

Inventflow: Grundfos A-partner

Grundfos CRE 155-1-1 A-F-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cre/grundfos-cre-155-1-1-a-f-a-e-hqqe>

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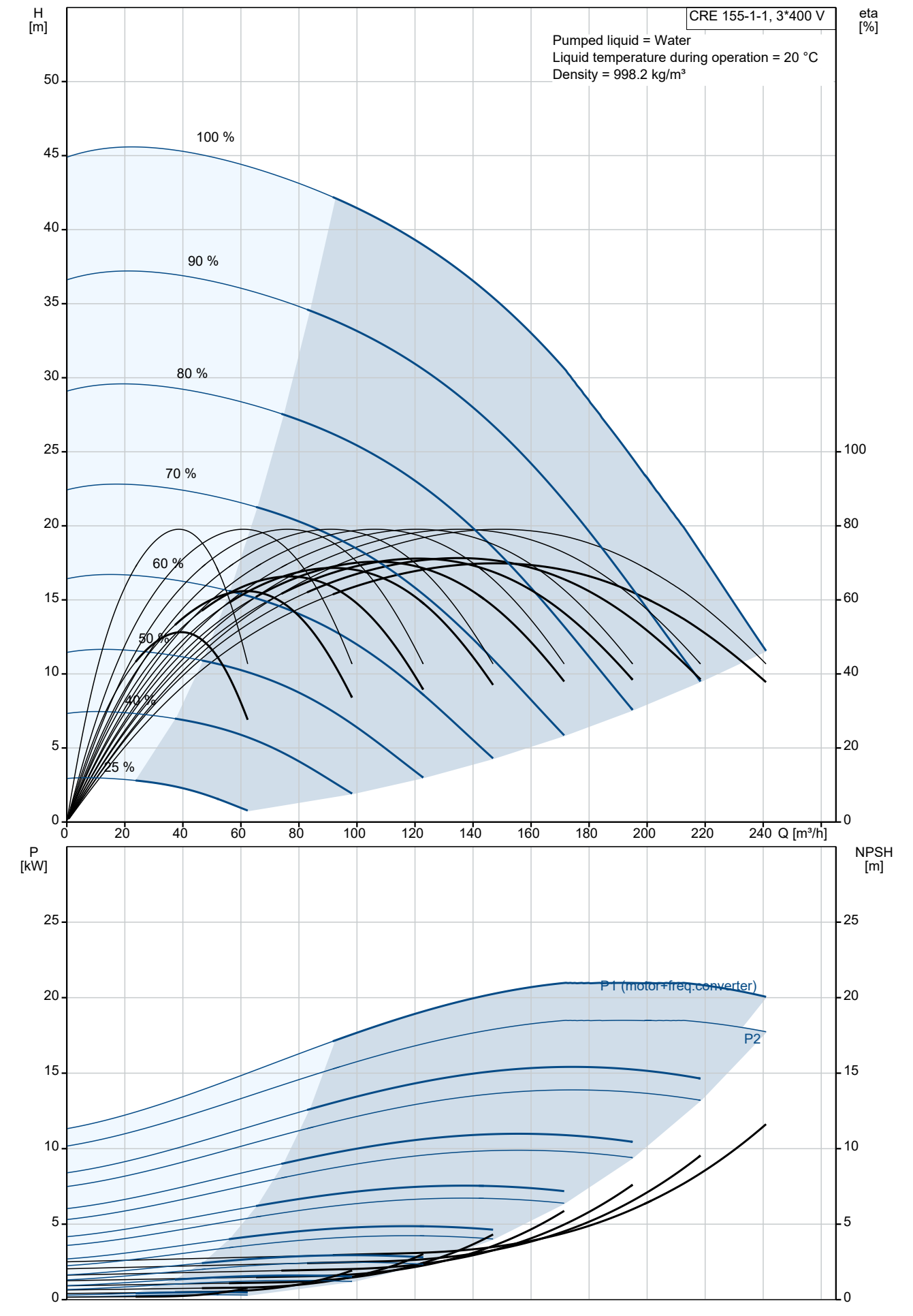
Datasheet



