

Inventflow: Grundfos A-partner

Grundfos CR 1S-13 A-A-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cr/grundfos-cr-1s-13-a-a-a-e-hqqe>

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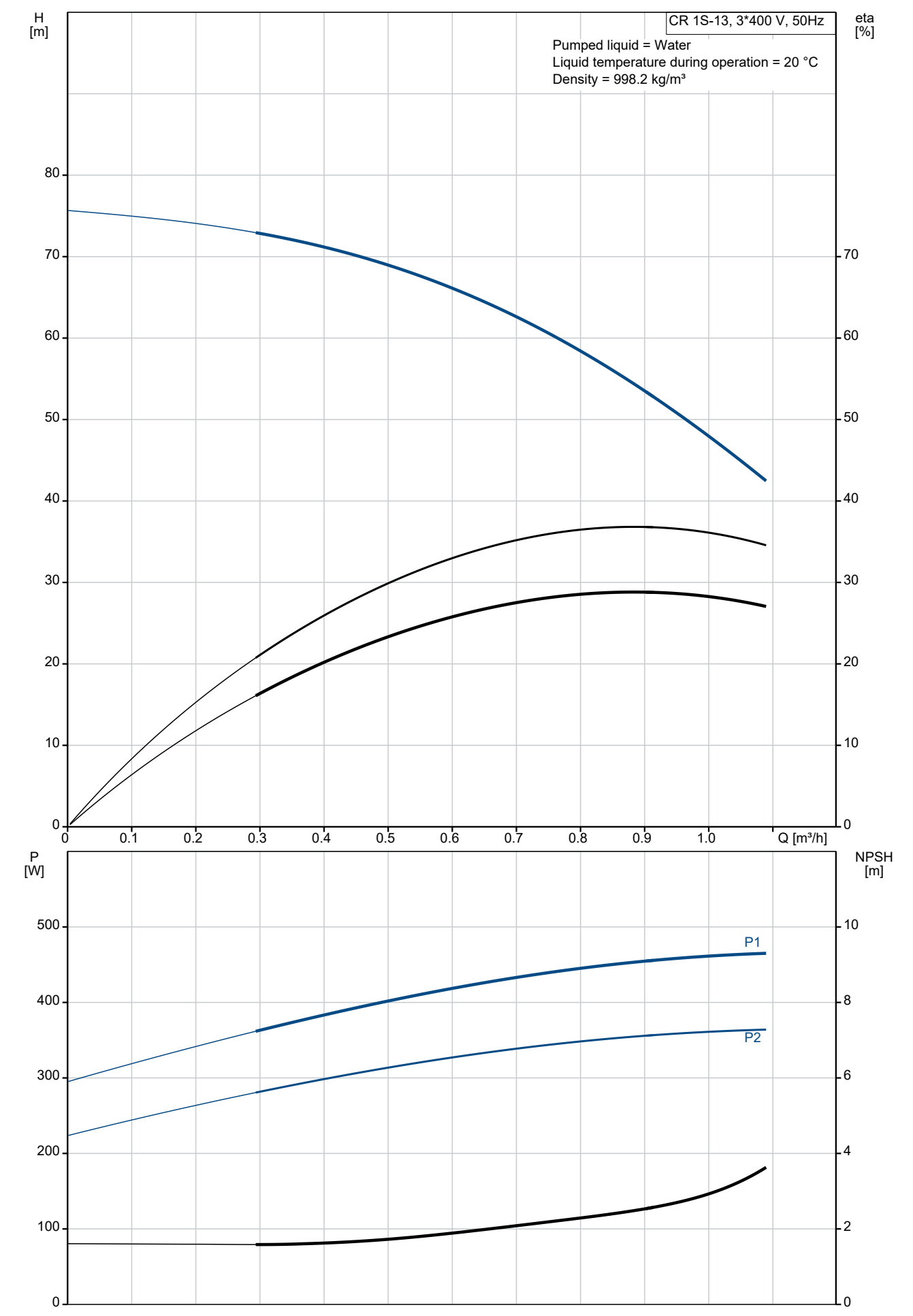
Datasheet



