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Inventflow: Grundfos A-partner

Grundfos CRN 95-3-2 A-F-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/crn/grundfos-crn-95-3-2-a-f-a-e-hqqe>

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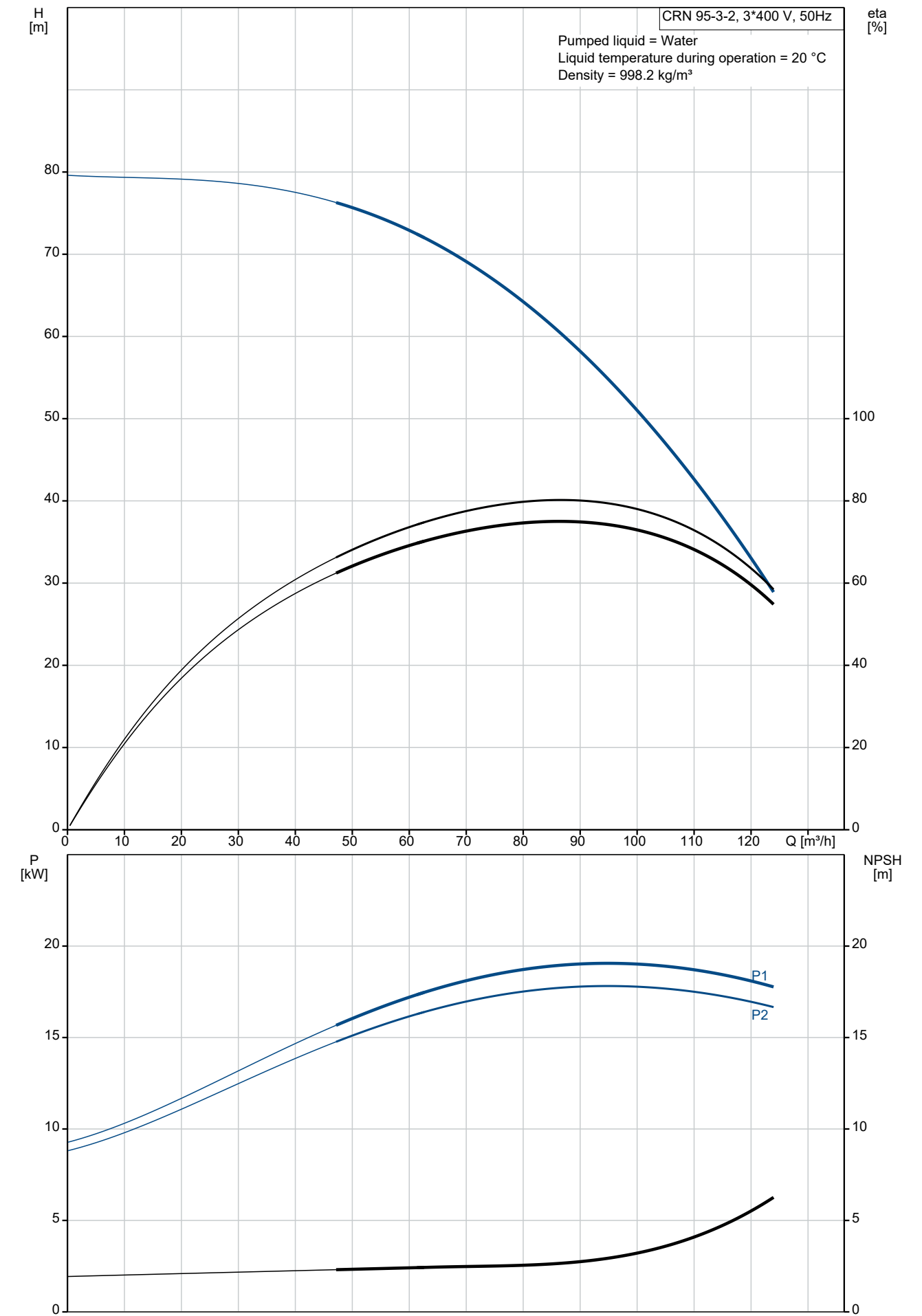
Datasheet



