

Inventflow: Grundfos A-partner

Grundfos CRE 5-24 A-FGJ-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cre/grundfos-cre-5-24-a-fgj-a-e-hqqe>

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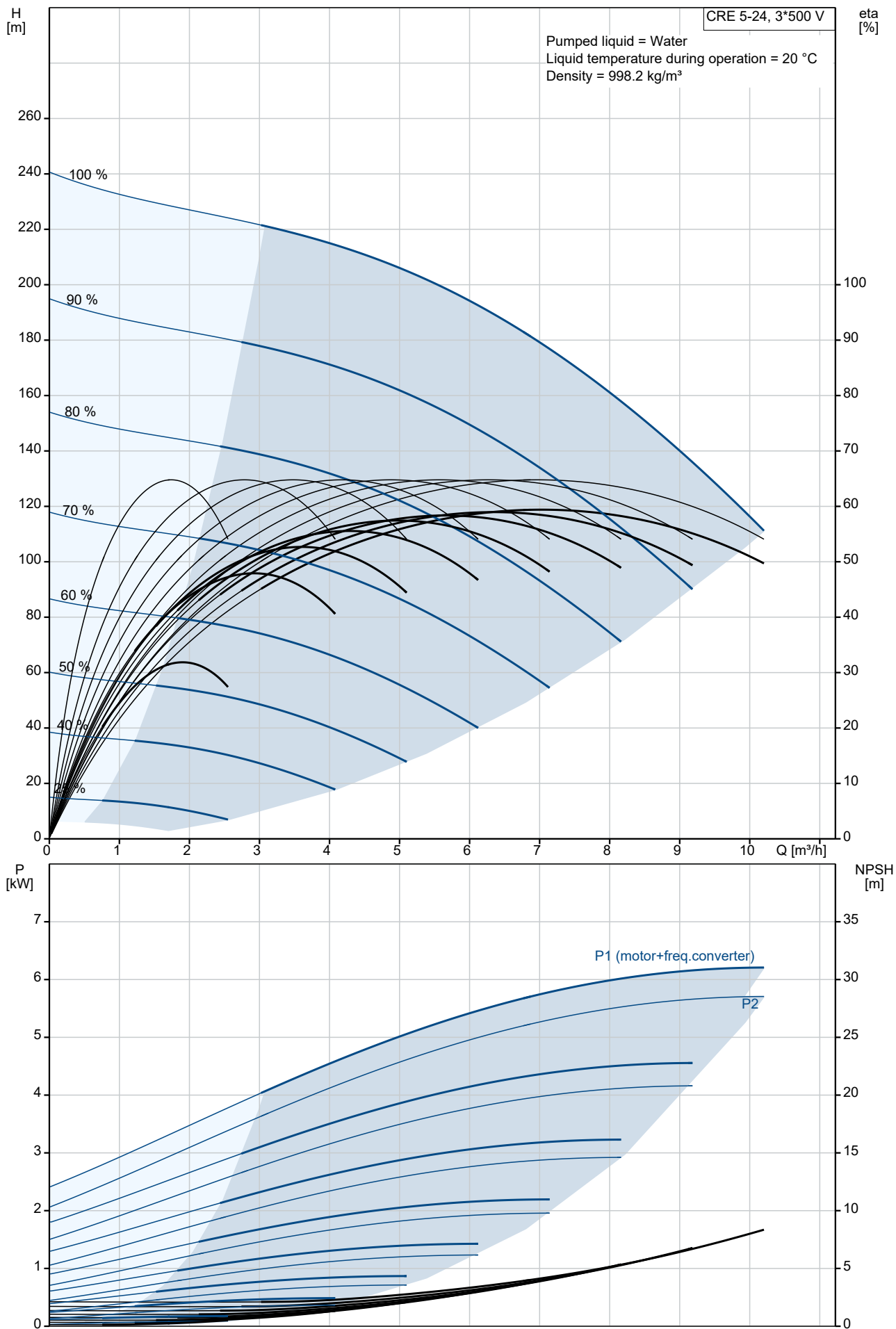
Datasheet



