

Inventflow: Grundfos A-partner

Grundfos CR 3-13 A-FGJ-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cr/grundfos-cr-3-13-a-fgj-a-e-hqqe>

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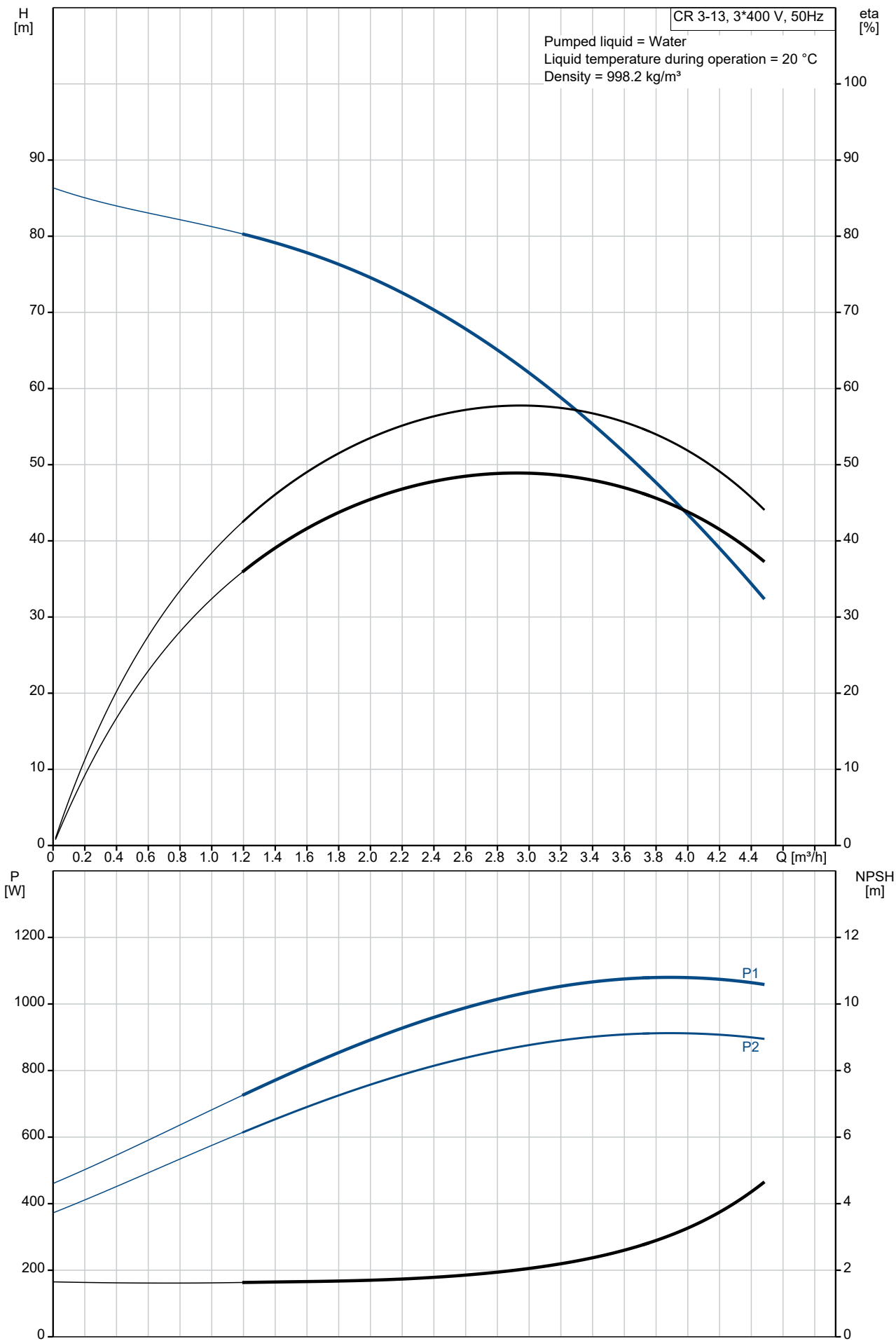
Datasheet



