	pcs
			Internal diameter: 13			
			Outer diameter: 24			
			Thickness: 2,5			
37	O-ring			96547656	2	pcs
38	O-ring			99198815	2	pcs
38	O-ring			99412727	2	pcs
44a	Guide vane			98488445	1	pcs
47a	Bearing ring			97905743	4	pcs
47a	Bearing ring			96547649	4	pcs
49	Impeller cpl.			98394411	30	pcs
51	Shaft, spline, cpl.			98368526	1	pcs
55	Outer sleeve			98811277	1	pcs
56	Base plate			96588142	1	pcs
60	Formed wire spring			99935918	1	pcs
64c	Clamp, splined		Internal diameter: 8,5	98496968	1	pcs
			Outer diameter: 15			
64a	Spacing pipe			96536198	25	pcs
66	Wedge lock washer			96536157	1	pcs
66	Wedge lock washer			92575609	1	pcs
67	Lock nut		Thread: M8	98277008	1	pcs
105	Shaft seal		Material type: HQQE	96983415	1	pcs