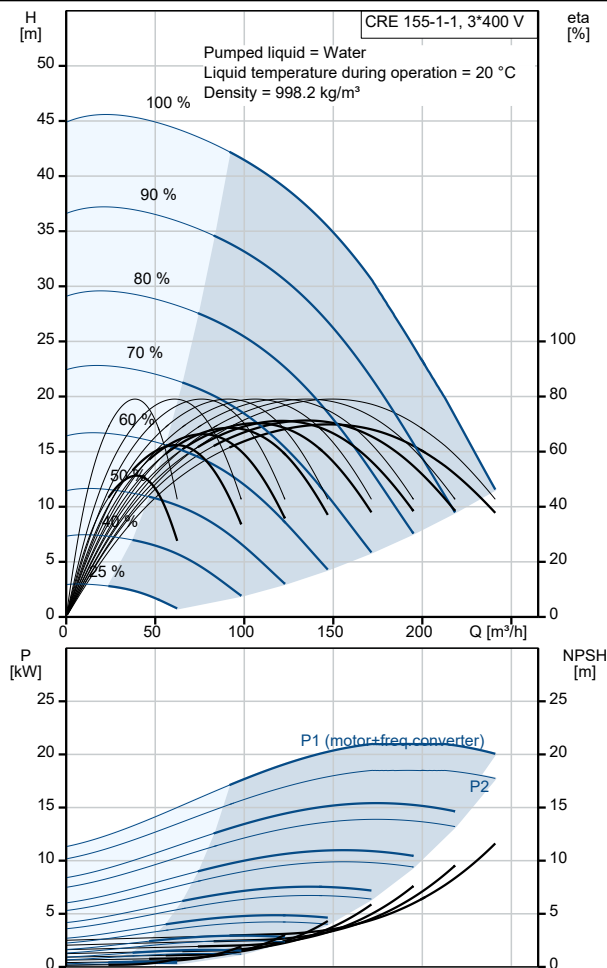
Qty.	Description
1	CRE 155-1-1 A-F-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 99264409 Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. The Grundfos 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 asynchronous motor. 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 operating panel has indicator lights for "Operation" and "Fault". 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 holds terminals for these connections: • pump start/stop input (potential-free contact) • remote setpoint setting via analog signal, 0-10 V, 0(4)-20 mA • 10 V voltage supply for setpoint potentiometer, I_{max} = 5 mA • three analog sensor inputs, 0-10 V, 0(4)-20 mA • 24 V voltage supply for sensor, I_{max} = 40 mA • one analog output • three digital inputs • two Pt100 inputs • two potential-free fault signal relays with changeover contact, reporting "Fault", "Operation" or "Ready" • RS-485 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: 3559 rpm Rated flow: 186 m³/h Rated head: 28 m Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals: CE,EAC,UKCA,ACS,WRAS Curve tolerance: ISO9906:2012 3B Materials: Base: Ductile cast iron EN 1563 EN-GJS-500-7 Impeller: Stainless steel EN 1.4301 Bearing: WC/WC Support bearing: Graflon Material certified according to: European standards

Qty.	Description
	Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 16 bar Max pressure at stated temp: 16 bar / 120 °C Type of connection: DIN Size of inlet connection: DN 150 Size of outlet connection: DN 150 Pressure rating for connection: PN 16 Flange size for motor: FF300 Electrical data: Motor standard: IEC Motor type: 160LB IE Efficiency class: IE3 Rated power - P2: 18.5 kW Power (P2) required by pump: 18.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V Rated current: 37.0-31.0 A Cos phi - power factor: 0.91-0.88 Rated speed: 480-3540 rpm Efficiency: IE3 92,4% Motor efficiency at full load: 92.4 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 85901026 Controls: Frequency converter: Built-in Pressure sensor: N Others: DOE Pump Energy Index CL: 0.00 DOE Pump Energy Index VL: 0.00 Net weight: 291 kg Gross weight: 355 kg Shipping volume: 1.14 m³ Thrust handling device: N Country of origin: DK Custom tariff no.: 84137075

