

Inventflow: Grundfos A-partner

Grundfos CR 32-4-2 A-F-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cr/grundfos-cr-32-4-2-a-f-a-e-hqqe>

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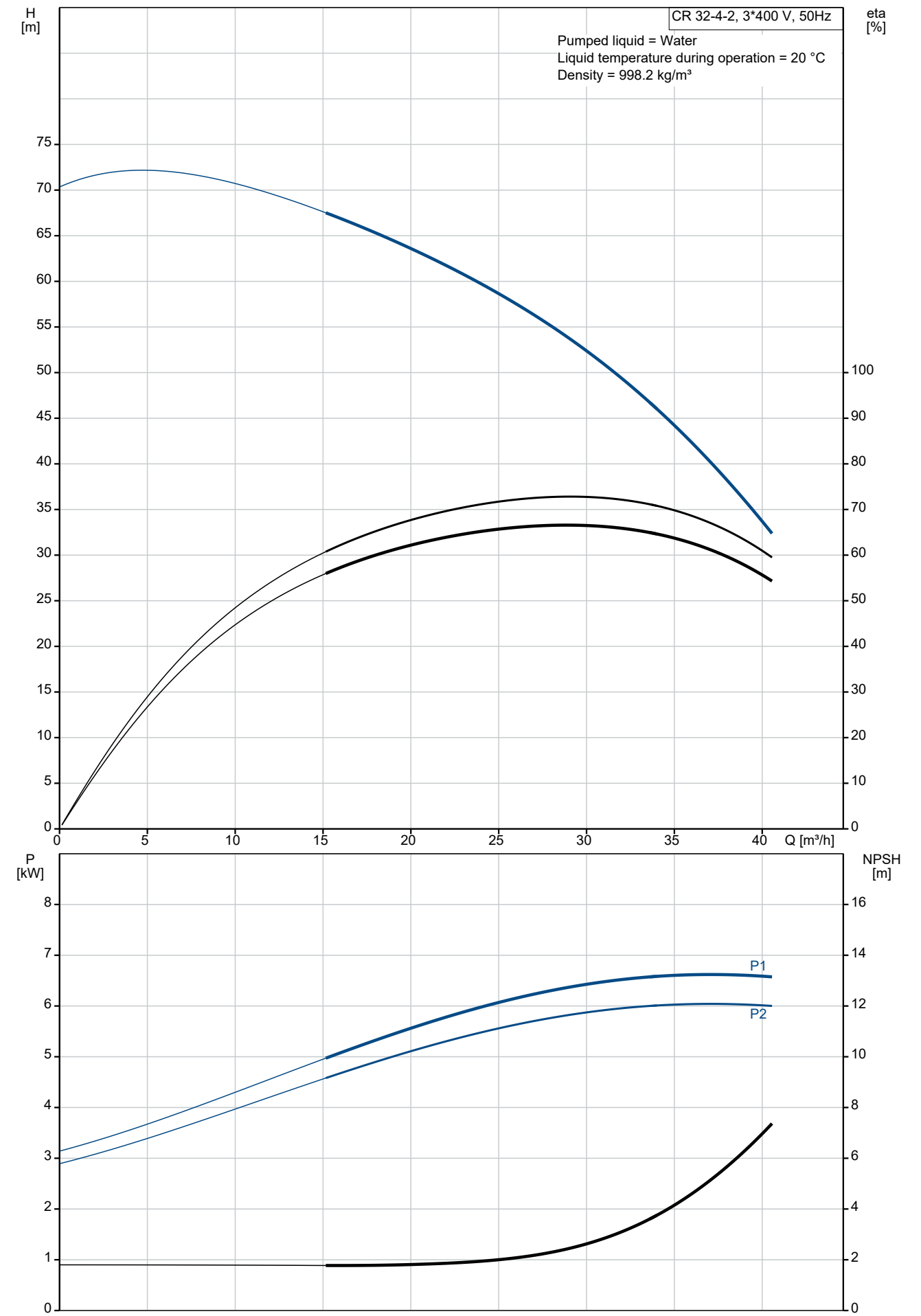
Datasheet