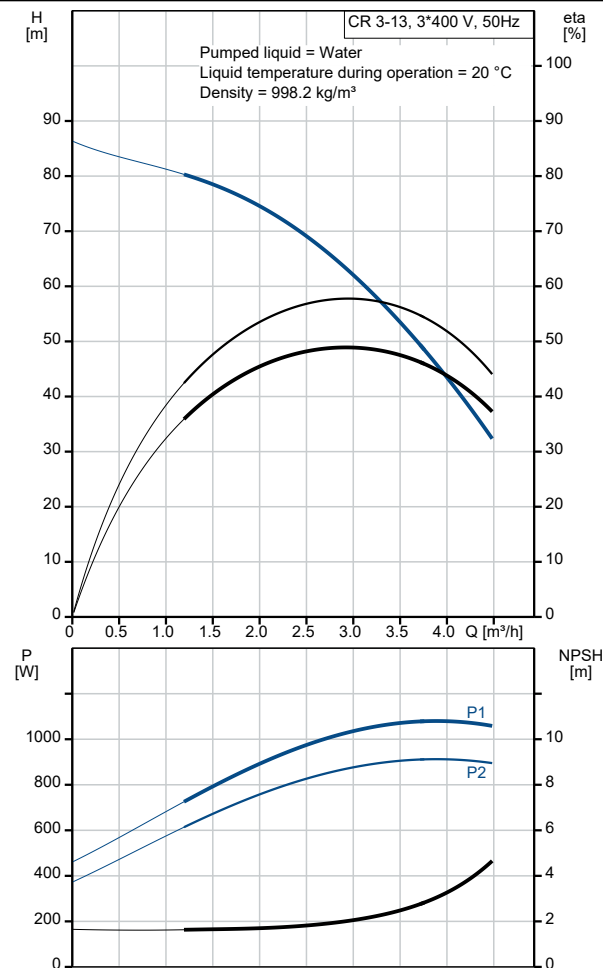
Qty.	Description
1	CR 3-13 A-FGJ-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 96516660 Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers 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 DIN / ANSI / JIS 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: 2853 rpm Rated flow: 3 m³/h Rated head: 61.3 m Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals on nameplate: CE,EAC,UKCA,WRAS,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: 25 bar Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32 Size of outlet connection: DN 25/32 Pressure rating for connection: PN 25

Qty.	Description
	Flange rating inlet: 250 lb 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: 85U05105 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 31.6 kg Gross weight: 34.4 kg Shipping volume: 0.074 m³ Country of origin: HU Custom tariff no.: 84137075

