

Inventflow: Grundfos A-partner

Grundfos CRE 10-9 A-FJ-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cre/grundfos-cre-10-9-a-fj-a-e-hqqe>

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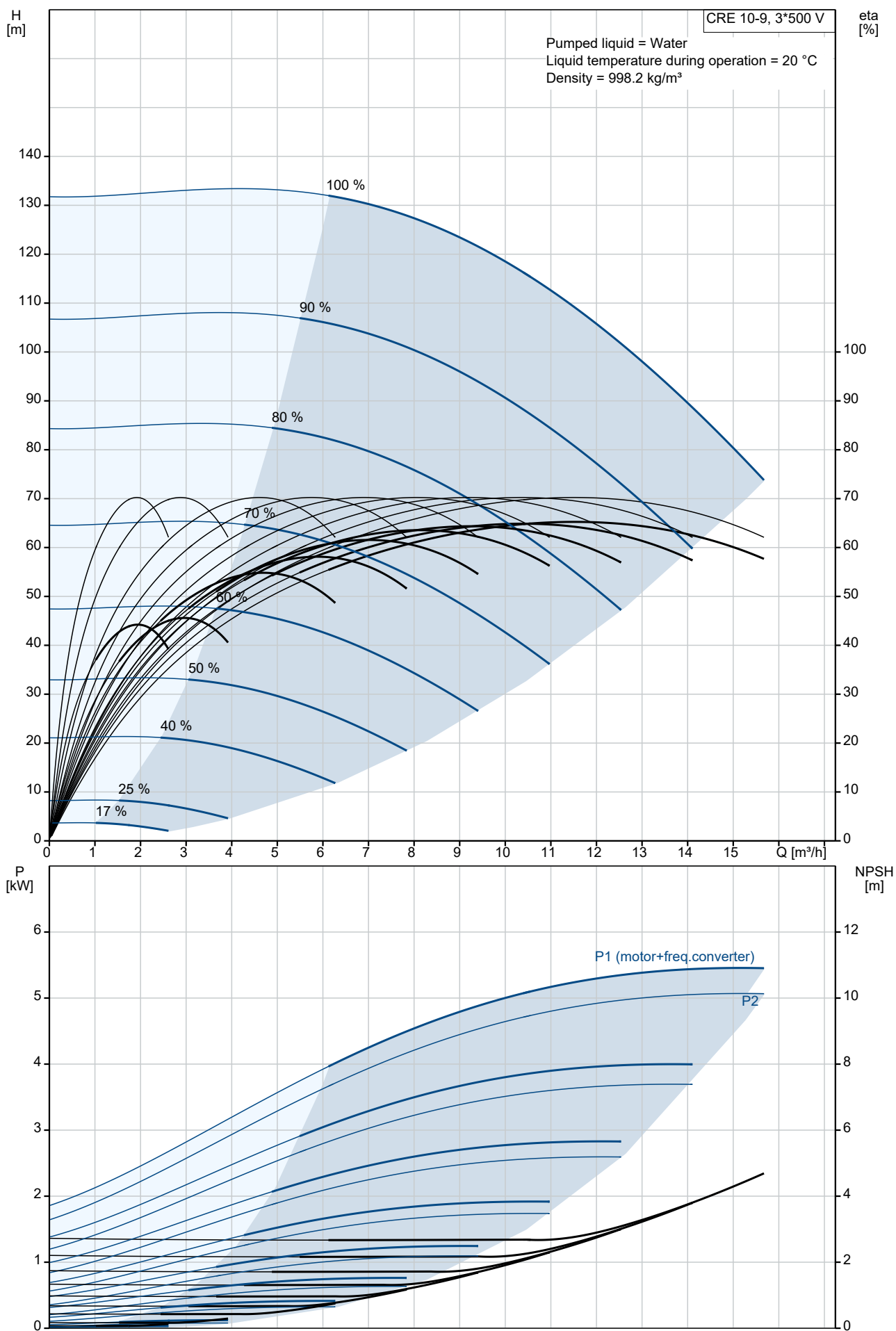
Datasheet