99264409 CRE 155-1-1 A-F-A-E-HQQE 50 Hz

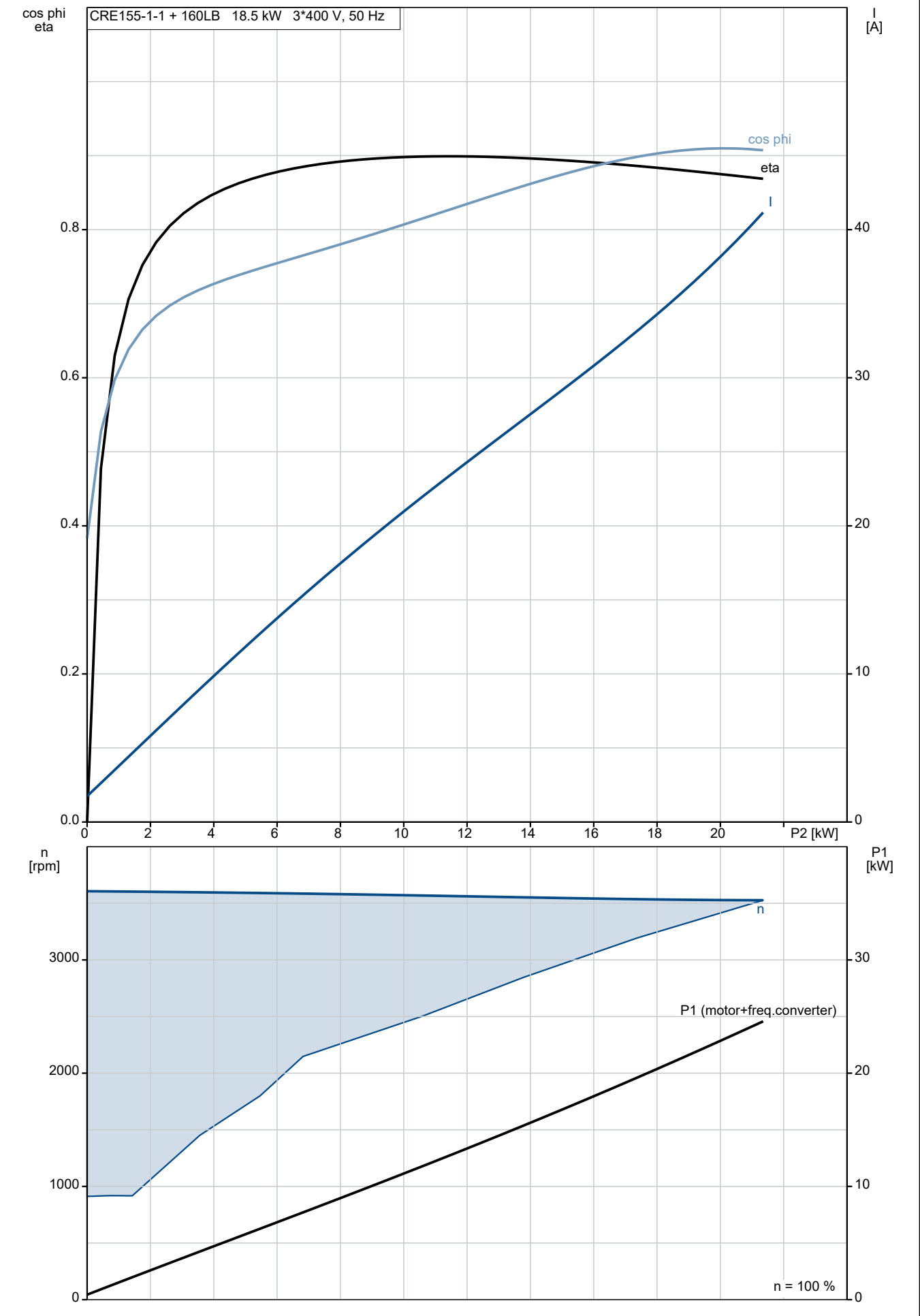


Description	Value
General information:	
Product name:	CRE 155-1-1 A-F-A-E-HQQE
Product No:	99264409
EAN number:	5713826223977
Technical:	
Pump speed on which pump data are based:	3559 rpm
Rated flow:	186 m³/h
Rated head:	28 m
Maximum head:	45.8 m
Stages:	1
Impellers:	1
Number of reduced-diameter impellers:	1
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals:	CE,EAC,UKCA,ACS,WRA S
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Base:	Ductile cast iron
Base:	EN 1563 EN-GJS-500-7
Impeller:	Stainless steel
Impeller:	EN 1.4301
Material code:	A
Code for rubber:	E
Bearing:	WC/WC
Support bearing:	Graflon
Material certified according to:	European standards
Installation:	
Maximum ambient temperature:	40 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 120 °C
Type of connection:	DIN
Size of inlet connection:	DN 150
Size of outlet connection:	DN 150
Pressure rating for connection:	PN 16
Flange size for motor:	FF300
Connect code:	F
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:	160LB
IE Efficiency class:	IE3
Rated power - P2:	18.5 kW
Power (P2) required by pump:	18.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	37.0-31.0 A
Cos phi - power factor:	0.91-0.88
Rated speed:	480-3540 rpm
Efficiency:	IE3 92,4%
Motor efficiency at full load:	92.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES

