



POMPTECHNIEK • SERVICE • ONDERHOUD

Inventflow: Grundfos A-partner

Grundfos CR 64-2-1 A-F-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cr/grundfos-cr-64-2-1-a-f-a-e-hqqe>

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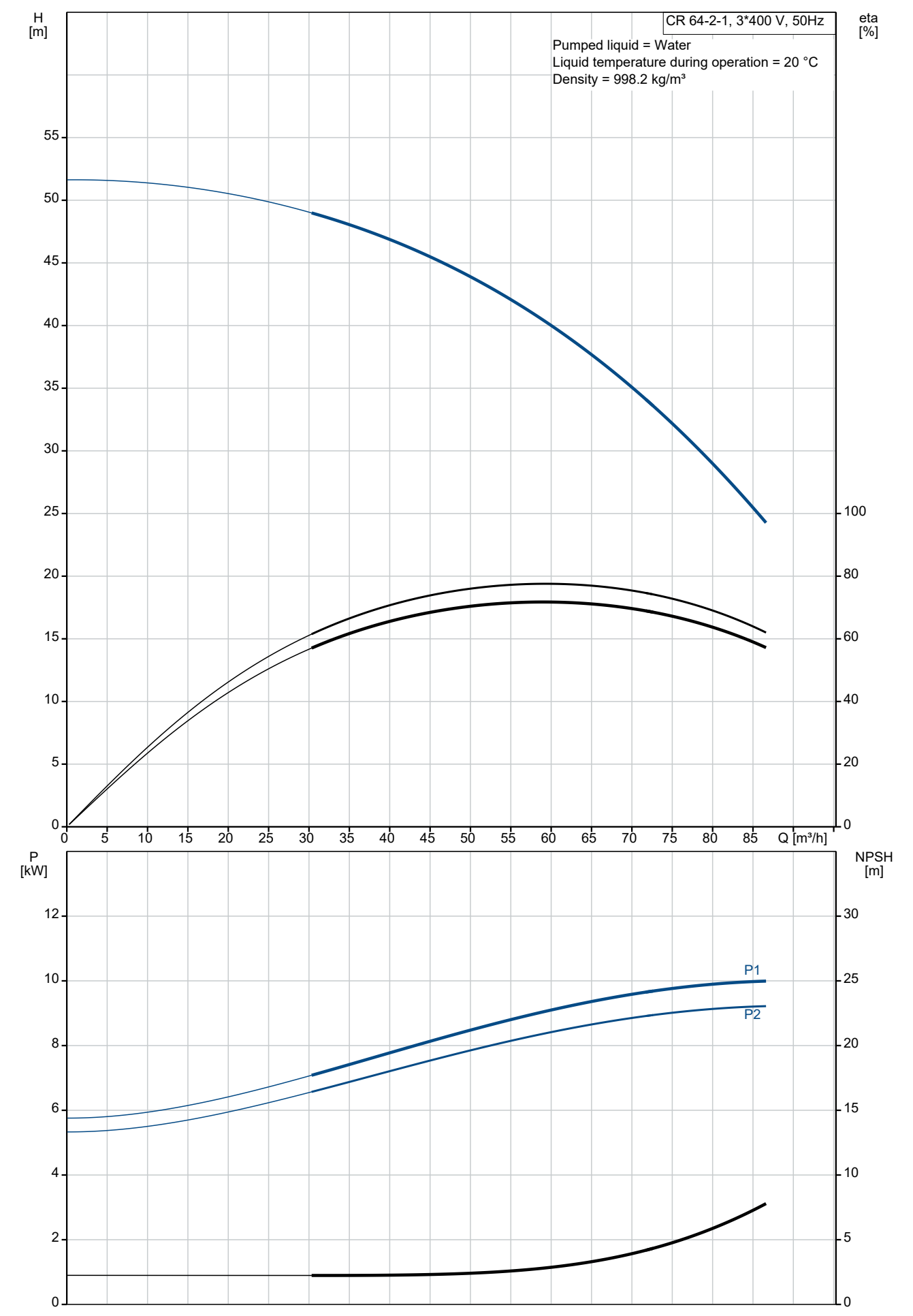
Datasheet