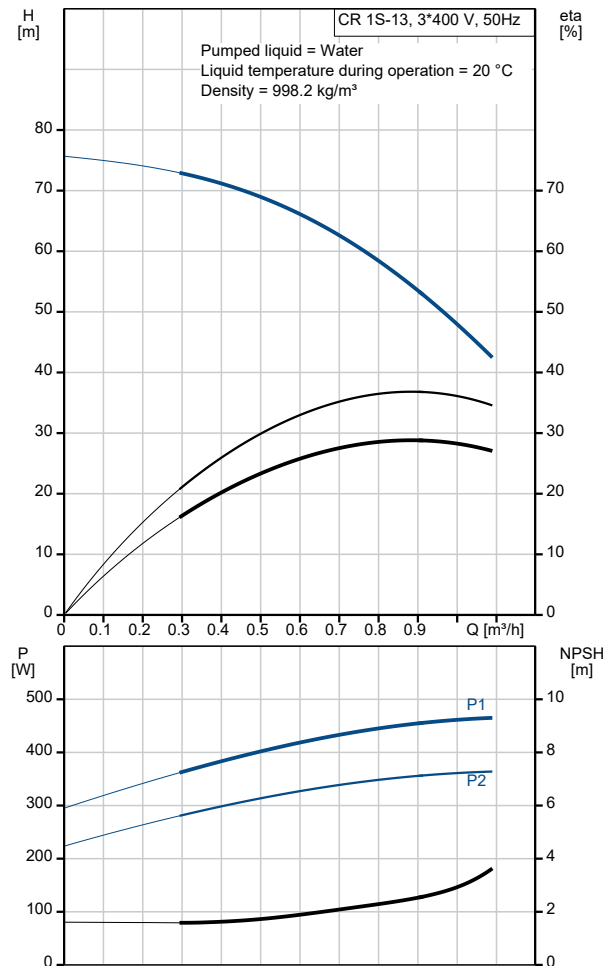
Qty.	Description
1	CR 1S-13 A-A-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 96515563 Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers and intermediate chambers are made of Impeller: Stainless steel, EN 1.4301. Pump housing: - Pump head and base are made of Cast iron. - The shaft seal has assembly length according to EN 12756. - Power transmission is via cast iron split coupling. Flange standard: - Pipework connection is via Oval / Rp flanges. 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: 2873 rpm Rated flow: 0.9 m³/h Rated head: 50.9 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: Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Impeller: Stainless steel EN 1.4301 AISI 304 Bearing: SIC Installation: Maximum ambient temperature: 60 °C Maximum operating pressure: 16 bar Max pressure at stated temp: 16 bar / 120 °C 16 bar / -20 °C Type of connection: Oval / Rp Size of inlet connection: 1 inch Size of outlet connection: 1 inch Pressure rating for connection: PN 16

Qty.	Description
	Flange size for motor: FT85 Electrical data: Motor standard: IEC Motor type: 71A IE Efficiency class: IE3 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 % Cos phi - power factor: 0.80-0.70 Rated speed: 2850-2880 rpm Efficiency: IE3 73,8% Motor efficiency at full load: 73.8 % Motor efficiency at 3/4 load: 79.0 % Motor efficiency at 1/2 load: 75.5 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 85805102 Others: Minimum efficiency index, MEI $\geq$: 0.54 Net weight: 22.4 kg Gross weight: 25.3 kg Shipping volume: 0.074 m³ Danish VVS No.: 385900513 Country of origin: HU Custom tariff no.: 84137075