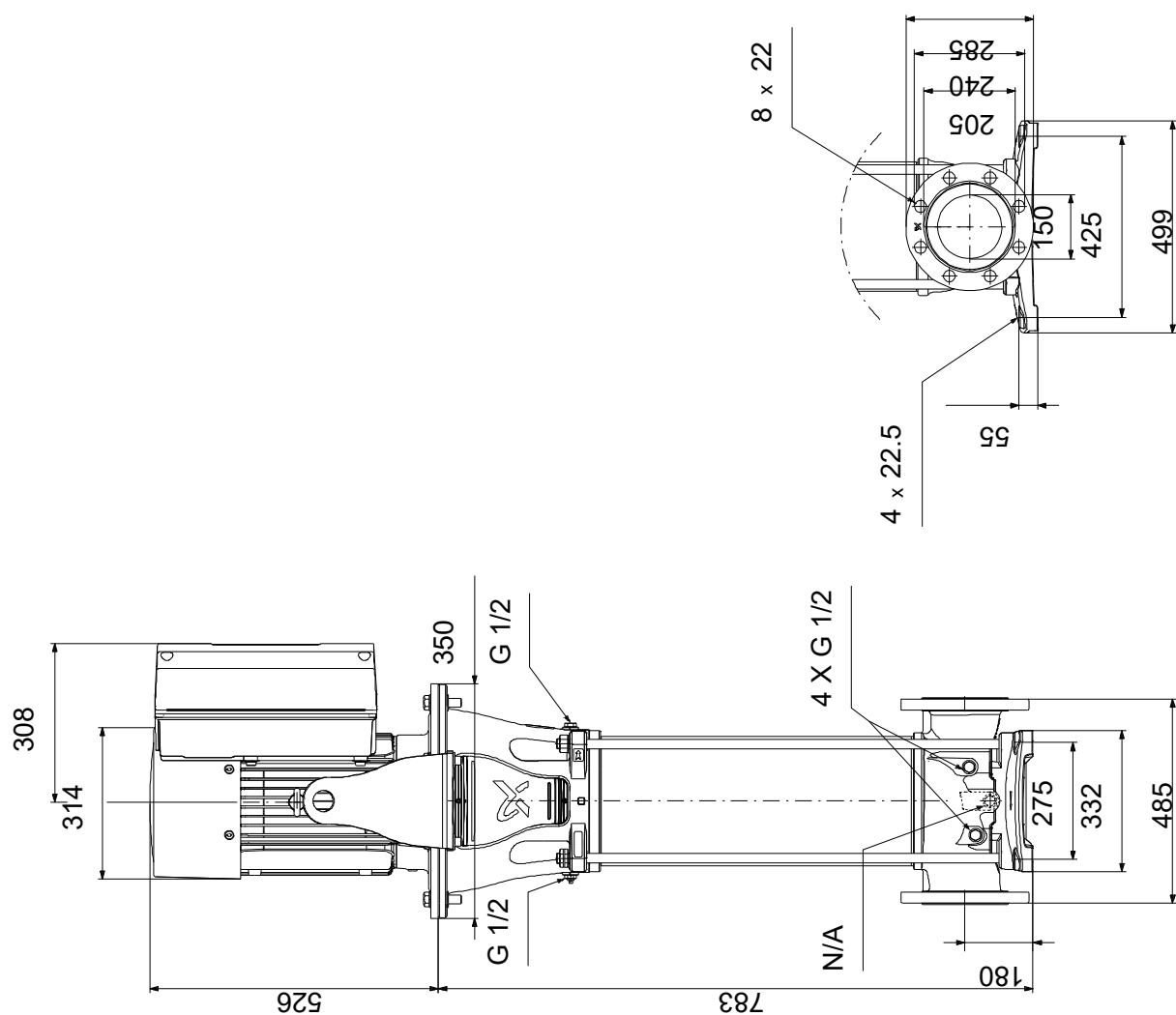


Description	Value
Motor No:	85901026
Controls:	
Function Module:	ADVANCED I/O
Frequency converter:	Built-in
Pressure sensor:	N
Others:	
DOE Pump Energy Index CL:	0.00
DOE Pump Energy Index VL:	0.00
Net weight:	291 kg
Gross weight:	355 kg
Shipping volume:	1.14 m³
Config. file no:	95139531
Thrust handling device:	N
Country of origin:	DK
Custom tariff no.:	84137075