Qty.	Description																																																								
1	CRN 95-3-2 A-F-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 99141761 Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade 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: <table> <tr> <td>Pumped liquid:</td><td>Water</td></tr> <tr> <td>Liquid temperature range:</td><td>-40 .. 120 °C</td></tr> <tr> <td>Selected liquid temperature:</td><td>20 °C</td></tr> <tr> <td>Density:</td><td>998.2 kg/m³</td></tr> </table> Technical: <table> <tr> <td>Pump speed on which pump data are based:</td><td>2952 rpm</td></tr> <tr> <td>Rated flow:</td><td>95 m³/h</td></tr> <tr> <td>Rated head:</td><td>55.2 m</td></tr> <tr> <td>Pump orientation:</td><td>Vertical</td></tr> <tr> <td>Shaft seal arrangement:</td><td>Single</td></tr> <tr> <td>Code for shaft seal:</td><td>HQQE</td></tr> <tr> <td>Approvals:</td><td>CE,EAC,UKCA,ACS,WRAS</td></tr> <tr> <td>Curve tolerance:</td><td>ISO9906:2012 3B</td></tr> </table> Materials: <table> <tr> <td>Base:</td><td>Stainless steel EN 1.4408</td></tr> <tr> <td>Impeller:</td><td>Stainless steel EN 1.4401</td></tr> <tr> <td>Bearing:</td><td>WC/WC</td></tr> <tr> <td>Support bearing:</td><td>Graflon</td></tr> <tr> <td>Material certified according to:</td><td>European standards</td></tr> </table> Installation: <table> <tr> <td>Maximum ambient temperature:</td><td>60 °C</td></tr> <tr> <td>Maximum operating pressure:</td><td>16 bar</td></tr> <tr> <td>Max pressure at stated temp:</td><td>16 bar / 120 °C</td></tr> <tr> <td>Type of connection:</td><td>DIN</td></tr> <tr> <td>Size of inlet connection:</td><td>DN 100</td></tr> <tr> <td>Size of outlet connection:</td><td>DN 100</td></tr> <tr> <td>Pressure rating for connection:</td><td>PN 16</td></tr> <tr> <td>Flange size for motor:</td><td>FF300</td></tr> </table> Electrical data: <table> <tr> <td>Motor standard:</td><td>IEC</td></tr> <tr> <td>Motor type:</td><td>160LB</td></tr> <tr> <td>IE Efficiency class:</td><td>IE3</td></tr> </table>	Pumped liquid:	Water	Liquid temperature range:	-40 .. 120 °C	Selected liquid temperature:	20 °C	Density:	998.2 kg/m ³	Pump speed on which pump data are based:	2952 rpm	Rated flow:	95 m ³ /h	Rated head:	55.2 m	Pump orientation:	Vertical	Shaft seal arrangement:	Single	Code for shaft seal:	HQQE	Approvals:	CE,EAC,UKCA,ACS,WRAS	Curve tolerance:	ISO9906:2012 3B	Base:	Stainless steel EN 1.4408	Impeller:	Stainless steel EN 1.4401	Bearing:	WC/WC	Support bearing:	Graflon	Material certified according to:	European standards	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 100	Size of outlet connection:	DN 100	Pressure rating for connection:	PN 16	Flange size for motor:	FF300	Motor standard:	IEC	Motor type:	160LB	IE Efficiency class:	IE3
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Qty.	Description
	Rated power - P2: 18.5 kW Power (P2) required by pump: 18.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D/660-690Y V Rated current: 34,5-32,5/20,0-18,8 A Starting current: 830-980 % Cos phi - power factor: 0.89-0.85 Rated speed: 2940-2950 rpm Efficiency: IE3 92,4% Motor efficiency at full load: 92.4-92.4 % Motor efficiency at 3/4 load: 93.2 % Motor efficiency at 1/2 load: 93.2 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 85U17528 Controls: Frequency converter: NONE Others: Net weight: 224 kg Gross weight: 267 kg Shipping volume: 0.611 m³ Finnish LVI No.: 4925616 Thrust handling device: N Country of origin: DK Custom tariff no.: 84137075

99141761 CRN 95-3-2 A-F-A-E-HQQE 50 Hz



Description	Value
General information:	
Product name:	CRN 95-3-2 A-F-A-E-HQQE
Product No:	99141761
EAN number:	5712607527655
Technical:	
Pump speed on which pump data are based:	2952 rpm
Rated flow:	95 m³/h
Rated head:	55.2 m
Maximum head:	79.7 m
Stages:	3
Impellers:	3
Number of reduced-diameter impellers:	2
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:	Stainless steel
Base:	EN 1.4408
Impeller:	Stainless steel
Impeller:	EN 1.4401
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 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:	-40 .. 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 380-415D/660-690Y V
Rated current:	34,5-32,5/20,0-18,8 A
Starting current:	830-980 %
Cos phi - power factor:	0.89-0.85
Rated speed:	2940-2950 rpm
Efficiency:	IE3 92,4%
Motor efficiency at full load:	92.4-92.4 %
Motor efficiency at 3/4 load:	93.2 %

