

Inventflow: Grundfos A-partner

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

Find the pump here:

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

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Datasheet

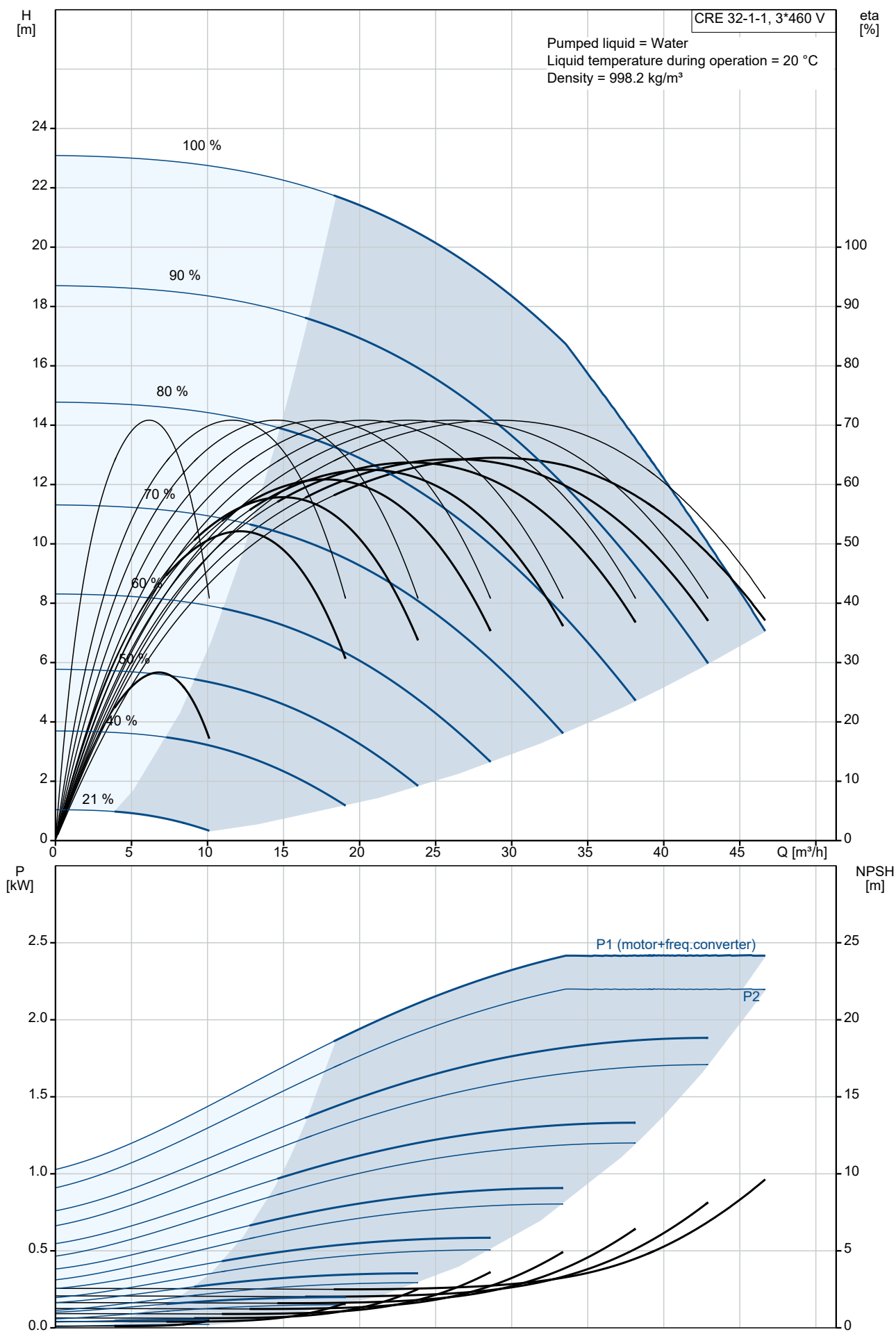


Qty.	Description
1	CRE 32-1-1 N-F-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 98390933 Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers 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 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,