99264409 CRE 155-1-1 A-F-A-E-HQQE 50 Hz



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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 155-1-1, Product No. 99264409
Produced After 1840 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, bearing			99415823	1	pcs
47g	Lock ring				1	
47a	Bearing				1	
48	Nut				1	
-	Kit, bearing bracket cover			99432729	1	pcs
2d	Plug				4	
2c	Bracket				4	
-	Kit, coupling			99190035	1	pcs
- 7	Coupling cpl.				1	
10a	Coupling				2	
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 25			
			Thread: M10			
10	Parallel pin				1	
-	Kit, coupling guard			99196379	2	pcs
7b	Lock washer				2	
7a	Screw				2	
7	Coupling guard				1	
-	Kit, flange			99432761	1	pcs
440b	Retaining ring				1	
440a	Flange				1	
-	Kit, impeller, red. bearing			99554060	1	pcs
48	Nut				1	
49h	Impeller				1	
49b	Split cone				1	
-	Kit, O-rings			99262380	1	pcs
37	O-ring				2	
38	O-ring				8	
109	O-ring				1	
110	O-ring		Diameter: 21,5		1	
			Material type: EPDM			
			Thickness: 4,25			
-	Kit, plug			99262366	1	pcs
-	Plug cpl.				5	
25	Plug				1	
38	O-ring				1	
-	Air vent screw				1	
- 18	Air vent screw				1	
	Spindle					
	Plug					
38	O-ring				1	
-	Kit, shaft seal HQQE			99262346	1	pcs
	Grinding device				1	
105	Shaft seal				1	
-	Kit, staybolts			99190098	4	pcs
26	Staybolt				1	
36	Nut				1	
66a	Washer				1	
-	Kit, strap			99190058	2	pcs
26c	Washer		Designation: DIN 125A		1	
			Thickness: 1,6			
26b	Hex head screw				1	
26a	Strap				1	
-	Kit, wear parts			99262419	1	pcs
	Adjusting fork				1	
45	Neck ring				4	
47d	Lock washer				3	
47c	Bush				3	
65	Neck ring retainer				4	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Motor				1	pcs
-	Kit, bearing cpl.			96796676	1	
32b	Waved washer				2	
153	Angular-contact bearing				1	
154	Ball bearing				1	
157	O-ring				1	
159	V-ring				1	
-	Kit, bearing plate			96796664	1	
155.a	Bearing cover				1	
208a	Gasket				3	
208	Hex socket head cap screw		Designation: DIN912		3	
			Length (mm): 40			
			Thread: M5			
-	Kit, connector plugs			96348923	1	
	Connector plug 5-pole				1	
	Connector plug 4-pole				1	
	Connector plug 4-pole				1	
	Connector plug 3-pole				1	
	Connector plug 3-pole				1	
	Connector plug 3-pole				1	
	Connector plug 3-pole				1	
	Connector plug				1	
- 273	Kit, control board			96348918	1	