96515563 CR 1S-13 A-A-A-E-HQQE 50 Hz

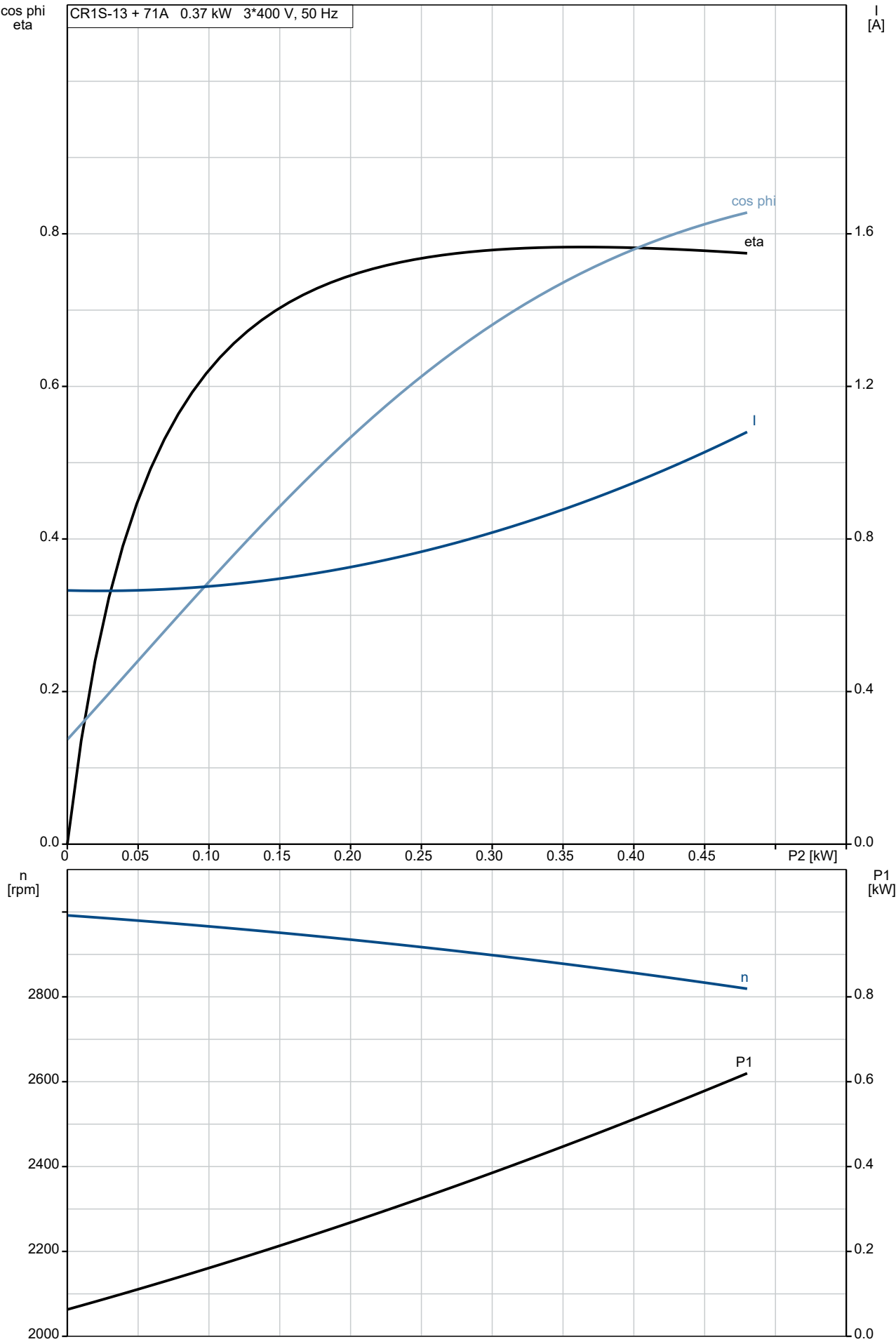


Description	Value
General information:	
Product name:	CR 1S-13 A-A-A-E-HQQE
Product No:	96515563
EAN number:	5700396727622
Technical:	
Pump speed on which pump data are based:	2873 rpm
Rated flow:	0.9 m³/h
Rated head:	50.9 m
Maximum head:	75.8 m
Stages:	13
Impellers:	13
Number of reduced-diameter impellers:	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:	Cast iron
Base:	EN 1561 EN-GJL-200
Base:	ASTM A48-25B
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI 304
Material code:	A
Code for rubber:	E
Bearing:	SIC
Installation:	
Maximum ambient temperature:	60 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 120 °C
Max pressure at stated temp:	16 bar / -20 °C
Type of connection:	Oval / Rp
Size of inlet connection:	1 inch
Size of outlet connection:	1 inch
Pressure rating for connection:	PN 16
Flange size for motor:	FT85
Connect code:	A
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:	71A
IE Efficiency class:	IE3
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 %
Cos phi - power factor:	0.80-0.70
Rated speed:	2850-2880 rpm
Efficiency:	IE3 73,8%
Motor efficiency at full load:	73.8 %
Motor efficiency at 3/4 load:	79.0 %
Motor efficiency at 1/2 load:	75.5 %

