

Inventflow: Grundfos A-partner

Grundfos CRE 15-3 A-A-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cre/grundfos-cre-15-3-a-a-a-e-hqqe>

Contact

info@inventflow.nl

+31 (0) 546 45 80 72

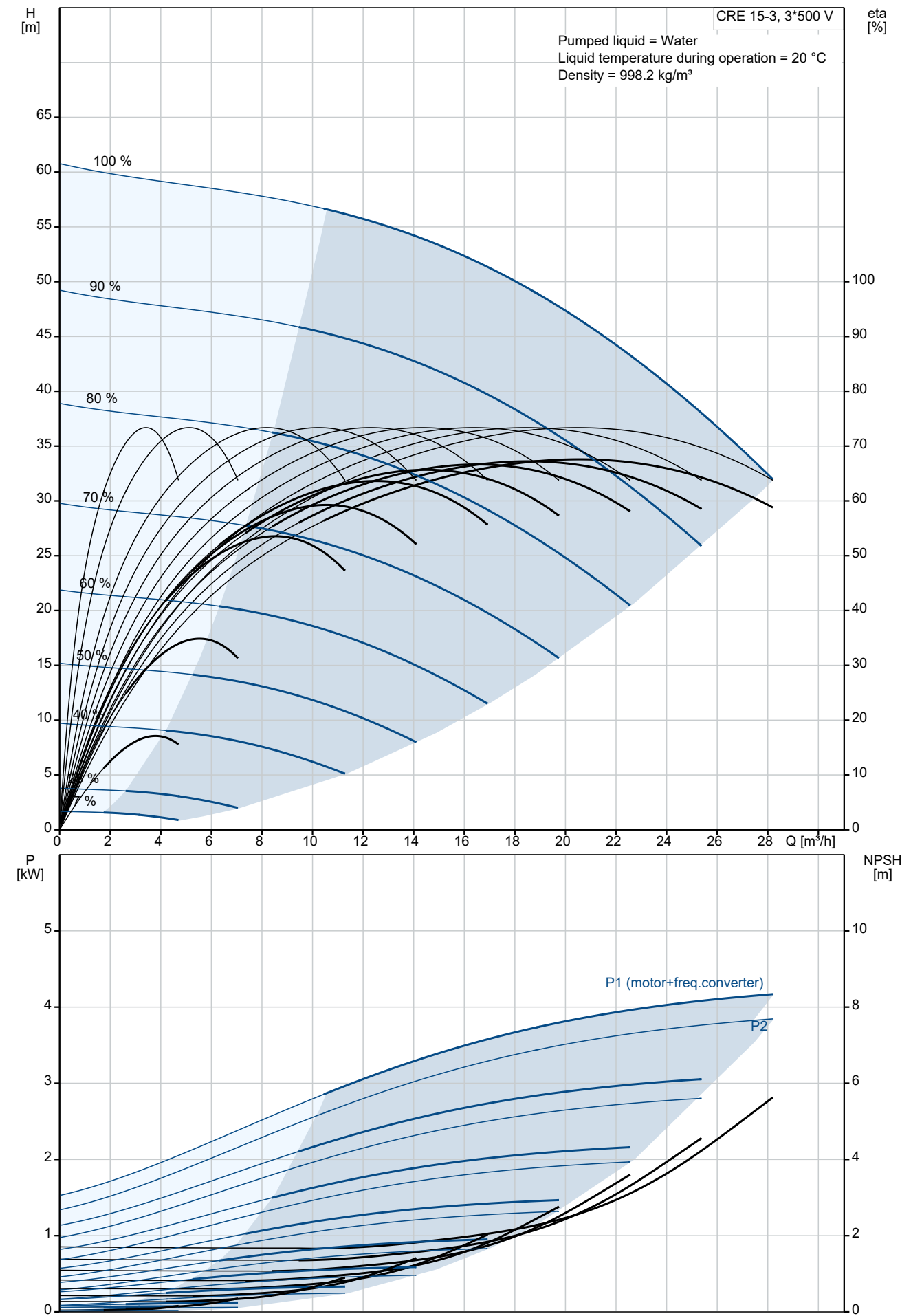
Datasheet



Qty.	Description
1	CRE 15-3 A-A-A-E-HQQE  Product No.: 99071512 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. 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: 3520 rpm Rated flow: 20.5 m³/h Rated head: 47.9 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 ASTM A48-25B

