

Inventflow: Grundfos A-partner

Grundfos CRN 1S-19 A-P-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/crn/grundfos-crn-1s-19-a-p-a-e-hqqe>

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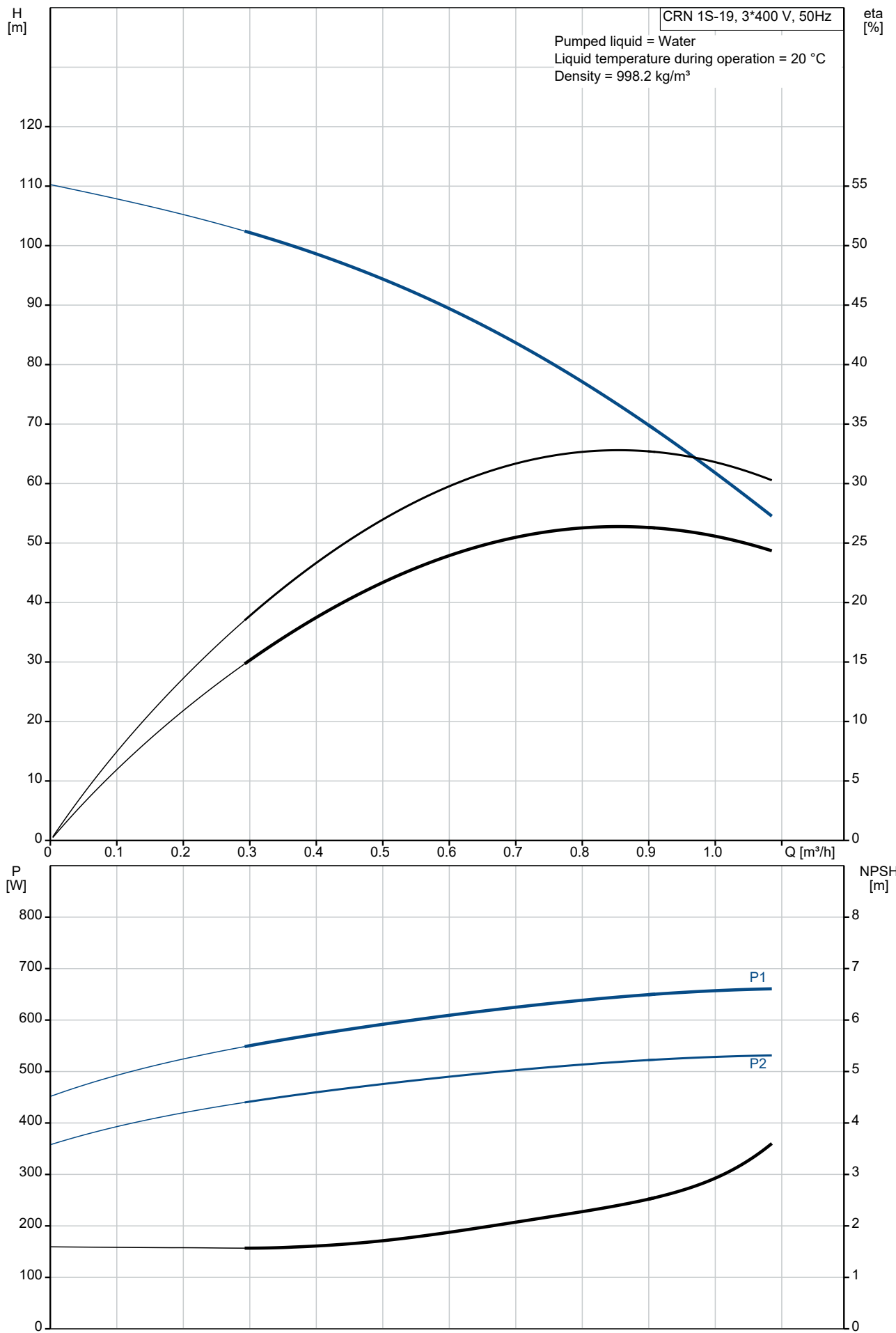
Datasheet