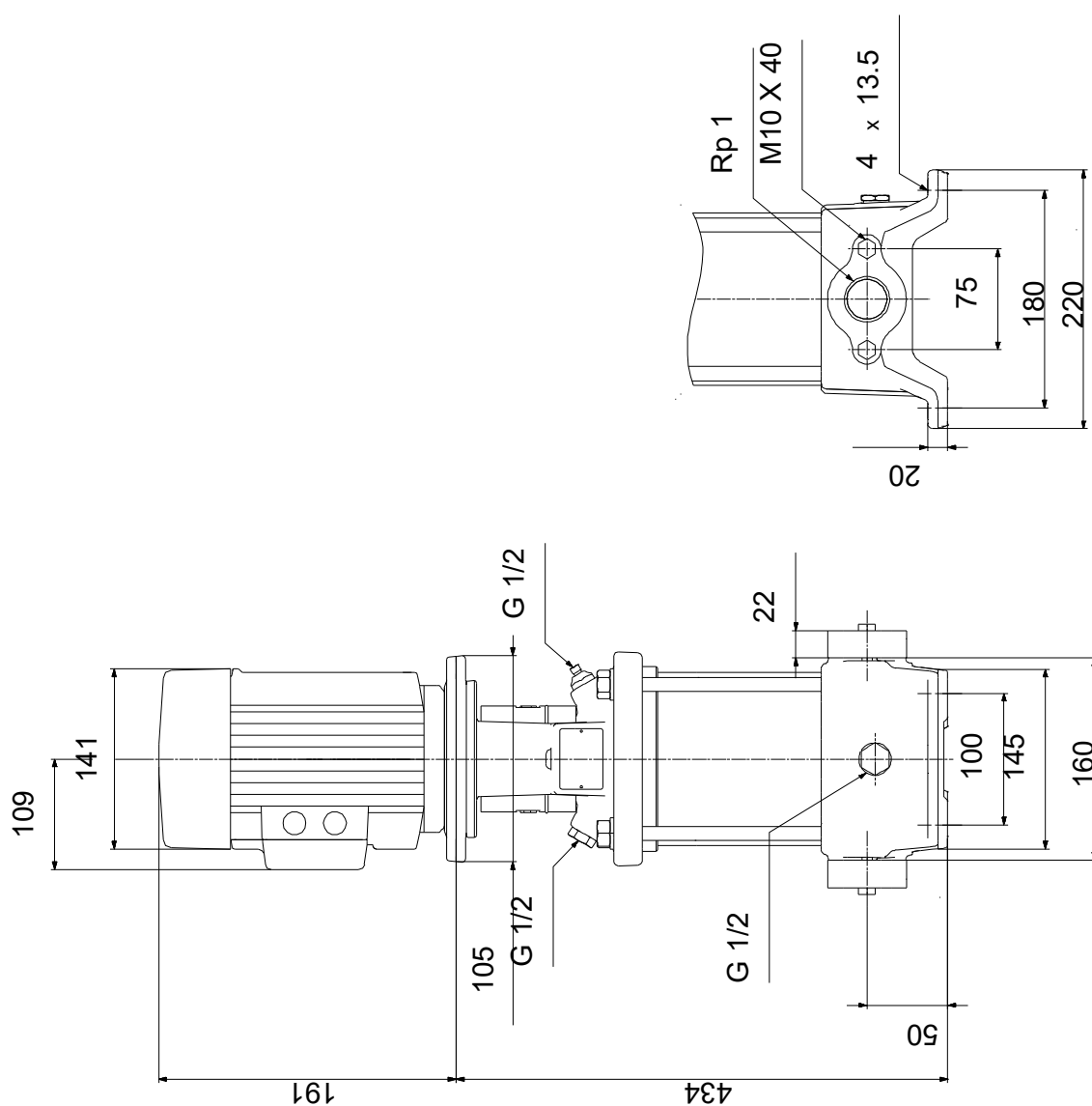


Description	Value
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85805102
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.54
Net weight:	22.4 kg
Gross weight:	25.3 kg
Shipping volume:	0.074 m³
Danish VVS No.:	385900513
Country of origin:	HU
Custom tariff no.:	84137075

