

Inventflow: Grundfos A-partner

Grundfos CR 5-7 A-A-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cr/grundfos-cr-5-7-a-a-a-e-hqqe>

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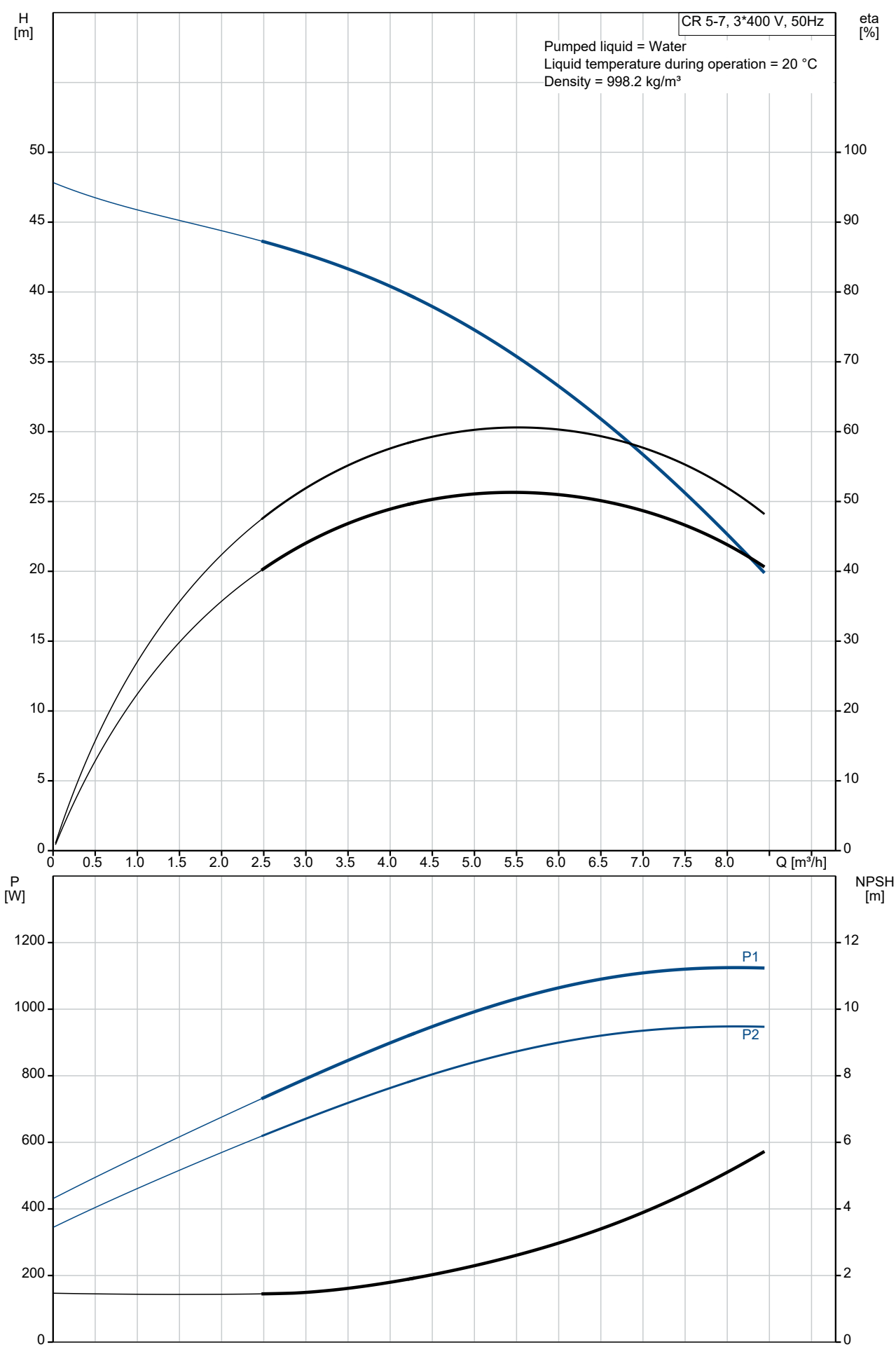
Datasheet