96516660 CR 3-13 A-FGJ-A-E-HQQE 50 Hz

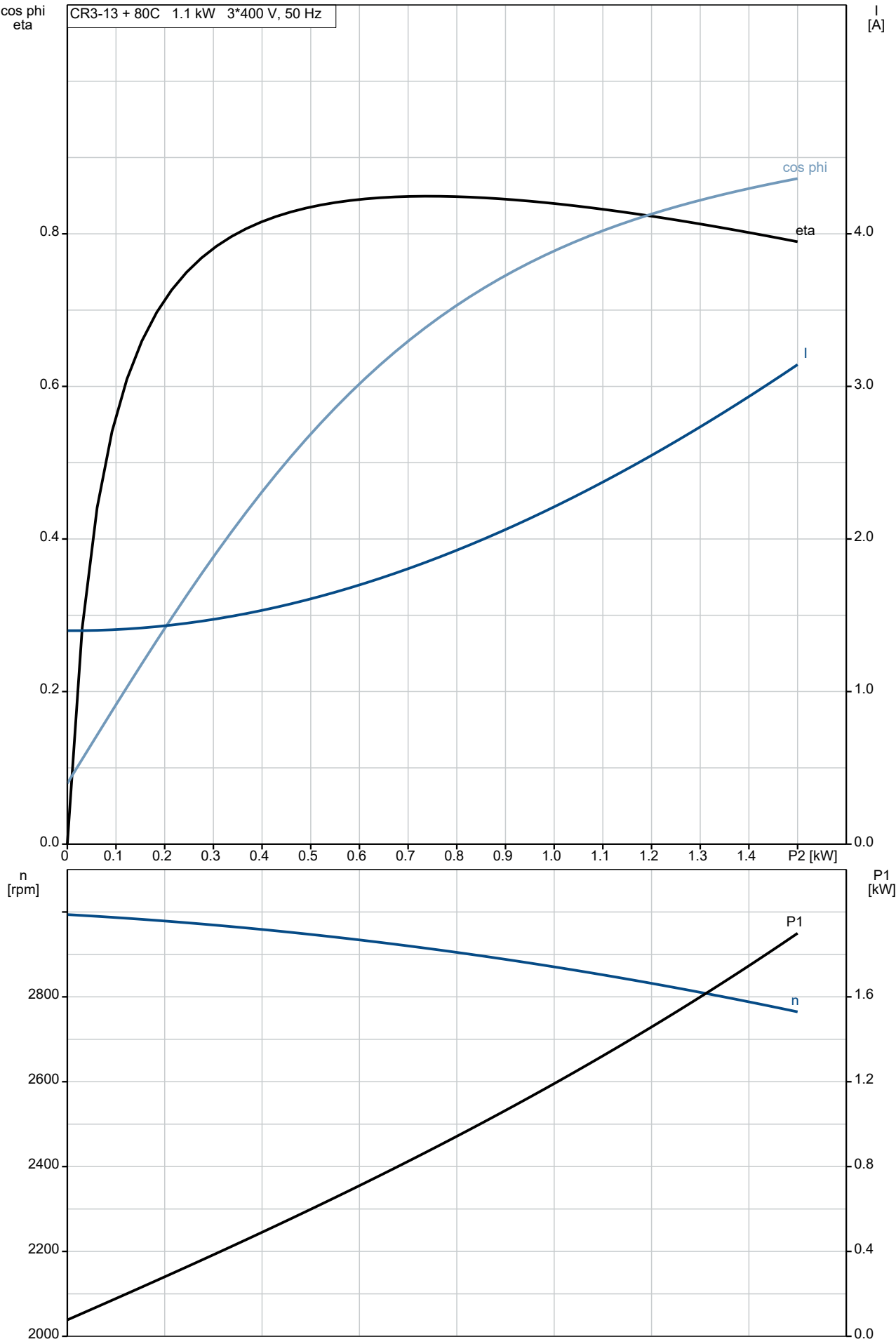


Description	Value
General information:	
Product name:	CR 3-13 A-FGJ-A-E-HQQE
Product No:	96516660
EAN number:	5700396747439
Technical:	
Pump speed on which pump data are based:	2853 rpm
Rated flow:	3 m³/h
Rated head:	61.3 m
Maximum head:	85.5 m
Stages:	13
Impellers:	13
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CE,EAC,UKCA,WRAS,A CS
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:	25 bar
Max pressure at stated temp:	25 bar / 120 °C
Max pressure at stated temp:	25 bar / -20 °C
Type of connection:	DIN / ANSI / JIS
Size of inlet connection:	DN 25/32
Size of outlet connection:	DN 25/32
Pressure rating for connection:	PN 25
Flange rating inlet:	250 lb
Flange size for motor:	FT100
Connect code:	FGJ
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/380-415Y 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 %