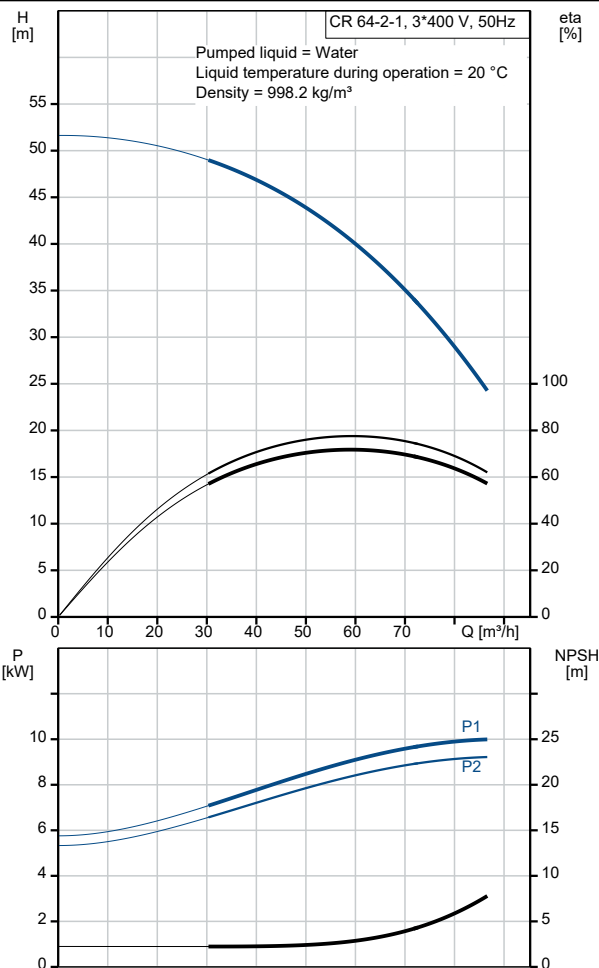
Qty.	Description
1	CR 64-2-1 A-F-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 96123529 Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers and intermediate chambers are made of Stainless steel, EN 1.4301. Impeller: Stainless steel, 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. Phase: The motor is a 3-phase AC motor. Controls: Frequency converter: NONE 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: 2924 rpm Rated flow: 64 m³/h Rated head: 37.2 m Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals on nameplate: CE, EAC, 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

Qty.	Description
	Installation: Maximum ambient temperature: 60 °C Maximum operating pressure: PN 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: FF300 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 % 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 Others: Minimum efficiency index, MEI ≥: 0.7 Net weight: 162 kg Gross weight: 195 kg Shipping volume: 0.495 m³ Danish VVS No.: 385908021 Finnish LVI No.: 4925513 Country of origin: DK Custom tariff no.: 84137075

