

Inventflow: Grundfos A-partner

Grundfos CRE 32-1 A-F-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cre/grundfos-cre-32-1-a-f-a-e-hqqe>

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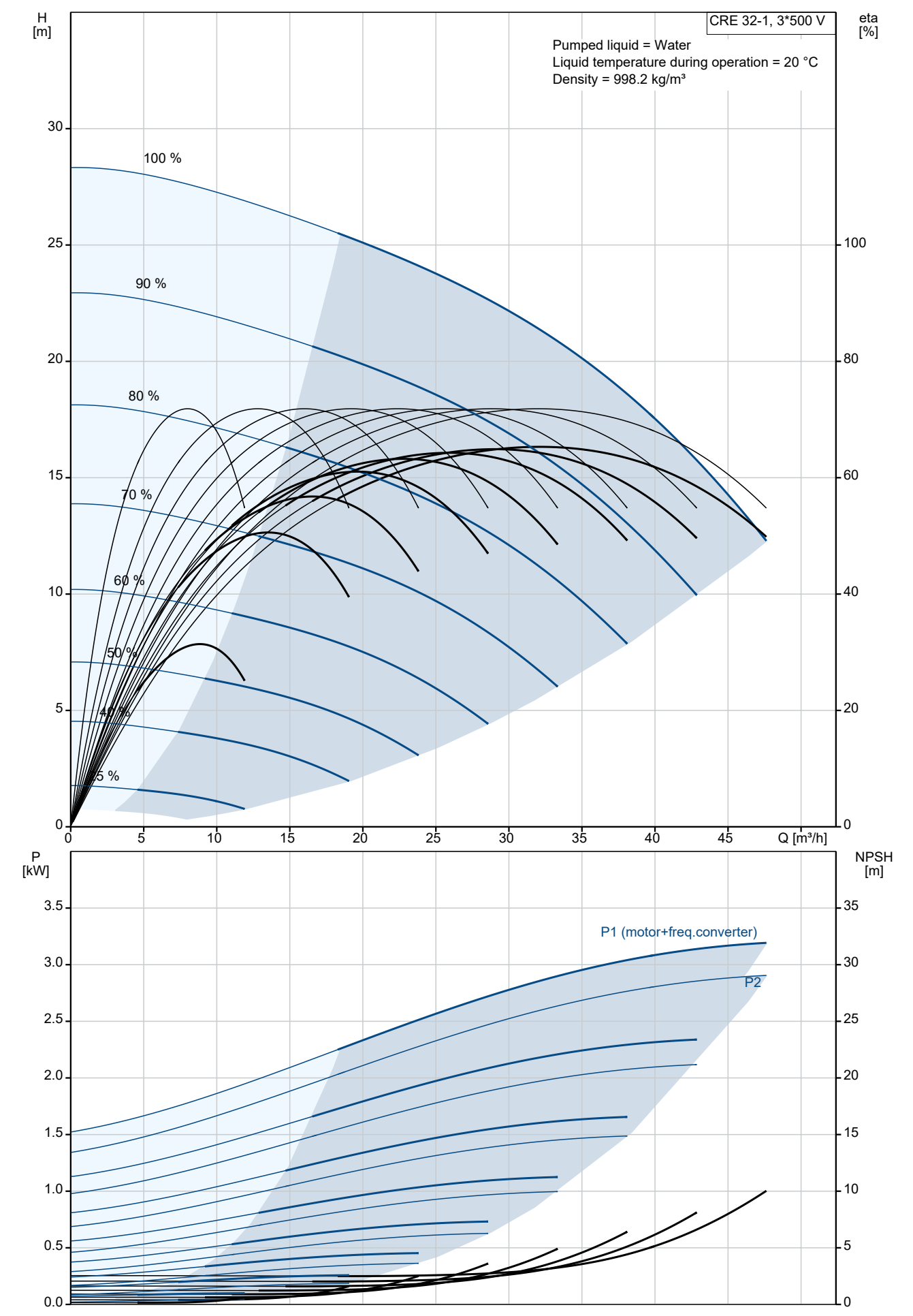
Datasheet