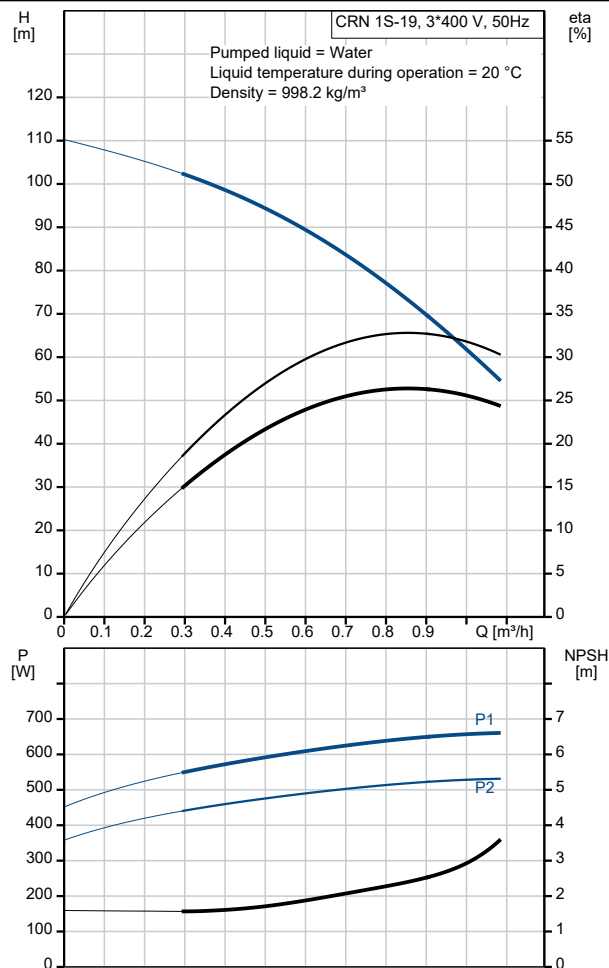
Qty.	Description
1	CRN 1S-19 A-P-A-E-HQQE  Product No.: 96516056 Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers, intermediate chambers and outer sleeve are made of 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: 2856 rpm Rated flow: 0.9 m³/h Rated head: 73.4 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: 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 Mains frequency: 50 Hz 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 Motor No: 85805103 Others: Minimum efficiency index, MEI ≥: 0.54 Net weight: 22.4 kg Gross weight: 26.4 kg Shipping volume: 0.092 m ³ Danish VVS No.: 385910519 Country of origin: HU Custom tariff no.: 84137075