96123529 CR 64-2-1 A-F-A-E-HQQE 50 Hz

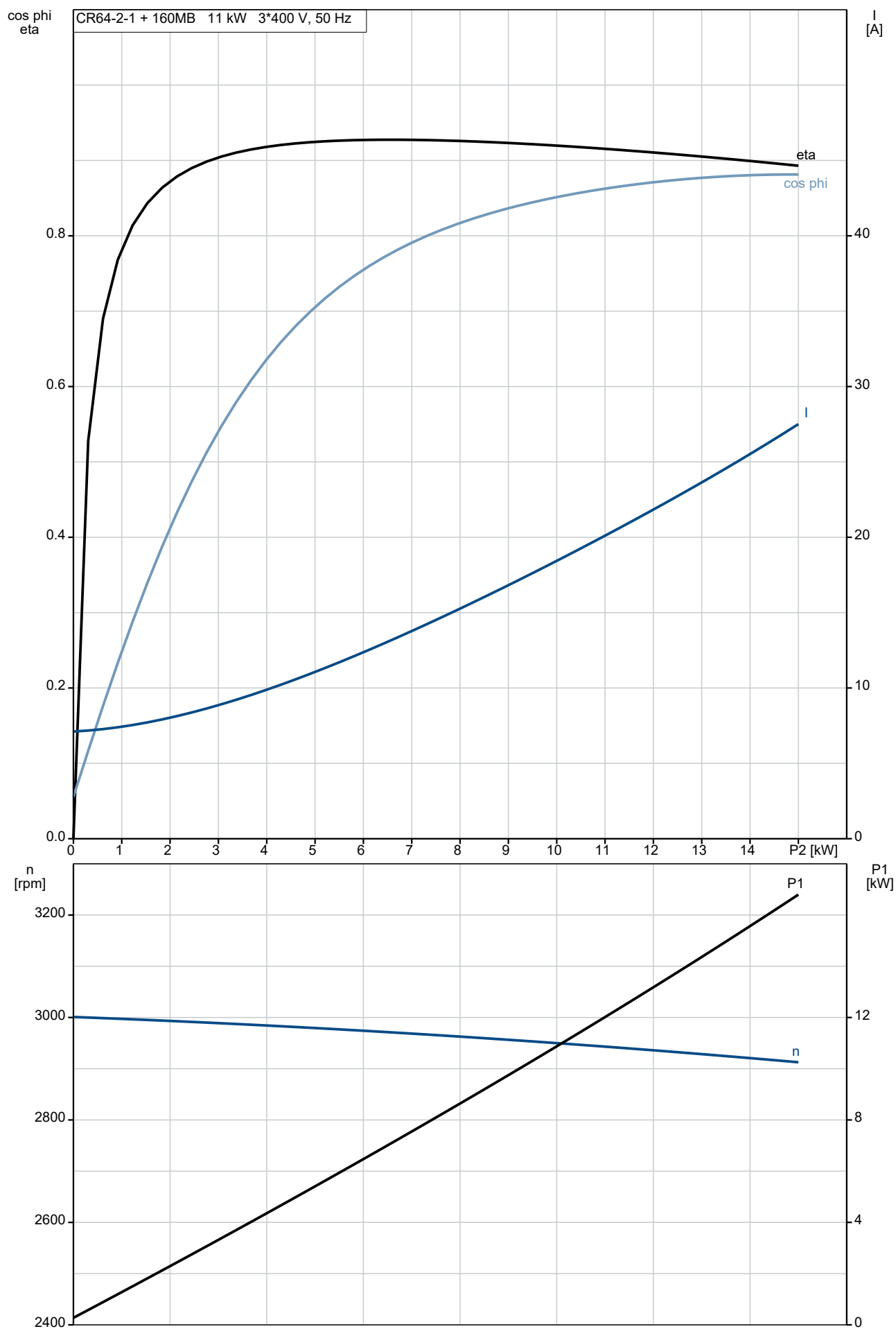


Description	Value		
General information:			
Product name:	CR 64-2-1 A-F-A-E-HQQE		
Product No:	96123529		
EAN number:	5700396697390		
Technical:			
Pump speed on which pump data are based:	2924 rpm		
Rated flow:	64 m³/h		
Rated head:	37.2 m		
Maximum head:	51.3 m		
Stages:	2		
Impellers:	2		
Number of reduced-diameter impellers:	1		
Low NPSH:	N		
Pump orientation:	Vertical		
Shaft seal arrangement:	Single		
Code for shaft seal:	HQQE		
Approvals on nameplate:	CE, EAC, ACS		
Curve tolerance:	ISO9906:2012 3B		
Pump version:	A		
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:	60 °C		
Maximum operating pressure:	PN 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:	FF300		
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:	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 %		

