

Inventflow: Grundfos A-partner

Grundfos CR 32-1-1 A-F-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cr/grundfos-cr-32-1-1-a-f-a-e-hqqe>

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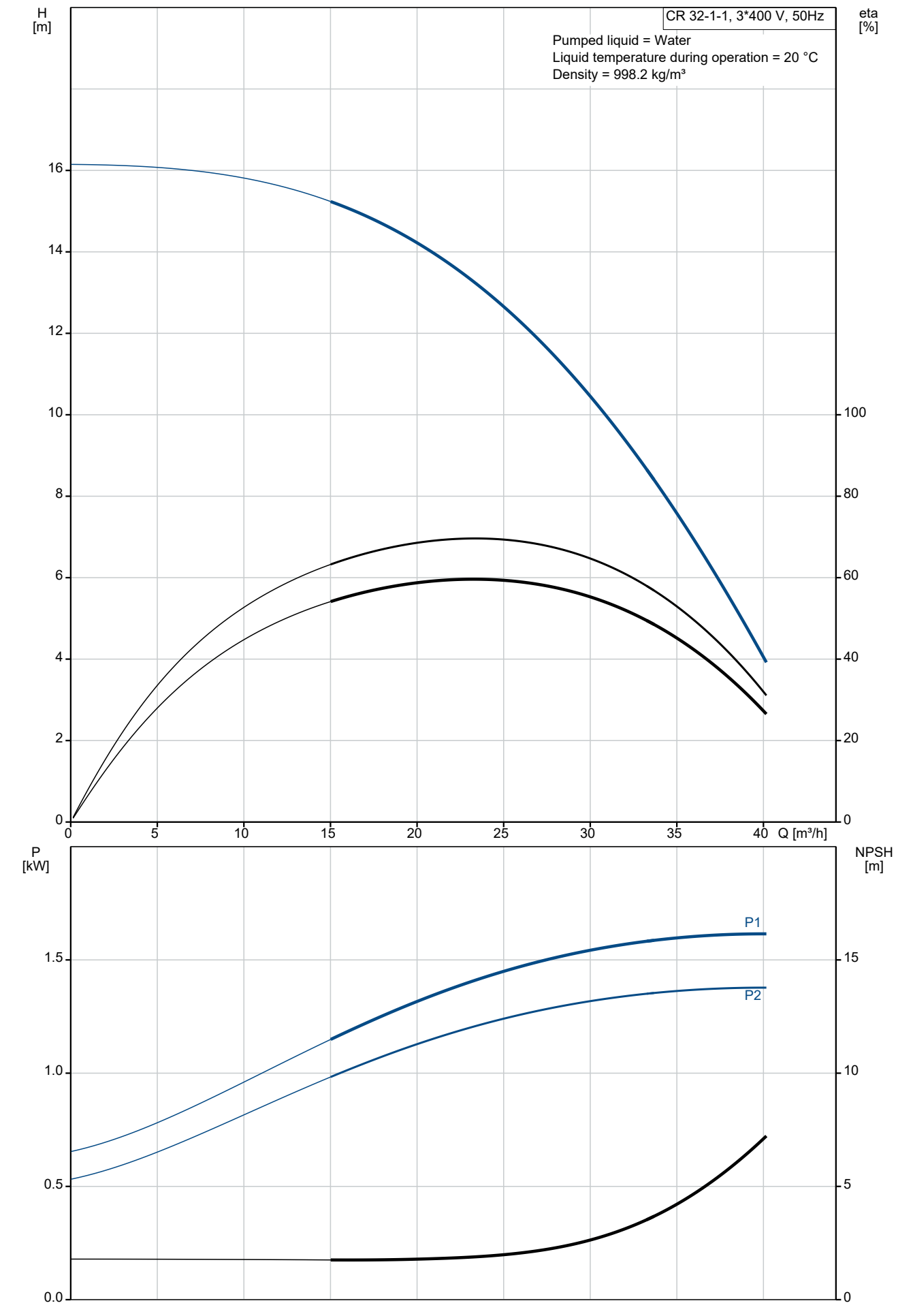
Datasheet