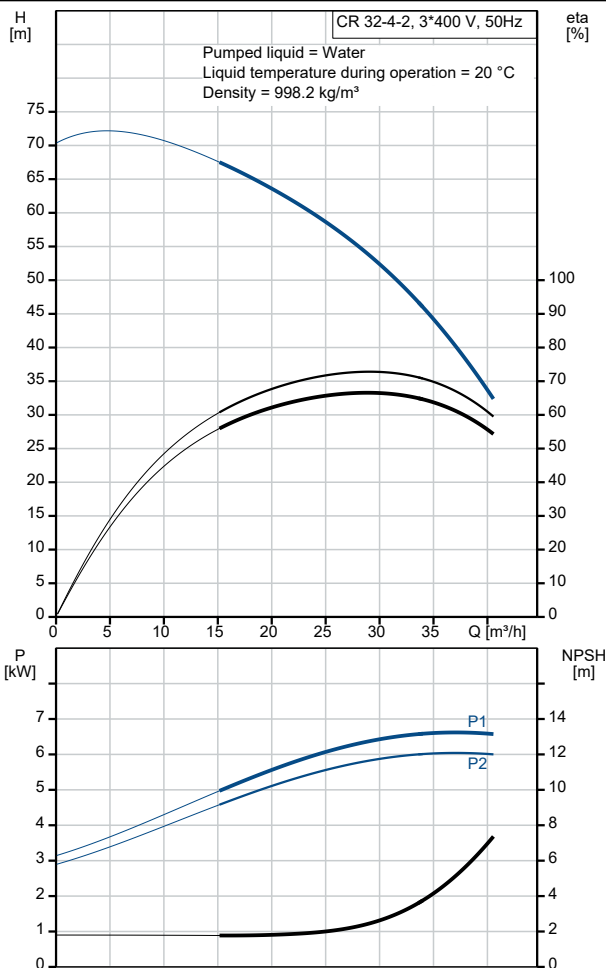
Qty.	Description
1	CR 32-4-2 A-F-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 96122012 Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers 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: 2919 rpm Rated flow: 30 m³/h Rated head: 53.1 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:

Qty.	Description
	Maximum ambient temperature: 60 °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 65 Size of outlet connection: DN 65 Pressure rating for connection: PN 40 Flange size for motor: FF265 Electrical data: Motor standard: IEC Motor type: 132SB IE Efficiency class: IE3 Rated power - P2: 7.5 kW Power (P2) required by pump: 7.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D/660-690Y V Rated current: 14,4-14,0/8,30-8,10 A Starting current: 780-910 % Cos phi - power factor: 0.88-0.82 Rated speed: 2910-2920 rpm Efficiency: IE3 90,1% Motor efficiency at full load: 90.1-90.4 % Motor efficiency at 3/4 load: 90.8 % Motor efficiency at 1/2 load: 90.8 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 85U17522 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 110 kg Gross weight: 133 kg Shipping volume: 0.309 m³ Danish VVS No.: 385906042 Swedish RSK No.: 5824874 Finnish LVI No.: 4925461 Country of origin: DK Custom tariff no.: 84137075

