

Inventflow: Grundfos A-partner

Grundfos CRE 5-12 N-FGJ-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cre/grundfos-cre-5-12-n-fgj-a-e-hqqe>

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Datasheet

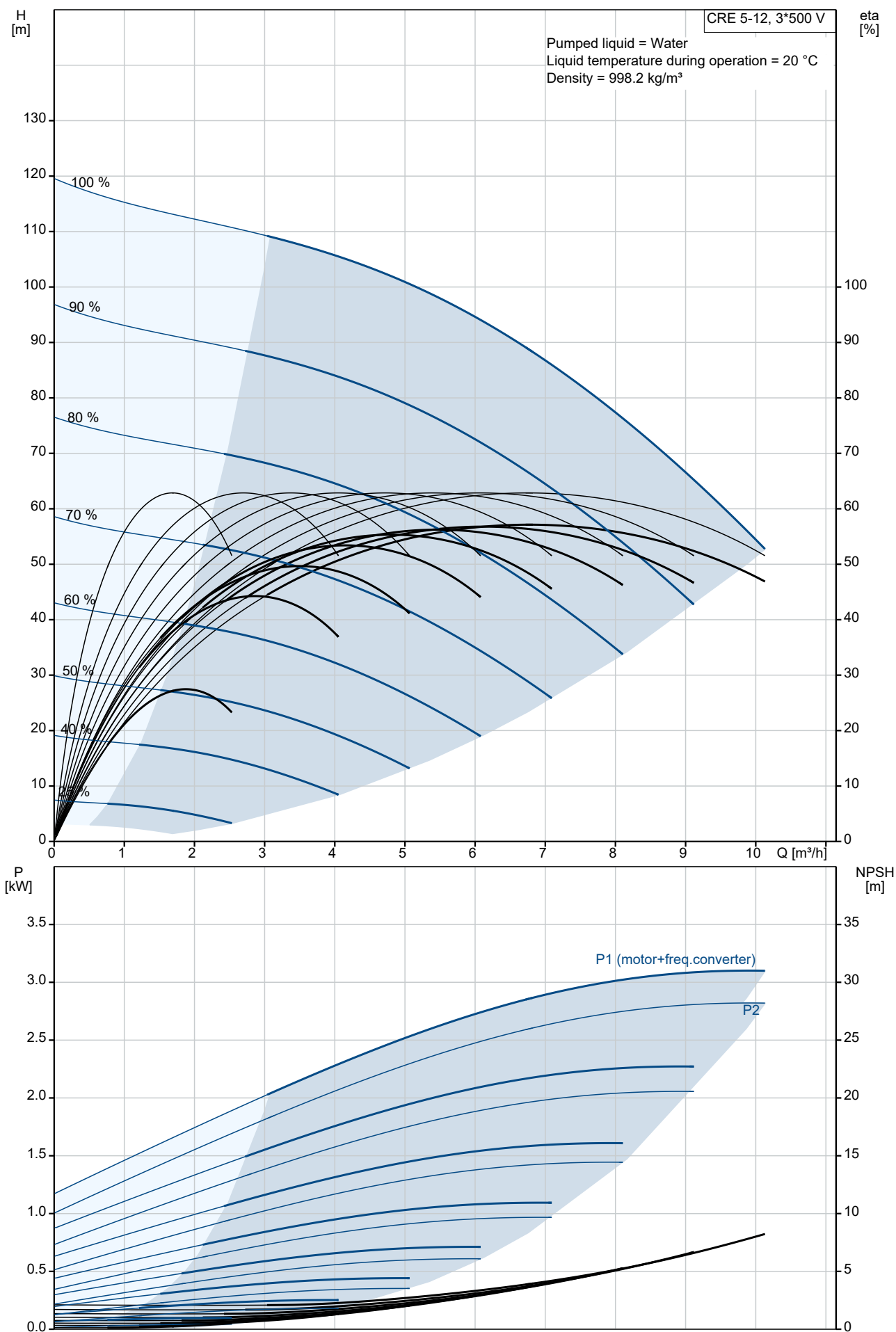


Qty.	Description
1	CRE 5-12 N-FGJ-A-E-HQQE  Product No.: 99072203 Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers and intermediate chambers are made of - Impeller: Stainless steel DIN W.-Nr. 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. The pump is fitted with an IEC-flanged three-phase MGE motor with frequency converter and PI-controller integrated in the motor terminal box. No additional motor protection is required as both motor and electronics are protected by integrated overload and temperature protection. The pump is equipped with a pressure transmitter registering pump discharge pressure and enabling controlled pump operation based on constant pressure. A control panel enables setting of required setpoint as well as setting of pump to MIN or MAX operation or to STOP. The control panel has indicator lights for "Operation" and "Fault". Communication with the pump is possible by means of Grundfos R100 Remote Control enabling further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption". The terminal box holds terminals for the connection of: - Pump start/stop (potential-free contact), - external remote setpoint setting via analog