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Inventflow: Grundfos A-partner

Grundfos CRN 15-1 A-FGJ-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/crn/grundfos-crn-15-1-a-fgj-a-e-hqqe>

Contact

info@inventflow.nl

+31 (0) 546 45 80 72

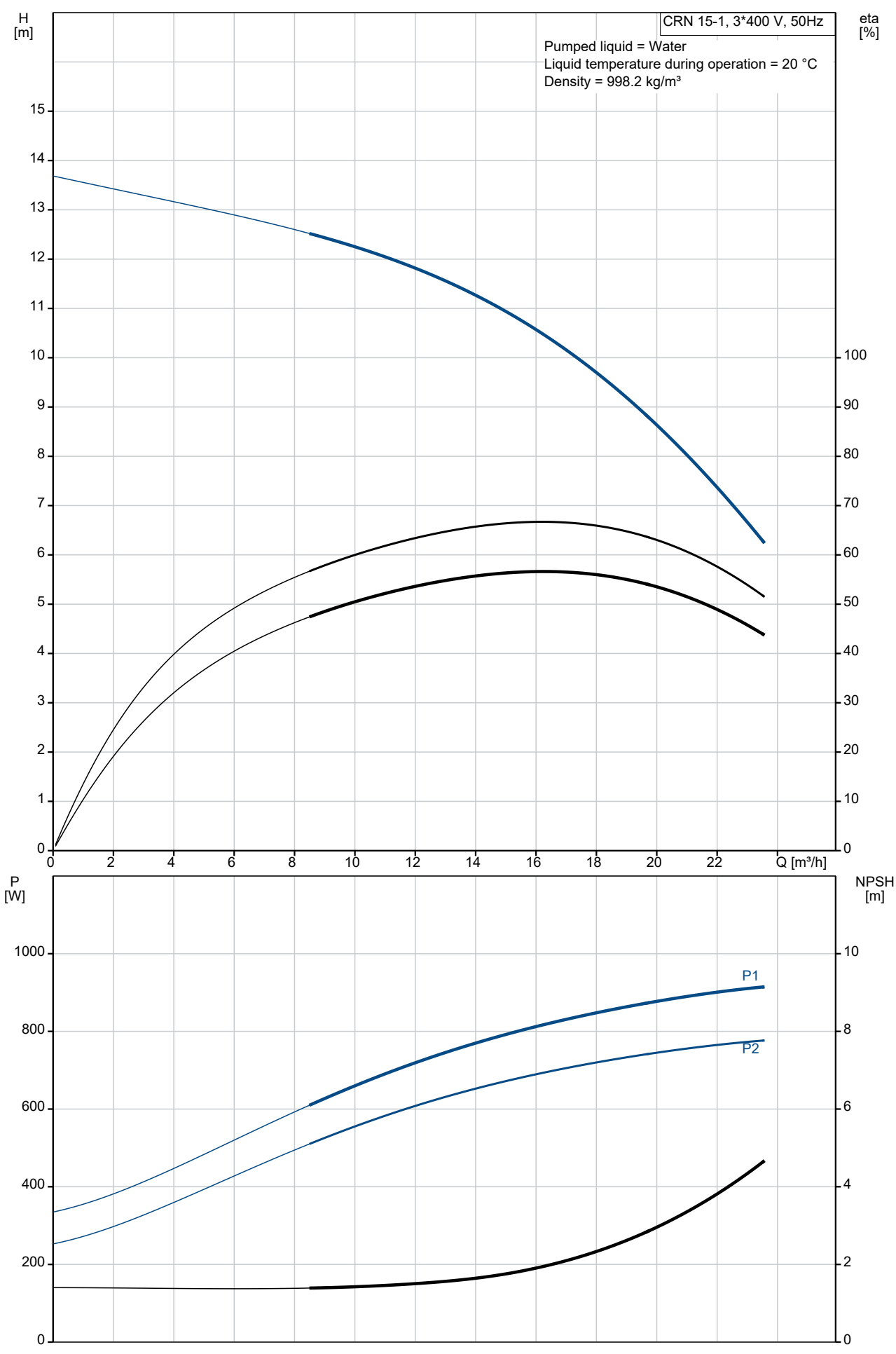
Datasheet



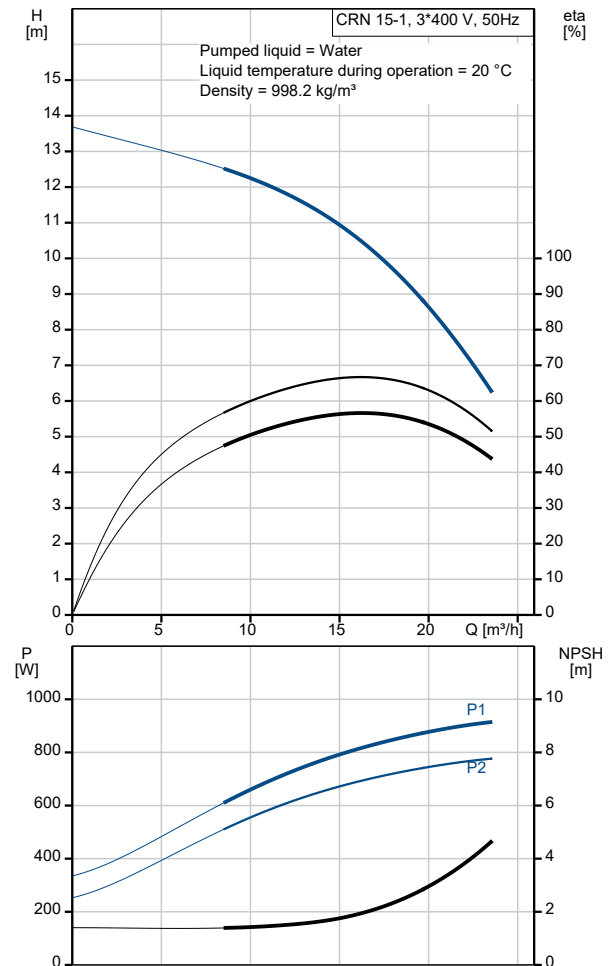
Qty.	Description
1	CRN 15-1 A-FGJ-A-E-HQQE  Product No.: 96501769 Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers, intermediate chambers and outer sleeve are made of 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 DIN / ANSI / JIS 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: 17 m³/h Rated head: 9.9 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: 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: DIN / ANSI / JIS

Qty.	Description
	Size of inlet connection: DN 50 Size of outlet connection: DN 50 Pressure rating for connection: PN 25 Flange rating inlet: 300 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: 39 kg Gross weight: 52 kg Shipping volume: 0.173 m³ Finnish LVI No.: 4925610 Country of origin: HU Custom tariff no.: 84137075

