

Inventflow: Grundfos A-partner

Grundfos CRN 95-1-1 A-F-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/crn/grundfos-crn-95-1-1-a-f-a-e-hqqe>

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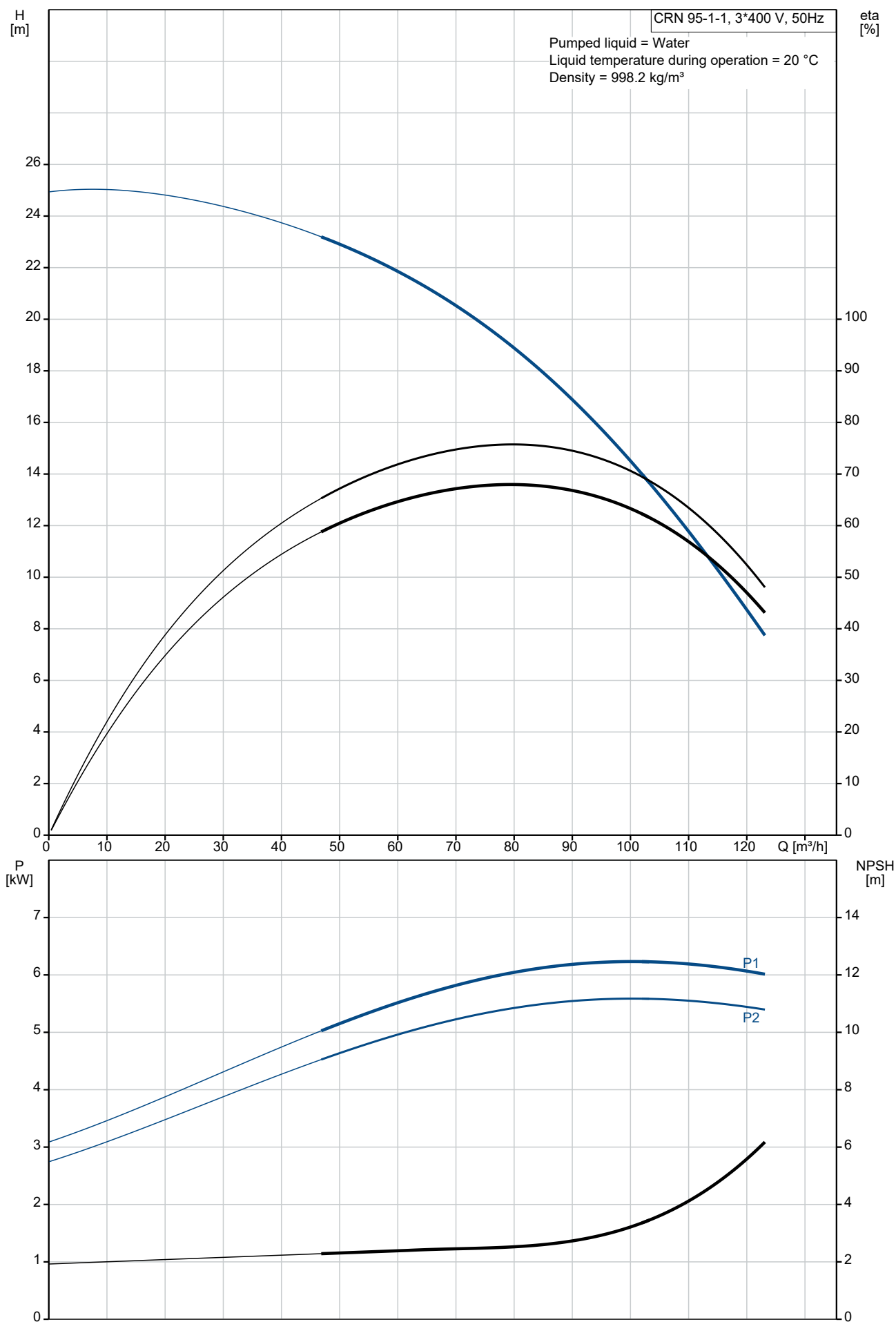
Datasheet