96122012 CR 32-4-2 A-F-A-E-HQQE 50 Hz

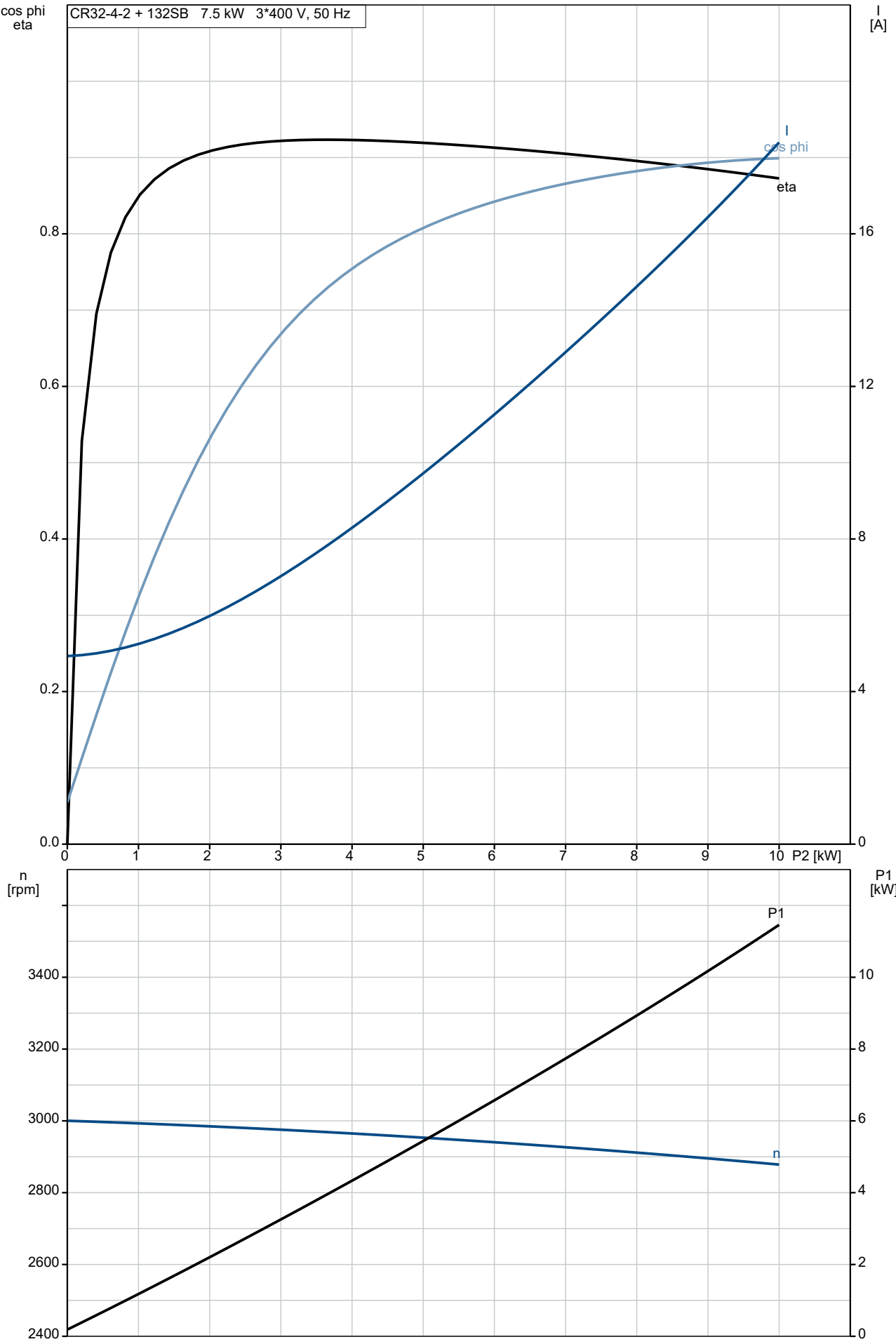


Description	Value		
General information:			
Product name:	CR 32-4-2 A-F-A-E-HQQE		
Product No:	96122012		
EAN number:	5700396680569		
Technical:			
Pump speed on which pump data are based:	2919 rpm		
Rated flow:	30 m³/h		
Rated head:	53.1 m		
Maximum head:	70.3 m		
Stages:	4		
Impellers:	4		
Number of reduced-diameter impellers:	2		
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:	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:	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 65		
Size of outlet connection:	DN 65		
Pressure rating for connection:	PN 40		
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:	132SB		
IE Efficiency class:	IE3		
Rated power - P2:	7.5 kW		
Power (P2) required by pump:	7.5 kW		
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-415D/660-690Y V		
Rated current:	14,4-14,0/8,30-8,10 A		
Starting current:	780-910 %		
Cos phi - power factor:	0.88-0.82		
Rated speed:	2910-2920 rpm		
Efficiency:	IE3 90,1%		
Motor efficiency at full load:	90.1-90.4 %		