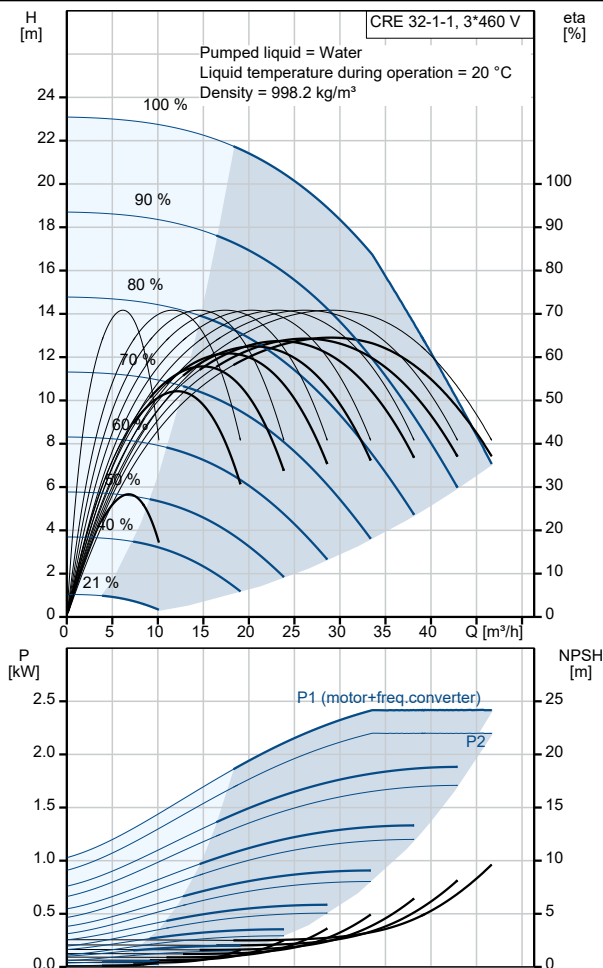
Qty.	Description
	- RS485 GENIbus. Controls: Frequency converter: Built-in Pressure sensor: Y Liquid: Pumped liquid: Water Liquid temperature range: -30 .. 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Technical: Pump speed on which pump data are based: 3501 rpm Rated flow: 36 m³/h Rated head: 15.6 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 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: FT115 Electrical data: Motor standard: IEC Motor type: 90LD IE Efficiency class: IE5 Rated power - P2: 2.2 kW Power (P2) required by pump: 2.2 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 4.15-3.40 A Cos phi - power factor: 0.93-0.87 Rated speed: 360-4000 rpm Efficiency: 90.1% Motor efficiency at full load: 90.1 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98190193 Others: Minimum efficiency index, MEI ≥: 0.70 DOE Pump Energy Index CL: 0.00 DOE Pump Energy Index VL: 0.00 Net weight: 62.5 kg

Qty.	Description
	Gross weight: 85.4 kg Shipping volume: 0.309 m³ Country of origin: DK Custom tariff no.: 84137075

