

Inventflow: Grundfos A-partner

Grundfos CRE 5-22 A-FGJ-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cre/grundfos-cre-5-22-a-fgj-a-e-hqqe>

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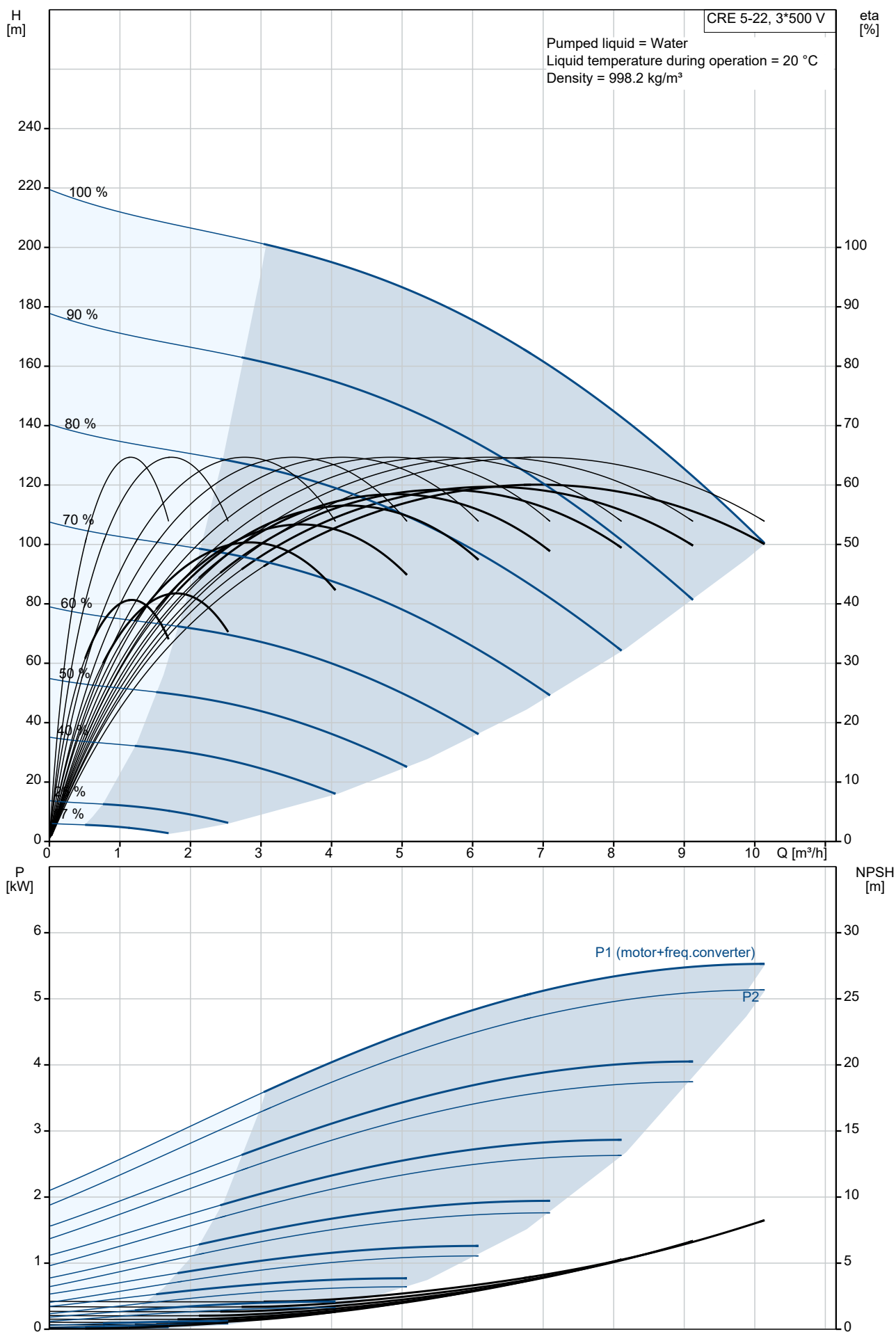
Datasheet