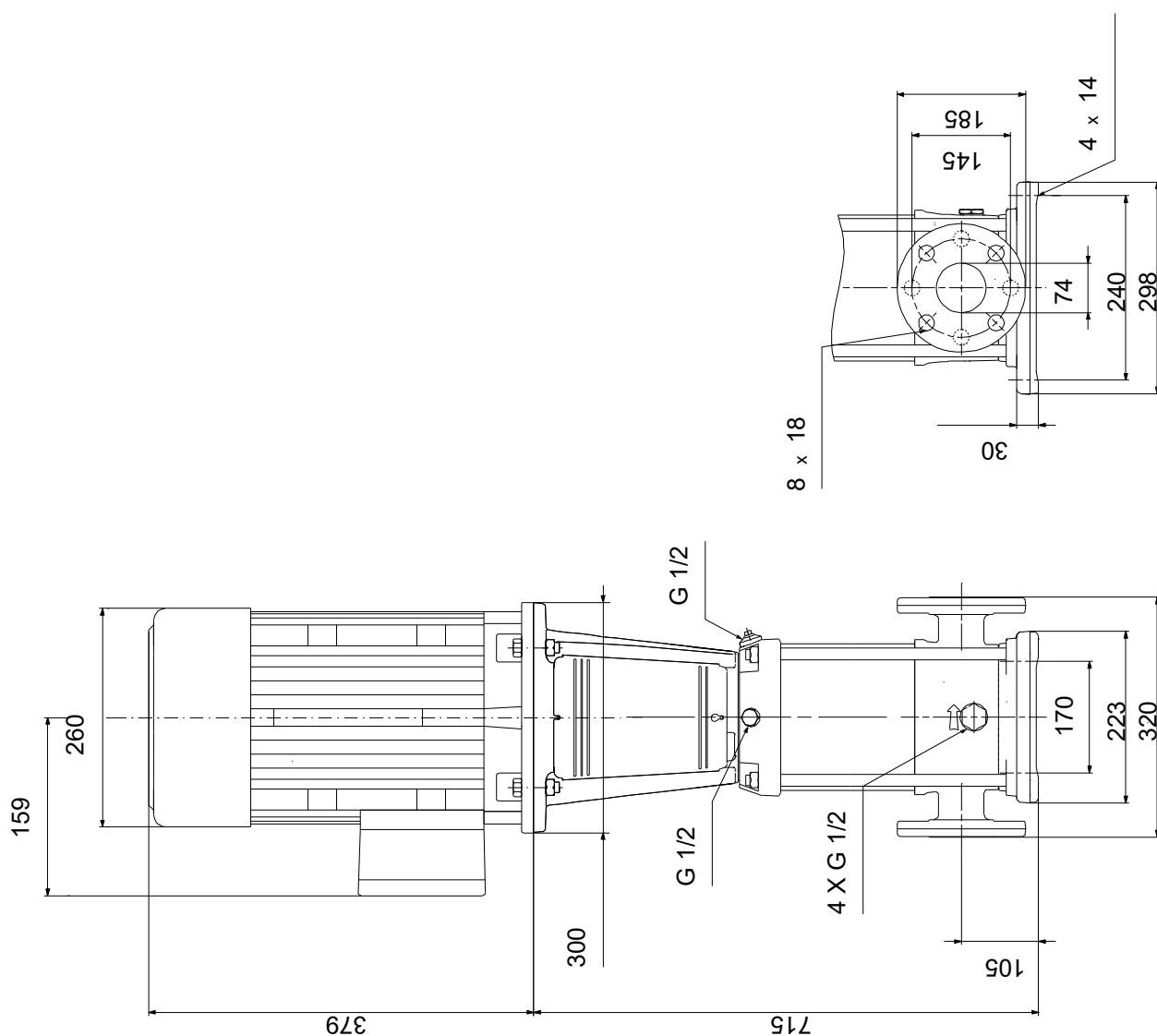


Description	Value
Motor efficiency at 3/4 load:	90.8 %
Motor efficiency at 1/2 load:	90.8 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17522
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	110 kg
Gross weight:	133 kg
Shipping volume:	0.309 m ³
Danish VVS No.:	385906042
Swedish RSK No.:	5824874
Finnish LVI No.:	4925461
Country of origin:	DK
Custom tariff no.:	84137075

96122012 CR 32-4-2 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 CR 32-4-2, Product No. 96122012
Produced After 1410 (production year and week number)

Pos	Omschrijving	Opmerking	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
	Base			96547299	1	pcs
6	Base				1	
	Kit, chamber stack			96416907	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					
	Guide					
47d	Lock ring					
47c	Bush					
4a	Intermediate chamber cpl.					1
	Intermediate chamber cpl.					
45a	Neck ring cpl.					
45	Seal ring					
46	Neck ring					
65	Top f/neck ring					
47	Bearing					
4	Intermediate chamber cpl.					2
	Cone					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Guide					
45a	Neck ring cpl.					
45	Seal ring					
46	Neck ring					
65	Top f/neck ring					
47d	Lock ring					
47c	Bush					
26c	Washer		Designation: DIN 125A			2
			Thickness: 1,6			
26b	Hex socket head cap screw					2
26a	Strap cpl.		Length (mm): 289			2
			Thread: M8			
44	Suction interconnector cpl.					1
	Suction interconnector					
45	Seal ring					
46	Neck ring					
65	Top f/neck ring					
47a	Bearing cpl.					1
	Driver					
	Holder					
	Disc spring					
	Bearing ring					
49e	Impeller cpl.					2
48	Nut					
49b	Split cone					
49	Impeller					
	Impeller hub					
49c	Wear ring					
49d	Impeller cpl. reduced diameter					2
48	Nut					
49b	Split cone					
49a	Impeller					
	Impeller hub					

Pos	Omschrijving	Opmerking	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
49c	Wear ring					
51	Shaft				1	
	Kit, chambers			98497462	1	pcs
4a	Intermediate chamber cpl.				1	
	Intermediate chamber cpl.				1	
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			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	
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			96416597	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			98497465	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			98633832	1	pcs
48	Nut				1	
48	Nut				1	
49b	Split cone				1	
49a	Impeller				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			