96515563 CR 1S-13 A-A-A-E-HQQE 50 Hz



96515563 CR 1S-13 A-A-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 CR 1S-13, Product No. 96515563
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	96479067	1	pcs
- 4a	Chamber w. bearing cpl.				2	
	Vane				1	
	Intermediate chamber				1	
	Retainer for bearing				1	
	Guide vane				6	
45	Neck ring				1	
47	Bearing bush				1	
65	Retainer				1	
65	Retainer				1	
- 4	Chamber cpl.				10	
	Vane				1	
	Intermediate chamber				1	
	Plate				1	
	Guide vane				6	
45	Neck ring				1	
65	Retainer				1	
65	Retainer				1	
- 5a	Chamber cpl.				1	
	Vane				1	
	Intermediate chamber				1	
45	Neck ring				1	
65	Retainer				1	
65	Retainer				1	
- 44a	Guide vane cpl.				1	
	Plate				1	
	Guide vane				6	
50	Top plate				1	
47a	Bearing ring				2	
- 49	Impeller cpl.				13	
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				10	
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

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr.	Aanta	Eenheid
- 18	Air vent screw					1	
	Spindle					1	
	Plug					1	
23b	Spindle					1	
25	Plug					1	
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 b	Gasket					2	
-	Motor				85900331	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 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	
-	Kit, terminal box				96279724	1	
152	Pan head thread forming screw					4	
164 a	Terminal box w/gasket					1	
164	Terminal box cover w/gasket					1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenheid
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	
4a	Chamber w. bearing cpl.			98371208	2	pcs
4a	Chamber w. bearing cpl.			97690601	2	pcs
4a	Chamber w. bearing cpl.			97690590	2	pcs
4a	Chamber w. bearing cpl.			96547660	2	pcs
4a	Chamber w. bearing cpl.			98371207	2	pcs
- 4	Chamber cpl.			97690020	10	pcs
45	Neck ring			96536194	1	
65	Retainer			92501765	1	
65	Retainer			98270018	1	
65	Retainer			92501764	1	
4	Chamber cpl.			96547662	10	pcs
4	Chamber cpl.			98371206	10	pcs
5a	Chamber cpl.			98371205	1	pcs
5a	Chamber cpl.			96588148	1	pcs
6	Base			96588138	1	pcs
10	Shaft pin		Diameter: 5	96536473	1	pcs
			Length (mm): 26			
10	Shaft pin		Diameter: 5	96587588	1	pcs
			Length (mm): 26			
- 25a	Priming valve cpl.			96588242	1	pcs
38	O-ring			99198815	1	
38	O-ring			99412727	1	
26	Staybolt		Length (mm): 259	96536327	4	pcs
			Thread: M12			
26	Staybolt		Length (mm): 259	98986273	4	pcs
			Thread: M12			
32	Washer		Designation: DIN 125 A	99883474	4	pcs
			Internal diameter: 13			
			Outer diameter: 24			
			Thickness: 2,5			
36	Nut		Thread: M12	96620479	4	pcs
37	O-ring			96547656	2	pcs
38	O-ring			99198815	2	pcs
38	O-ring			99412727	2	pcs
44a	Guide vane cpl.			96547669	1	pcs
44a	Guide vane cpl.			98371221	1	pcs
47a	Bearing ring			97905743	2	pcs
47a	Bearing ring			96547649	2	pcs
49	Impeller cpl.			98394398	13	pcs
51	Shaft, spline, cpl.			96588234	1	pcs
55	Outer sleeve			98811289	1	pcs
64c	Clamp, splined		Internal diameter: 8,5	98496968	1	pcs
			Outer diameter: 15			
64a	Spacing pipe			96536198	10	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
441 b	Gasket			96536206	2	pcs
441 a	Flange		Thread: RP 1	96547453	2	pcs