Qty.	Description
	Impeller: Stainless steel EN 1.4301 AISI 304 Bearing: SIC Installation: Maximum ambient temperature: 50 °C Maximum operating pressure: 10 bar Max pressure at stated temp: 10 bar / 120 °C 10 bar / -20 °C Type of connection: Oval / Rp Size of inlet connection: 2 inch Size of outlet connection: 2 inch Pressure rating for connection: PN 10 Flange size for motor: FT130 Electrical data: Motor standard: IEC Motor type: 112MC IE Efficiency class: IE5 Rated power - P2: 4 kW Power (P2) required by pump: 4 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 7.60-6.20 A Cos phi - power factor: 0.92-0.87 Rated speed: 360-4000 rpm Efficiency: 92.2% Motor efficiency at full load: 92.2 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98971050 Controls: Frequency converter: Built-in Pressure sensor: N Others: Minimum efficiency index, MEI $\geq$: 0.70 DOE Pump Energy Index CL: 0.00 DOE Pump Energy Index VL: 0.00 Net weight: 61 kg Gross weight: 83 kg Shipping volume: 0.234 m³ Finnish LVI No.: 4925695 Country of origin: HU Custom tariff no.: 84137075

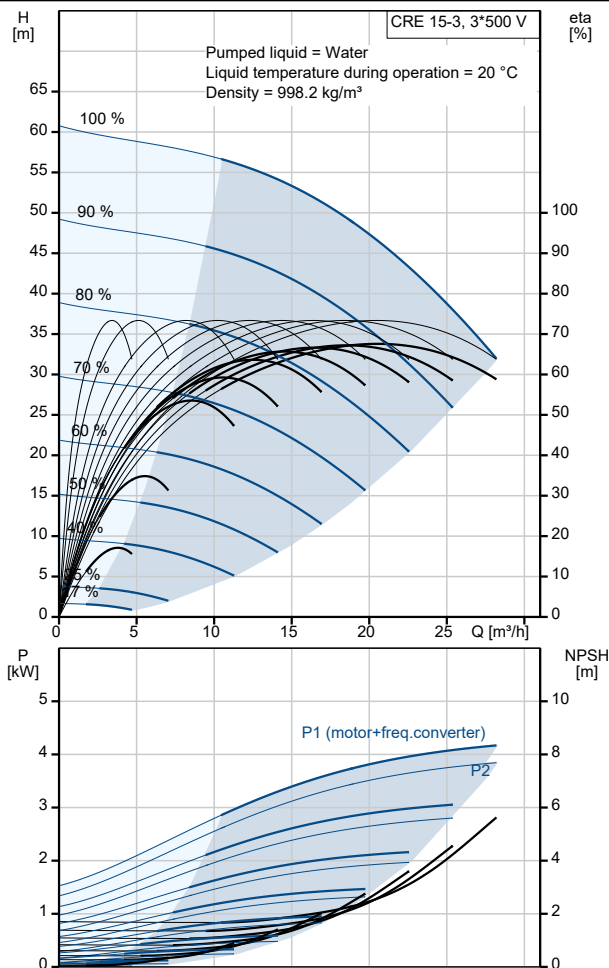
99071512 CRE 15-3 A-A-A-E-HQQE



Description	Value
General information:	
Product name:	CRE 15-3 A-A-A-E-HQQE
Product No:	99071512
EAN number:	5712606192953
Technical:	
Pump speed on which pump data are based:	3520 rpm
Rated flow:	20.5 m³/h
Rated head:	47.9 m
Maximum head:	61.5 m
Stages:	3
Impellers:	3
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:	10 bar
Max pressure at stated temp:	10 bar / 120 °C
Max pressure at stated temp:	10 bar / -20 °C
Type of connection:	Oval / Rp
Size of inlet connection:	2 inch
Size of outlet connection:	2 inch
Pressure rating for connection:	PN 10
Flange size for motor:	FT130
Connect code:	A
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:	112MC
IE Efficiency class:	IE5
Rated power - P2:	4 kW
Power (P2) required by pump:	4 kW
Mains frequency:	50 / 60 Hz
Rated voltage:	3 x 380-500 V
Rated current:	7.60-6.20 A
Cos phi - power factor:	0.92-0.87
Rated speed:	360-4000 rpm
Efficiency:	92.2%
Motor efficiency at full load:	92.2 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	ELEC