Qty.	Description
1	CRE 32-1 A-F-A-E-HQQE  Product No.: 99071938 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 DIN 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: -30 .. 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: 36 m³/h Rated head: 20.6 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 1563 EN-GJS-500-7

Qty.	Description
	ASTM A536 80-55-06 Impeller: Stainless steel EN 1.4301 AISI 304 Bearing: SIC Support bearing: Graflon Installation: Maximum ambient temperature: 50 °C Maximum operating pressure: 16 bar Max pressure at stated temp: 16 bar / 120 °C 16 bar / -30 °C Type of connection: DIN Size of inlet connection: DN 65 Size of outlet connection: DN 65 Pressure rating for connection: PN 40 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 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: 71.6 kg Gross weight: 94.5 kg Shipping volume: 0.309 m³ Danish VVS No.: 386006001 Finnish LVI No.: 4925706 Country of origin: DK Custom tariff no.: 84137075

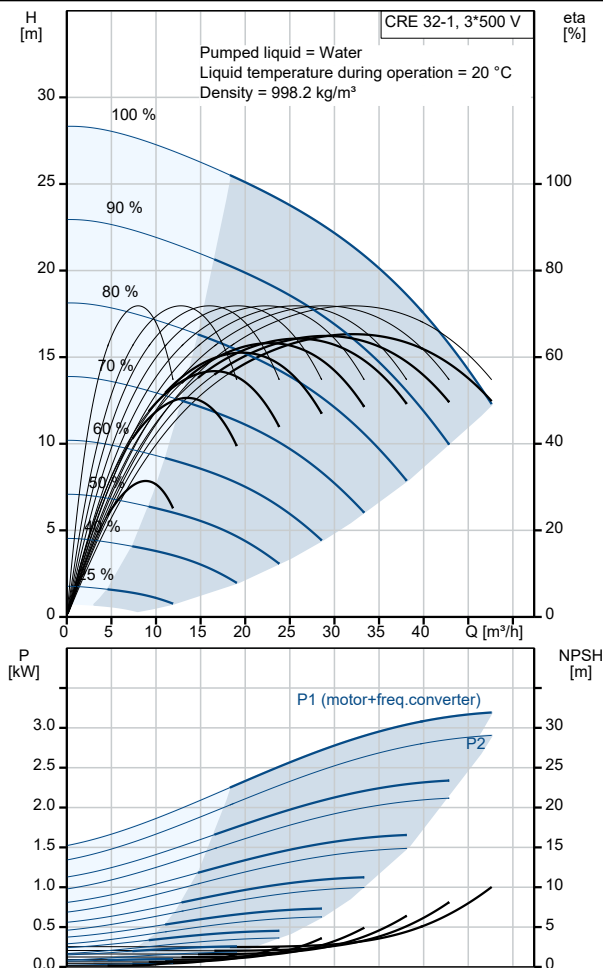
99071938 CRE 32-1 A-F-A-E-HQQE



Description	Value
General information:	
Product name:	CRE 32-1 A-F-A-E-HQQE
Product No:	99071938
EAN number:	5712606200696
Technical:	
Pump speed on which pump data are based:	3514 rpm
Rated flow:	36 m³/h
Rated head:	20.6 m
Maximum head:	29 m
Stages:	1
Impellers:	1
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:	B
Materials:	
Base:	Cast iron
Base:	EN 1563 EN-GJS-500-7
Base:	ASTM A536 80-55-06
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI 304
Material code:	A
Code for rubber:	E
Bearing:	SIC
Support bearing:	Graflon
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 / -30 °C
Type of connection:	DIN
Size of inlet connection:	DN 65
Size of outlet connection:	DN 65
Pressure rating for connection:	PN 40
Flange size for motor:	FT130
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-30 .. 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

