

Inventflow: Grundfos A-partner

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

Find the pump here:

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

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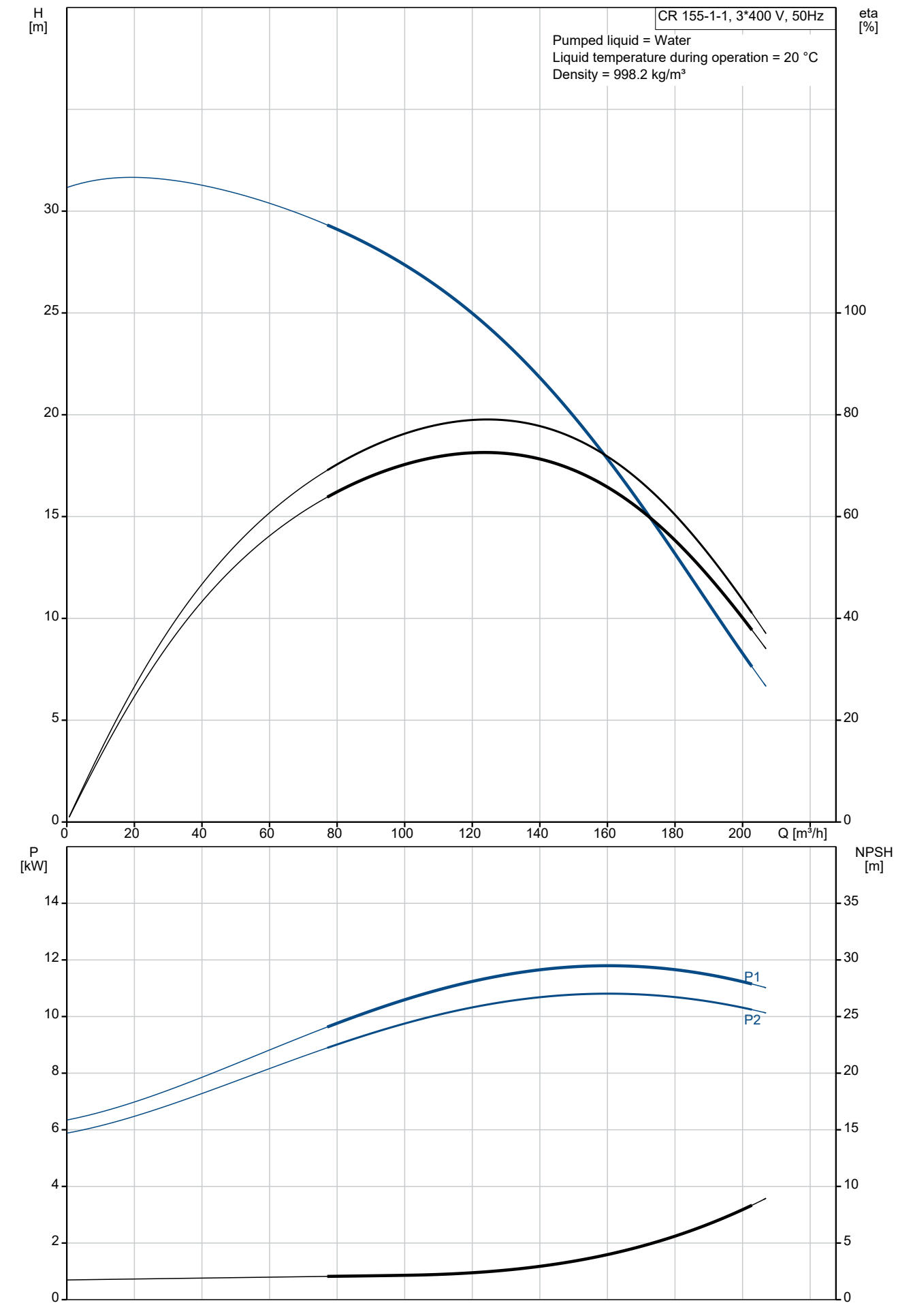
Datasheet



Qty.	Description
1	CR 155-1-1 A-F-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 99143254 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. 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: 2951 rpm Rated flow: 155 m³/h Rated head: 19.1 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 Installation: Maximum ambient temperature: 60 °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: 160MB IE Efficiency class: IE3