signal, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA, - 5 V voltage supply for setpoint potentiometer, I_{max} = 5 mA, - pressure sensor factory-fitted. - input for forced control to MIN or MAX (potential-free contact), - potential-free fault signal relay with changeover contact, reporting Fault, Operation or Ready, - RS485 GENibus. Controls: Frequency converter: Built-in

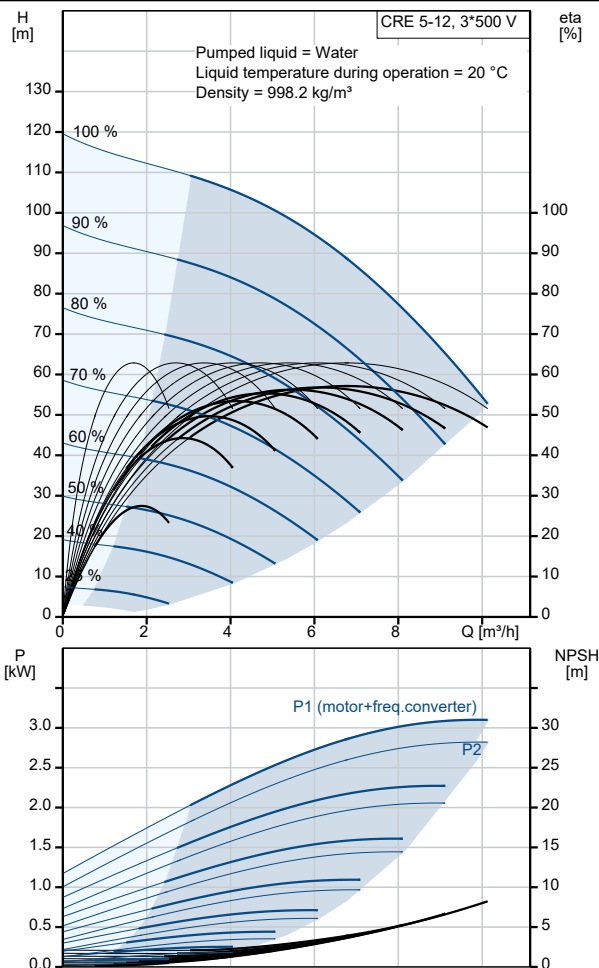
Qty.	Description
	Pressure sensor: Y Liquid: Pumped liquid: Water Liquid temperature range: -20 .. 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Technical: Pump speed on which pump data are based: 3514 rpm Rated flow: 6.9 m³/h Rated head: 90.4 m Pump orientation: Vertical Shaft seal 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: 50 °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 Flange rating inlet: 250 lb Flange size for motor: FT130 Electrical data: Motor standard: IEC Motor type: 100LA IE Efficiency class: IE5 Rated power - P2: 3 kW Power (P2) required by pump: 3 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 5.80-4.80 A Cos phi - power factor: 0.91-0.86 Rated speed: 360-4000 rpm Efficiency: 90.7% Motor efficiency at full load: 90.7 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98971049 Others: Minimum efficiency index, MEI ≥: 0.57 DOE Pump Energy Index CL: 0.00 DOE Pump Energy Index VL: 0.00 Net weight: 48.6 kg Gross weight: 69.6 kg Shipping volume: 0.234 m³ Danish VVS No.: 386002112 Country of origin: DK