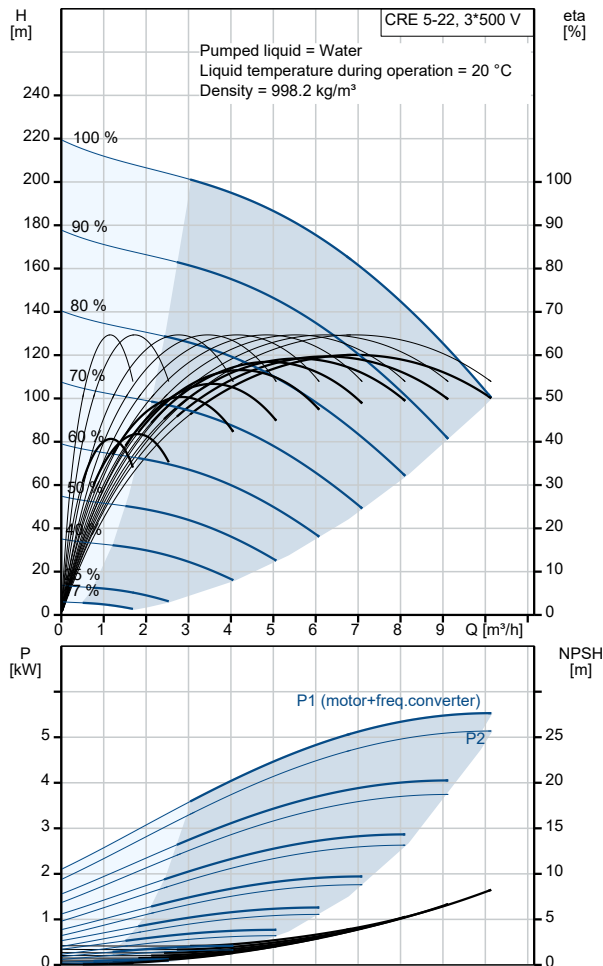
Qty.	Description
1	CRE 5-22 A-FGJ-A-E-HQQE  Product No.: 99072199 Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via combined DIN-ANSI-JIS flanges. The pump is fitted with a 3-phase, fan-cooled, permanent-magnet, synchronous motor. The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2. The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement. An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel provides visual indication of pump status: • "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights) • "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights) • "Alarm": Motor has stopped (flashing red indicator lights). Communication with the pump is possible by means of Grundfos GO Remote (accessory). The remote control enables 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 has a number of inputs and outputs enabling the motor to be used in advanced applications where many inputs and outputs are required: • two dedicated digital inputs • three analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V • 5 V voltage supply to potentiometer and sensor • one analog output, 0-10 V, 0(4)-20 mA • two configurable digital inputs or open-collector outputs • two Pt100/Pt1000 inputs • LiqTec, dry-running protection sensor input • Grundfos Digital Sensor input and output • 24 V voltage supply for sensors • two signal-relay outputs (potential-free contacts) • GENIbus connection • interface for Grundfos CIM fieldbus module. 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: 3526 rpm Rated flow: 6.9 m³/h Rated head: 166.6 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

Qty.	Description
	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: FF265 Electrical data: Motor standard: IEC Motor type: 132SE IE Efficiency class: IE5 Rated power - P2: 5.5 kW Power (P2) required by pump: 5.5 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 10.3-8.20 A Cos phi - power factor: 0.92-0.88 Rated speed: 360-4000 rpm Efficiency: 92.7% Motor efficiency at full load: 92.7 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98971051 Controls: Frequency converter: Built-in Pressure sensor: N Others: Minimum efficiency index, MEI ≥: 0.57 DOE Pump Energy Index CL: 0.00 DOE Pump Energy Index VL: 0.00 Net weight: 71.9 kg Gross weight: 99 kg Shipping volume: 0.488 m³ Danish VVS No.: 386002022 Finnish LVI No.: 4925688 Country of origin: HU Custom tariff no.: 84137075