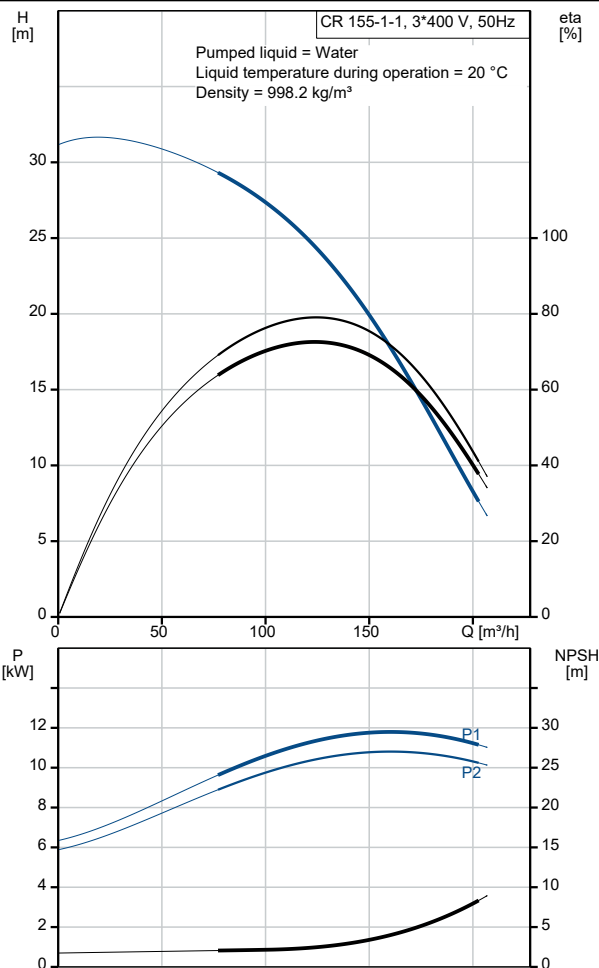
Qty.	Description
	Rated power - P2: 11 kW Power (P2) required by pump: 11 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D/660-690Y V Rated current: 20,8-19,8/12,0-11,8 A Starting current: 660-780 % Cos phi - power factor: 0.88-0.84 Rated speed: 2940-2950 rpm Efficiency: IE3 91,2% Motor efficiency at full load: 91.2-91.2 % Motor efficiency at 3/4 load: 91.8 % Motor efficiency at 1/2 load: 91.3 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 85U17524 Controls: Frequency converter: NONE Others: Net weight: 234 kg Gross weight: 298 kg Shipping volume: 1.14 m³ Thrust handling device: N Country of origin: DK Custom tariff no.: 84137075