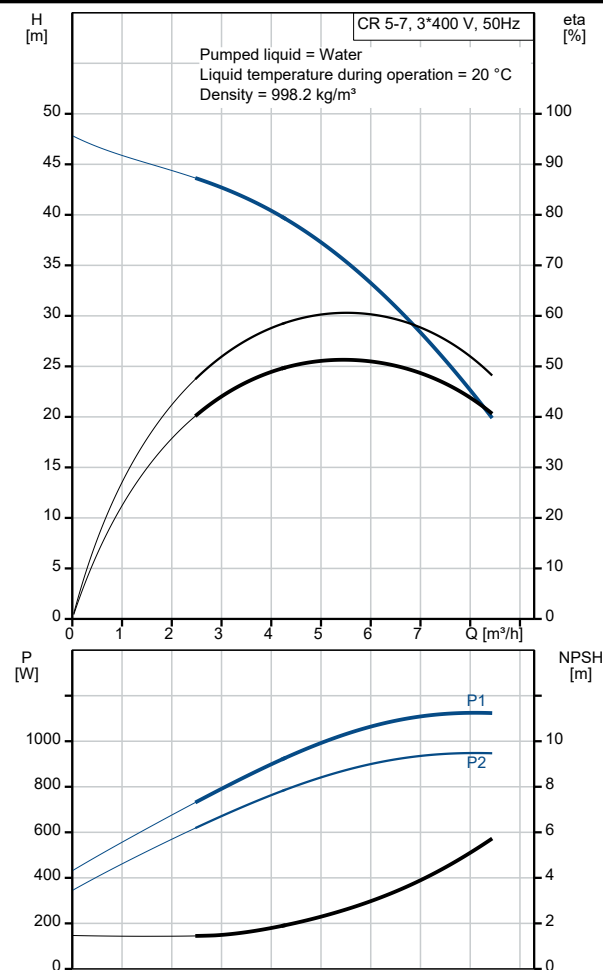
Qty.	Description
1	CR 5-7 A-A-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 96516990 Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers and intermediate chambers are made of 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 Oval / Rp flanges. Phase: The motor is a 3-phase AC motor. Controls: Frequency converter: NONE 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: 2853 rpm Rated flow: 5.8 m³/h Rated head: 35.3 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 1561 EN-GJL-200 ASTM A48-25B Impeller: Stainless steel EN 1.4301 AISI 304 Bearing: SIC Installation: Maximum ambient temperature: 60 °C Maximum operating pressure: 16 bar Max pressure at stated temp: 16 bar / 120 °C 16 bar / -20 °C Type of connection: Oval / Rp Size of inlet connection: 1 1/4 inch Size of outlet connection: 1 1/4 inch Pressure rating for connection: PN 16

Qty.	Description
	Flange size for motor: FT100 Electrical data: Motor standard: IEC Motor type: 80C IE Efficiency class: IE3 Rated power - P2: 1.1 kW Power (P2) required by pump: 1.1 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 4.35/2.50 A Starting current: 450-500 % Cos phi - power factor: 0.83-0.76 Rated speed: 2840-2870 rpm Efficiency: IE3 82,7% Motor efficiency at full load: 82.7 % Motor efficiency at 3/4 load: 84.6 % Motor efficiency at 1/2 load: 85.4 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 85U05105 Others: Minimum efficiency index, MEI $\geq$: 0.57 Net weight: 25.7 kg Gross weight: 28.6 kg Shipping volume: 0.074 m³ Danish VVS No.: 385902007 Swedish RSK No.: 5824850 Finnish LVI No.: 4925507 Norwegian NRF no.: 9040281 Country of origin: HU Custom tariff no.: 84137075