99072199 CRE 5-22 A-FGJ-A-E-HQQE

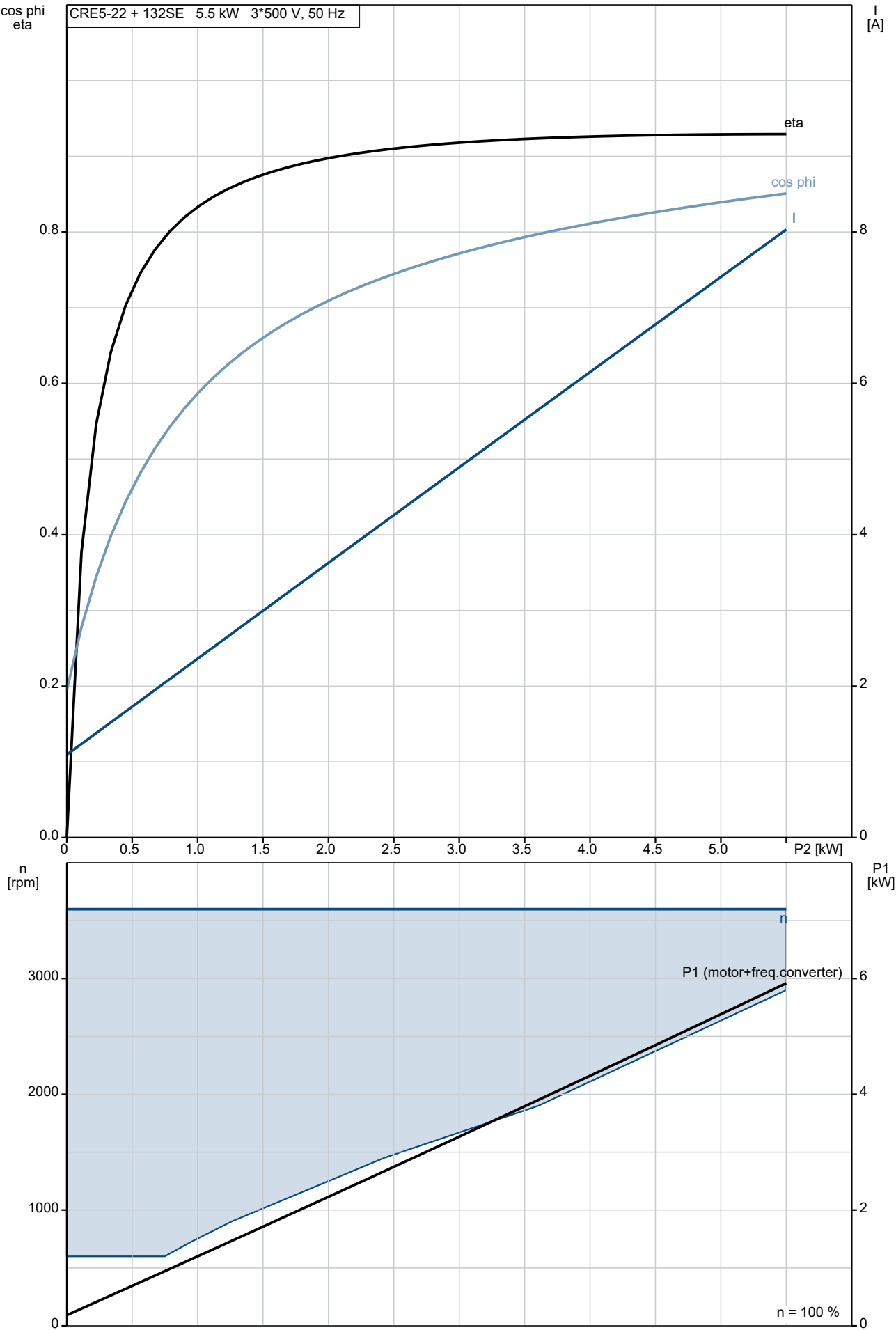


Description	Value
General information:	
Product name:	CRE 5-22 A-FGJ-A-E-HQQE
Product No:	99072199
EAN number:	5712606206605
Technical:	
Pump speed on which pump data are based:	3526 rpm
Rated flow:	6.9 m³/h
Rated head:	166.6 m
Maximum head:	216.8 m
Stages:	22
Impellers:	22
Number of reduced-diameter 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:	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:	FF265
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:	132SE
IE Efficiency class:	IE5
Rated power - P2:	5.5 kW
Power (P2) required by pump:	5.5 kW
Mains frequency:	50 / 60 Hz
Rated voltage:	3 x 380-500 V
Rated current:	10.3-8.20 A
Cos phi - power factor:	0.92-0.88
Rated speed:	360-4000 rpm
Efficiency:	92.7%
Motor efficiency at full load:	92.7 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F