96501769 CRN 15-1 A-FGJ-A-E-HQQE 50 Hz

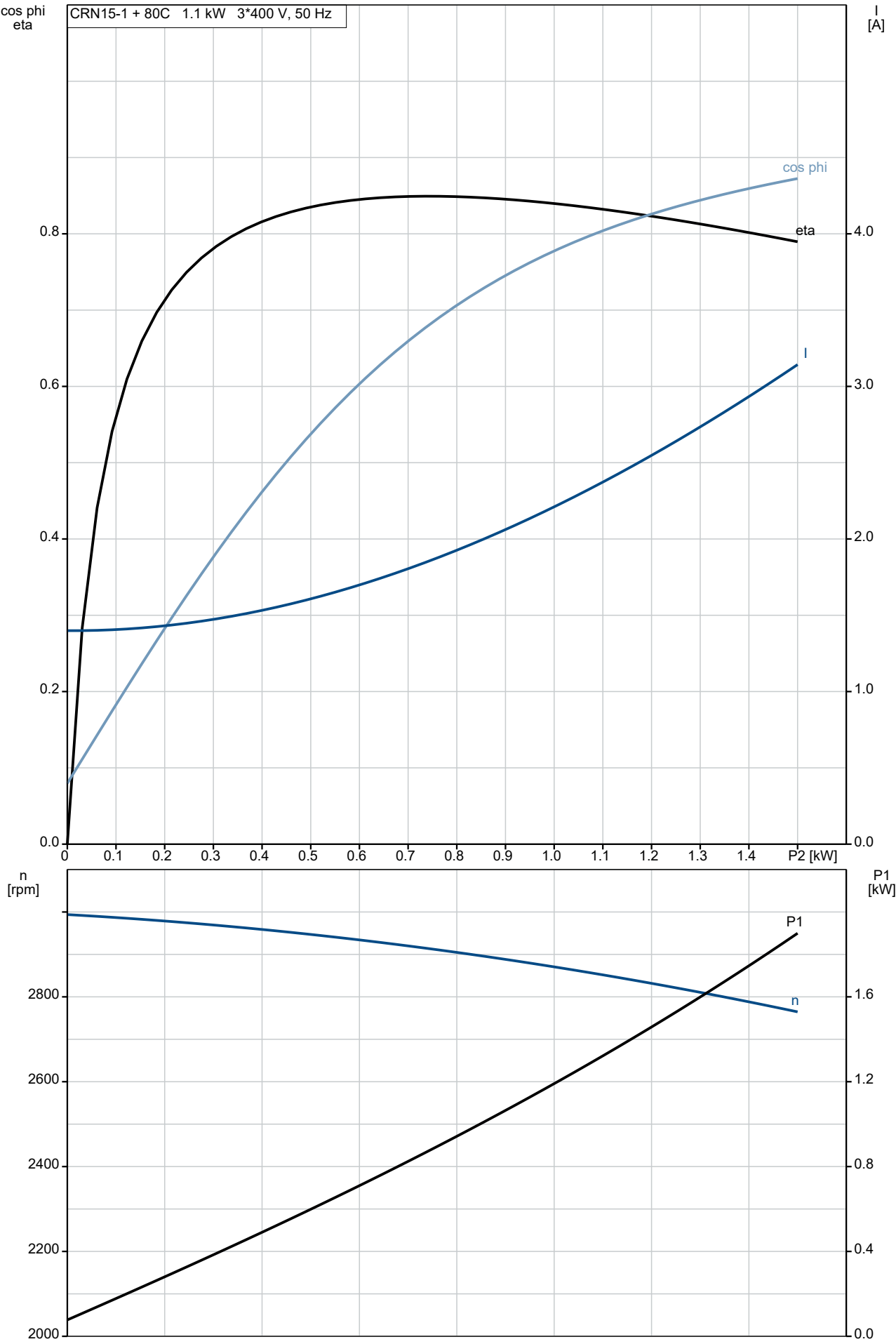


Description	Value
General information:	
Product name:	CRN 15-1 A-FGJ-A-E-HQQE
Product No:	96501769
EAN number:	5700396228846
Technical:	
Pump speed on which pump data are based:	2853 rpm
Rated flow:	17 m³/h
Rated head:	9.9 m
Maximum head:	13.5 m
Stages:	2
Impellers:	1
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CE,EAC,UKCA,WRAS,AC S
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:	DIN / ANSI / JIS
Size of inlet connection:	DN 50
Size of outlet connection:	DN 50
Pressure rating for connection:	PN 25
Flange rating inlet:	300 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 %