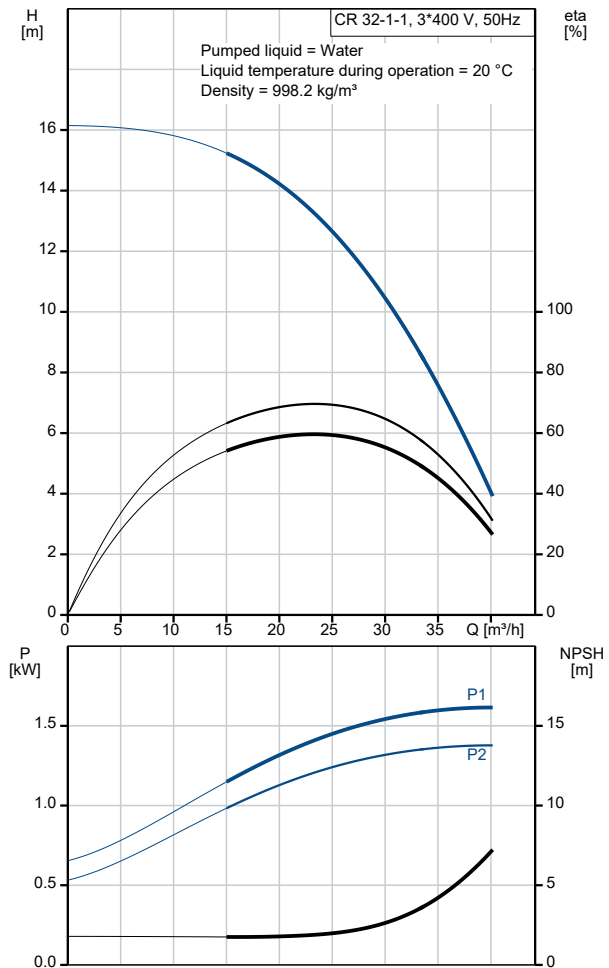
Qty.	Description
1	CR 32-1-1 A-F-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 96121950 Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers 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: 2896 rpm Rated flow: 30 m³/h Rated head: 10.7 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: FT115 Electrical data: Motor standard: IEC Motor type: 90SD IE Efficiency class: IE3 Rated power - P2: 1.5 kW Power (P2) required by pump: 1.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 5.70/3.30 A Starting current: 750-820 % Cos phi - power factor: 0.84-0.78 Rated speed: 2890-2910 rpm Efficiency: IE3 84,2% Motor efficiency at full load: 84.2-84.2 % Motor efficiency at 3/4 load: 86.4 % Motor efficiency at 1/2 load: 86.0 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 85U01906 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 63.1 kg Gross weight: 86 kg Shipping volume: 0.309 m³ Danish VVS No.: 385906011 Swedish RSK No.: 5824868 Finnish LVI No.: 4925456 Country of origin: DK Custom tariff no.: 84137075