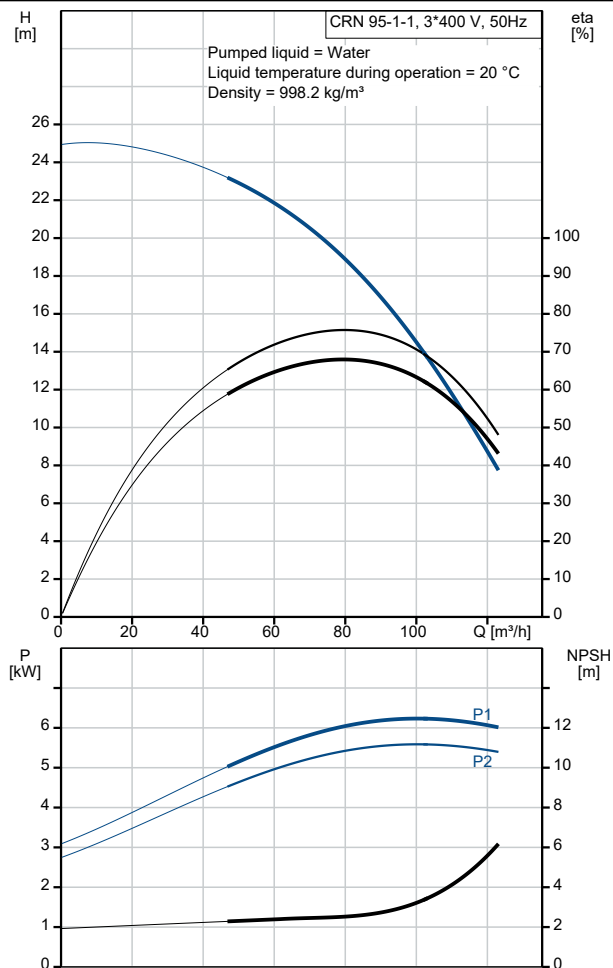
Qty.	Description																																																								
1	CRN 95-1-1 A-F-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 99141757 Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade stainless steel. The Grundfos cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via DIN flanges. The pump is fitted with a 3-phase, fan-cooled asynchronous motor. Liquid: <table> <tr> <td>Pumped liquid:</td><td>Water</td></tr> <tr> <td>Liquid temperature range:</td><td>-40 .. 120 °C</td></tr> <tr> <td>Selected liquid temperature:</td><td>20 °C</td></tr> <tr> <td>Density:</td><td>998.2 kg/m³</td></tr> </table> Technical: <table> <tr> <td>Pump speed on which pump data are based:</td><td>2938 rpm</td></tr> <tr> <td>Rated flow:</td><td>95 m³/h</td></tr> <tr> <td>Rated head:</td><td>16 m</td></tr> <tr> <td>Pump orientation:</td><td>Vertical</td></tr> <tr> <td>Shaft seal arrangement:</td><td>Single</td></tr> <tr> <td>Code for shaft seal:</td><td>HQQE</td></tr> <tr> <td>Approvals:</td><td>CE,EAC,UKCA,ACS,WRAS</td></tr> <tr> <td>Curve tolerance:</td><td>ISO9906:2012 3B</td></tr> </table> Materials: <table> <tr> <td>Base:</td><td>Stainless steel EN 1.4408</td></tr> <tr> <td>Impeller:</td><td>Stainless steel EN 1.4401</td></tr> <tr> <td>Bearing:</td><td>WC/WC</td></tr> <tr> <td>Support bearing:</td><td>Graflon</td></tr> <tr> <td>Material certified according to:</td><td>European standards</td></tr> </table> Installation: <table> <tr> <td>Maximum ambient temperature:</td><td>60 °C</td></tr> <tr> <td>Maximum operating pressure:</td><td>16 bar</td></tr> <tr> <td>Max pressure at stated temp:</td><td>16 bar / 120 °C</td></tr> <tr> <td>Type of connection:</td><td>DIN</td></tr> <tr> <td>Size of inlet connection:</td><td>DN 100</td></tr> <tr> <td>Size of outlet connection:</td><td>DN 