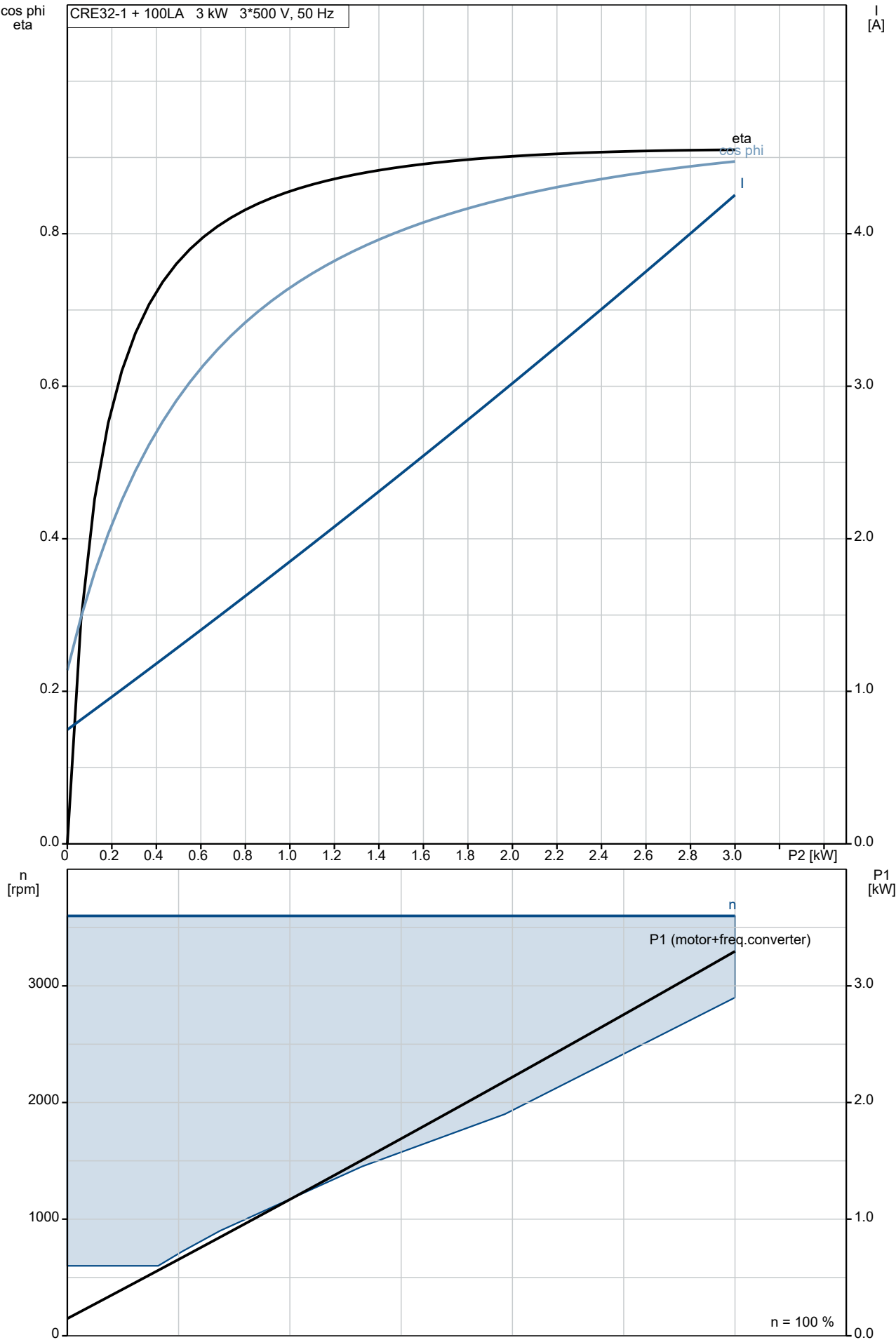
CRE 32-1, 3*500 V

Pumped liquid = Water
Liquid temperature during operation = 20 °C
Density = 998.2 kg/m³