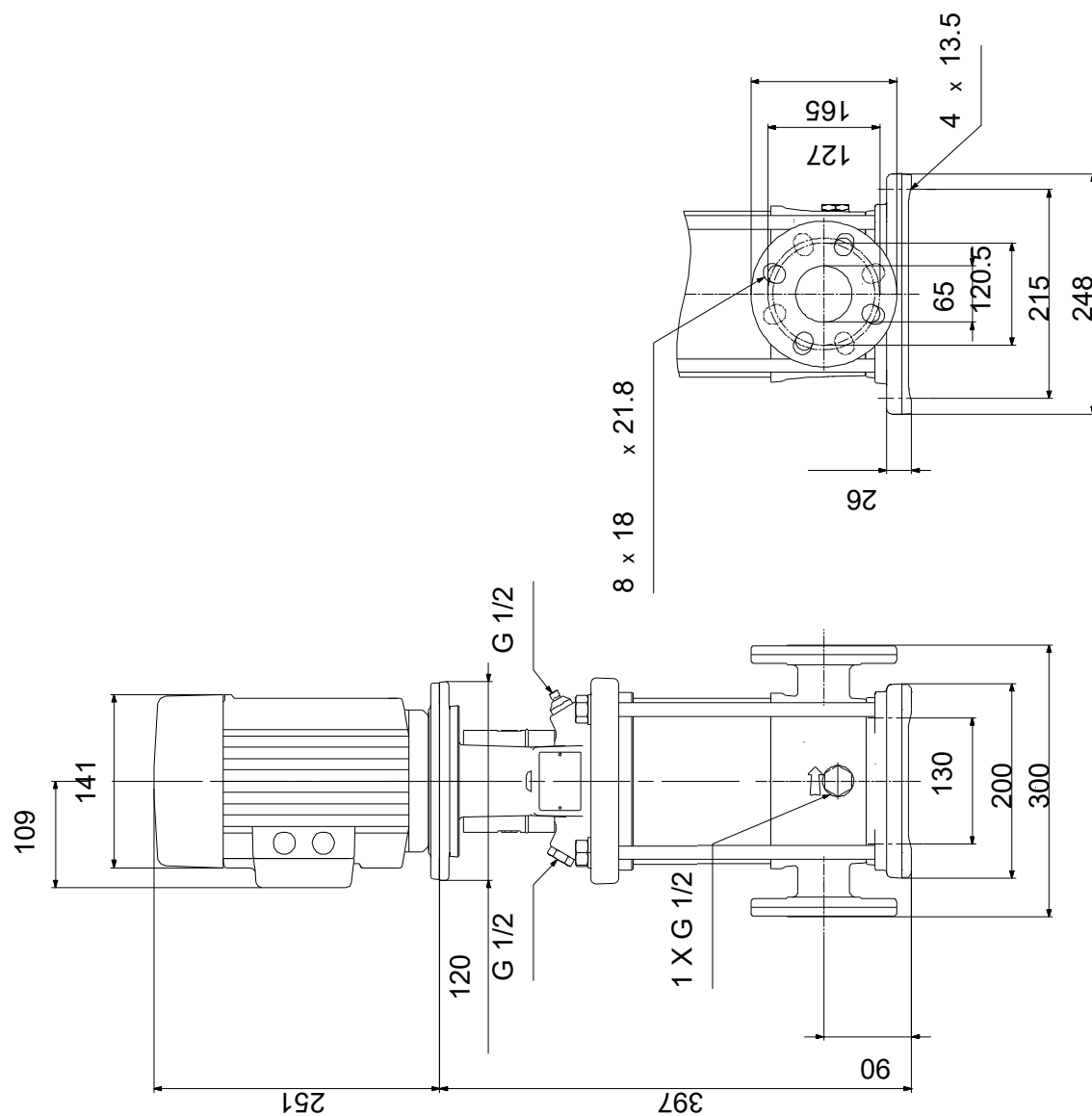


Description	Value
Motor efficiency at 3/4 load:	84.6 %
Motor efficiency at 1/2 load:	85.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85U05105
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	39 kg
Gross weight:	52 kg
Shipping volume:	0.173 m³
Finnish LVI No.:	4925610
Country of origin:	HU
Custom tariff no.:	84137075

96501769 CRN 15-1 A-FGJ-A-E-HQQE 50 Hz



96501769 CRN 15-1 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 CRN 15-1, Product No. 96501769
Produced After 1101 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, chamber stack			96491749	1	pcs
- 80	Chamber stack				1	
- 4a	Intermediate chamber cpl.				1	
	Sand Lifter					
	Guide cup					
	Bearing plate					
	Guide vane					
3	Intermediate chamber					
45	Neck ring cpl.					
47	Bearing bush					
65	Retainer					
- 4	Upper chamber cpl.				1	
3	Chamber					
26a	Strap cpl.				2	
26.c	Washer		Designation: DIN 125A		2	
			Thickness: 1,6			
26.b	Hex head screw				2	
44b	Inlet part				1	
- 44a	Inlet part cpl.				1	
45	Neck ring cpl.					
65	Retainer					
47a	Bearing ring				1	
- 49	Impeller cpl.				1	
49c	Wear ring					
49	Impeller					
- 51	Shaft, spline, cpl.				1	
62	Retaining ring					
64d	Spacing bush				1	
64c	Spacer				1	
64b	Spacing bush		Length (mm): 5.00		1	
64a	Spacing pipe		Internal diameter: 17,5		1	
			Length (mm): 17			
64	Spacing pipe		Length (mm): 29.05		1	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
-	Kit, coupling			96511317	1	pcs
	Adjusting fork				1	
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			96509611	1	pcs
7.a	Combi Slot Torx screw				4	
7	Coupling guard				2	
-	Kit, gaskets			96509609	1	pcs
	Gasket				2	
24	O-ring				2	
37	O-ring				2	
38	O-ring				1	
38	O-ring				1	
38	O-ring				2	
60	Spring				4	
415	Gasket		Internal diameter: 44		2	
			Outer diameter: 60			
			Thickness: 2			