100</td></tr> <tr> <td>Pressure rating for connection:</td><td>PN 16</td></tr> <tr> <td>Flange size for motor:</td><td>FF265</td></tr> </table> Electrical data: <table> <tr> <td>Motor standard:</td><td>IEC</td></tr> <tr> <td>Motor type:</td><td>132SC</td></tr> <tr> <td>IE Efficiency class:</td><td>IE3</td></tr> </table>	Pumped liquid:	Water	Liquid temperature range:	-40 .. 120 °C	Selected liquid temperature:	20 °C	Density:	998.2 kg/m ³	Pump speed on which pump data are based:	2938 rpm	Rated flow:	95 m ³ /h	Rated head:	16 m	Pump orientation:	Vertical	Shaft seal arrangement:	Single	Code for shaft seal:	HQQE	Approvals:	CE,EAC,UKCA,ACS,WRAS	Curve tolerance:	ISO9906:2012 3B	Base:	Stainless steel EN 1.4408	Impeller:	Stainless steel EN 1.4401	Bearing:	WC/WC	Support bearing:	Graflon	Material certified according to:	European standards	Maximum ambient temperature:	60 °C	Maximum operating pressure:	16 bar	Max pressure at stated temp:	16 bar / 120 °C	Type of connection:	DIN	Size of inlet connection:	DN 100	Size of outlet connection:	DN 100	Pressure rating for connection:	PN 16	Flange size for motor:	FF265	Motor standard:	IEC	Motor type:	132SC	IE Efficiency class:	IE3
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Qty.	Description
	Rated power - P2: 5.5 kW Power (P2) required by pump: 5.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 11 A Starting current: 1080-1180 % Cos phi - power factor: 0.87-0.82 Rated speed: 2920-2940 rpm Efficiency: IE3 89,2% Motor efficiency at full load: 89.2 % Motor efficiency at 3/4 load: 90.0 % Motor efficiency at 1/2 load: 89.6 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 85U17417 Controls: Frequency converter: NONE Others: Net weight: 137 kg Gross weight: 180 kg Shipping volume: 0.611 m³ Finnish LVI No.: 4925612 Thrust handling device: N Country of origin: DK Custom tariff no.: 84137075