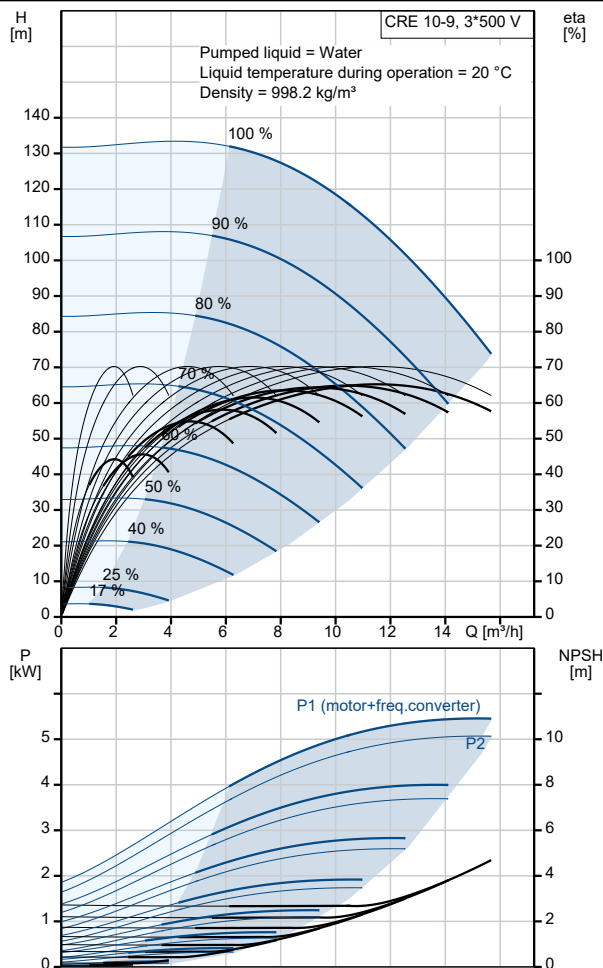
Qty.	Description
1	CRE 10-9 A-FJ-A-E-HQQE  Product No.: 99071780 Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via combined DIN-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: 12.1 m³/h Rated head: 107.1 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: 16 bar Max pressure at stated temp: 16 bar / 120 °C 16 bar / -20 °C Type of connection: DIN / JIS Size of inlet connection: DN 40 Size of outlet connection: DN 40 Pressure rating for connection: PN 25 Flange rating inlet: 300 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 ≥: 0.70 DOE Pump Energy Index CL: 0.00 DOE Pump Energy Index VL: 0.00 Net weight: 85 kg Gross weight: 113 kg Shipping volume: 0.37 m³ Danish VVS No.: 386003009 Finnish LVI No.: 4925657 Country of origin: HU Custom tariff no.: 84137075