96121950 CR 32-1-1 A-F-A-E-HQQE 50 Hz

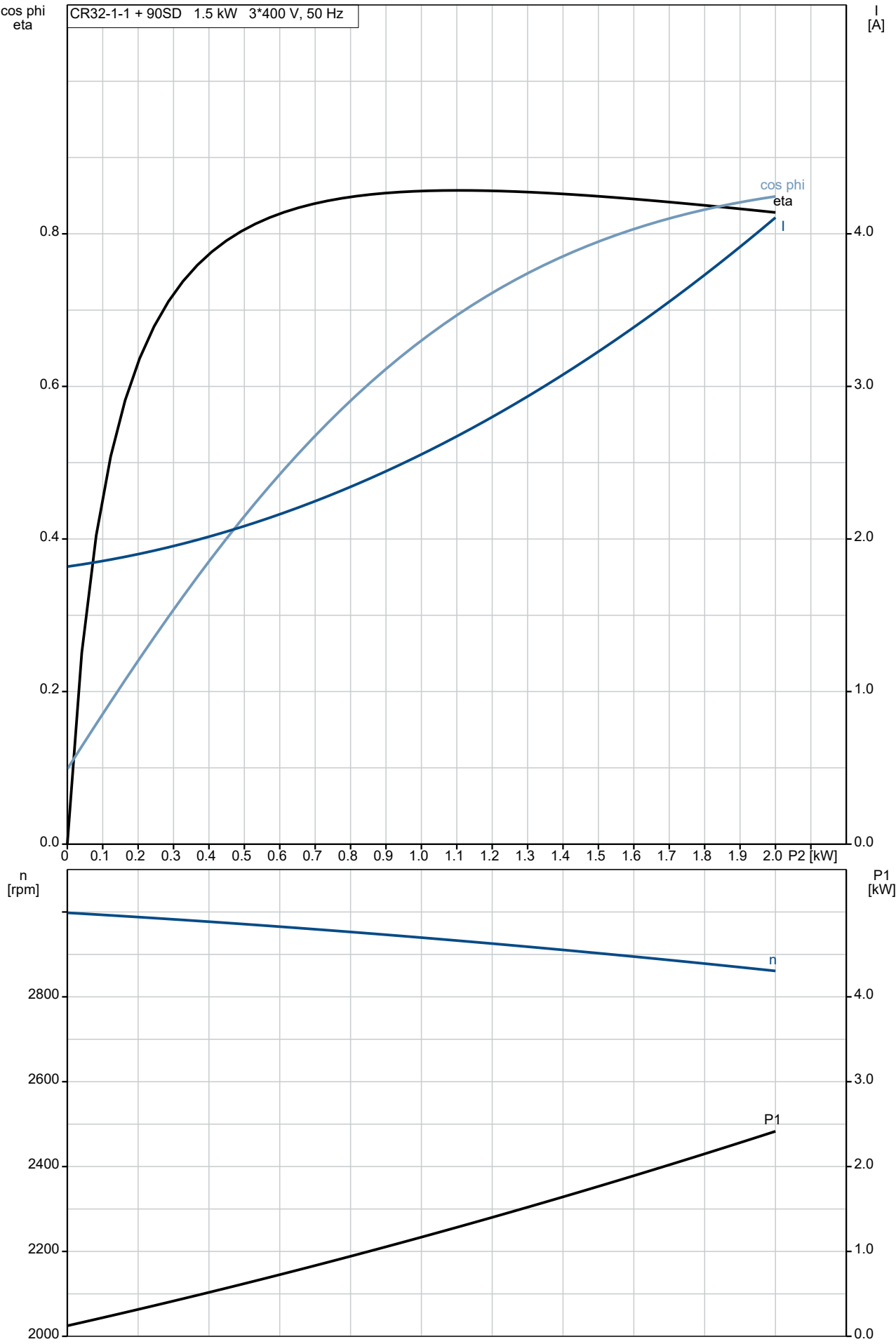


Description	Value
General information:	
Product name:	CR 32-1-1 A-F-A-E-HQQE
Product No:	96121950
EAN number:	5700396679242
Technical:	
Pump speed on which pump data are based:	2896 rpm
Rated flow:	30 m³/h
Rated head:	10.7 m
Maximum head:	16 m
Stages:	1
Impellers:	1
Number of reduced-diameter impellers:	1
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals 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:	FT115
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:	90SD
IE Efficiency class:	IE3
Rated power - P2:	1.5 kW
Power (P2) required by pump:	1.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Rated current:	5.70/3.30 A
Starting current:	750-820 %
Cos phi - power factor:	0.84-0.78
Rated speed:	2890-2910 rpm
Efficiency:	IE3 84,2%
Motor efficiency at full load:	84.2-84.2 %