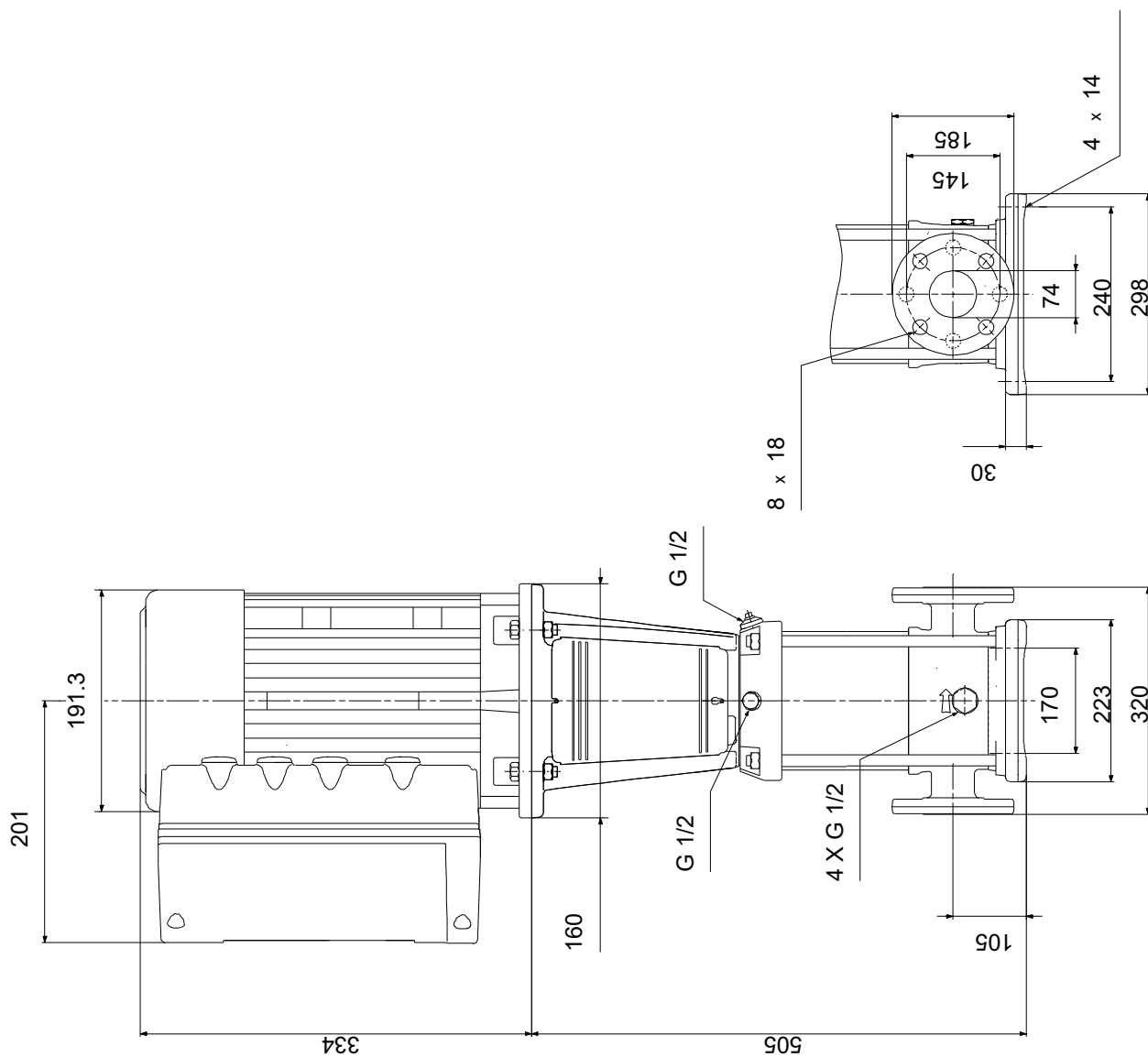


Description	Value
Motor protec:	ELEC
Motor No:	98971049
Controls:	
Control panel:	Standard
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
DOE Pump Energy Index CL:	0.00
DOE Pump Energy Index VL:	0.00
Net weight:	71.6 kg
Gross weight:	94.5 kg
Shipping volume:	0.309 m ³
Config. file no:	99059222
Danish VVS No.:	386006001
Finnish LVI No.:	4925706
Country of origin:	DK
Custom tariff no.:	84137075