99071780 CRE 10-9 A-FJ-A-E-HQQE

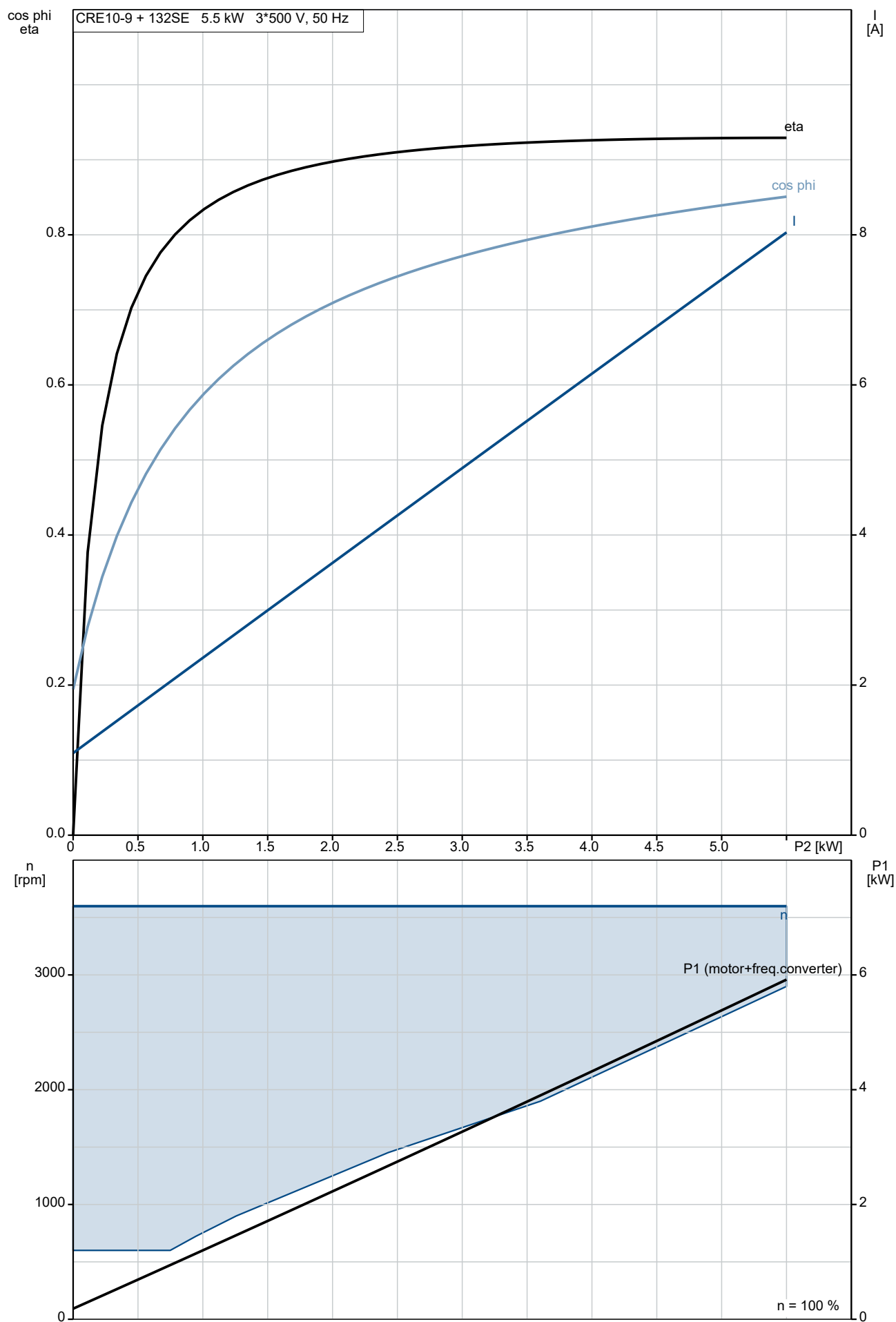


Description	Value		
General information:			
Product name:	CRE 10-9 A-FJ-A-E-HQQE		
Product No:	99071780		
EAN number:	5712606197774		
Technical:			
Pump speed on which pump data are based:	3526 rpm		
Rated flow:	12.1 m³/h		
Rated head:	107.1 m		
Maximum head:	133 m		
Stages:	9		
Impellers:	9		
Number 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:	16 bar		
Max pressure at stated temp:	16 bar / 120 °C		
Max pressure at stated temp:	16 bar / -20 °C		
Type of connection:	DIN / JIS		
Size of inlet connection:	DN 40		
Size of outlet connection:	DN 40		
Pressure rating for connection:	PN 25		
Flange rating inlet:	300 lb		
Flange size for motor:	FF265		
Connect code:	FJ		
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		