Qty.	Description
	Custom tariff no.: 84137075

99072203 CRE 5-12 N-FGJ-A-E-HQQE

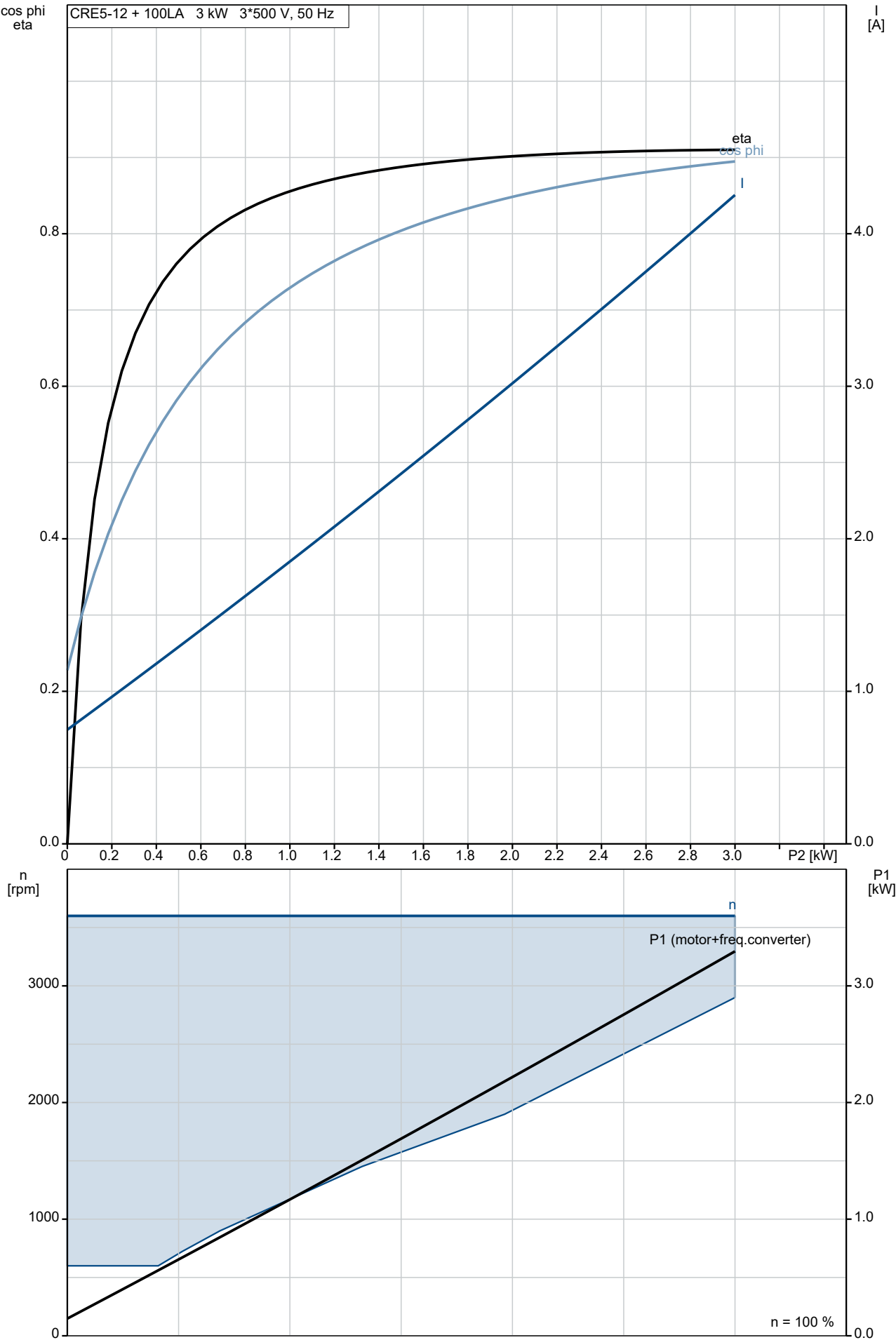


Description	Value		
General information:			
Product name:	CRE 5-12 N-FGJ-A-E-HQQE		
Product No:	99072203		
EAN number:	5712606206681		
Technical:			
Pump speed on which pump data are based:	3514 rpm		
Rated flow:	6.9 m³/h		
Rated head:	90.4 m		
Maximum head:	119.8 m		
Stages:	12		
Impellers:	12		
Number 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:	N		
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:	50 °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:	FT130		
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:	100LA		
IE Efficiency class:	IE5		
Rated power - P2:	3 kW		
Power (P2) required by pump:	3 kW		
Mains frequency:	50 / 60 Hz		
Rated voltage:	3 x 380-500 V		
Rated current:	5.80-4.80 A		
Cos phi - power factor:	0.91-0.86		
Rated speed:	360-4000 rpm		
Efficiency:	90.7%		
Motor efficiency at full load:	90.7 %		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		