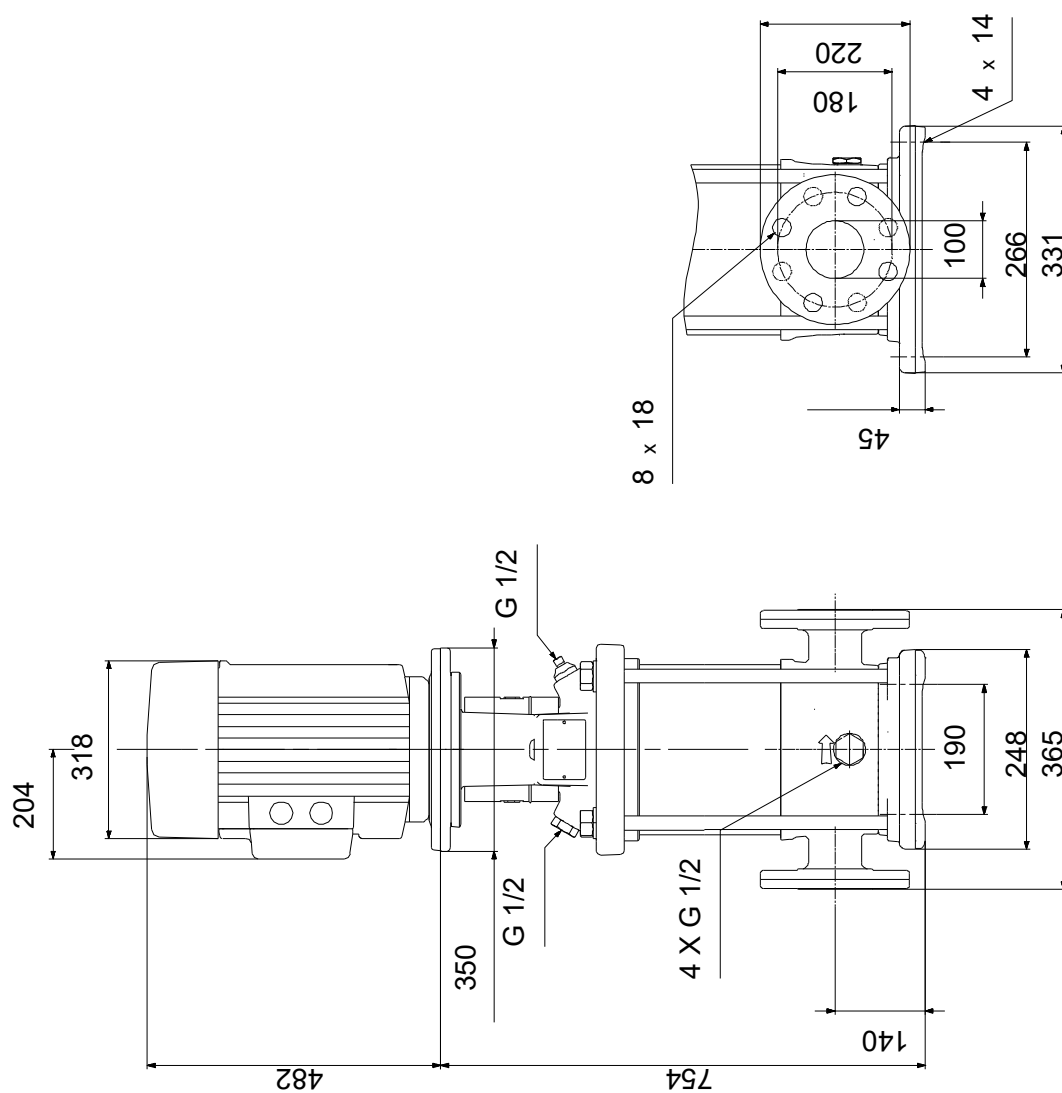


Description	Value
Motor efficiency at 3/4 load:	91.8 %
Motor efficiency at 1/2 load:	91.3 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17524
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.7
Net weight:	162 kg
Gross weight:	195 kg
Shipping volume:	0.495 m ³
Danish VVS No.:	385908021
Finnish LVI No.:	4925513
Country of origin:	DK
Custom tariff no.:	84137075