99143254 CR 155-1-1 A-F-A-E-HQQE 50 Hz



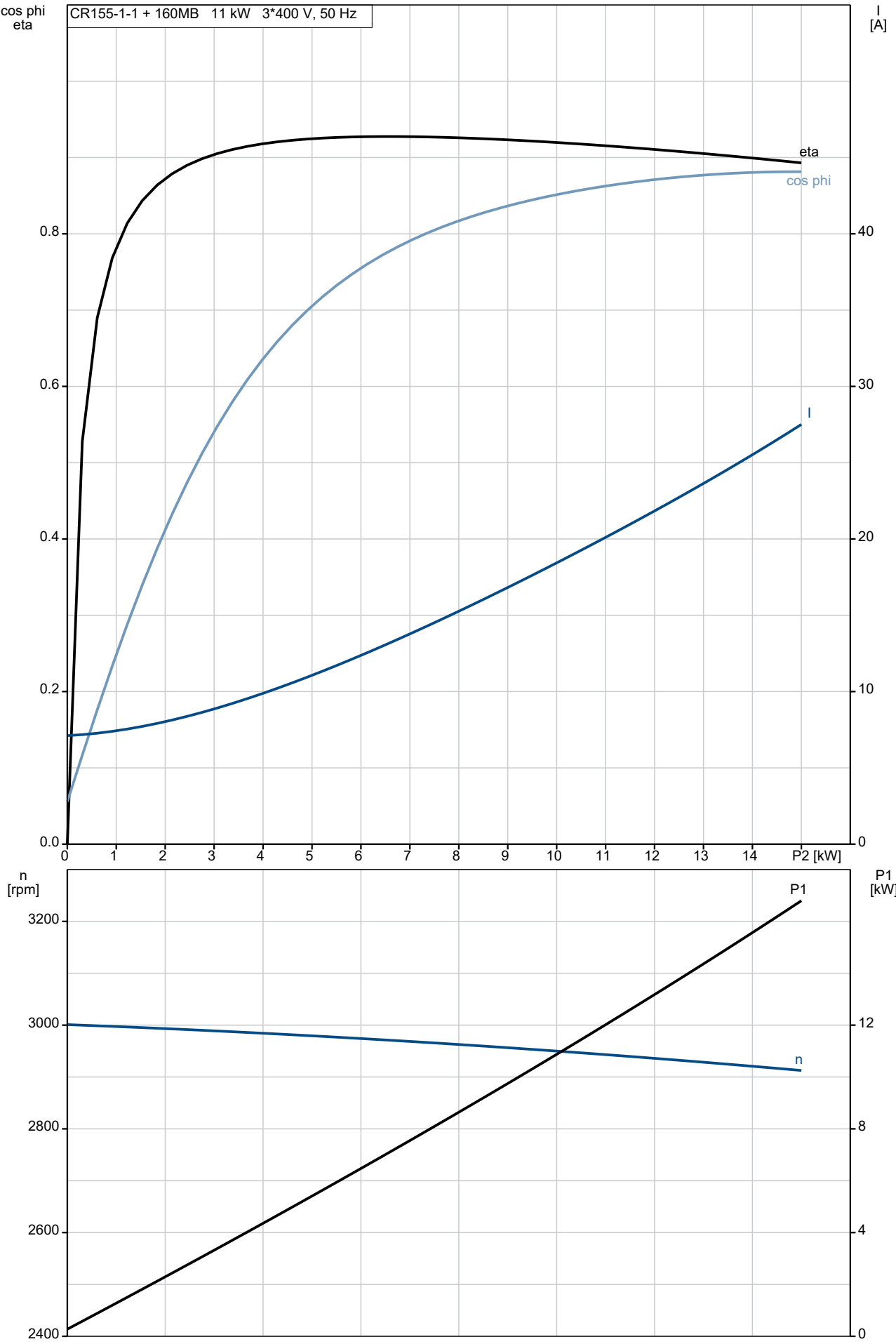
Description	Value
General information:	
Product name:	CR 155-1-1 A-F-A-E-HQQE
Product No:	99143254
EAN number:	5712607552749
Technical:	
Pump speed on which pump data are based:	2951 rpm
Rated flow:	155 m³/h
Rated head:	19.1 m
Maximum head:	31.6 m
Stages:	1
Impellers:	1
Number of reduced-diameter impellers:	1
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals:	CE,EAC,UKCA,ACS,WRAS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Cooling:	IC 411
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:	60 °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:	160MB
IE Efficiency class:	IE3
Rated power - P2:	11 kW
Power (P2) required by pump:	11 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415D/660-690Y V
Rated current:	20,8-19,8/12,0-11,8 A
Starting current:	660-780 %
Cos phi - power factor:	0.88-0.84
Rated speed:	2940-2950 rpm
Efficiency:	IE3 91,2%
Motor efficiency at full load:	91.2-91.2 %
Motor efficiency at 3/4 load:	91.8 %