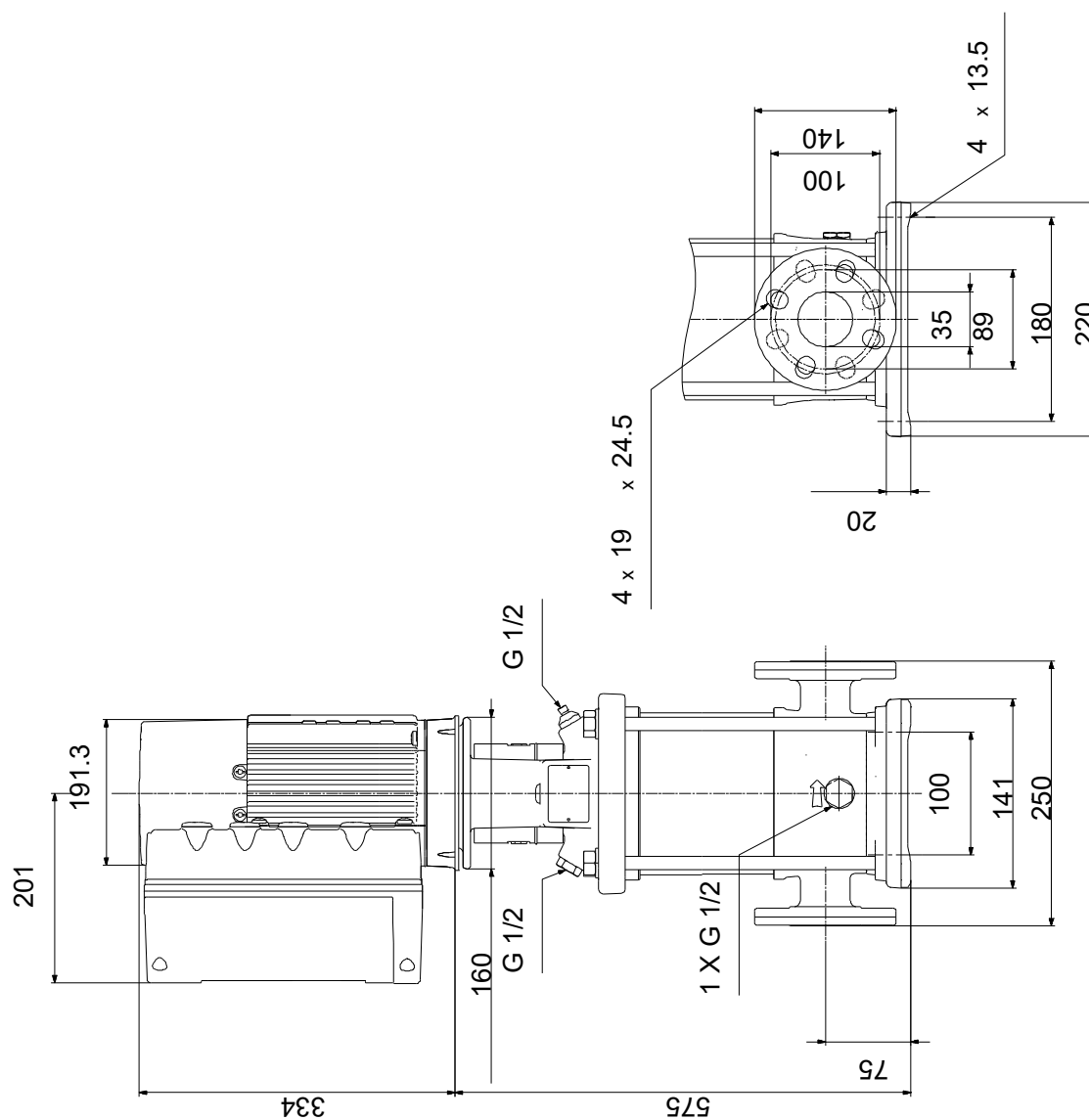


Description	Value
Motor protec:	ELEC
Motor No:	98971049
Controls:	
Control panel:	Standard
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Pressure sensor:	Y
Others:	
Minimum efficiency index, MEI ≥:	0.57
DOE Pump Energy Index CL:	0.00
DOE Pump Energy Index VL:	0.00
Net weight:	48.6 kg
Gross weight:	69.6 kg
Shipping volume:	0.234 m³
Config. file no:	99058886
Danish VVS No.:	386002112
Country of origin:	DK
Custom tariff no.:	84137075