99141757 CRN 95-1-1 A-F-A-E-HQQE 50 Hz

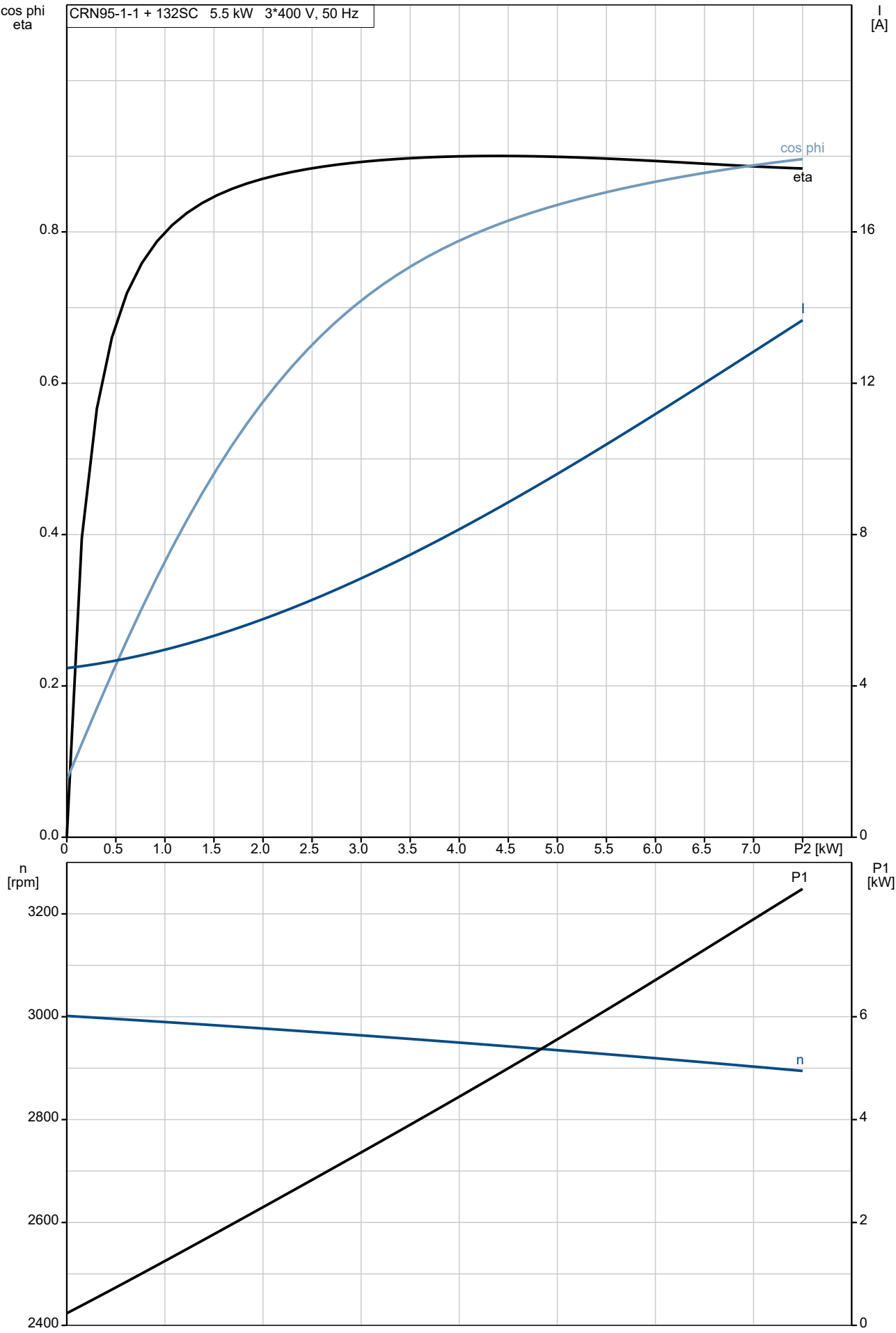


Description	Value
General information:	
Product name:	CRN 95-1-1 A-F-A-E-HQQE
Product No:	99141757
EAN number:	5712607527570
Technical:	
Pump speed on which pump data are based:	2938 rpm
Rated flow:	95 m³/h
Rated head:	16 m
Maximum head:	25.1 m
Stages:	1
Impellers:	1
Number of reduced-diameter impellers:	1
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals:	CE,EAC,UKCA,ACS,WRAS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Cooling:	IC 411
Materials:	
Base:	Stainless steel
Base:	EN 1.4408
Impeller:	Stainless steel
Impeller:	EN 1.4401
Material code:	A
Code for rubber:	E
Bearing:	WC/WC
Support bearing:	Graflon
Material certified according to:	European standards
Installation:	
Maximum ambient temperature:	60 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 120 °C
Type of connection:	DIN
Size of inlet connection:	DN 100
Size of outlet connection:	DN 100
Pressure rating for connection:	PN 16
Flange size for motor:	FF265
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-40 .. 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor standard:	IEC
Motor type:	132SC
IE Efficiency class:	IE3
Rated power - P2:	5.5 kW
Power (P2) required by pump:	5.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415D V
Rated current:	11 A
Starting current:	1080-1180 %
Cos phi - power factor:	0.87-0.82
Rated speed:	2920-2940 rpm
Efficiency:	IE3 89,2%
Motor efficiency at full load:	89.2 %
Motor efficiency at 3/4 load:	90.0 %
Motor efficiency at 1/2 load:	89.6 %