CRN 95-3-2, 3*400 V, 50Hz

Pumped liquid = Water
Liquid temperature during operation = 20 °C
Density = 998.2 kg/m³

H [m]

Q [m³/h]

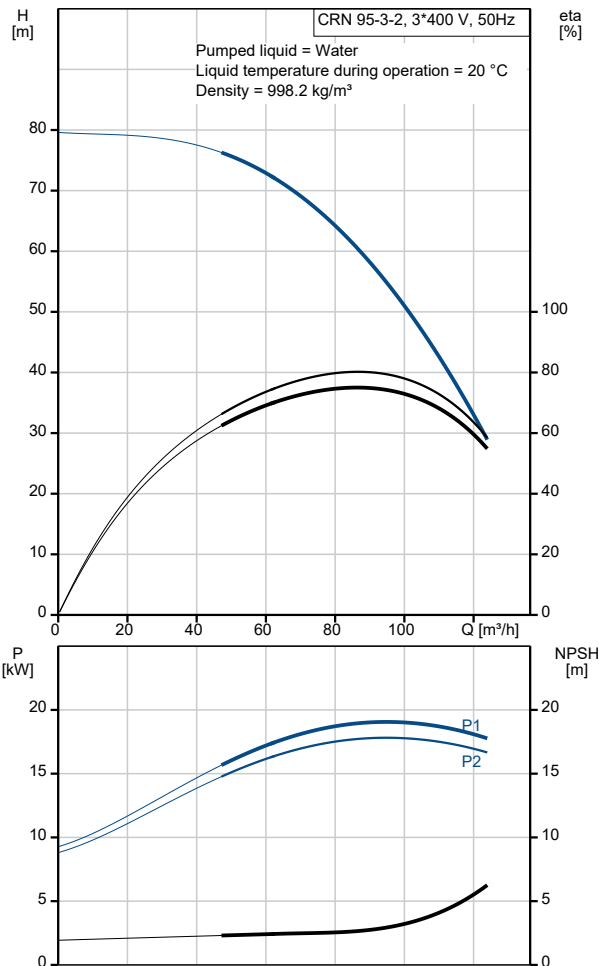
eta [%]

P [kW]

NPSH [m]