99072203 CRE 5-12 N-FGJ-A-E-HQQE



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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 CRE 5-12, Product No. 99072203
Produced After 1633 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
- 80	Kit, chamber stack		Bearing type: SILICON CARBIDE	96453585	1	pcs
- 4a	Chamber w. bearing cpl.				2	
	Vane				1	
	Retainer for bearing				1	
	Guide vane				6	
	Chamber				1	
45	Neck ring				1	
47	Bearing bush				1	
65	Retainer				1	
65	Retainer for seal ring				1	
- 4	Chamber cpl.				9	
	Vane				1	
	Plate				1	
	Guide vane				6	
5a	Chamber				1	
45	Neck ring				1	
65	Retainer				1	
65	Retainer for seal ring				1	
- 5a	Chamber cpl.				1	
	Vane				1	
	Guide cup				1	
5a	Chamber				1	
45	Neck ring				1	
65	Retainer				1	
65	Retainer for seal ring				1	
- 44a	Guide vane cpl.				1	
	Plate				1	
	Guide vane				6	
50	Top plate				1	
47a	Bearing ring				2	
49	Impeller cpl.				12	
51	Shaft, spline, cpl.				1	
64d	Spacing pipe		Internal diameter: 12,85 Outer diameter: 15,85 Length (mm): 4,50		1	
64c	Clamp, splined		Internal diameter: 8,5 Outer diameter: 15		1	
64a	Spacing pipe		Length (mm): 13.00		2	
64	Spacing pipe		Length (mm): 26.0		9	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
69	Spacing pipe		Length (mm): 2.00		1	
-	Kit, coupling			00415063	1	pcs
9	Hex socket head cap screw		Designation: DIN 912 Length (mm): 25 Thread: M8		4	
10a	Coupling half				2	
10	Shaft pin		Diameter: 5 Length (mm): 26		1	
-	Kit, coupling guard			96505131	1	pcs
7a	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 Material type: EPDM		1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
Thickness: 2,75						
-	Kit, plug			96505133	1	pcs
- 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: SIC	96455097	1	pcs
- 4a	Chamber w. bearing cpl.				2	
	Vane				1	
	Retainer				1	
	Guide vane				6	
	Chamber				1	
45	Neck ring				1	
47	Bearing bush				1	
65	Retainer				1	
65	Neck ring retainer				1	
45	Neck ring				10	
47a	Bearing ring				2	
64c	Clamp, splined		Internal diameter: 8,5		1	
			Outer diameter: 15			
64a	Spacing pipe		Length (mm): 13.00		2	
65	Neck ring retainer				10	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
441 b	Gasket				2	
-	Motor			99879896	1	pcs
-	Kit, Ball bearing			98881508	1	
99	Retaining ring				1	
153	Ball bearing				1	
154	Ball bearing				1	
156 d	Seal ring				1	
156c	Seal ring				1	
157	O-ring		Diameter: 52		1	
			Material type: NBR			
			Thickness: 3			
158	Waved washer				1	
188	Retaining ring				1	
-	Kit, Blanking plug			99052475	1	
252 b	Plug cpl.				4	
252 b	Blanking plug				1	
-	Kit, cable gland			98736096	1	
293	Cable glands set				1	
-	Kit, connector plugs			98403113	1	
266	Connector plug 10-pole				1	