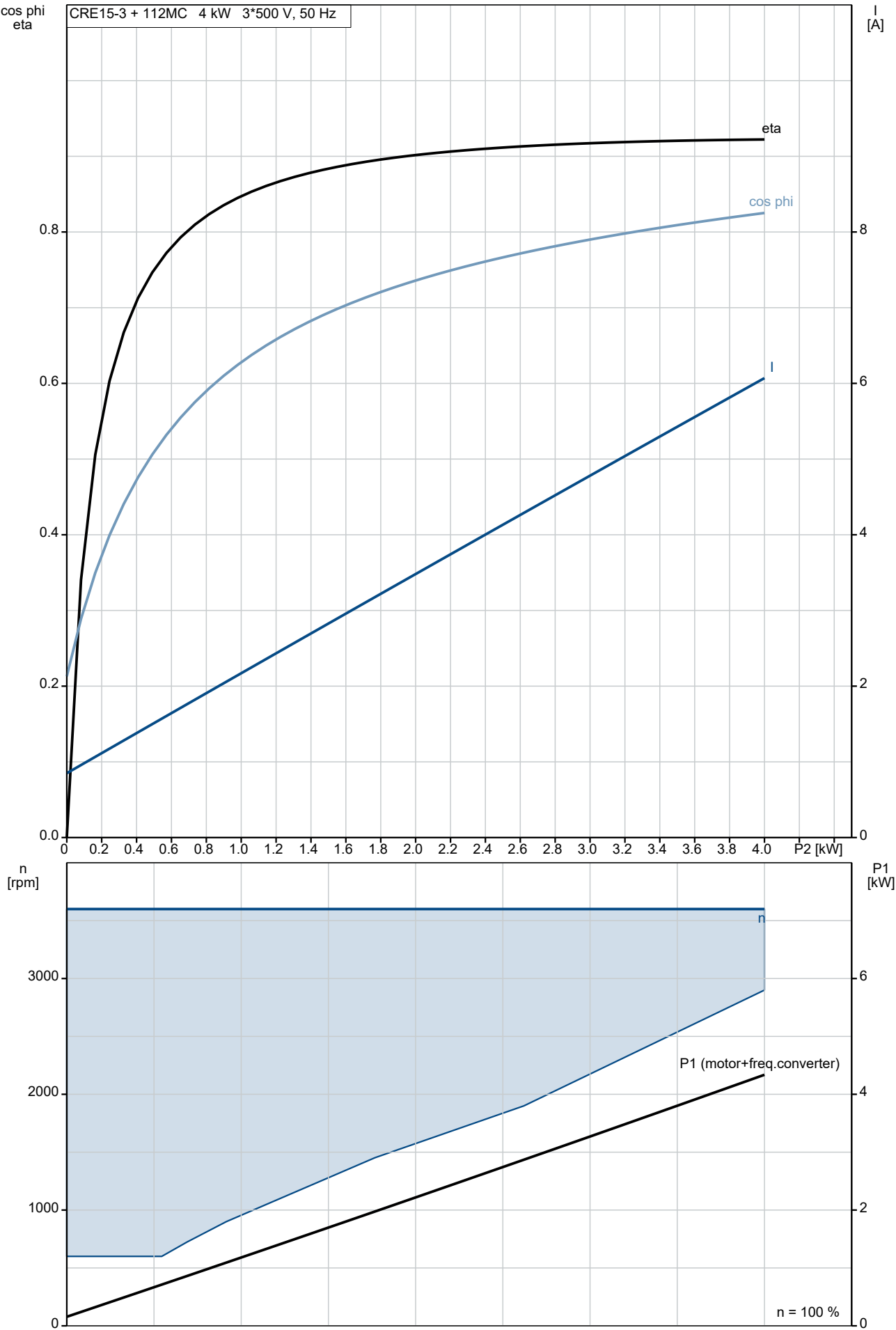
CRE 15-3, 3*500 V

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

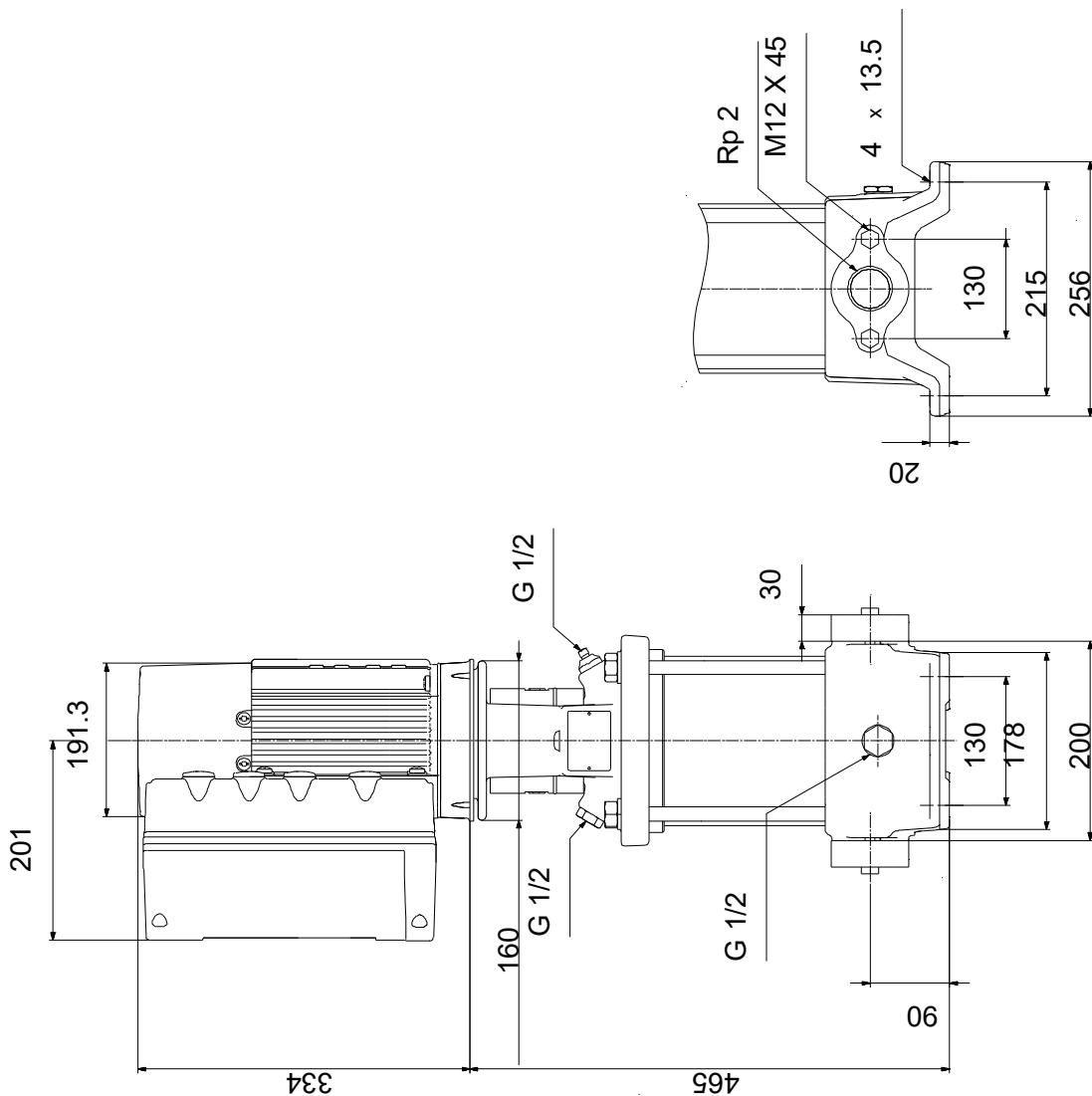


Description	Value
Motor No:	98971050
Controls:	
Control panel:	Standard
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
DOE Pump Energy Index CL:	0.00
DOE Pump Energy Index VL:	0.00
Net weight:	61 kg
Gross weight:	83 kg
Shipping volume:	0.234 m ³
Config. file no:	99059056
Finnish LVI No.:	4925695
Country of origin:	HU
Custom tariff no.:	84137075

99071512 CRE 15-3 A-A-A-E-HQQE



99071512 CRE 15-3 A-A-A-E-HQQE



Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Spare parts CRE 15-3, Product No. 99071512
Produced After 1633 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, chamber stack			96508455	1	pcs
- 80	Chamber stack				1	
- 3	Top intermediate chamber				1	
	Intermediate chamber					
	Front plate					
	Guide vane					
- 4a	Intermediate chamber cpl.				1	
	Bearing plate					
3	Intermediate chamber					
45	Neck ring cpl.					
47	Bearing bush					
65	Retainer for upper seal ring					
- 4	Intermediate chamber cpl.				1	