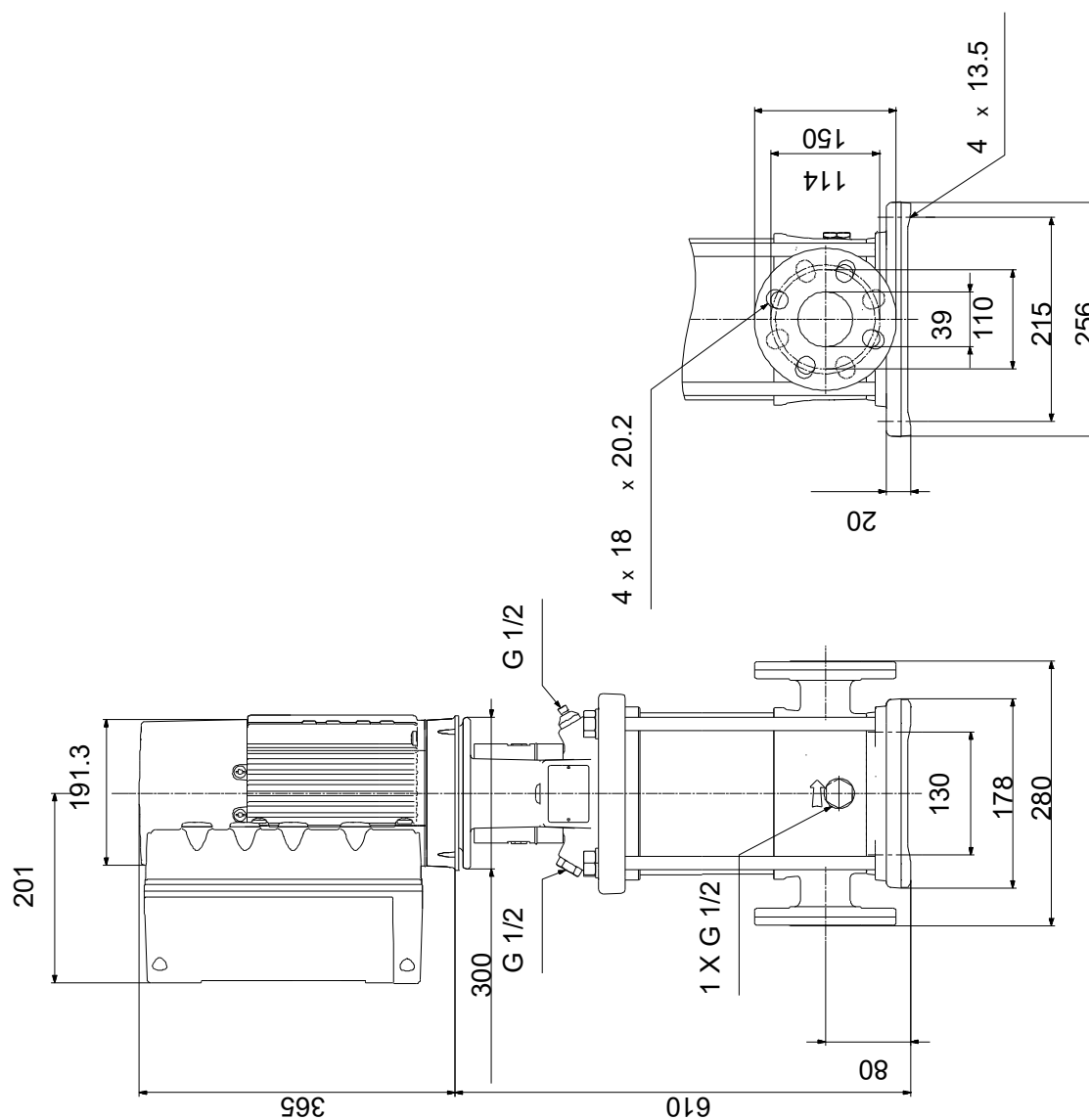


Description	Value
Motor protec:	ELEC
Motor No:	98971051
Controls:	
Control panel:	Standard
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
DOE Pump Energy Index CL:	0.00
DOE Pump Energy Index VL:	0.00
Net weight:	85 kg
Gross weight:	113 kg
Shipping volume:	0.37 m ³
Config. file no:	99058972
Danish VVS No.:	386003009
Finnish LVI No.:	4925657
Country of origin:	HU
Custom tariff no.:	84137075