96516990 CR 5-7 A-A-A-E-HQQE 50 Hz

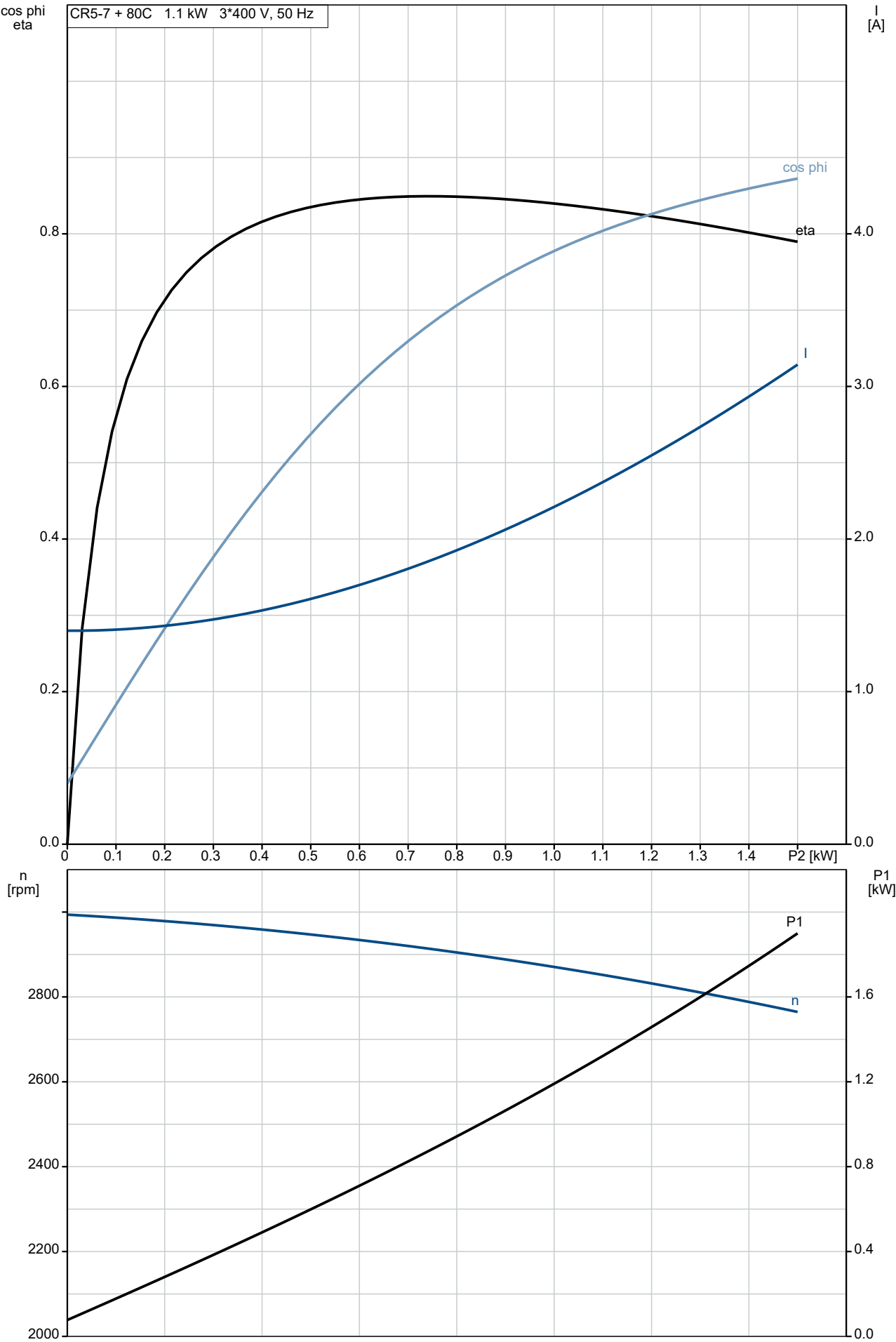


Description	Value
General information:	
Product name:	CR 5-7 A-A-A-E-HQQE
Product No:	96516990
EAN number:	5700396754109
Technical:	
Pump speed on which pump data are based:	2853 rpm
Rated flow:	5.8 m³/h
Rated head:	35.3 m
Maximum head:	49 m
Stages:	7
Impellers:	7
Number of reduced-diameter impellers:	0
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:	A
Materials:	
Base:	Cast iron
Base:	EN 1561 EN-GJL-200
Base:	ASTM A48-25B
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI 304
Material code:	A
Code for rubber:	E
Bearing:	SIC
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 / -20 °C
Type of connection:	Oval / Rp
Size of inlet connection:	1 1/4 inch
Size of outlet connection:	1 1/4 inch
Pressure rating for connection:	PN 16
Flange size for motor:	FT100
Connect code:	A
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:	80C
IE Efficiency class:	IE3
Rated power - P2:	1.1 kW
Power (P2) required by pump:	1.1 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415V V
Rated current:	4.35/2.50 A
Starting current:	450-500 %
Cos phi - power factor:	0.83-0.76
Rated speed:	2840-2870 rpm
Efficiency:	IE3 82,7%
Motor efficiency at full load:	82.7 %
Motor efficiency at 3/4 load:	84.6 %
Motor efficiency at 1/2 load:	85.4 %

