

Inventflow: Grundfos A-partner

Grundfos CRE 64-1-1 N-F-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cre/grundfos-cre-64-1-1-n-f-a-e-hqqe>

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Datasheet

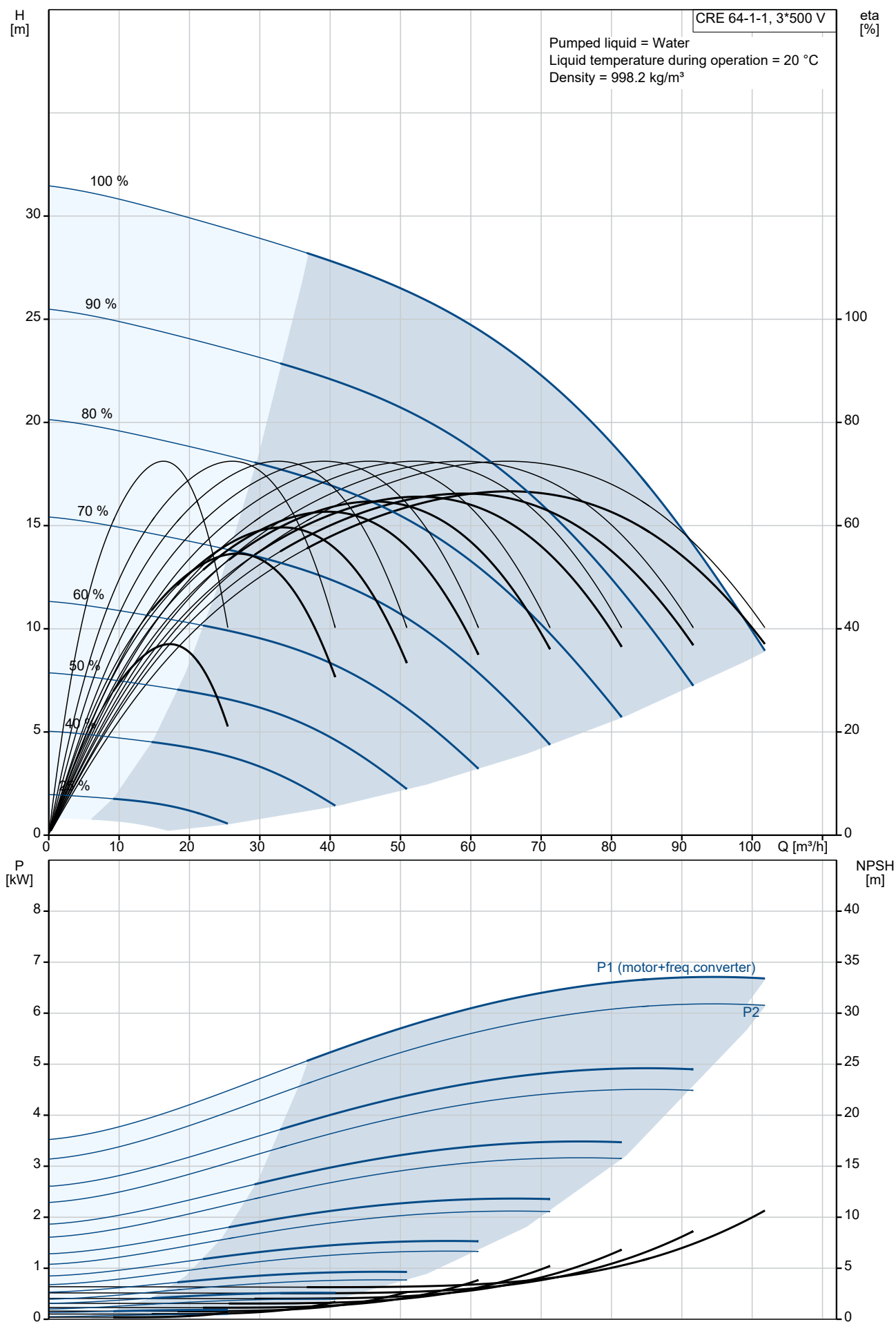


Qty.	Description
1	CRE 64-1-1 N-F-A-E-HQQE  Product No.: 99072061 Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers and intermediate chambers are made of - Impeller: 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, - RS485 GENibus. Controls: Frequency converter: Built-in