99071938 CRE 32-1 A-F-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 32-1, Product No. 99071938
Produced After 1633 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Base			96547299	1	pcs
6	Base				1	
-	Kit, chamber stack			96416274	1	pcs
- 80	Chamber stack				1	
- 3	Upper chamber cpl.				1	
	Cone					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Guide					
47	Bearing					
26c	Washer		Designation: DIN 125A		2	
			Thickness: 1,6			
26b	Hex socket head cap screw				2	
26.a	Strap cpl.				2	
- 44	Suction interconnector cpl.				1	
	Suction interconnector					
45	Seal ring					
46	Neck ring					
65	Top f/neck ring					
- 47a	Bearing cpl.				1	
	Driver					
	Holder					
	Disc spring					
	Bearing ring					
47f	Hairpin clip					
- 49e	Impeller cpl.				1	
48	Nut					
49b	Split cone					
- 49	Impeller					
	Impeller hub					
49c	Wear ring					
51	Shaft				1	
-	Kit, chambers			98633752	1	pcs
- 3	Upper chamber cpl.				1	
	Cone				1	
	Spare, turbulence optimizer KP				1	
	Spare, turbulence optimizer KP				1	
	Spare, turbulence optimizer KP				1	
	Spare, turbulence optimizer KP				1	
	Guide				10	
47	Bearing				1	
- 47a	Bearing cpl.				1	
	Driver				1	
	Holder				1	
	Disc spring				1	
	Bearing ring				1	
47f	Hairpin clip				1	
-	Kit, coupling			96416590	1	pcs
	Adjusting fork				1	
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 25			
			Thread: M10			
10a	Coupling				1	
-	Kit, coupling guard			96505134	1	pcs
7a	Socket button head screw				4	
7	Coupling guard				2	
-	Kit, cover			98832448	1	pcs

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
58a	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 25			
			Thread: M10			
58	Cover				1	
-	Kit, gaskets			96416597	1	pcs
	Adjusting fork				1	
37	O-ring				2	
38	O-ring				2	
38	O-ring				4	
60	Spring				4	
109	O-ring				1	
110	O-ring		Diameter: 21,2		1	
			Material type: EPDM			
			Thickness: 3,55			
-	Kit, impeller			98497465	1	pcs
48	Nut				1	
48	Nut				1	
49b	Split cone				1	
-	49	Impeller			1	
		Impeller hub			1	
49c		Wear ring			1	
-	Kit, plug			96505136	1	pcs
-	18	Air vent screw			1	
		Spindle			1	
		Plug			1	
25	Plug				4	
25	Plug				1	
38	O-ring				2	
38	O-ring				4	
38	O-ring		Diameter: 16,3		2	
			Material type: FKM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3		4	
			Material type: FKM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3		6	
			Material type: FKM			
			Thickness: 2,4			
-	Kit, shaft seal HQQE			96525458	1	pcs
		Grinding device			1	
-	105	Shaft seal	Material type: HQQE		1	
		Adjusting fork			1	
109	O-ring				1	
110	O-ring		Diameter: 21,5		1	
			Material type: EPDM			
			Thickness: 4,25			
-	Kit, wear parts			98497130	1	pcs
45	Seal ring				2	
47d	Lock ring				2	
47c	Bush				1	
49c	Wear ring				2	
65	Top f/neck ring				2	
-	Motor			99879896	1	pcs
-	Kit, Ball bearing			98881508	1	
99	Retaining ring				1	
153	Ball bearing				1	
154	Ball bearing				1	
156d	Seal ring				1	
156c	Seal ring				1	
157	O-ring		Diameter: 52		1	
			Material type: NBR			
			Thickness: 3			
158	Waved washer				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
188	Retaining ring				1	
-	Kit, Blanking plug			99052475	1	
252b	Plug cpl.				4	
252b	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	
251d	Pan head thread forming screw				4	
251b	Control box				1	
251a	Control box cpl.				1	
252b	Plug cpl.				4	
252b	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	
268a	Base				1	
268	Pan head screw				1	
273b	Battery				1	
273a	Cross recess Pan head screw				3	
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			98869865	1	
251d	Pan head thread forming screw				4	
251b	Control box				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	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	
156a	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	
-	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	
156b	Flange				1	
201c	Drain plug				3	
-	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			98859508	1	
277b	Spring				4	
277a	Cross recess Pan head screw				1	
277	Cover				1	
-	Kit, Lower part cpl.			98859571	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			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	
156d	Gasket				1	
156c	Seal ring				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
156c	Seal ring				1	
156b	Flange				1	
156a	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	
203	Terminal plug				1	
289a	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	
268a	Base				1	
268	Pan head screw				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	
-	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	
159a	Seal ring			97689816	1	
186	Drain plug			99980519	3	
251d	Pan head thread forming screw			98995460	4	
266	Connector plug 3-pole			99421265	1	
1a	Motor stool			96587723	1	pcs
2	Pump head			96587722	1	pcs
- 3	Upper chamber cpl.			99262799	1	pcs
47	Bearing			99964632	1	
47	Bearing			99928986	1	
- 4a	Intermediate chamber cpl.			99262755	1	pcs
- 45a	Neck ring cpl.			98686545	1	
45	Seal ring			97915217	1	
65	Top f/neck ring			96534931	1	
+ 4a	Intermediate chamber cpl.			99363114	1	pcs
- 6	Base cpl.	Rubber type: EPDM		96587692	1	pcs
25	Plug			96536013	4	
37	O-ring			96536149	1	
38	O-ring			99198815	4	
38	O-ring			99412727	4	
7a	Socket button head screw			96549696	4	pcs
7	Coupling guard			96603300	2	pcs
9	Hex socket head cap screw	Designation: DIN 912		99789390	4	pcs
		Length (mm): 25				