45	Neck ring cpl.					
65	Retainer for upper seal ring					
26c	Washer		Designation: DIN 125A Thickness: 1,6		2	
26b	Hex head screw				2	
26a	Strap cpl.				2	
44b	Inlet part				1	
- 44a	Inlet part cpl.				1	
	Sand Lifter					
	Guide cup					
	Inlet part					
45	Neck ring cpl.					
65	Retainer for upper seal ring					
47a	Bearing ring				1	
- 49	Impeller cpl.				3	
	Impeller plate					
	Impeller plate					
	Blade					
49c	Wear ring					
- 51	Shaft, spline, cpl.				1	
	Bar					
62	Stop ring					
64d	Spacing bush				1	
64c	Spacer				1	
64a	Spacing pipe		Internal diameter: 17,5 Length (mm): 17		1	
64	Spacing pipe		Length (mm): 43.6		1	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
69	Spacing bush				1	
-	Kit, coupling			96511350	1	pcs
	Adjusting fork				1	
9	Hex socket head cap screw		Designation: DIN 912 Length (mm): 25 Thread: M8		4	
10a	Coupling half				2	
10	Shaft pin		Diameter: 5 Length (mm): 26		1	
-	Kit, coupling guard			96509612	1	pcs
7.a	Combi Slot Torx screw				4	
7	Coupling guard				2	
-	Kit, gaskets			96509609	1	pcs
	Gasket				2	
24	O-ring				2	
37	O-ring				2	
38	O-ring				1	