98390933 CRE 32-1-1 N-F-A-E-HQQE

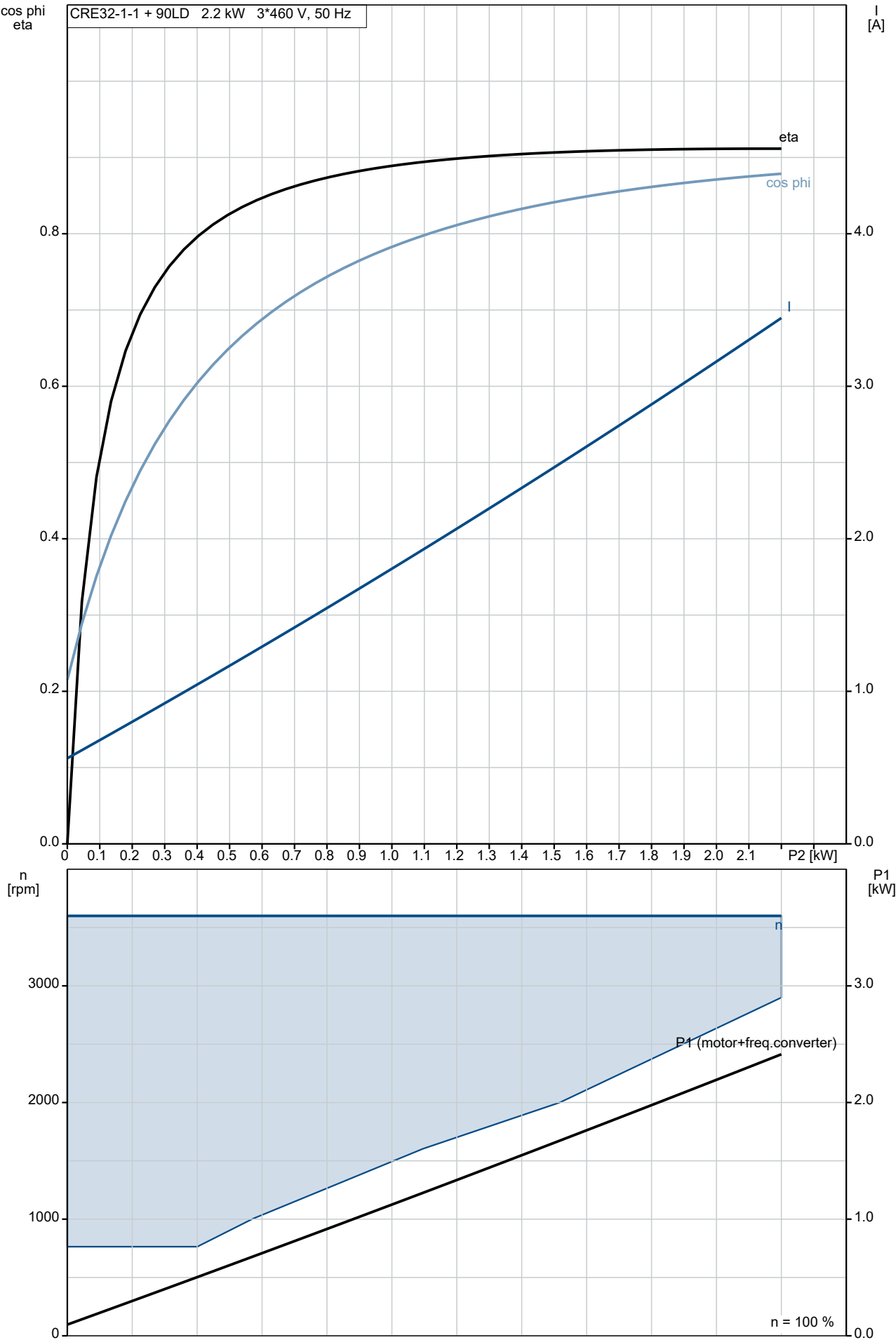


Description	Value		
General information:			
Product name:	CRE 32-1-1 N-F-A-E-HQQE		
Product No:	98390933		
EAN number:	5711494205974		
Technical:			
Pump speed on which pump data are based:	3501 rpm		
Rated flow:	36 m³/h		
Rated head:	15.6 m		
Maximum head:	21.5 m		
Stages:	1		
Impellers:	1		
Number of reduced-diameter impellers:	1		
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:	N		
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:	FT115		
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:	90LD		
IE Efficiency class:	IE5		
Rated power - P2:	2.2 kW		
Power (P2) required by pump:	2.2 kW		
Mains frequency:	50 / 60 Hz		
Rated voltage:	3 x 380-500 V		
Rated current:	4.15-3.40 A		
Cos phi - power factor:	0.93-0.87		
Rated speed:	360-4000 rpm		
Efficiency:	90.1%		
Motor efficiency at full load:	90.1 %		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		