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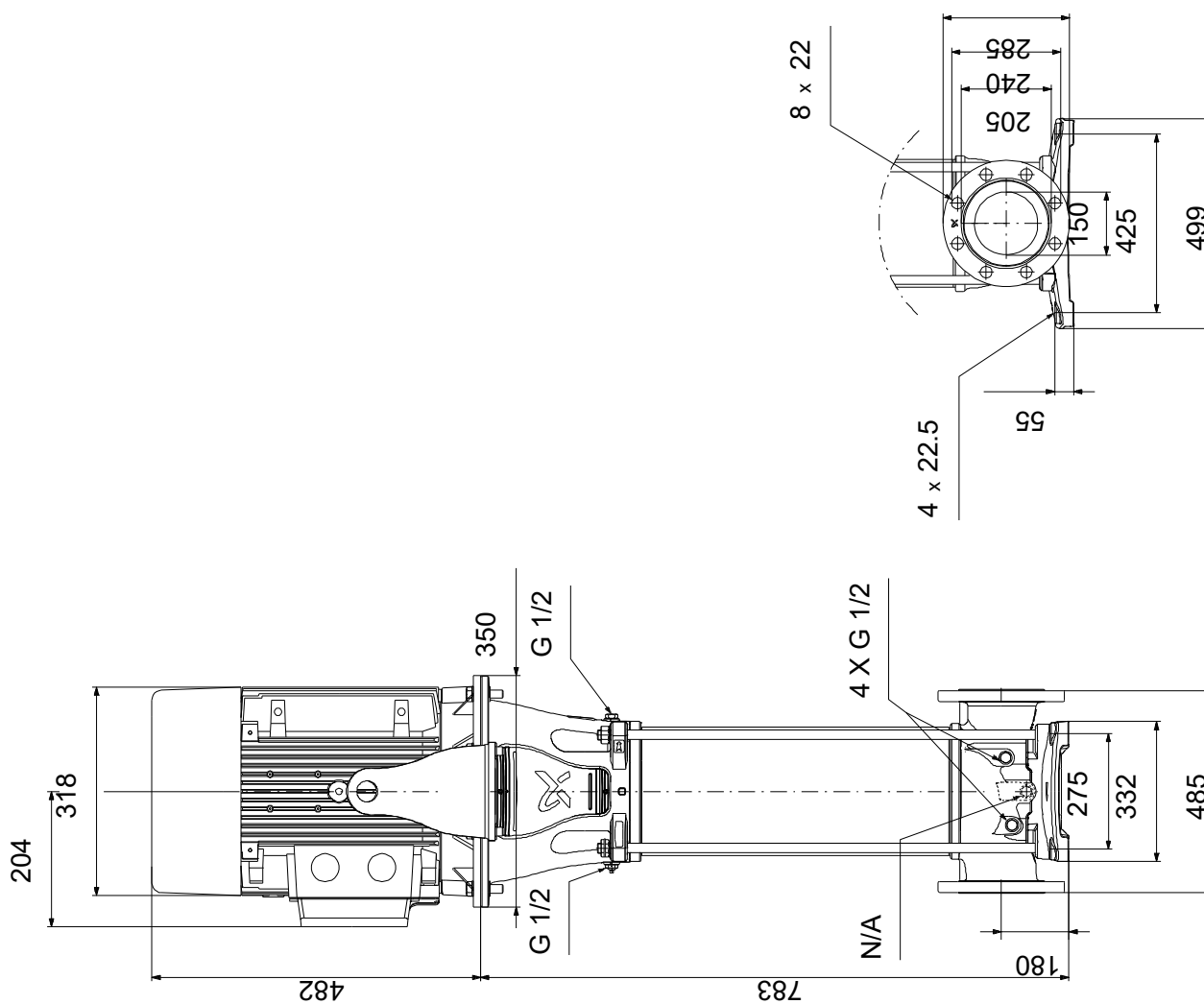


Description	Value
Motor efficiency at 1/2 load:	91.3 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17524
Controls:	
Frequency converter:	NONE
Others:	
Net weight:	234 kg
Gross weight:	298 kg
Shipping volume:	1.14 m ³
Thrust handling device:	N
Country of origin:	DK
Custom tariff no.:	84137075

99143254 CR 155-1-1 A-F-A-E-HQQE 50 Hz



99143254 CR 155-1-1 A-F-A-E-HQQE 50 Hz



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

Spare parts CR 155-1-1, Product No. 99143254
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, eyebolt			96796712	1	
189	Eyebolt				2	
-	Kit, fan			96796654	1	
156.c	Retaining ring				1	
156	Fan				1	
-	Kit, fan cover			96796647	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, gaskets			96798508	1	
184	O-ring		Diameter: 235		2	
-	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, shaft seal			96843459	1	
159.b	V-ring				1	
159	V-ring				1	
-	Kit, terminal board			96796657	1	
	Terminal connection				3	
	Washer				12	
36	Hex nut				12	
173	Torx Screw				1	
176.d	Terminal board				1	
176	Terminal board				1	
177	Torx Screw				1	
-	Kit, terminal box cover			96796659	1	
164	Terminal box cover				1	
273a	Pan head thread forming screw				4	
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

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
26c	Washer		Designation: DIN 125A Thickness: 1,6	99262704	2	pcs
26c	Washer		Designation: DIN 125A Thickness: 1,6	99886930	2	pcs
28a	Hex head screw			96620478	4	pcs
32	Washer		Designation: DIN 125 A Internal diameter: 17 Outer diameter: 30 Thickness: 3	98923051	8	pcs
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			99196486	1	pcs
66a	Washer			99262700	4	pcs