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr.	Aantal	Eenheid
38	O-ring					1	
38	O-ring					2	
60	Spring					4	
415	Gasket			Internal diameter: 44		2	
				Outer diameter: 60			
				Thickness: 2			
441b	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				96511824	1	pcs
- 4a	Intermediate chamber cpl.					1	
	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.					5	
47a	Bearing ring					1	
49c	Wear ring					6	
62	Retaining ring					1	
64d	Spacing bush					1	
64c	Spacer					1	
64b	Spacing bush			Length (mm): 5.00		1	
64a	Spacing pipe			Internal diameter: 17,5		1	
				Length (mm): 17			
65	Retainer					5	
66	Wedge lock washer					1	
67	Lock nut			Thread: M8		1	
-	Base cpl.				99077820	1	pcs
6	Base				99535016	1	
25a	Drain plug				96535881	1	
35	Hex head screw				96620478	4	
441a	Flange				99315185	2	
-	Motor					1	pcs
-	Kit, Blanking plug				99052475	1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
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	
-	Kit, Control panel			98939973	1	
290	Control panel, cpl.				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, cover			98330622	1	
287	Cover				1	
-	Kit, end shield (NDE)			98869883	1	
156c	Seal ring				1	
156a	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	
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)			98966301	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			99010750	1	
	Glue				0	
	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	
153	Angular-contact bearing				1	
156d	Gasket				1	
156c	Seal ring				1	
156c	Seal ring				1	
156b	Flange				1	

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr.	Aantal	Eenheid
156a	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	
181	Pan head staybolt					4	
186	Drain plug					3	
190	Eyebolt					2	
201b	Blind plug					1	
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				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				99078040	1	
153	Angular-contact bearing				96550559	1	
186	Drain plug				99980519	3	
251d	Pan head thread forming screw				98995460	4	
266	Connector plug 3-pole				99421265	1	
2a	Pump head				98785091	1	pcs
+ 3	Top intermediate chamber				96538971	1	pcs
+ 3	Top intermediate chamber				98371105	1	pcs
- 4a	Intermediate chamber cpl.				96538842	1	pcs
3	Intermediate chamber				96535086	1	
+ 4a	Intermediate chamber cpl.				98371109	1	pcs
- 4	Intermediate chamber cpl.				96538817	1	pcs
65	Retainer for upper seal ring				97699527	1	
65	Retainer for upper seal ring				96587913	1	
+ 4	Intermediate chamber cpl.				98371107	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
26c	Washer			Designation: DIN 125A	99262704	2	pcs
				Thickness: 1,6			

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
26c	Washer		Designation: DIN 125A Thickness: 1,6	99886930	2	pcs
26a	Strap cpl.			98952934	2	pcs
26	Staybolt			98982840	4	pcs
28	Hex head screw		Length (mm): 25 Thread: M8	99335941	4	pcs
32	Washer		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			96538857	2	pcs
38	O-ring			99198791	1	pcs
38	O-ring			99198815	3	pcs
38	O-ring			99412727	3	pcs
44b	Inlet part			98814595	1	pcs
+ 44a	Inlet part cpl.			98818924	1	pcs
47a	Bearing ring			96538795	1	pcs
- 49	Impeller cpl.			98394448	3	pcs
49c	Wear ring			96547340	1	
+ 51	Shaft, spline, cpl.			98368607	1	pcs
55	Outer sleeve			98812621	1	pcs
60	Spring			96538963	4	pcs
64d	Spacing bush			96538947	1	pcs
64c	Spacer			97980241	1	pcs
64a	Spacing pipe		Internal diameter: 17,5 Length (mm): 17	98417487	1	pcs
64	Spacing pipe		Length (mm): 43.6	96535107	1	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			96538949	1	pcs
76a	Rivet			96620489	1	pcs
105	Shaft seal		Material type: HQQE	96538914	1	pcs