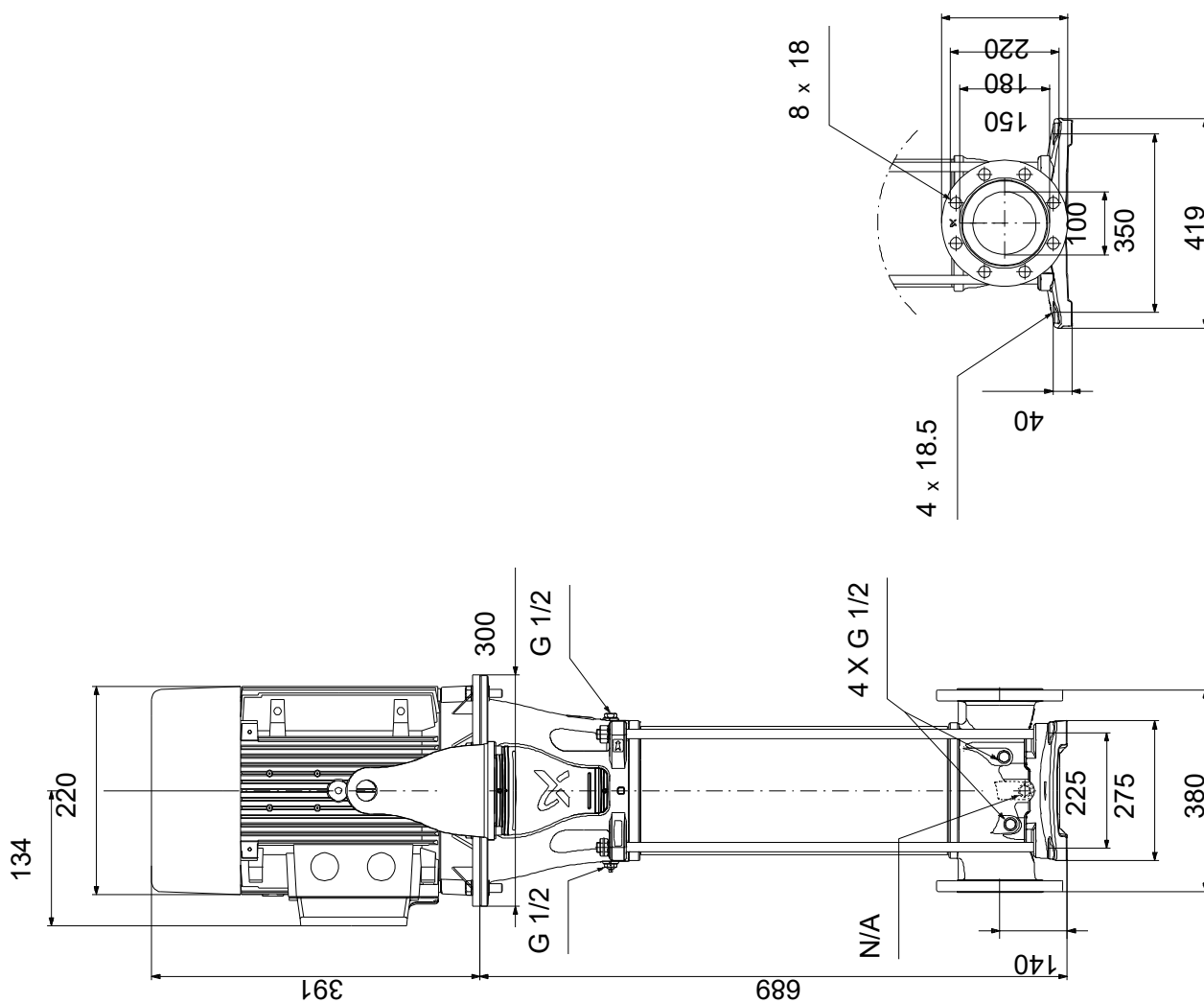


Description	Value
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17417
Controls:	
Frequency converter:	NONE
Others:	
Net weight:	137 kg
Gross weight:	180 kg
Shipping volume:	0.611 m ³
Finnish LVI No.:	4925612
Thrust handling device:	N
Country of origin:	DK
Custom tariff no.:	84137075