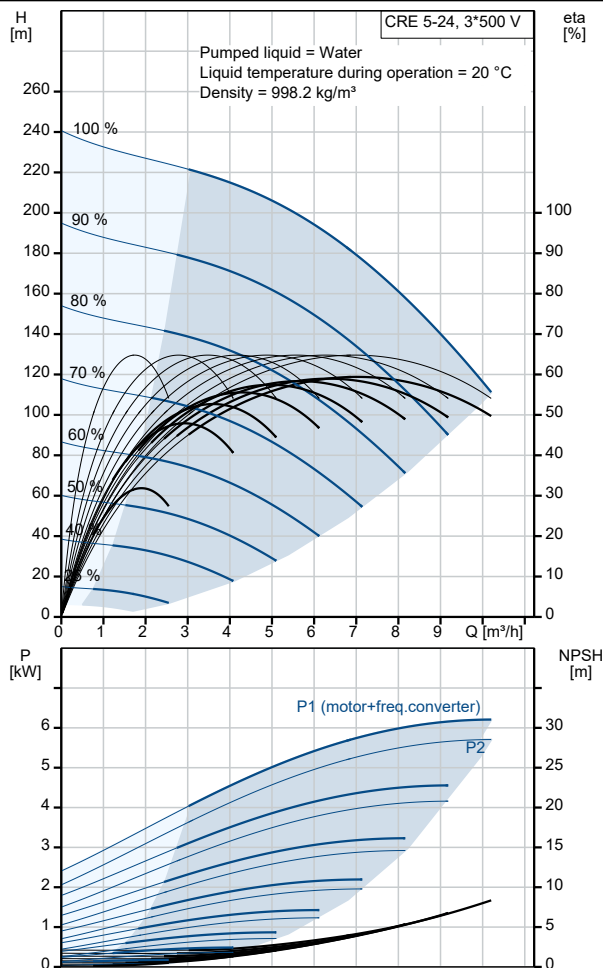
Qty.	Description
1	CRE 5-24 A-FGJ-A-E-HQQE  Product No.: 99075977 Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe 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: 3525 rpm Rated flow: 6.9 m³/h Rated head: 183.6 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: 132SF IE Efficiency class: IE5 Rated power - P2: 7.5 kW Power (P2) required by pump: 7.5 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 14.1-11.2 A Cos phi - power factor: 0.93-0.89 Rated speed: 360-4000 rpm Efficiency: 92.5% Motor efficiency at full load: 92.5 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98971052 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: 82.5 kg Gross weight: 110 kg Shipping volume: 0.488 m³ Danish VVS No.: 386002024 Finnish LVI No.: 4925689 Country of origin: HU Custom tariff no.: 84137075