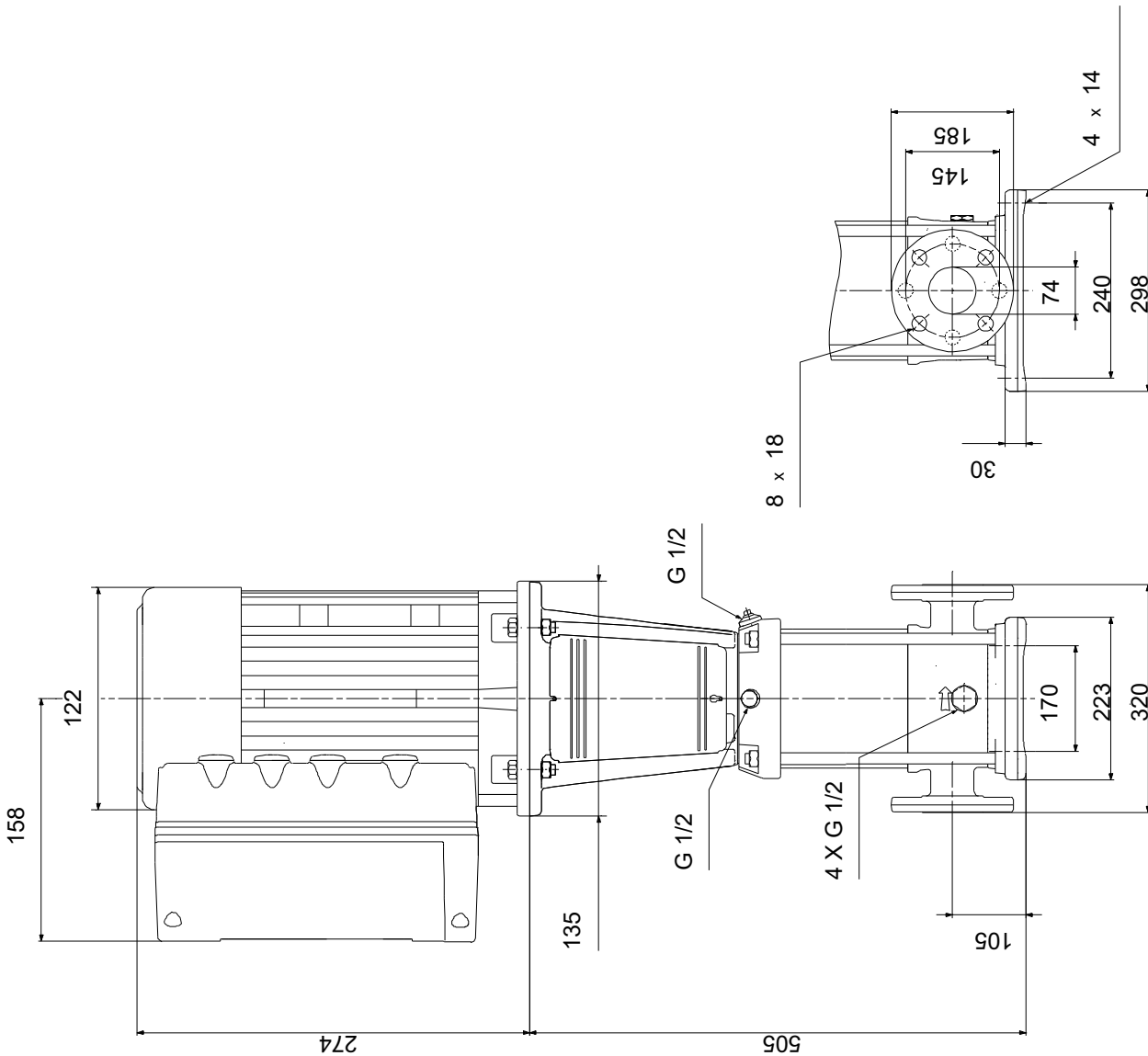


Description	Value
Motor protec:	ELEC
Motor No:	98190193
Controls:	
Control panel:	Standard
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Pressure sensor:	Y
Others:	
Minimum efficiency index, MEI ≥:	0.70
DOE Pump Energy Index CL:	0.00
DOE Pump Energy Index VL:	0.00
Net weight:	62.5 kg
Gross weight:	85.4 kg
Shipping volume:	0.309 m ³
Config. file no:	98501009
Country of origin:	DK
Custom tariff no.:	84137075