266	Connector plug 2-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 8-pole				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
266	Connector plug 3-pole				1	
266	Connector plug 3-pole				1	
266	Connector plug 3-pole				1	
-	Kit, control box			98878612	1	
251 d	Pan head thread forming screw				4	
251 b	Control box				1	
251 a	Control box cpl.				1	
252 b	Plug cpl.				4	
252 b	Blanking plug				1	
266	Connector plug 10-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 3-pole				1	
266	Connector plug 3-pole				1	
266	Connector plug 3-pole				1	
268 a	Base				1	
268	Pan head screw				1	
273 b	Battery				1	
273 a	Cross recess Pan head screw				3	
273	Funct. Module cpl.				1	
275 a	Pin				1	
277 b	Spring				4	
277 a	Cross recess Pan head screw				1	
277	Cover				1	
286	Spacer				1	
287	Cover				1	
288 b	Retaining ring				8	
288 a	Pan head thread forming screw				8	
288	Wire clamp				4	
289 a	Pan head thread forming screw				1	
289	Wire clamp				1	
290	Control panel, cpl.				1	
301	Jumper				1	
-	Kit, Control box upper			98869865	1	
251 d	Pan head thread forming screw				4	
251 b	Control box				1	
-	Kit, Control panel			98939973	1	
290	Control panel, cpl.				1	
-	Kit, cover			98330622	1	
287	Cover				1	
-	Kit, end shield (NDE)			98869882	1	
156c	Seal ring				1	
156 a	End shield NDE				1	
157	O-ring		Diameter: 52 Material type: NBR Thickness: 3		1	
158	Waved washer				1	
206	Pan head thread forming screw				4	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, fan			98869876	1	
152	Pan head thread forming screw				4	
156c	Seal ring				1	
156	Fan				1	
-	Kit, fan cover			99957566	1	
151	Fan cover				1	
152	Pan head thread forming screw				4	
-	Kit, flange (DE)			98869888	1	
	Glue				0	
156c	Seal ring				1	
156 b	Flange				1	
201c	Drain plug				3	
-	Kit, Funct. module			98334777	1	
273 a	Cross recess Pan head screw				5	
273	Funct. Module cpl.				1	
275 a	Pin				1	
286	Spacer				1	
-	Kit, Isolation cover			98859508	1	
277 b	Spring				4	
277 a	Cross recess Pan head screw				1	
277	Cover				1	
-	Kit, Lower part cpl.			98859571	1	
178	Pan head thread forming screw				4	
251 a	Control box cpl.				1	
275 a	Pin				1	
277 a	Cross recess Pan head screw				1	
277	Cover				1	
-	Kit, motor			99010735	1	
	Glue				0	
	Terminal				3	
99a	Retaining ring				1	
99	Retaining ring				1	
111	Ball bearing				1	
111	Ball bearing				1	
150	Stator w/housing				1	
151	Fan cover				1	
152	Pan head thread forming screw				4	
156 d	Gasket				1	
156c	Seal ring				1	
156c	Seal ring				1	
156 b	Flange				1	
156 a	End shield NDE				1	
156	Fan				1	
157	O-ring		Diameter: 52		1	
			Material type: NBR			
			Thickness: 3			
158	Waved washer				1	
172	Shaft w/rotor				1	
181	Pan head staybolt				4	
186	Drain plug				3	
190	Eyebolt				2	