99075977 CRE 5-24 A-FGJ-A-E-HQQE

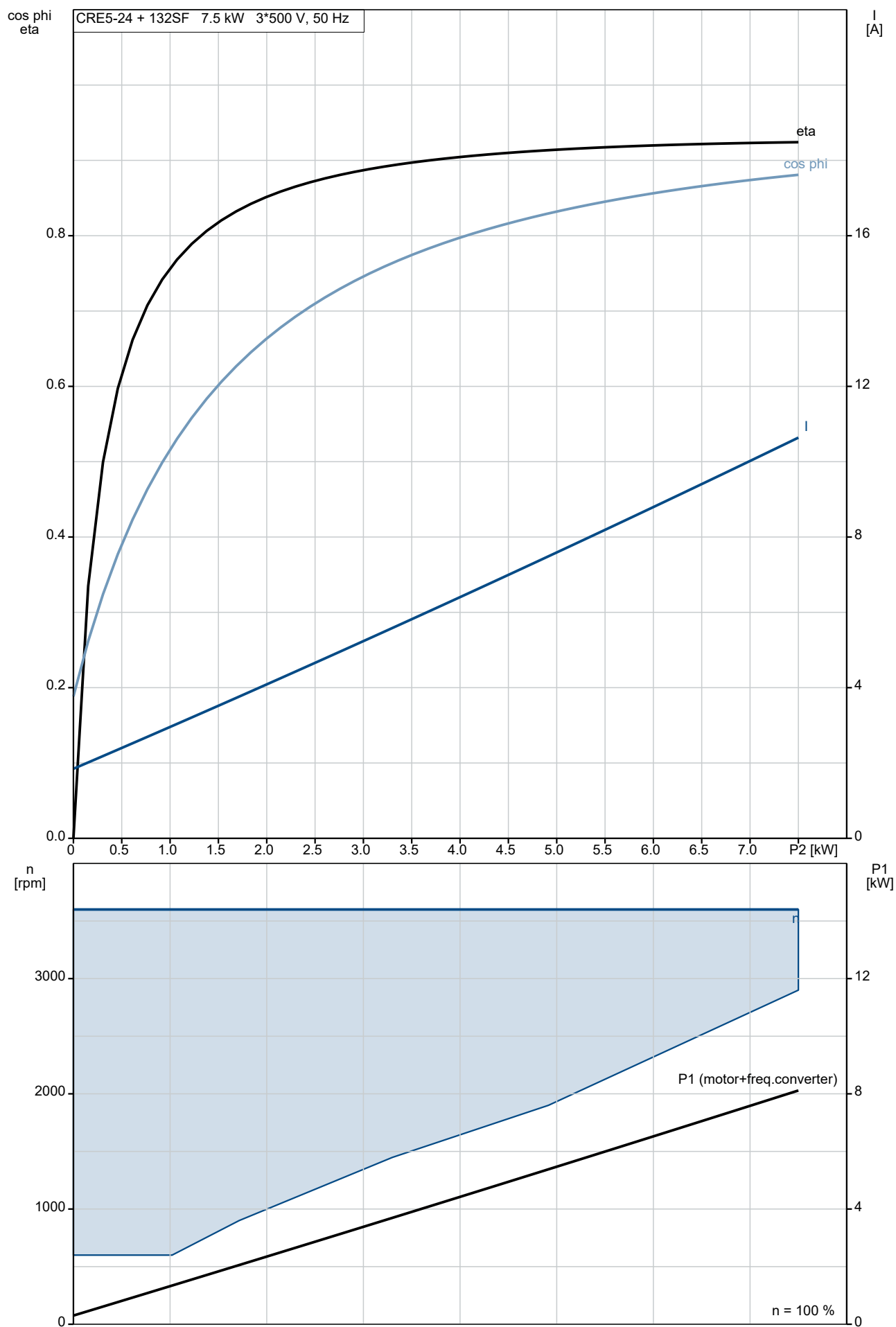


Description	Value		
General information:			
Product name:	CRE 5-24 A-FGJ-A-E-HQQE		
Product No:	99075977		
EAN number:	5712606274468		
Technical:			
Pump speed on which pump data are based:	3525 rpm		
Rated flow:	6.9 m³/h		
Rated head:	183.6 m		
Maximum head:	237.1 m		
Stages:	24		
Impellers:	24		
Number 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:	132SF		
IE Efficiency class:	IE5		
Rated power - P2:	7.5 kW		
Power (P2) required by pump:	7.5 kW		
Mains frequency:	50 / 60 Hz		
Rated voltage:	3 x 380-500 V		
Rated current:	14.1-11.2 A		
Cos phi - power factor:	0.93-0.89		
Rated speed:	360-4000 rpm		
Efficiency:	92.5%		
Motor efficiency at full load:	92.5 %		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		