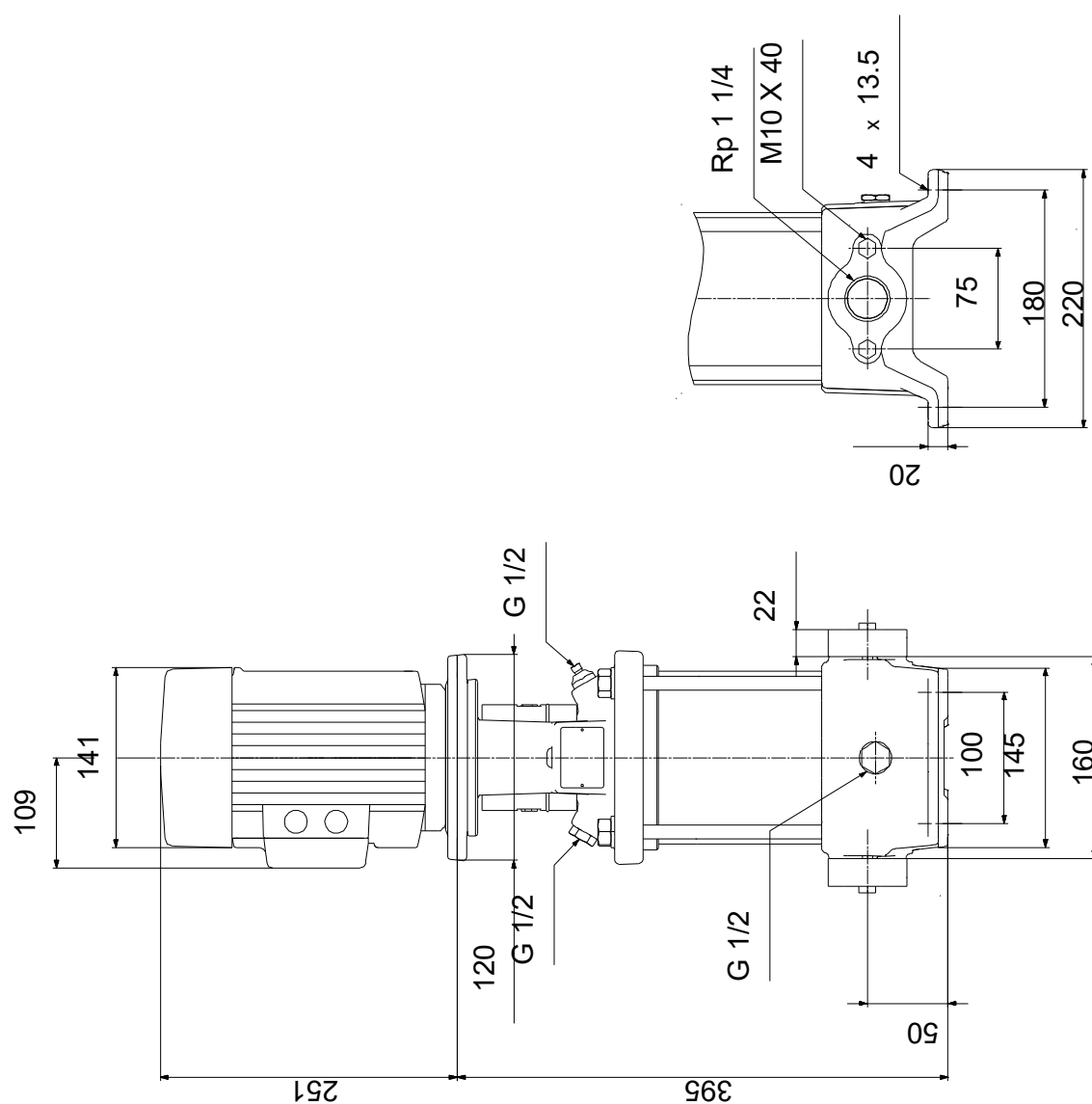


Description	Value
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85U05105
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.57
Net weight:	25.7 kg
Gross weight:	28.6 kg
Shipping volume:	0.074 m ³
Danish VVS No.:	385902007
Swedish RSK No.:	5824850
Finnish LVI No.:	4925507
Norwegian NRF no.:	9040281
Country of origin:	HU
Custom tariff no.:	84137075

96516990 CR 5-7 A-A-A-E-HQQE 50 Hz



96516990 CR 5-7 A-A-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 5-7, Product No. 96516990
Produced After 1119 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
- 80	Kit, chamber stack			96453580	1	pcs
- 4a	Chamber w. bearing cpl.				1	
	Vane				1	
	Retainer for bearing				1	
	Guide vane				6	
	Chamber				1	
45	Neck ring				1	
47	Bearing bush				1	
65	Retainer				1	
65	Retainer for seal ring				1	
- 4	Chamber cpl.				5	
	Vane				1	
	Plate				1	
	Guide vane				6	
5a	Chamber				1	
45	Neck ring				1	
65	Retainer				1	
65	Retainer for seal ring				1	
- 5a	Chamber cpl.				1	