96516056 CRN 1S-19 A-P-A-E-HQQE 50 Hz

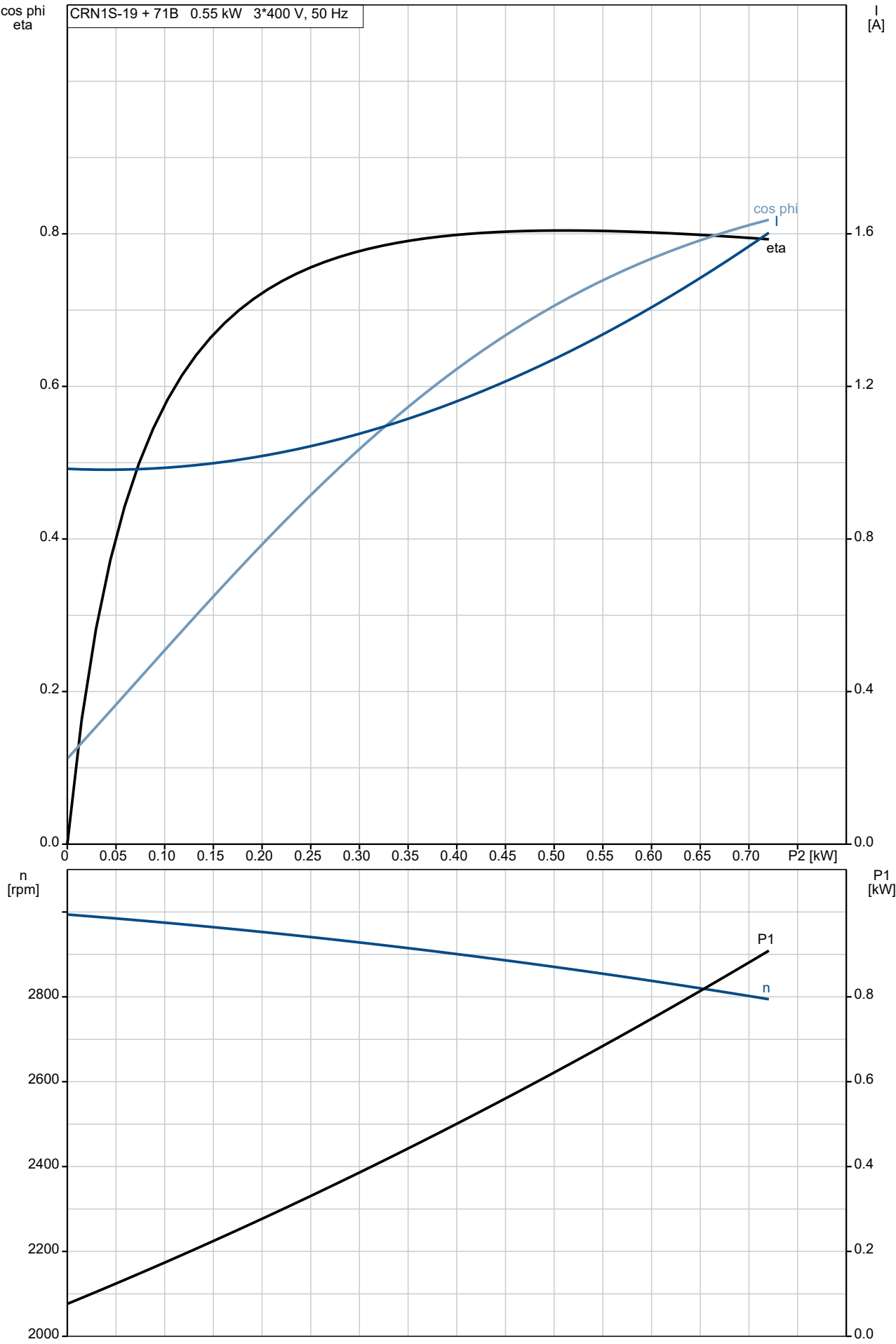


Description	Value
General information:	
Product name:	CRN 1S-19 A-P-A-E-HQQE
Product No:	96516056
EAN number:	5700396736037
Technical:	
Pump speed on which pump data are based:	2856 rpm
Rated flow:	0.9 m³/h
Rated head:	73.4 m
Maximum head:	110.1 m
Stages:	19
Impellers:	19
Number of reduced-diameter impellers:	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:	FT85
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:	71B
IE Efficiency class:	IE3
Rated power - P2:	0.55 kW
Power (P2) required by pump:	0.55 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415V 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 %