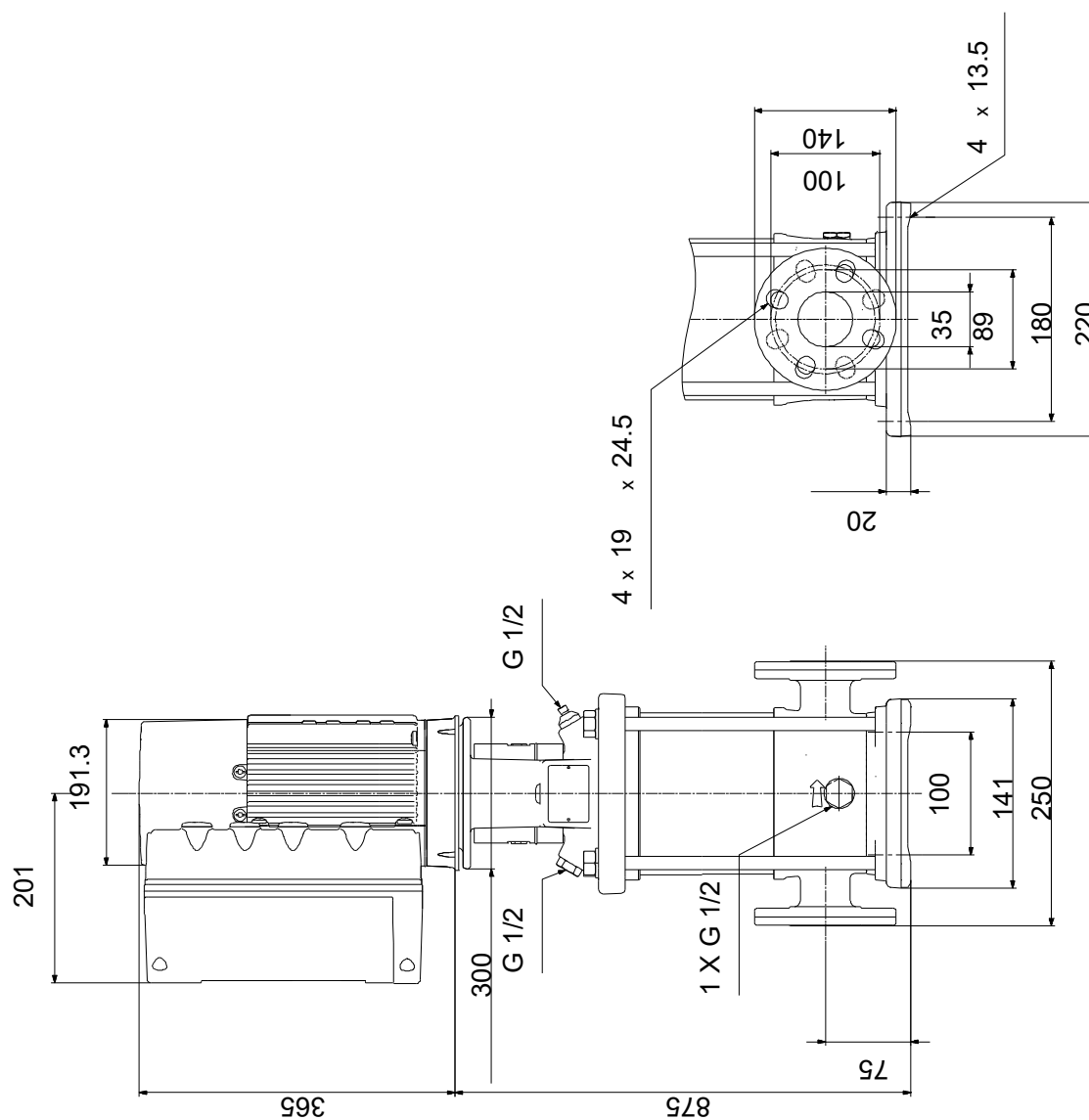


Description	Value
Motor protec:	ELEC
Motor No:	98971051
Controls:	
Control panel:	Standard
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.57
DOE Pump Energy Index CL:	0.00
DOE Pump Energy Index VL:	0.00
Net weight:	71.9 kg
Gross weight:	99 kg
Shipping volume:	0.488 m ³
Config. file no:	99058914
Danish VVS No.:	386002022
Finnish LVI No.:	4925688
Country of origin:	HU
Custom tariff no.:	84137075