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
441b	Gasket		Internal diameter: 49		2	
			Outer diameter: 92			
			Thickness: 2			
-	Kit, plug			96511312	1	pcs
- 18	Air vent screw				1	
	Spindle				1	
	Plug				1	
25a	Drain plug				1	
25	Plug				1	
38	O-ring				1	
38	O-ring				1	
38	O-ring				2	
38	O-ring		Diameter: 5,3		1	
			Material type: FKM			
			Thickness: 2,4			
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			96511844	1	pcs
105	Shaft seal		Material type: HQQE		1	
-	Kit, wear parts			96511824	1	pcs
- 4a	Intermediate chamber cpl.				1	
	Sand Lifter				1	
	Guide cup				1	
	Bearing plate				1	
	Guide vane				10	
3	Intermediate chamber				1	
45	Neck ring cpl.				1	
47	Bearing bush				1	
65	Retainer				1	
26.c	Washer		Designation: DIN 125A		2	
			Thickness: 1,6			
26.b	Hex head screw				2	
45	Neck ring cpl.				5	
47a	Bearing ring				1	
49c	Wear ring				6	
62	Retaining ring				1	
64d	Spacing bush				1	
64c	Spacer				1	
64b	Spacing bush		Length (mm): 5.00		1	
64a	Spacing pipe		Internal diameter: 17,5		1	
			Length (mm): 17			
65	Retainer				5	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
-	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	
159a	Seal ring				1	
-	Kit, fan cover			96279720	1	
151	Fan cover				1	
152	Pan head thread forming screw				2	

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, flange				96279854	1	
156b	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	
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	
-	Motor				85901513	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	
159a	Seal ring					1	
-	Kit, fan cover				96279720	1	
151	Fan cover					1	
152	Pan head thread forming screw					2	
-	Kit, flange				96279854	1	
156b	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	
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	

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr.	Aantal	Eenheid
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	
1a	Pump head				98824713	1	pcs
2	Pump cover				98481138	1	pcs
- 4a	Intermediate chamber cpl.				96538853	1	pcs
3	Intermediate chamber				98371143	1	
65	Retainer				96547341	1	
+ 4a	Intermediate chamber cpl.				98371117	1	pcs
6	Base				98482550	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
25	Plug				96536013	1	pcs
26a	Strap cpl.				98964727	2	pcs
26.c	Washer			Designation: DIN 125A	99262704	2	pcs
				Thickness: 1,6			
26.c	Washer			Designation: DIN 125A	99886930	2	pcs
				Thickness: 1,6			
26	Staybolt				98982874	4	pcs
32	Washer			Designation: DIN 125 A2	99944260	4	pcs
				Internal diameter: 17			
				Outer diameter: 30			
				Thickness: 3			
36	Nut			Thread: M16	99944257	4	pcs
37.a	O-ring				96538857	1	pcs
38	O-ring				99198791	1	pcs
38	O-ring				99198815	2	pcs
38	O-ring				99412727	2	pcs
44b	Inlet part				98814593	1	pcs
+ 44a	Inlet part cpl.				98818922	1	pcs
47a	Bearing ring				96538795	1	pcs
- 49	Impeller cpl.				98394449	1	pcs
49c	Wear ring				96547340	1	
- 51	Shaft, spline, cpl.				98368626	1	pcs
62	Retaining ring				96588022	1	
55	Outer sleeve				98812632	1	pcs
56	Base plate				98481136	1	pcs
60	Spring				96538963	4	pcs
64d	Spacing bush				96538947	1	pcs
64c	Spacer				97980241	1	pcs
64b	Spacing bush			Length (mm): 5.00	96535098	1	pcs
64a	Spacing pipe			Internal diameter: 17,5	98417487	1	pcs
				Length (mm): 17			
64	Spacing pipe			Length (mm): 29.05	96535101	1	pcs
66	Wedge lock washer				96536157	1	pcs
66	Wedge lock washer				92575609	1	pcs
67	Lock nut			Thread: M8	98277008	1	pcs
76a	Rivet				96620489	1	pcs
105	Shaft seal			Material type: HQQE	96538914	1	pcs

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
440b	Lock ring			96536453	2	pcs