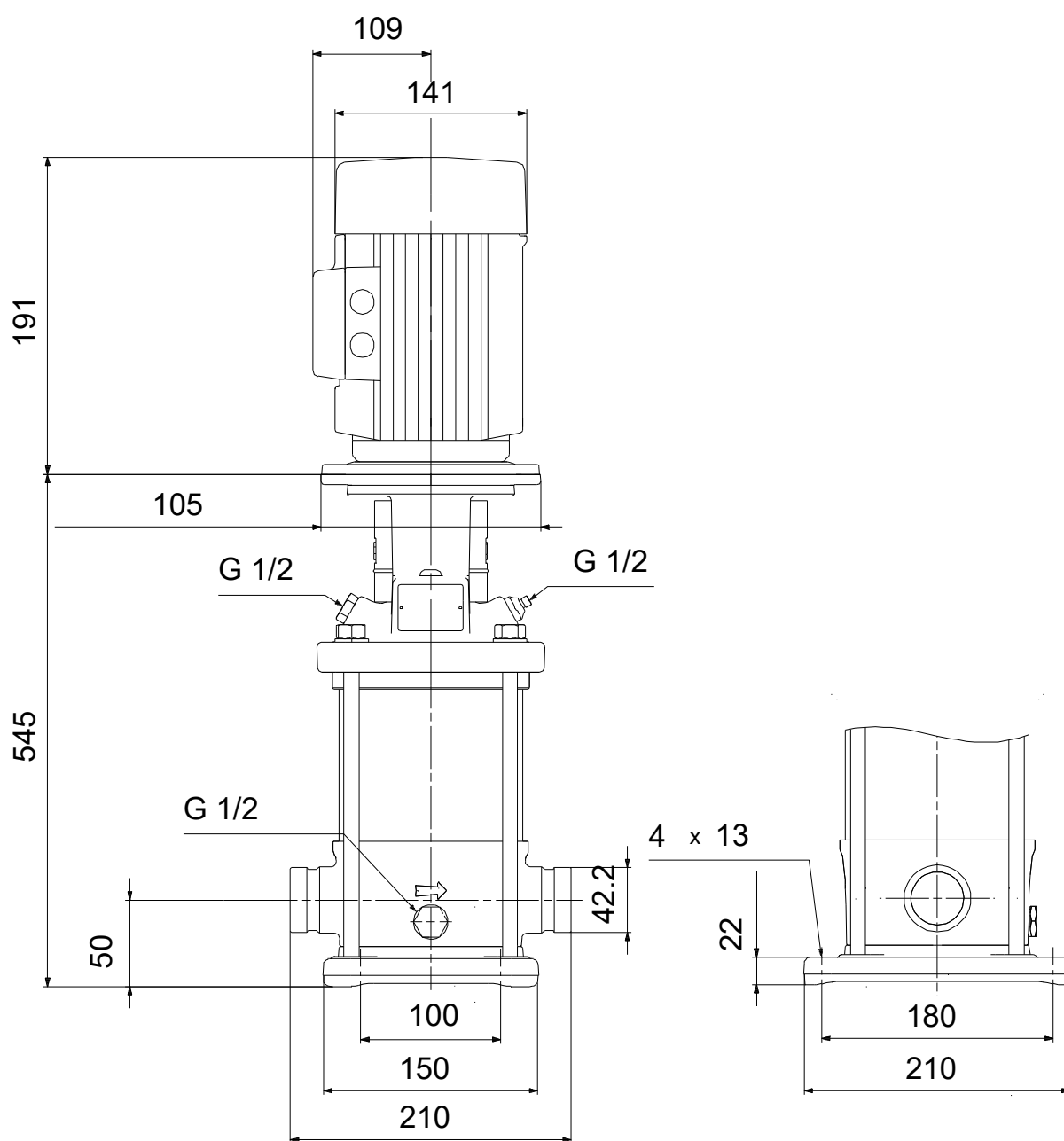


Description	Value
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85805103
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.54
Net weight:	22.4 kg
Gross weight:	26.4 kg
Shipping volume:	0.092 m³
Danish VVS No.:	385910519
Country of origin:	HU
Custom tariff no.:	84137075

96516056 CRN 1S-19 A-P-A-E-HQQE 50 Hz



96516056 CRN 1S-19 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-19, Product No. 96516056
Produced After 0401 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenheid
- 80	Kit, chamber stack		Bearing type: SILICON CARBIDE	96479092	1	pcs
- 4a	Chamber w. bearing cpl.				2	
	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.				16	
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				2	
- 49	Impeller cpl.				19	
49	Impeller				1	
51	Shaft, spline, cpl.				1	
64d	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			
64a	Spacing pipe				16	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
-	Kit, coupling			00415060	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	96455092	1	pcs
-	4a	Chamber w. bearing cpl.				2	
		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				17	
47a		Bearing ring				2	
64d		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			
65		Neck ring retainer				17	
66		Wedge lock washer				1	
67		Lock nut		Thread: M8		1	
441		Gasket				2	
b							
-	Motor				85900328	1	pcs
-	Kit, Ball bearing				96279730	1	
111		Ball bearing		Designation: 6204.2Z.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	
		Kit, fan cover			96279720	1	
-		Kit, flange			96279727	1	
156		Flange				1	
b							
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	
-		Kit, terminal box			96279724	1	
152		Pan head thread forming screw				4	
164		Terminal box w/gasket				1	
a							
164		Terminal box cover w/gasket				1	
173		Washer		Designation: SQUARE		1	
a							
				Internal diameter: 5,5			
				Outer diameter: 10X10			
				Thickness: 1,5			

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr.	Aanta	Eenheid
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
1a	Pump head				96588196	1	pcs
2	Pump cover				96588244	1	pcs
- 4a	Chamber w. bearing cpl.				97690603	2	pcs
65	Retainer for seal ring				99812852	1	
4a	Chamber w. bearing cpl.				98371226	2	pcs
- 4	Chamber cpl.				97690021	16	pcs
45	Neck ring				96536194	1	
65	Neck ring retainer				99490745	1	
65	Neck ring retainer				99490747	1	
4	Chamber cpl.				96547663	16	pcs
4	Chamber cpl.				98371223	16	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): 439	98985619	4	pcs
				Thread: M12			
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	2	pcs
47a	Bearing ring				96547649	2	pcs
49	Impeller cpl.				98394411	19	pcs
51	Shaft, spline, cpl.				98368520	1	pcs
55	Outer sleeve				98811311	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	16	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