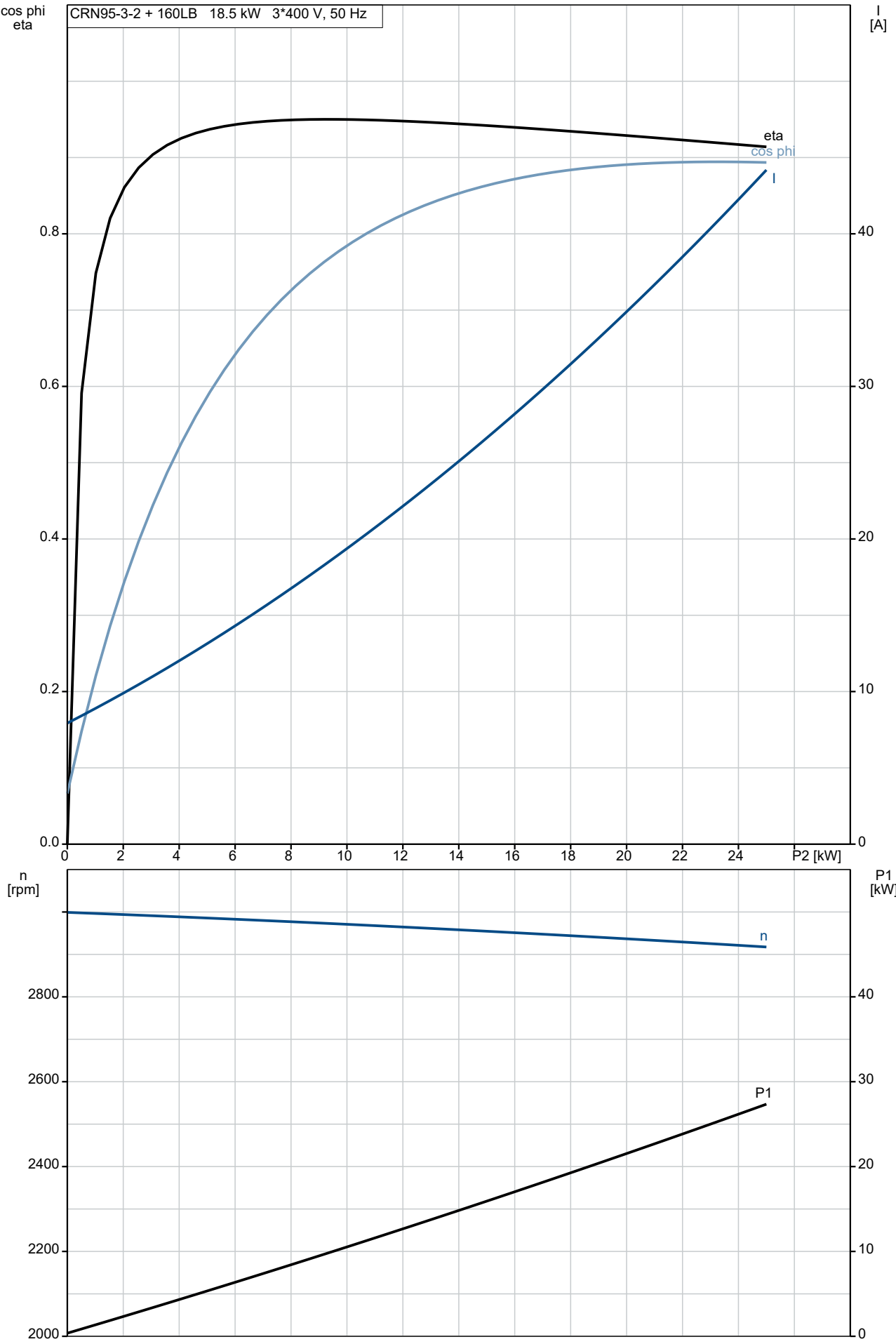
P1

P2

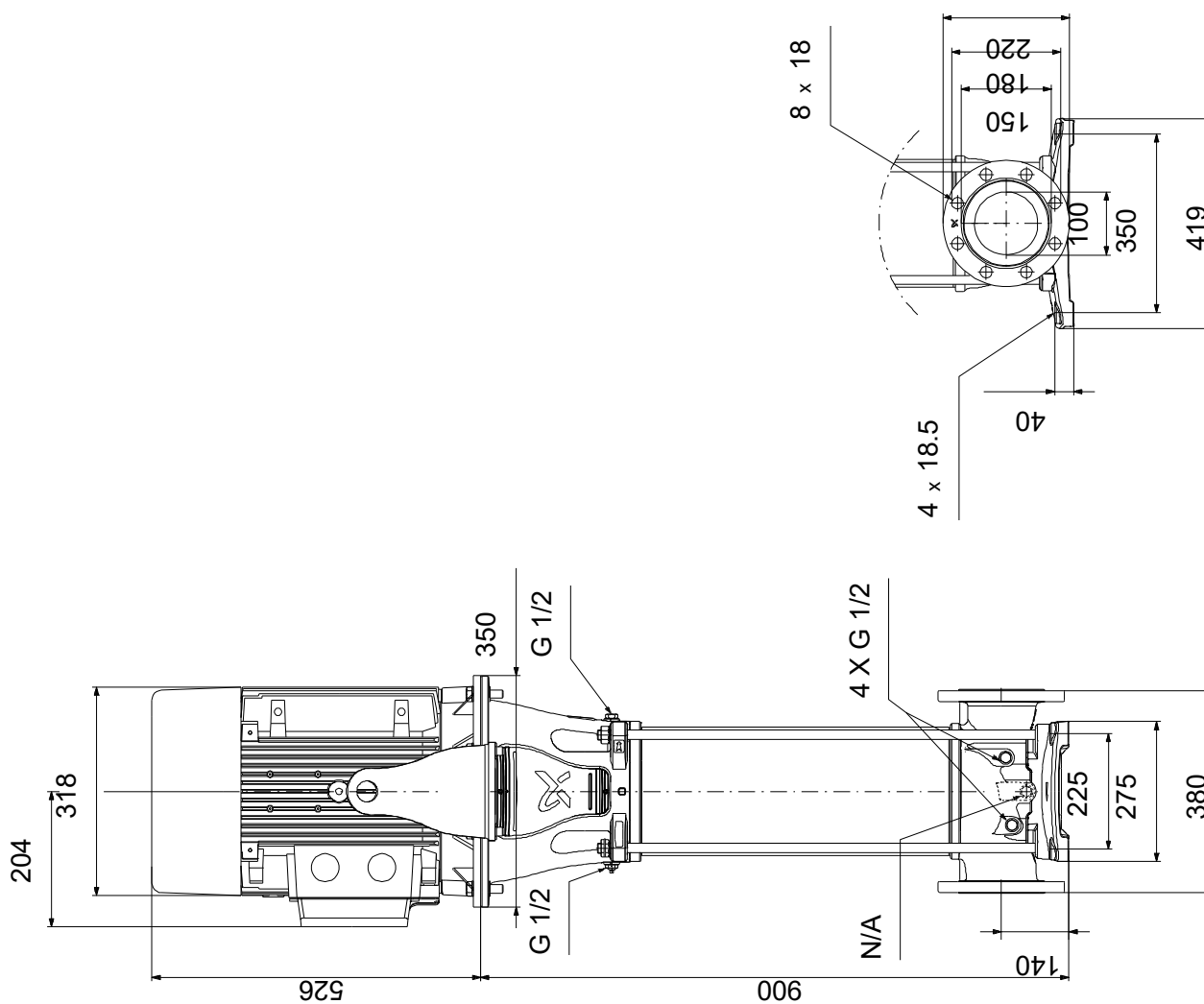


Description	Value
Motor efficiency at 1/2 load:	93.2 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17528
Controls:	
Frequency converter:	NONE
Others:	
Net weight:	224 kg
Gross weight:	267 kg
Shipping volume:	0.611 m ³
Finnish LVI No.:	4925616
Thrust handling device:	N
Country of origin:	DK
Custom tariff no.:	84137075

99141761 CRN 95-3-2 A-F-A-E-HQQE 50 Hz



99141761 CRN 95-3-2 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 CRN 95-3-2, Product No. 99141761
Produced After 1827 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, bearing			99415812	1	pcs
- 47a	Bearing cpl.				1	
	Driver				1	
	Retainer				1	
-	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			99432754	1	pcs
440b	Lock ring				1	
440a	Flange		Diameter: DN 100		1	
			Pressure: PN 16			
-	Kit, impeller			99124955	1	pcs
48	Nut				1	
49b	Split cone				1	
49	Impeller				1	
-	Kit, impeller, reduced, 1st.			99554054	2	pcs
48	Nut				1	
49h	Impeller				1	
49b	Split cone				1	
-	Kit, O-rings			99262378	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			99190080	4	pcs
26	Staybolt				1	
36	Nut				1	
66a	Washer				1	
-	Kit, strap			99190048	2	pcs