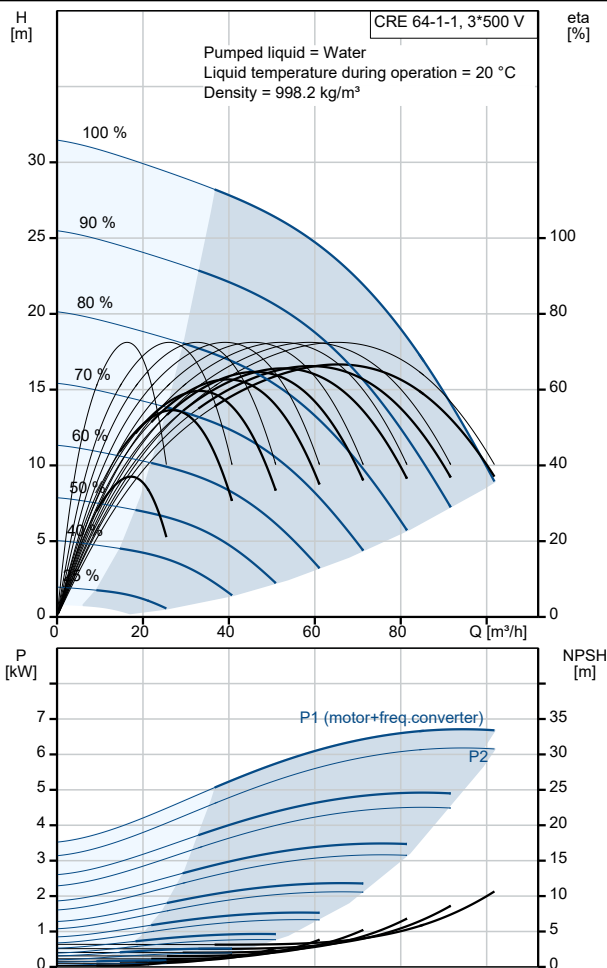
Qty.	Description
	Pressure sensor: Y Liquid: Pumped liquid: Water Liquid temperature range: -30 .. 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Technical: Pump speed on which pump data are based: 3525 rpm Rated flow: 77 m³/h Rated head: 20.8 m Pump orientation: Vertical Shaft seal arrangement: 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 100 Size of outlet connection: DN 100 Pressure rating for connection: PN 16 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 Others: Minimum efficiency index, MEI ≥: 0.70 DOE Pump Energy Index CL: 0.00 DOE Pump Energy Index VL: 0.00 Net weight: 108 kg Gross weight: 141 kg Shipping volume: 0.495 m³ Danish VVS No.: 386008161 Country of origin: DK