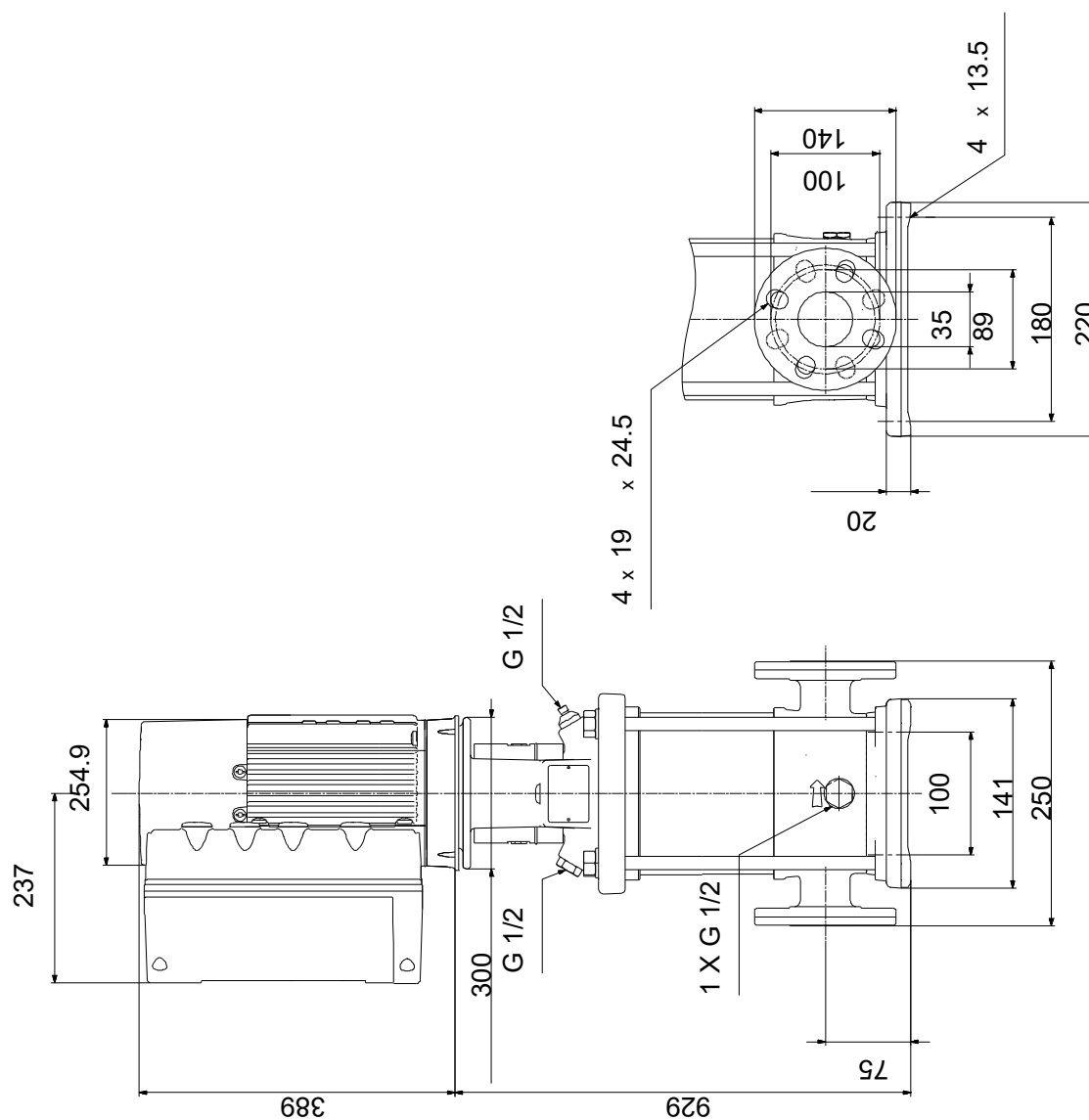


Description	Value
Motor protec:	ELEC
Motor No:	98971052
Controls:	
Control panel:	Standard
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.57
DOE Pump Energy Index CL:	0.00
DOE Pump Energy Index VL:	0.00
Net weight:	82.5 kg
Gross weight:	110 kg
Shipping volume:	0.488 m ³
Config. file no:	99073499
Danish VVS No.:	386002024
Finnish LVI No.:	4925689
Country of origin:	HU
Custom tariff no.:	84137075

99075977 CRE 5-24 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 5-24, Product No. 99075977
Produced After 1633 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
- 80	Kit, chamber stack		Bearing type: SILICON CARBIDE	96453593	1	pcs
- 4a	Chamber w. bearing cpl.				5	
	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.				18	
	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				5	
49	Impeller cpl.				24	
- 51	Shaft, spline, cpl.				1	
	Shaft				1	
69	Stop ring				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		5	
64	Spacing pipe		Length (mm): 26.0		18	
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	

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr.	Aanta	Eenhei
109	O-ring			Diameter: 22,00		1	
				Material type: EPDM			
				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	96455101	1	pcs
- 4a	Chamber w. bearing cpl.					5	
	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					21	
47a	Bearing ring					5	
64c	Clamp, splined			Internal diameter: 8,5		1	
				Outer diameter: 15			
64a	Spacing pipe			Length (mm): 13.00		5	
65	Neck ring retainer					21	
66	Wedge lock washer					1	
67	Lock nut			Thread: M8		1	
441b	Gasket					2	
-	Motor					1	pcs
-	Kit, Blanking plug				99052476	1	
252b	Blind plug					1	
252b	Plug cpl.					5	
-	Kit, cable gland				98736115	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				98878613	1	
251d	Pan head thread forming screw					4	
251b	Control box					1	
251a	Control box cpl.					1	