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
			Thread: M10			
+ 18	Air vent screw			96547461	1	pcs
+ 18	Air vent screw			95061351	1	pcs
25	Plug			96536013	1	pcs
26c	Washer	Designation: DIN 125A		99262704	2	pcs
		Thickness: 1,6				
26c	Washer	Designation: DIN 125A		99886930	2	pcs
		Thickness: 1,6				
26b	Hex socket head cap screw			98931380	2	pcs
26.a	Strap cpl.			98983834	2	pcs
26	Staybolt	Length (mm): 216		98976693	4	pcs
		Thread: M16				
28a	Hex head screw	Length (mm): 20		99932722	4	pcs
		Thread: M8				
28	Hex socket head cap screw	Designation: DIN 912		96536147	4	pcs
		Length (mm): 50				
		Thread: M10				
32	Washer	Designation: DIN 125 A		98923051	4	pcs
		Internal diameter: 17				
		Outer diameter: 30				
		Thickness: 3				
36	Hex nut	Thread: M16		96620480	4	pcs
37	O-ring			96536149	1	pcs
38	O-ring			99198815	2	pcs
38	O-ring			99412727	2	pcs
- 44	Suction interconnector cpl.			96547328	1	pcs
45	Seal ring			97915217	1	
65	Top f/neck ring			96534931	1	
- 47a	Bearing cpl.			99270646	1	pcs
47f	Hairpin clip			99908983	1	
49b	Split cone			96536010	1	pcs
49c	Wear ring			96534930	1	pcs
51	Shaft			98506272	1	pcs
55	Outer sleeve	Outer diameter: 197,0		99049372	1	pcs
		Length (mm): 95,5				
58	Cover			98893158	1	pcs
60	Spring			96536032	4	pcs
- 105	Shaft seal	Material type: HQQE		96984086	1	pcs
	Adjusting fork			96587896	1	
109	O-ring			99651108	1	
109	O-ring			96547586	1	
+ 105	Shaft seal	Material type: HQQE		96984070	1	pcs
440b	Lock ring			96534918	1	pcs