98390933 CRE 32-1-1 N-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 32-1-1, Product No. 98390933
Produced After 1410 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
-	Base			96547299	1	pcs
6	Base				1	
-	Kit, chamber stack			96416273	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					
- 49d	Impeller cpl.				1	
48	Nut					
49b	Split cone					
- 49a	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			96416589	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	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
-	Kit, cover			98832448	1	pcs
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, reduced			98633832	1	pcs
48	Nut				1	
48	Nut				1	
49b	Split cone				1	
- 49a	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			99131993	1	pcs
-	Kit, adapter			98345796	1	
- 252 a	Adapter set				1	
	Adapter					
	Adapter					
167	Cable gland					
-	Kit, bearing cpl.			98330605	1	
111	Ball bearing		Designation: 6204.2Z.C3.SYN		1	
154	Ball bearing				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
156 d	Gasket		Internal diameter: 114,80		1	
			Outer diameter: 121,20			
			Thickness: 0,25			
156 c	Seal ring				1	
156 c	Seal ring				1	
157	O-ring		Diameter: 47		1	
			Material type: NBR			
			Thickness: 3			
158	Waved washer				1	
-	Kit, Blanking plug			98334761	1	
252 b	Plug cpl.				4	
-	Kit, cable gland			98337336	1	
- 293	Cable glands set			98271484	1	
167	Cable gland					
167	Cable gland					
-	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			98406659	1	
152	Pan head thread forming screw				1	
166	Torx Screw				2	
178	Pan head thread forming screw				4	
251 d	Pan head thread forming screw				4	
251 b	Control box				1	
251 a	Control box				1	
252 b	Plug cpl.				4	
266	Connector plug 8-pole				1	
266	Connector plug 3-pole				1	
268 a	Base				1	
268	Pan head screw				1	
273 b	Battery				1	
273	Funct. Module cpl.				1	
275 a	Pin				1	
277 a	Cross recess Pan head screw				1	
277 a	Cross recess Pan head screw				1	
277 a	Cross recess Pan head screw				5	
277	Isolation cover				1	
286	Spacer				1	
286	Spacer				1	
287	Cover				1	
288 b	Retaining ring				6	
288 a	Pan head thread forming screw				6	
288	Wire clamp				3	
289	Wire clamp				1	
290	Control panel, cpl.				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
-	Kit, Control box upper			98334765	1	
251 d	Pan head thread forming screw					4
251 b	Control box					1
	Kit, Control panel			98939973	1	
-	Kit, cover			98330622	1	
287	Cover					1
-	Kit, fan			98290124	1	
152	Pan head thread forming screw					4
156 c	Seal ring					1
156	Fan					1
-	Kit, flange (DE)			98290128	1	
156 d	Gasket		Internal diameter: 114,80			1
			Outer diameter: 121,20			
			Thickness: 0,25			
156 b	Flange					1
185	Cross recess Pan head screw					4
186	Drain plug					1
188	Retaining ring					1
-	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			98330625	1	
277 a	Cross recess Pan head screw					1
277	Isolation cover					1
-	Kit, Lower part cpl.			98330619	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	Isolation cover					1
-	Kit, motor			98293865	1	
	Terminal					3
99a	Retaining ring					1
99	Retaining ring					1
111	Ball bearing		Designation: 6204.2Z.C3.SYN			1
150	Stator					1
150	Stator housing					1
151	Fan cover					1
152	Pan head thread forming screw					4
154	Ball bearing					1
156 d	Gasket		Internal diameter: 114,80			1
			Outer diameter: 121,20			
			Thickness: 0,25			
156 c	Seal ring					1
156 c	Seal ring					1
156 b	Flange					1
156	Fan					1
157	O-ring		Diameter: 47			1
			Material type: NBR			

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
			Thickness: 3			
158	Waved washer				1	
172	Shaft w/rotor				1	
178	Pan head thread forming screw				4	
185	Cross recess Pan head screw				4	
186	Drain plug				1	
203	Terminal plug				1	
289 a	Pan head thread forming screw				1	
-	Kit, plug			99369622	1	
	Terminal				3	
203	Terminal plug				1	
205	Pan head thread forming screw				1	
-	Kit, screws			98330627	1	
268 a	Base				1	
268	Pan head screw				1	
288 b	Retaining ring				6	
288 a	Pan head thread forming screw				6	
288	Wire clamp				3	
289 a	Pan head thread forming screw				1	
289	Wire clamp				1	
-	Kit, staybolts			98881544	1	
181	Pan head staybolt				4	
	Pan head thread forming screw			99598708	4	
111	Ball bearing	Designation: 6204.2Z.C3.SYN		97914979	1	
152	Pan head thread forming screw			99834207	1	
152	Pan head thread forming screw			99814578	1	
156 d	Gasket	Internal diameter: 114,80		99406425	1	
		Outer diameter: 121,20				
		Thickness: 0,25				
156	Fan			96591801	1	
159 a	Seal ring			97689816	1	
186	Drain plug			99980519	1	
251 d	Pan head thread forming screw			98995460	4	
266	Connector plug 3-pole			99421265	1	
1a	Motor stool			98977092	1	pcs
2	Pump head			96587722	1	pcs
- 3	Upper chamber cpl.			99262799	1	pcs
47	Bearing			99964632	1	
47	Bearing			99928986	1	
7a	Socket button head screw			96549696	4	pcs
7	Coupling guard			96603300	2	pcs
18	Air vent screw			96547461	1	pcs
18	Air vent screw			95061351	1	pcs
25	Plug			96536013	5	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				

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
32	Washer		Thread: M10 Designation: DIN 125 A Internal diameter: 17 Outer diameter: 30 Thickness: 3	98923051	4	pcs
36	Hex nut		Thread: M16	96620480	4	pcs
37	O-ring			96536149	2	pcs
38	O-ring			99198815	5	pcs
38	O-ring			99412727	5	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
- 49a	Impeller			96534937	1	pcs
49c	Wear ring			96534930	1	
51	Shaft			98506272	1	pcs
55	Outer sleeve		Outer diameter: 197,0 Length (mm): 95,5	99049372	1	pcs
58a	Hex socket head cap screw		Designation: DIN 912 Length (mm): 25 Thread: M10	99789390	4	pcs
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
440 b	Lock ring			96534918	1	pcs