26c	Washer		Designation: DIN 125A		1	
			Thickness: 1,6			
26b	Hex head screw				1	
26a	Strap				1	
-	Kit, wear parts			99262415	1	pcs
	Adjusting fork				1	
45	Neck ring				4	
47d	Lock ring				3	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
47c	Bush				3	
65	Neck ring retainer				4	
-	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	
1a	Motor stool			99759902	1	pcs
2	Cover			99196494	1	pcs
+ 3	Chamber			99262581	1	pcs
- 3	Chamber			99262629	1	pcs
47c	Bush			99321194	1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
+ 3	Chamber			99196631	1	pcs
+ 4a	Chamber			99446222	1	pcs
+ 4a	Chamber			99446253	1	pcs
+ 4a	Chamber			99415871	1	pcs
+ 4	Chamber			99262577	1	pcs
+ 4	Chamber			99262625	1	pcs
+ 4	Chamber			99196627	1	pcs
6	Base			99196467	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			99262692	4	pcs
+ 44	Suction part			99196613	1	pcs
44a	Discharge part			99196621	1	pcs
48	Nut			99262680	3	pcs
48	Nut			99262683	3	pcs
48	Nut			96536016	3	pcs
49h	Impeller			99262539	2	pcs
49h	Impeller			99262563	2	pcs
49	Impeller			99721389	1	pcs
49b	Split cone			99262686	3	pcs
49b	Split cone			99262689	3	pcs
51	Shaft			99196538	1	pcs
55	Sleeve			99196421	1	pcs
56	Base plate			99196483	1	pcs
66a	Washer			99262699	4	pcs