99141757 CRN 95-1-1 A-F-A-E-HQQE 50 Hz



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

Spare parts CRN 95-1-1, Product No. 99141757
Produced After 1827 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, bearing			99415811	1	pcs
- 47a	Bearing cpl.				1	
	Driver				1	
	Retainer				1	
47f	Hairpin clip				1	
-	Kit, coupling			99190032	1	pcs
- 8	Coupling cpl.				1	
10a	Coupling				2	
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 25			
			Thread: M10			
10	Parallel pin				1	
-	Kit, coupling guard			99196379	2	pcs
7b	Lock washer				2	
7a	Screw				2	
7	Coupling guard				1	
-	Kit, flange			99432754	1	pcs
440b	Lock ring				1	
440a	Flange		Diameter: DN 100		1	
			Pressure: PN 16			
-	Kit, Impeller, reduced			99124968	1	pcs
48	Nut				1	
49b	Split cone				1	
49a	Impeller				1	
-	Kit, O-rings			99262378	1	pcs
37	O-ring				2	
38	O-ring				8	
109	O-ring				1	
110	O-ring		Diameter: 21,5		1	
			Material type: EPDM			
			Thickness: 4,25			
-	Kit, plug			99262366	1	pcs
-	Plug cpl.				5	
25	Plug				1	
38	O-ring				1	
-	Air vent screw				1	
- 18	Air vent screw				1	
	Spindle					
	Plug					
38	O-ring				1	
-	Kit, shaft seal HQQE			99262346	1	pcs
	Grinding device				1	
105	Shaft seal				1	
-	Kit, staybolts			99190078	4	pcs
26	Staybolt				1	
36	Nut				1	
66a	Washer				1	
-	Kit, strap			99190046	2	pcs
26c	Washer		Designation: DIN 125A		1	
			Thickness: 1,6			
26b	Hex head screw				1	
26a	Strap				1	
-	Kit, wear parts			99262415	1	pcs
	Adjusting fork				1	
45	Neck ring				4	
47d	Lock ring				3	
47c	Bush				3	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
65	Neck ring retainer				4	
-	Motor			96279803	1	pcs
-	Kit, bearing cpl.			96279803	1	
111	Ball bearing		Designation: 6206.2Z.C3.SYN		1	
153	Angular-contact bearing				1	
157	O-ring		Diameter: 62		1	
			Material type: NBR			
			Thickness: 3			
158	Waved washer				2	
-	Kit, end shield			96279790	1	
156a	End shield				1	
157	O-ring		Diameter: 62		1	
			Material type: NBR			
			Thickness: 3			
158	Waved washer				1	
159a	Seal ring				1	
-	Kit, eyebolt			96279825	1	
189	Eyebolt				1	
-	Kit, fan			96279758	1	
156	Fan				1	
159c	Seal ring				1	
159a	Seal ring				1	
-	Kit, fan cover			96279756	1	
151b	Label				1	
151	Fan cover				1	
152	Pan head thread forming screw				4	
-	Kit, flange			96279784	1	
156b	Flange				1	
159.c	Seal ring				1	
186	Drain plug				3	
-	Kit, retaining ring			96279801	1	
187	Retaining ring				1	
188	Retaining ring				1	
-	Kit, shaft seal			96279764	1	
159d	Seal ring				1	
159c	Seal ring				1	
-	Kit, staybolts			96279793	1	
181	Pan head staybolt				4	
-	Kit, terminal board			96279769	1	
	Bracket cpl.				1	
163	Hex socket head screw				1	
173a	Base				1	
173	Pan head thread forming screw		Designation: COMBI TORX T25		1	
176	Slot cheese head screw		Designation: COMBI TORX T25		6	
			Length (mm): 10			
			Thread: M5			
176	Terminal				1	
176	Connecting piece				3	
176	Wire clamp				3	
176	Terminal board				1	
177	Pan head screw				1	
-	Kit, terminal box			96279772	1	
164	Terminal box cover w/gasket				1	
166	Pan head thrd forming screw				4	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
2	Cover			99196494	1	pcs
3a	Chamber			99446234	1	pcs
3a	Chamber			99446255	1	pcs
3a	Chamber			99415883	1	pcs
6	Base			99196467	1	pcs
26c	Washer		Designation: DIN 125A	99262704	2	pcs
			Thickness: 1,6			
26c	Washer		Designation: DIN 125A	99886930	2	pcs
			Thickness: 1,6			
28	Hex head screw		Length (mm): 45 MM	96620474	4	pcs
			Thread: M12			
32	Washer		Designation: DIN 125 A	99883474	8	pcs
			Internal diameter: 13			
			Outer diameter: 24			
			Thickness: 2,5			
36	Nut			99262692	4	pcs
36	Nut		Thread: M12	96620479	4	pcs
44	Suction part			99196613	1	pcs
44a	Discharge part			99196621	1	pcs
47f	Hairpin clip			99908983	1	pcs
49h	Impeller			99262539	1	pcs
49h	Impeller			99262563	1	pcs
49b	Split cone			99262686	1	pcs
49b	Split cone			99262689	1	pcs
51	Shaft			99196536	1	pcs
55	Sleeve			99196419	1	pcs
56	Base plate			99196481	1	pcs
66a	Washer			99262699	4	pcs