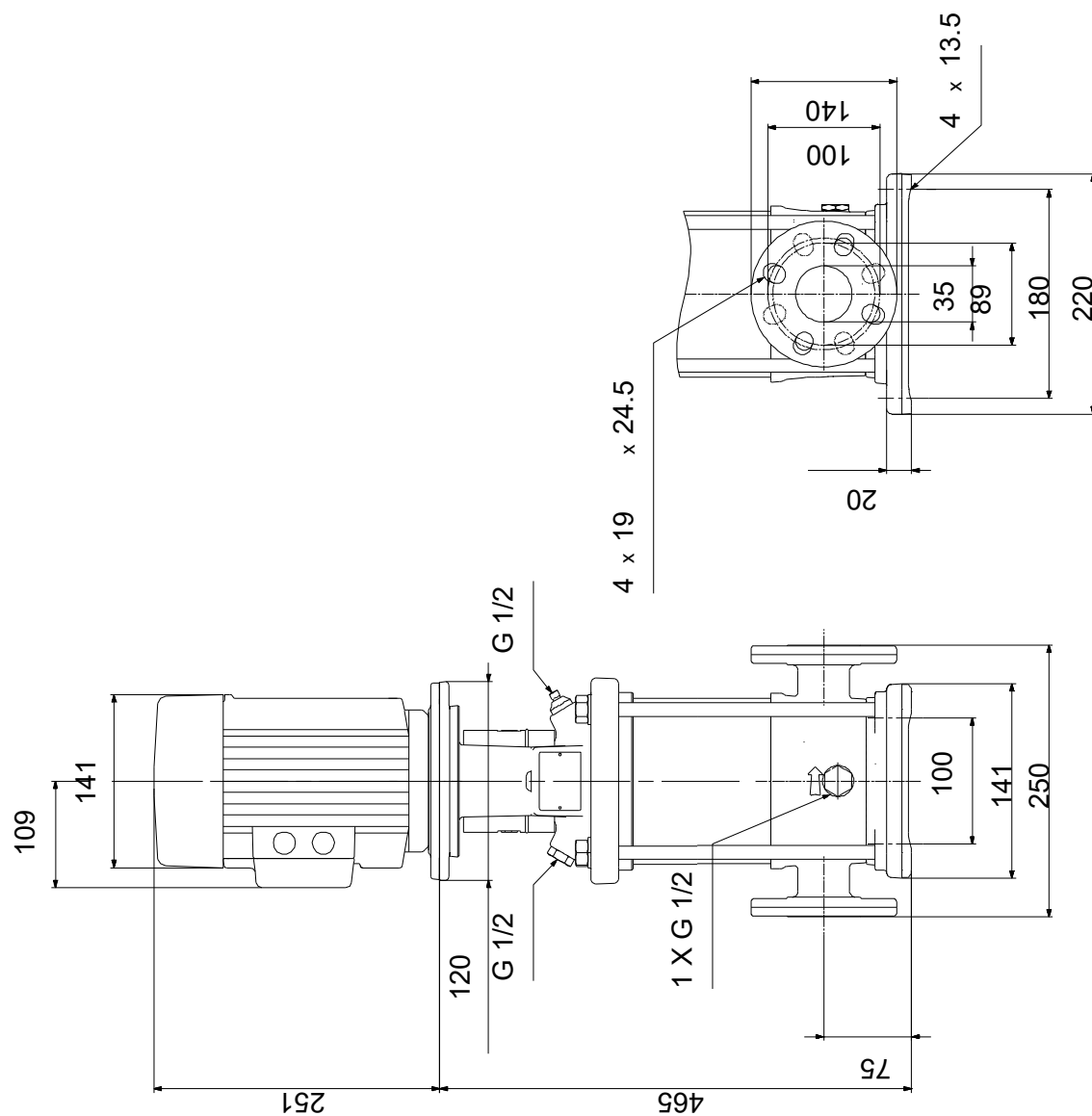


Description	Value
Motor efficiency at 3/4 load:	84.6 %
Motor efficiency at 1/2 load:	85.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85U05105
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	31.6 kg
Gross weight:	34.4 kg
Shipping volume:	0.074 m ³
Country of origin:	HU
Custom tariff no.:	84137075

96516660 CR 3-13 A-FGJ-A-E-HQQE 50 Hz



96516660 CR 3-13 A-FGJ-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 3-13, Product No. 96516660
Produced After 1119 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenheid
- 80	Kit, chamber stack		Bearing type: SILICON CARBIDE	96453540	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	
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			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	

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr.	Aanta	Eenheid
	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				91333027	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	
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	

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr.	Aanta	Eenheid
159c	Seal ring						1
159a	Seal ring						1
-	Kit, terminal box				96279724	1	
152	Pan head thread forming screw						4
164a	Terminal box w/gasket						1
164	Terminal box cover w/gasket						1
173a	Washer	Designation: SQUARE					1
		Internal diameter: 5,5					
		Outer diameter: 10X10					
		Thickness: 1,5					
173a	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			96588146	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.			96547659	1	pcs	
47a	Bearing ring			97905743	2	pcs	
47a	Bearing ring			96547649	2	pcs	
49	Impeller cpl.			98426771	13	pcs	
49	Impeller cpl.			96547599	13	pcs	
49	Impeller cpl.			98394415	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	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenheid
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