Qty.	Description
	Custom tariff no.: 84137075

99072061 CRE 64-1-1 N-F-A-E-HQQE

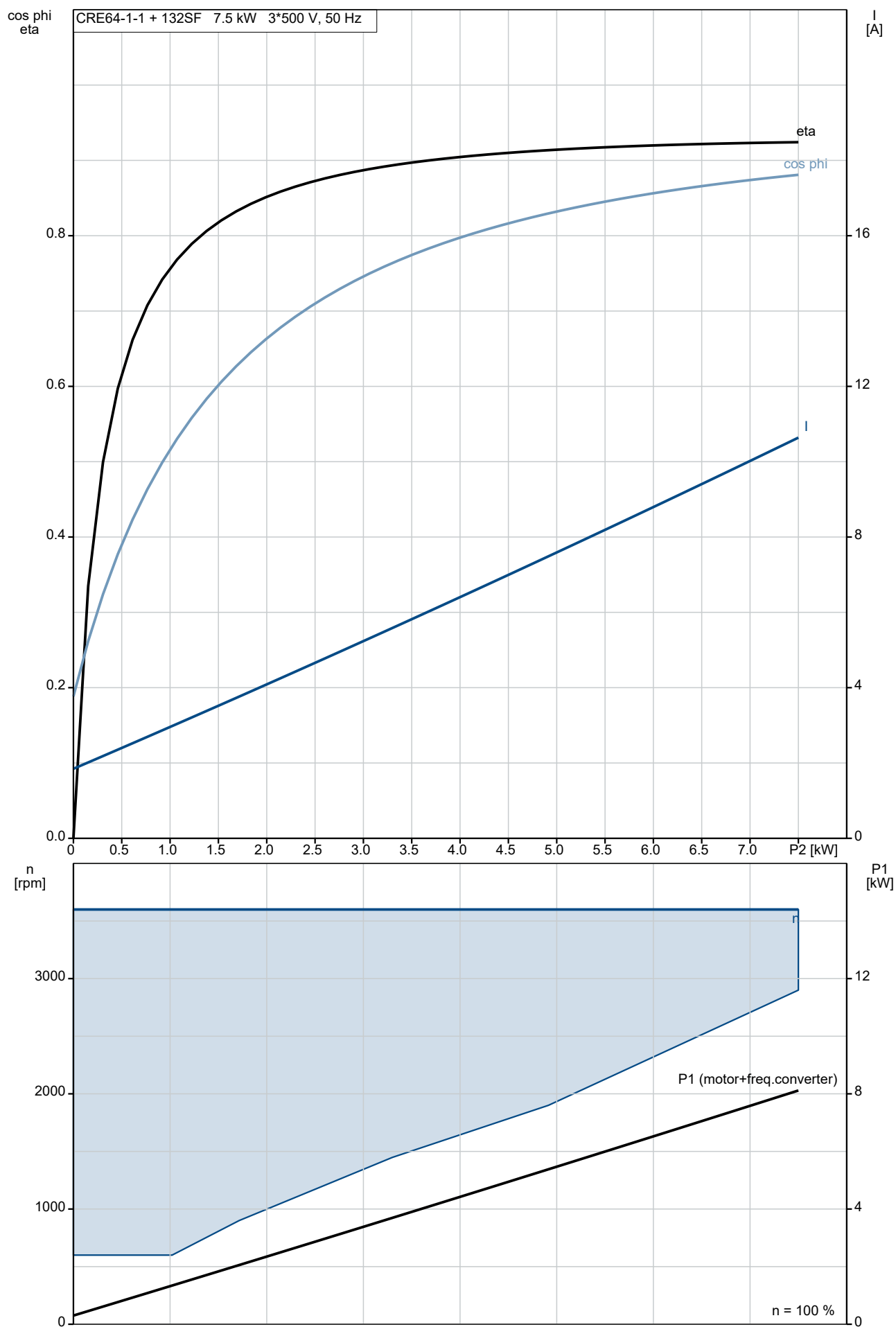


Description	Value		
General information:			
Product name:	CRE 64-1-1 N-F-A-E-HQQE		
Product No:	99072061		
EAN number:	5712606203918		
Technical:			
Pump speed on which pump data are based:	3525 rpm		
Rated flow:	77 m³/h		
Rated head:	20.8 m		
Maximum head:	32 m		
Stages:	1		
Impellers:	1		
Number of 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 100		
Size of outlet connection:	DN 100		
Pressure rating for connection:	PN 16		
Flange size for motor:	FF265		
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:	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		