	Service kit instruction				1	
	Controlboard				1	
-	Kit, eyebolt			96796712	1	
189	Eyebolt				2	
-	Kit, fan cover			96830826	1	
151	Fan cover				1	
152.a	Rubber bush				4	
152	Hex head cap screw				4	
196	Diaphragm				1	
-	Kit, flange			96796662	1	
156.b	Flange				1	
159.b	Seal ring				1	
185.b	Nut				4	
185	Hex socket head cap screw				4	
186	Drain plug				4	
195.a	Grease nipple				1	
-	Kit, funct. module - adv. I/O			96348936	1	
263	Add-on module, cpl. w/plugs				1	
-	Kit, funct. module -Geni/RS485			96348932	1	
263	Add-on module, cpl. w/plugs				1	
-	Kit, gaskets			96798508	1	
184	O-ring		Diameter: 235		2	
275	Kit, inverter board			96348920	1	
-	Kit, lubrication nipple			96796671	1	
195.b	Grease nipple				2	
195.a	Grease nipple				1	
-	Kit, ND-end shield cpl.			96796669	1	
32b	Waved washer				1	
156.a	End shield NDE				1	
157	O-ring				1	
159	V-ring				1	
185.c	Nut				4	
185.a	Hex socket head cap screw				4	
195.b	Grease nipple				1	
-	Kit, opr. panel			96348924	1	
259	Operation panel				1	
274	Kit, rectifier board			96348921	1	
-	Kit, terminal box			96348914	1	
164	Cover cpl.				1	
166	Pan head thread forming screw				5	
251	Terminal box				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
277	Blind cover				1	
283	Motor cover cpl.				1	
284	Cover				1	
-	Kit, varistor			96348917	1	
279.b	Pan head thread forming screw				2	
279	Varistor				1	
2	Cover			99196496	1	pcs
+ 3a	Chamber			99446243	1	pcs
+ 3a	Chamber			99446238	1	pcs
+ 3a	Chamber			99446264	1	pcs
+ 3a	Chamber			99446259	1	pcs
+ 3a	Chamber			99415892	1	pcs
6	Base			99196472	1	pcs
26c	Washer	Designation: DIN 125A		99262704	2	pcs
		Thickness: 1,6				
26c	Washer	Designation: DIN 125A		99886930	2	pcs
		Thickness: 1,6				
28a	Hex head screw			96620478	4	pcs
32	Washer	Designation: DIN 125 A		98923051	8	pcs
		Internal diameter: 17				
		Outer diameter: 30				
		Thickness: 3				
36	Nut			99262693	4	pcs
37	O-ring			99865786	2	pcs
44	Suction part			99982958	1	pcs
44a	Discharge part			99196622	1	pcs
48	Nut			99446217	1	pcs
48	Nut			99446219	1	pcs
49h	Impeller			99262545	1	pcs
49h	Impeller			99262569	1	pcs
49b	Split cone			99262687	1	pcs
49b	Split cone			99262690	1	pcs
51	Shaft			99196560	1	pcs
55	Sleeve			99196439	1	pcs
56	Base plate			99196488	1	pcs
66a	Washer			99262700	4	pcs