Pos	Omschrijving	Opmerking tekst - Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
252b	Blind plug				1
252b	Plug cpl.				5
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
268a	Base				2
268	Pan head screw				2
273b	Battery				1
273a	Cross recess Pan head screw				4
273	Funct. Module cpl.				1
275a	Pin				1
277b	Spring				4
277a	Cross recess Pan head screw				1
277	Cover				1
286	Spacer				1
287	Cover				1
288b	Retaining ring				8
288a	Pan head thread forming screw				8
288	Wire clamp				4
289a	Pan head thread forming screw				1
289	Wire clamp				1
290	Control panel, cpl.				1
301	Jumper				1
-	Kit, Control box upper		98869869	1	
251d	Pan head thread forming screw				4
251b	Control box				1
-	Kit, Control panel		98939973	1	
290	Control panel, cpl.				1
-	Kit, cover		98330622	1	
287	Cover				1
-	Kit, end shield (NDE)		98869885	1	
150b	O-ring				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
206	Hex socket head cap screw				4
207b	Nut				4
-	Kit, fan		98869879	1	
152	Pan head thread forming screw				4
156c	Seal ring				1
156	Fan				1

Pos	Omschrijving	Opmerking tekst - Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
-	Kit, fan cover		99957566	1	
151	Fan cover				1
152	Pan head thread forming screw				4
-	Kit, flange (DE)		98869905	1	
	Glue				0
150b	O-ring				1
155a	Bearing cover				1
156c	Seal ring				1
156b	Flange				1
185	Hex socket head cap screw				4
201c	Drain plug				4
208b	Nut				4
208a	Gasket				3
208	Hex socket head cap screw	Designation: DIN912			3
		Length (mm): 40			
		Thread: M5			
-	Kit, Funct. module		98334777	1	
273a	Cross recess Pan head screw				5
273	Funct. Module cpl.				1
275a	Pin				1
286	Spacer				1
-	Kit, Isolation cover		98859523	1	
277b	Spring				4
277a	Cross recess Pan head screw				1
277	Cover				1
-	Kit, Lower part cpl.		98859573	1	
178	Pan head thread forming screw				4
251a	Control box cpl.				1
275a	Pin				1
277a	Cross recess Pan head screw				1
277	Cover				1
-	Kit, motor		99010792	1	
	Hex socket head cap screw				2
	Glue				0
	Terminal				6
66a	Washer				2
111	Ball bearing	Designation: 6206.2Z.C3.SYN			1
118a	Hex socket head cap screw				4
150b	O-ring				2
150	Stator w/housing				1
151	Fan cover				1
152	Pan head thread forming screw				4
153	Angular-contact bearing				1
155a	Bearing cover				1
156d	Gasket				1
156c	Seal ring				1
156c	Seal ring				1

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr.	Aanta	Eenhei
156b	Flange						1
156. a	End shield NDE						1
156	Fan						1
157	O-ring			Diameter: 62			1
				Material type: NBR			
				Thickness: 3			
158	Waved washer						2
172	Shaft w/rotor						1
185	Hex socket head cap screw						4
186	Drain plug						4
187	Retaining ring						1
203	Terminal plug						1
208b	Nut						4
208b	Nut						4
208a	Gasket						3
208	Hex socket head cap screw			Designation: DIN912			3
				Length (mm): 40			
				Thread: M5			
289a	Pan head thread forming screw						2
-	Kit, plug				99028677	1	
152	Pan head thread forming screw						2
203	Terminal plug						1
205	Gasket						1
-	Kit, screws				99028725	1	
268a	Base						2
268	Pan head screw						2
288b	Retaining ring						8
288a	Pan head thread forming screw						8
288	Wire clamp						4
289a	Pan head thread forming screw						1
289	Wire clamp						1
-	Kit, staybolts				98881543	1	
181	Pan head staybolt						4
	Lifting device				99140040	2	
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	
251d	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	5	pcs
4a	Chamber w. bearing cpl.				98371274	5	pcs
- 4	Chamber cpl.				96547651	18	pcs
45	Neck ring				96547603	1	
65	Retainer				97911446	1	
4	Chamber cpl.				98371272	18	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

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
10	Shaft pin		Length (mm): 26 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): 670	98928569	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	5	pcs
47a	Bearing ring			96547649	5	pcs
49	Impeller cpl.			96547648	24	pcs
49	Impeller cpl.			98394422	24	pcs
51	Shaft, spline, cpl.			96588238	1	pcs
55	Outer sleeve			98811250	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	5	pcs
64a	Spacing pipe		Length (mm): 13.00	98520104	5	pcs
64	Spacing pipe		Length (mm): 26.0	96536304	18	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