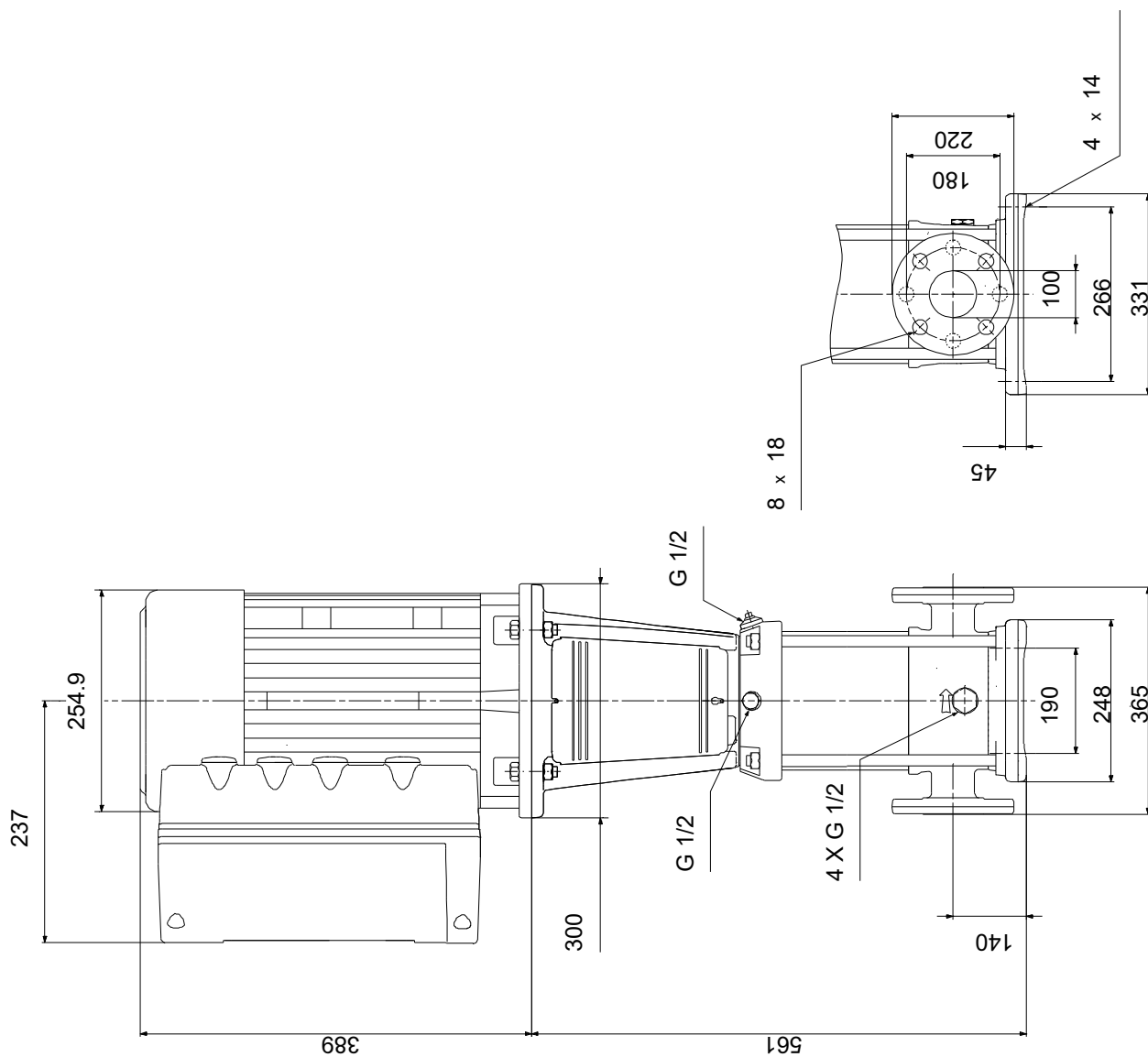


Description	Value
Motor protec:	ELEC
Motor No:	98971052
Controls:	
Control panel:	Standard
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Pressure sensor:	Y
Others:	
Minimum efficiency index, MEI ≥:	0.70
DOE Pump Energy Index CL:	0.00
DOE Pump Energy Index VL:	0.00
Net weight:	108 kg
Gross weight:	141 kg
Shipping volume:	0.495 m ³
Config. file no:	99059382
Danish VVS No.:	386008161
Country of origin:	DK
Custom tariff no.:	84137075