99072199 CRE 5-22 A-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 5-22, Product No. 99072199
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	96453592	1	pcs
- 4a	Chamber w. bearing cpl.				4	
	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.				17	
	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				4	
49	Impeller cpl.				22	
51	Shaft, spline, cpl.				1	
64d	Spacing pipe		Internal diameter: 12,85		1	
			Outer diameter: 15,85			
			Length (mm): 4,50			
64c	Clamp, splined		Internal diameter: 8,5		1	
			Outer diameter: 15			
64a	Spacing pipe		Length (mm): 13.00		4	
64	Spacing pipe		Length (mm): 26.0		17	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
69	Spacing pipe		Length (mm): 2.00		1	
-	Kit, coupling			00415065	1	pcs
8	Coupling				1	
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 25			
			Thread: M10			
10	Shaft pin		Diameter: 5		1	
			Length (mm): 26			
-	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		1	
			Material type: EPDM			

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	96455099	1	pcs
- 4a	Chamber w. bearing cpl.				4	
	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				18	
47a	Bearing ring				4	
64c	Clamp, splined		Internal diameter: 8,5		1	
			Outer diameter: 15			
64a	Spacing pipe		Length (mm): 13.00		4	
65	Neck ring retainer				18	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
441 b	Gasket				2	
-	Motor			99987083	1	pcs
-	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	
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	

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr.	Aantal	Eenheid
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)				98869883	1	
156c	Seal ring					1	
156 a	End shield NDE					1	
157	O-ring			Diameter: 62 Material type: NBR Thickness: 3		1	
158	Waved washer					1	
206	Pan head thread forming screw					4	
-	Kit, fan				98869877	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)				98869892	1	
	Glue					0	
156c	Seal ring					1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
156 b	Flange				1	
201c	Drain plug				4	
-	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			99010774	1	
	Terminal				3	
111	Ball bearing	Designation: 6206.2Z.C3.SYN			1	
150	Stator w/housing				1	
151	Fan cover				1	
152	Pan head thread forming screw				4	
152	Pan head thread forming screw				2	
153	Angular-contact bearing				1	
156 d	Seal ring				1	
156c	Seal ring				1	
156 b	Flange				1	
156	Fan				1	
157	O-ring	Diameter: 62			1	
		Material type: NBR				
		Thickness: 3				
158	Waved washer				2	
172	Shaft w/rotor				1	
181	Pan head staybolt				4	
190	Eyebolt				2	
201c	Drain plug				4	
203	Terminal plug				1	
205	Gasket				1	
-	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	

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr.	Aantal	Eenheid
289	Wire clamp					1	
-	Kit, staybolts				98881543	1	
181	Pan head staybolt					4	
111	Ball bearing	Designation: 6206.2Z.C3.SYN			99078033	1	
111	Ball bearing	Designation: 6206.2Z.C3.SYN			97501070	1	
152	Pan head thread forming screw				99834207	4	
152	Pan head thread forming screw				99814578	4	
153	Angular-contact bearing				98412045	1	
153	Angular-contact bearing				98576644	1	
186	Drain plug				99980519	4	
251 d	Pan head thread forming screw				98995460	4	
266	Connector plug 3-pole				99421265	1	
2a	Motor stool				96588195	1	pcs
4a	Chamber w. bearing cpl.				96547652	4	pcs
4a	Chamber w. bearing cpl.				98371274	4	pcs
- 4	Chamber cpl.				96547651	17	pcs
45	Neck ring				96547603	1	
65	Retainer				97911446	1	
4	Chamber cpl.				98371272	17	pcs
5a	Chamber cpl.				98371269	1	pcs
6	Base				96588146	1	pcs
7.a	Combi Slot Torx screw				96886324	4	pcs
7	Coupling guard				96603690	2	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
- 25a	Priming valve cpl.				96588242	1	pcs
38	O-ring				99198815	1	
38	O-ring				99412727	1	
25	Plug				96536013	1	pcs
26	Staybolt	Length (mm): 616			98698637	4	pcs
		Thread: M12					
26	Staybolt	Length (mm): 616			98986335	4	pcs
		Thread: M12					
28	Hex head screw	Length (mm): 45 MM			96620474	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.				96547658	1	pcs
44a	Guide vane cpl.				98681144	1	pcs
47a	Bearing ring				97905743	4	pcs
47a	Bearing ring				96547649	4	pcs
49	Impeller cpl.				96547648	22	pcs
49	Impeller cpl.				98394422	22	pcs
51	Shaft, spline, cpl.				98368528	1	pcs
55	Outer sleeve				98811263	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	4	pcs
64a	Spacing pipe	Length (mm): 13.00			98520104	4	pcs
64	Spacing pipe	Length (mm): 26.0			96536304	17	pcs
66	Wedge lock washer				96536157	1	pcs
66	Wedge lock washer				92575609	1	pcs

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
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