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr.	Aantal	Eenheid
203	Terminal plug					1	
289 a	Pan head thread forming screw					2	
-	Kit, plug				99028676	1	
152	Pan head thread forming screw					2	
203	Terminal plug					1	
205	Gasket					1	
-	Kit, screws				99028712	1	
268 a	Base					1	
268	Pan head screw					1	
288 b	Retaining ring					8	
288 a	Pan head thread forming screw					8	
288	Wire clamp					4	
289 a	Pan head thread forming screw					1	
289	Wire clamp					1	
-	Kit, staybolts				98881544	1	
181	Pan head staybolt					4	
111	Ball bearing				99083449	1	
111	Ball bearing				97501069	1	
152	Pan head thread forming screw				99834207	4	
152	Pan head thread forming screw				99814578	4	
158	Waved washer				99804989	1	
159 a	Seal ring				97689816	1	
186	Drain plug				99980519	3	
251 d	Pan head thread forming screw				98995460	4	
266	Connector plug 3-pole				99421265	1	
2a	Pump head				98681106	1	pcs
4a	Chamber w. bearing cpl.				96547652	2	pcs
4a	Chamber w. bearing cpl.				98371274	2	pcs
- 4	Chamber cpl.				96547651	9	pcs
45	Neck ring				96547603	1	
65	Retainer				97911446	1	
4	Chamber cpl.				98371272	9	pcs
5a	Chamber cpl.				98371269	1	pcs
6	Base				96588146	1	pcs
7a	Combi Slot Torx screw				96886324	4	pcs
7	Coupling guard				96603690	2	pcs
10	Shaft pin			Diameter: 5 Length (mm): 26	96536473	1	pcs
10	Shaft pin			Diameter: 5 Length (mm): 26	96587588	1	pcs
18	Air vent screw				96547461	1	pcs
18	Air vent screw				95061351	1	pcs
- 25a	Priming valve cpl.				96588242	1	pcs
38	O-ring				99198815	1	
38	O-ring				99412727	1	
26	Staybolt			Length (mm): 349 Thread: M12	98907006	4	pcs
28	Hex head screw			Length (mm): 25 Thread: M8	99335941	4	pcs
32	Washer			Designation: DIN 125 A Internal diameter: 13 Outer diameter: 24 Thickness: 2,5	99883474	4	pcs
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.				96547658	1	pcs

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr.	Aantal	Eenheid
44a	Guide vane cpl.				98681144	1	pcs
47a	Bearing ring				97905743	2	pcs
47a	Bearing ring				96547649	2	pcs
49	Impeller cpl.				96547648	12	pcs
49	Impeller cpl.				98394422	12	pcs
51	Shaft, spline, cpl.				98368519	1	pcs
55	Outer sleeve				98811258	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			Length (mm): 13.00	96536452	2	pcs
64a	Spacing pipe			Length (mm): 13.00	98520104	2	pcs
64	Spacing pipe			Length (mm): 26.0	96536304	9	pcs
66	Wedge lock washer				96536157	1	pcs
66	Wedge lock washer				92575609	1	pcs
67	Lock nut			Thread: M8	98277008	1	pcs
69	Spacing pipe			Length (mm): 2.00	96536451	1	pcs
105	Shaft seal			Material type: HQQE	96983415	1	pcs