99072061 CRE 64-1-1 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 64-1-1, Product No. 99072061
Produced After 1633 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
-	Base			96587673	1	pcs
6	Base				1	
- 80	Kit, chamber stack			96416307	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					
	Spare, turbulence optimizer KP					
47	Bearing					
26c	Washer		Designation: DIN 125A		2	
			Thickness: 1,6			
26b	Hex socket head cap screw				2	
- 26a	Strap cpl.				2	
	Strip					
	Nut					
- 44	Suction interconnector cpl.				1	
	Inlet part					
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					
- 49a	Impeller, reduced diameter					
	Impeller hub					
49c	Wear ring					
51	Shaft				1	
-	Kit, chambers			98634071	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	
	Spare, turbulence optimizer KP				10	
47	Bearing				1	
- 47a	Bearing cpl.				1	
	Driver				1	
	Holder				1	
	Disc spring				1	
	Bearing ring				1	
47f	Hairpin clip				1	
-	Kit, coupling			96416591	1	pcs
	Adjusting fork				1	
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 25			
			Thread: M10			
10a	Coupling		Type: SPACER		1	
-	Kit, coupling guard			96505134	1	pcs
7a	Socket button head screw				4	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
7	Coupling guard				2	
-	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			96416599	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			98634080	1	pcs
48	Nut				1	
48	Nut				1	
49b	Split cone				1	
- 49a	Impeller, reduced diameter				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			98497494	1	pcs
45	Seal ring				2	
47d	Lock ring				2	
47c	Bush				1	
49c	Wear ring				2	
65	Top f/neck ring				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	

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr	Aanta	Eenhei
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	
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	

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	
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	
-	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	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
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
156b	Flange					1
156. a	End shield NDE					1
156	Fan					1
157	O-ring		Diameter: 62 Material type: NBR Thickness: 3			1
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 Length (mm): 40 Thread: M5			3
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

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
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	
1a	Motor stool			96547431	1	pcs
2	Pump head			96547433	1	pcs
- 3	Upper chamber cpl.			99262925	1	pcs
47	Bearing			99964632	1	
47	Bearing			99928986	1	
- 4a	Intermediate chamber cpl.			99262958	1	pcs
- 45a	Neck ring cpl.			96547441	1	
45	Seal ring			96536030	1	
65	Top f/neck ring			96536014	1	
7a	Socket button head screw			96549696	4	pcs
7	Coupling guard			96603300	2	pcs
8	Coupling cpl.		Dimension: 22/38	96587705	1	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
26a	Strap cpl.			98983891	2	pcs
26	Staybolt		Length (mm): 250	98976735	4	pcs
			Thread: M16			
28	Hex socket head cap screw		Designation: DIN 912	96536147	4	pcs
			Length (mm): 50			
			Thread: M10			
28	Hex head screw		Length (mm): 45 MM	96620474	4	pcs
			Thread: M12			
32	Washer		Designation: DIN 125 A	99883474	8	pcs
			Internal diameter: 13			
			Outer diameter: 24			
			Thickness: 2,5			
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
36	Nut		Thread: M12	96620479	4	pcs
37	O-ring			96536142	2	pcs
- 44	Suction interconnector cpl.			98634152	1	pcs
45	Seal ring			96536030	1	
65	Top f/neck ring			96536014	1	
- 47a	Bearing cpl.			99270651	1	pcs
47f	Hairpin clip			99908983	1	
49b	Split cone			96536010	1	pcs
- 49a	Impeller, reduced diameter			99500075	1	pcs
49c	Wear ring			96535879	1	
51	Shaft			98506330	1	pcs
55	Outer sleeve		Outer diameter: 216	98820375	1	pcs
			Length (mm): 106			
58a	Hex socket head cap screw		Designation: DIN 912	99789390	4	pcs
			Length (mm): 25			
			Thread: M10			
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	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
105	Shaft seal		Material type: HQQE	96984070	1	pcs
440b	Lock ring			96547435	1	pcs