	Vane				1	
	Guide cup				1	
5a	Chamber				1	
45	Neck ring				1	
65	Retainer				1	
65	Retainer for seal ring				1	
- 44a	Guide vane cpl.				1	
	Plate				1	
	Guide vane				6	
50	Top plate				1	
47a	Bearing ring				1	
49	Impeller cpl.				7	
- 51	Shaft, spline, cpl.				1	
	Shaft				1	
69	Stop ring				1	
64c	Clamp, splined		Internal diameter: 8,5		1	
			Outer diameter: 15			
64a	Spacing pipe		Length (mm): 13.00		1	
64	Spacing pipe		Length (mm): 26.0		5	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
69	Spacing pipe		Length (mm): 2.00		1	
-	Kit, coupling			00415061	1	pcs
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 20			
			Thread: M6			
10a	Coupling half				2	
10	Shaft pin		Diameter: 5		1	
			Length (mm): 26			
-	Kit, coupling guard			96505130	1	pcs
7.a	Combi Slot Torx screw				4	
7	Coupling guard				2	
-	Kit, gaskets			96455090	1	pcs
37	O-ring				2	
38	O-ring				1	
38	O-ring				2	
109	O-ring		Diameter: 22,00		1	
			Material type: EPDM			
			Thickness: 2,75			
-	Kit, plug			96505133	1	pcs