Pos	Omschrijving	Opmerking	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
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			98497451	1	pcs
45	Seal ring				7	
47d	Lock ring				7	
47c	Bush				5	
49c	Wear ring				7	
65	Top f/neck ring				7	
	Motor			91333038	1	pcs
	Kit, bearing cpl.			96796642	1	
111	Ball bearing		Designation: 6206.2Z.C3.SYN		1	
153	Angular-contact bearing				1	
157	O-ring		Diameter: 62		1	
			Material type: NBR			
			Thickness: 3			
158	Waved washer				2	
159. b	V-ring				1	
159	V-ring				1	
	Kit, eyebolt			96279874	1	
189	Lifting eye				1	
	Kit, fan			96796189	1	
156	Fan				1	
	Kit, fan cover			96796188	1	
151	Fan cover				1	
152	Pan head thread forming screw				4	
	Kit, flange			96796224	1	
156. b	Flange				1	
159. b	V-ring				1	
185c	Nut				4	
185	Hex socket head cap screw				4	
186	Drain plug				4	
	Kit, gaskets			96798510	1	
184	O-ring				2	
	Kit, ND-end shield cpl.			96796598	1	
156. a	End shield NDE				1	
157	O-ring		Diameter: 62		1	
			Material type: NBR			
			Thickness: 3			
158	Waved washer				1	
159	V-ring				1	
185. c	Nut				4	
185. a	Hex socket head cap screw				4	
	Kit, shaft seal			96843458	1	
159. b	V-ring				1	
159	V-ring				1	

Pos	Omschrijving	Opmerking	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
	Kit, terminal board			96030209	1	
	Bracket cpl.					1
163	Hex socket head screw					1
176	Terminal					1
176	Terminal board					1
178	Connecting piece					3
179	Cable shoe					6
180a	Slot cheese head screw		Designation: COMBI TORX T25			6
			Length (mm): 10			
			Thread: M5			
180	Wire clamp					6
	Kit, terminal box cover			96796215	1	
164	Terminal box cover w/gasket					1
166	Pan head thread forming screw					4
1a	Motor stool			96547431	1	pcs
2	Pump head			96587722	1	pcs
3	Upper chamber cpl.			98633863	1	pcs
47c	Bush			99321194	1	
4a	Intermediate chamber cpl.			99262755	1	pcs
47	Bearing			99964632	1	
47	Bearing			99928986	1	
4a	Intermediate chamber cpl.			99363114	1	pcs
4	Intermediate chamber cpl.			96534939	2	pcs
45a	Neck ring cpl.			98686545	1	
45	Seal ring			97915217	1	
65	Top f/neck ring			96534931	1	
4	Intermediate chamber cpl.			98497466	2	pcs
6	Base cpl.		Rubber type: EPDM	96587692	1	pcs
25	Plug			96536013	4	
37	O-ring			96536149	1	
38	O-ring			99198815	4	
38	O-ring			99412727	4	
7a	Socket button head screw			96549696	4	pcs
7	Coupling guard			96603300	2	pcs
8	Coupling cpl.		Dimension: 22/38	96587705	1	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): 289	98983837	2	pcs
			Thread: M8			
26	Staybolt		Length (mm): 426	98923038	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			

Pos	Omschrijving	Opmerking	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
36	Hex nut		Thread: M16	96620480	4	pcs
36	Nut		Thread: M12	96620479	4	pcs
37	O-ring			96536149	1	pcs
38	O-ring			99198815	2	pcs
38	O-ring			99412727	2	pcs
44	Suction interconnector cpl.			96547328	1	pcs
45	Seal ring			97915217	1	
65	Top f/neck ring			96534931	1	
47a	Bearing cpl.			99366796	1	pcs
47a	Bearing cpl.			99620191	1	pcs
47a	Bearing cpl.			96534932	1	pcs
49e	Impeller cpl.			98287180	2	pcs
49c	Wear ring			96534930	1	
49e	Impeller cpl.			96534935	2	pcs
49e	Impeller cpl.			98394455	2	pcs
49d	Impeller cpl. reduced diameter			98394463	2	pcs
48	Nut			99262680	1	
48	Nut			99262683	1	
48	Nut			96536016	1	
49b	Split cone			96536010	1	
49a	Impeller			96534937	1	
49c	Wear ring			96534930	1	
51	Shaft			98506278	1	pcs
55	Outer sleeve		Outer diameter: 197,0 Length (mm): 305,5	98895077	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			96534918	1	pcs