96123529 CR 64-2-1 A-F-A-E-HQQE 50 Hz



96123529 CR 64-2-1 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 64-2-1, Product No. 96123529
Produced After 1410 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Base			96587673	1	pcs
6	Base				1	
- 80	Kit, chamber stack			96416310	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					
47d	Lock ring					
47c	Bush					
- 4a	Intermediate chamber cpl.				1	
	Cone					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
- 45a	Neck ring cpl.					
45	Seal ring					
46	Neck ring					
65	Top f/neck ring					
47	Bearing					
26c	Washer		Designation: DIN 125A		2	
			Thickness: 1,6			
26b	Hex socket head cap screw				2	
26a	Strap cpl.		Length (mm): 174,5		2	
			Thread: M8			
- 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					
- 49e	Impeller cpl.				1	
48	Nut					
49b	Split cone					
- 49	Impeller					
	Impeller hub					
49c	Wear ring					
- 49d	Impeller cpl. reduced diameter				1	
48	Nut					
49b	Split cone					
- 49a	Impeller, reduced diameter					
	Impeller hub					
49c	Wear ring					
51	Shaft				1	
-	Kit, chambers			98497500	1	pcs
- 4a	Intermediate chamber cpl.				1	
	Cone				1	
	Spare, turbulence optimizer KP				1	
	Spare, turbulence optimizer KP				1	
	Spare, turbulence optimizer KP				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
	Spare, turbulence optimizer KP				1	
	Spare, turbulence optimizer KP				10	
- 45a	Neck ring cpl.				1	
45	Seal ring					
46	Neck ring					
65	Top f/neck ring					
47	Bearing				1	
- 47a	Bearing cpl.				1	
	Driver				1	
	Holder				1	
	Disc spring				1	
	Bearing ring				1	
-	Kit, coupling			96416592	1	pcs
	Adjusting fork				1	
- 8	Coupling cpl.	Dimension: 22/42			1	
9	Hex socket head cap screw	Designation: DIN 912			4	
		Length (mm): 25				
		Thread: M10				
10a	Coupling half				2	
-	Kit, coupling guard			96505135	1	pcs
7a	Socket button head screw				4	
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			98497503	1	pcs
48	Nut				1	
48	Nut				1	
49b	Split cone				1	
- 49	Impeller				1	
	Impeller hub				1	
49c	Wear ring				1	
-	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				

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
38	O-ring		Thickness: 2,4 Diameter: 16,3 Material type: FKM Thickness: 2,4		6	
-	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 Material type: EPDM Thickness: 4,25		1	
-	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, 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 Length (mm): 40 Thread: M5		3	
-	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	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
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	
1a	Motor stool			98993921	1	pcs
2	Pump head			96547433	1	pcs
- 3	Upper chamber cpl.			98634144	1	pcs
47c	Bush			99321194	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	
47	Bearing			99964632	1	
47	Bearing			99928986	1	
7a	Socket button head screw			96549696	4	pcs
7	Coupling guard			96603279	2	pcs
9	Hex socket head cap screw	Designation: DIN 912		99789390	4	pcs
		Length (mm): 25				
		Thread: M10				
+ 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				
26c	Washer	Designation: DIN 125A		99886930	2	pcs
		Thickness: 1,6				
26b	Hex socket head cap screw			98931380	2	pcs
26a	Strap cpl.	Length (mm): 174,5		98907619	2	pcs
		Thread: M8				
26	Staybolt	Length (mm): 333		98976736	4	pcs
		Thread: M16				
28.a	Hex head screw			96620478	4	pcs
28	Hex socket head cap screw	Designation: DIN 912		96536147	4	pcs
		Length (mm): 50				
		Thread: M10				
32	Washer	Designation: DIN 125 A		98923051	8	pcs
		Internal diameter: 17				
		Outer diameter: 30				
		Thickness: 3				
36	Hex nut	Thread: M16		96620480	4	pcs
37	O-ring			96536142	1	pcs
38	O-ring			99198815	2	pcs
38	O-ring			99412727	2	pcs
- 44	Suction interconnector cpl.			98634152	1	pcs
45	Seal ring			96536030	1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
65	Top f/neck ring			96536014	1	
+ 47a	Bearing cpl.			99270649	1	pcs
+ 47a	Bearing cpl.			96535951	1	pcs
48	Nut			99262680	1	pcs
48	Nut			99262683	1	pcs
48	Nut			96536016	1	pcs
- 49e	Impeller cpl.			96536036	1	pcs
48	Nut			99262680	1	
48	Nut			99262683	1	
48	Nut			96536016	1	
49b	Split cone			96536010	1	
+ 49e	Impeller cpl.			98394371	1	pcs
49b	Split cone			96536010	1	pcs
- 49a	Impeller, reduced diameter			99500075	1	pcs
49c	Wear ring			96535879	1	
51	Shaft			98506332	1	pcs
55	Outer sleeve		Outer diameter: 216,0 Length (mm): 188,5	98820376	1	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
440b	Lock ring			96547435	1	pcs