99071780 CRE 10-9 A-FJ-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 10-9, Product No. 99071780
Produced After 1633 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
-	Kit, chamber stack			96508411	1	pcs
- 80	Chamber stack		Bearing type: SIC		1	
- 3	Top intermediate chamber				1	
	Spare, turbulence optimizer KP					
	Guide vane					
- 4a	Intermediate chamber cpl.				2	
	Guide cup					
	Bearing plate					
	Guide vane					
3	Intermediate chamber					
45	Neck ring cpl.					
47	Bearing bush					
65	Retainer					
- 4	Intermediate chamber cpl.				6	
	Sand Lifter					
	Guide cup					
	Front plate					
	Guide vane					
3	Intermediate chamber					
45	Neck ring cpl.					
65	Retainer					
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	
	Guide cup					
	Inlet part					
45	Neck ring cpl.					
65	Retainer					
47a	Bearing ring				2	
49	Impeller cpl.				9	
- 51	Shaft, spline, cpl.				1	
	Bar					
62	Stop ring					
64c	Spacer				1	
64a	Spacing bush		Length (mm): 9.00		2	
64.d	Spacer				2	
64	Spacing pipe		Length (mm): 29.05		6	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
69	Spacing bush		Length (mm): 18.00		1	
-	Kit, coupling			96511351	1	pcs
	Adjusting fork				1	
- 8	Coupling				1	
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 25			
			Thread: M10			
10a	Coupling half				1	
10	Shaft pin		Diameter: 5		1	
			Length (mm): 26			
-	Kit, coupling guard			96509613	1	pcs
7.a	Combi Slot Torx screw				4	
7	Coupling guard				2	
-	Kit, gaskets			96509609	1	pcs
	Gasket				2	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
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			
441 b	Gasket		Internal diameter: 49		2	
			Outer diameter: 92			
			Thickness: 2			
-	Kit, plug			96511311	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		Material type: SIC	96511922	1	pcs
- 4a	Intermediate chamber cpl.				2	
	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.				12	
47a	Bearing ring				2	
62	Retaining ring				1	
64c	Spacer				1	
64a	Spacing bush		Length (mm): 9.00		2	
64.d	Spacer				2	
65	Retainer				12	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
-	Motor			99987083	1	pcs
-	Kit, Blanking plug			99052475	1	
252 b	Plug cpl.				4	
252 b	Blanking plug				1	
-	Kit, cable gland			98736096	1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
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
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	
156 c	Seal ring					1

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
156 a	End shield NDE				1	
157	O-ring		Diameter: 62		1	
			Material type: NBR			
			Thickness: 3			
158	Waved washer				1	
206	Pan head thread forming screw				4	
-	Kit, fan			98869877	1	
152	Pan head thread forming screw				4	
156 c	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	
156 c	Seal ring				1	
156 b	Flange				1	
201 c	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	
156 c	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	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
190	Eyebolt				2	
201 c	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	
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	
1	Flange			99104283	1	pcs
2a	Pump head			98770239	1	pcs
3	Top intermediate chamber			96538970	1	pcs
3	Top intermediate chamber			98415149	1	pcs
4a	Intermediate chamber cpl.			96538850	2	pcs
4a	Intermediate chamber cpl.			98371073	2	pcs
- 4	Intermediate chamber cpl.			96538818	6	pcs
3	Intermediate chamber			96536045	1	
3	Intermediate chamber			98415145	1	
45	Neck ring cpl.			96538856	1	
65	Retainer			98354675	1	
4	Intermediate chamber cpl.			98371071	6	pcs
6	Base			98681110	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
25a	Drain plug			96535881	1	pcs
26a	Strap cpl.			98984430	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			98450265	4	pcs
32	Washer	Designation: DIN 125 A		98923051	4	pcs

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
			Internal diameter: 17			
			Outer diameter: 30			
			Thickness: 3			
36	Hex nut		Thread: M16	96620480	4	pcs
37	O-ring			96538857	2	pcs
38	O-ring			99198791	1	pcs
38	O-ring			99198815	2	pcs
38	O-ring			99412727	2	pcs
44b	Inlet part			98814595	1	pcs
44a	Inlet part cpl.			97973678	1	pcs
47a	Bearing ring			96538795	2	pcs
49	Impeller cpl.			96538796	9	pcs
49	Impeller cpl.			98394441	9	pcs
51	Shaft, spline, cpl.			98368613	1	pcs
55	Outer sleeve			98450263	1	pcs
60	Spring			96538963	4	pcs
64c	Spacer			97980241	1	pcs
64a	Spacing bush		Length (mm): 9.00	96538950	2	pcs
64.d	Spacer			97516851	2	pcs
64	Spacing pipe		Length (mm): 29.05	96535101	6	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 bush		Length (mm): 18.00	96538948	1	pcs
76a	Rivet			96620489	1	pcs
105	Shaft seal		Material type: HQQE	96538914	1	pcs