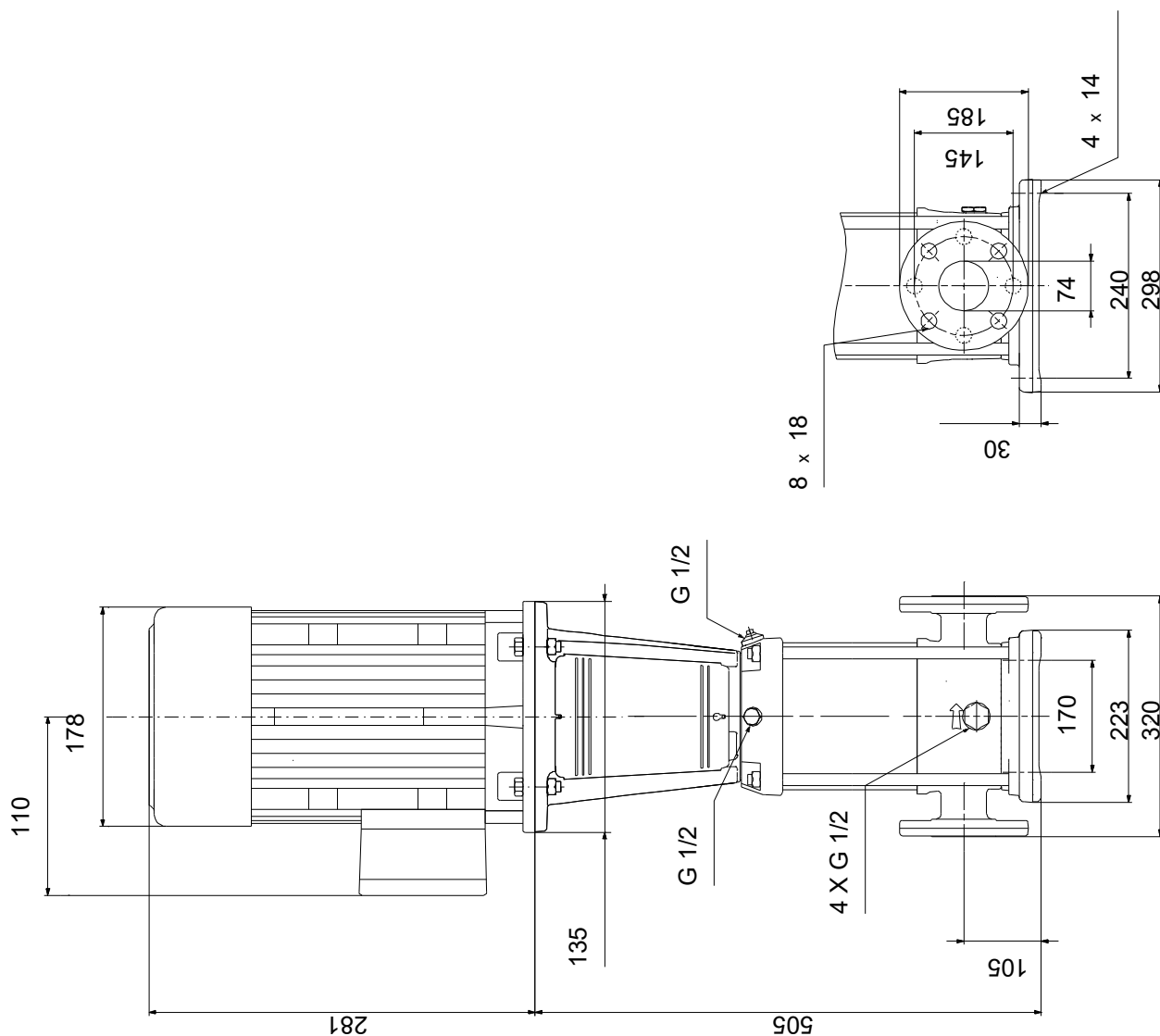


Description	Value
Motor efficiency at 3/4 load:	86.4 %
Motor efficiency at 1/2 load:	86.0 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85U01906
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	63.1 kg
Gross weight:	86 kg
Shipping volume:	0.309 m³
Danish VVS No.:	385906011
Swedish RSK No.:	5824868
Finnish LVI No.:	4925456
Country of origin:	DK
Custom tariff no.:	84137075

96121950 CR 32-1-1 A-F-A-E-HQQE 50 Hz



96121950 CR 32-1-1 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 32-1-1, Product No. 96121950
Produced After 1944 (production year and week number)

Pos	Omschrijving	Opmerking	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
	Base			96547299	1	pcs
6	Base				1	
	Kit, chamber stack			96416273	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					
47	Bearing					
26c	Washer		Designation: DIN 125A			2
			Thickness: 1,6			
26b	Hex socket head cap screw					2
26.a	Strap cpl.					2
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					
47f	Hairpin clip					
49d	Impeller cpl.					1
48	Nut					
49b	Split cone					
49a	Impeller					
	Impeller hub					
49c	Wear ring					
51	Shaft					1
	Kit, chambers			98633752	1	pcs
3	Upper chamber cpl.				1	
	Cone					1
	Spare, turbulence optimizer KP					1
	Spare, turbulence optimizer KP					1
	Spare, turbulence optimizer KP					1
	Spare, turbulence optimizer KP					1
	Guide					10
47	Bearing					1
47a	Bearing cpl.				1	
	Driver					1
	Holder					1
	Disc spring					1
	Bearing ring					1
47f	Hairpin clip					1
	Kit, coupling			96416589	1	pcs
	Adjusting fork					1
9	Hex socket head cap screw		Designation: DIN 912			4
			Length (mm): 25			
			Thread: M10			
10a	Coupling					1
	Kit, coupling guard			96505134	1	pcs
7a	Socket button head screw					4
7	Coupling guard					2

Pos	Omschrijving	Opmerking	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
	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, 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			
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			98497130	1	pcs
45	Seal ring				2	
47d	Lock ring				2	
47c	Bush				1	
49c	Wear ring				2	
65	Top f/neck ring				2	
	Motor			99606486	1	pcs
	Kit, bearing cpl.			96279794	1	
111	Ball bearing				1	
154	Ball bearing				1	
157	O-ring		Diameter: 52		1	
			Material type: NBR			
			Thickness: 3			
158	Waved washer				1	
187	Retaining ring				1	
188	Retaining ring				1	
	Kit, end shield			96279789	1	

Pos	Omschrijving	Opmerking	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
156 a	End shield				1	
157 a	Gasket		Internal diameter: 141,2		1	
			Outer diameter: 145,5			
			Thickness: 0,2			
157	O-ring		Diameter: 52		1	
			Material type: NBR			
			Thickness: 3			
158	Waved washer				1	
159 a	Seal ring				1	
	Kit, fan			96279757	1	
156	Fan				1	
159 a	Seal ring				1	
	Kit, fan cover			96279755	1	
151	Fan cover				1	
152	Pan head thread forming screw				4	
	Kit, flange			96279777	1	
156 b	Flange				1	
159. c	Seal ring				1	
184	Gasket		Internal diameter: 141,2		1	
			Outer diameter: 145,5			
			Thickness: 0,2			
186	Drain plug				3	
	Kit, retaining ring			96279798	1	
187	Retaining ring				1	
188	Retaining ring				1	
	Kit, shaft seal			96279761	1	
159c	Seal ring				1	
159 a	Seal ring				1	
	Kit, staybolts			96279791	1	
181	Pan head staybolt				4	
	Kit, terminal board			96279769	1	
	Bracket cpl.				1	
163	Hex socket head screw				1	
173 a	Base				1	
173	Pan head thread forming screw		Designation: COMBI TORX T25		1	
176	Slot cheese head screw		Designation: COMBI TORX T25		6	
			Length (mm): 10			
			Thread: M5			
176	Terminal				1	
176	Connecting piece				3	
176	Wire clamp				3	
176	Terminal board				1	
177	Pan head screw				1	
	Kit, terminal box			96279771	1	
164	Terminal box cover w/gasket				1	
166	Pan head thread forming screw				4	
1a	Motor stool			98977092	1	pcs
2	Pump head			96587722	1	pcs
3	Upper chamber cpl.			99262799	1	pcs
47	Bearing			99964632	1	
47	Bearing			99928986	1	
6	Base cpl.		Rubber type: EPDM	96587692	1	pcs
25	Plug			96536013	4	
37	O-ring			96536149	1	
38	O-ring			99198815	4	

Pos	Omschrijving	Opmerking	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
38	O-ring			99412727	4	
7a	Socket button head screw			96549696	4	pcs
7	Coupling guard			96603300	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
26.a	Strap cpl.			98983834	2	pcs
26	Staybolt		Length (mm): 216	98976693	4	pcs
			Thread: M16			
28a	Hex head screw		Length (mm): 20	99932722	4	pcs
			Thread: M8			
28	Hex socket head cap screw		Designation: DIN 912	96536147	4	pcs
			Length (mm): 50			
			Thread: M10			
32	Washer		Designation: DIN 125 A	98923051	4	pcs
			Internal diameter: 17			
			Outer diameter: 30			
			Thickness: 3			
36	Hex nut		Thread: M16	96620480	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.			99270646	1	pcs
47f	Hairpin clip			99908983	1	
49b	Split cone			96536010	1	pcs
49a	Impeller			96534937	1	pcs
49c	Wear ring			96534930	1	
51	Shaft			98506272	1	pcs
55	Outer sleeve		Outer diameter: 197,0	99049372	1	pcs
			Length (mm): 95,5			
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
440 b	Lock ring			96534918	1	pcs