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
- 18	Air vent screw				1	
	Spindle				1	
	Plug				1	
23b	Spindle				1	
25	Plug				1	
25	Plug				1	
38	O-ring				1	
38	O-ring				2	
38	O-ring		Diameter: 16,3		1	
			Material type: FKM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3		2	
			Material type: FKM			
			Thickness: 2,4			
-	Kit, shaft seal HQQE			96455086	1	pcs
+ 105	Shaft seal		Material type: HQQE		1	
-	Kit, wear parts		Material type: SIC	96455096	1	pcs
- 4a	Chamber w. bearing cpl.				1	
	Vane				1	
	Retainer				1	
	Guide vane				6	
	Chamber				1	
45	Neck ring				1	
47	Bearing bush				1	
65	Retainer				1	
65	Neck ring retainer				1	
45	Neck ring				6	
47a	Bearing ring				1	
64c	Clamp, splined		Internal diameter: 8,5		1	
			Outer diameter: 15			
64a	Spacing pipe		Length (mm): 13.00		1	
65	Neck ring retainer				6	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
441b	Gasket				2	
-	Motor			91333027	1	pcs
-	Kit, Ball bearing			96279730	1	
111	Ball bearing		Designation: 6204.2Z.C3.SYN		1	
111	Ball bearing				1	
157	O-ring		Diameter: 32		1	
			Material type: NBR			
			Thickness: 2			
158	Waved washer				1	
-	Kit, fan			96279721	1	
156	Fan				1	
159a	Seal ring				1	
-	Kit, fan cover			96279720	1	
151	Fan cover				1	
152	Pan head thread forming screw				2	
-	Kit, flange			96279854	1	
156b	Flange				1	
159c	Seal ring				1	
184	Gasket		Internal diameter: 114,80		1	
			Outer diameter: 121,20			
			Thickness: 0,25			
185	Pan head screw				4	
186	Drain plug				1	
-	Kit, shaft seal			96279722	1	
159c	Seal ring				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
159a	Seal ring				1	
-	Kit, terminal box			96279724	1	
152	Pan head thread forming screw				4	
164a	Terminal box w/gasket				1	
164	Terminal box cover w/gasket				1	
173a	Washer	Designation: SQUARE			1	
		Internal diameter: 5,5				
		Outer diameter: 10X10				
		Thickness: 1,5				
173a	Base				1	
173	Pan head thread forming screw	Designation: COMBI TORX T25			1	
173	Pan head screw	Designation: DIN 7985			1	
175	Pan head screw	Designation: DIN 7985			2	
176	Terminal cpl.				1	
+ 4a	Chamber w. bearing cpl.			96547652	1	pcs
+ 4a	Chamber w. bearing cpl.			98371274	1	pcs
- 4	Chamber cpl.			96547651	5	pcs
45	Neck ring			96547603	1	
65	Retainer			97911446	1	
+ 4	Chamber cpl.			98371272	5	pcs
+ 5a	Chamber cpl.			98371269	1	pcs
6	Base			96588138	1	pcs
10	Shaft pin	Diameter: 5		96536473	1	pcs
		Length (mm): 26				
10	Shaft pin	Diameter: 5		96587588	1	pcs
		Length (mm): 26				
- 25a	Priming valve cpl.			96588242	1	pcs
38	O-ring			99198815	1	
38	O-ring			99412727	1	
26	Staybolt	Length (mm): 211		98986326	4	pcs
		Thread: M12				
32	Washer	Designation: DIN 125 A		99883474	4	pcs
		Internal diameter: 13				
		Outer diameter: 24				
		Thickness: 2,5				
36	Nut	Thread: M12		96620479	4	pcs
37	O-ring			96547656	2	pcs
38	O-ring			99198815	2	pcs
38	O-ring			99412727	2	pcs
+ 44a	Guide vane cpl.			96547658	1	pcs
+ 44a	Guide vane cpl.			98681144	1	pcs
47a	Bearing ring			97905743	1	pcs
47a	Bearing ring			96547649	1	pcs
49	Impeller cpl.			96547648	7	pcs
49	Impeller cpl.			98394422	7	pcs
+ 51	Shaft, spline, cpl.			98368515	1	pcs
55	Outer sleeve			98811287	1	pcs
64c	Clamp, splined	Internal diameter: 8,5		98496968	1	pcs
		Outer diameter: 15				
64a	Spacing pipe	Length (mm): 13.00		96536452	1	pcs
64a	Spacing pipe	Length (mm): 13.00		98520104	1	pcs
64	Spacing pipe	Length (mm): 26.0		96536304	5	pcs
66	Wedge lock washer			96536157	1	pcs
66	Wedge lock washer			92575609	1	pcs
67	Lock nut	Thread: M8		98277008	1	pcs
69	Spacing pipe	Length (mm): 2.00		96536451	1	pcs
+ 105	Shaft seal	Material type: HQQE		96983415	1	pcs
441b	Gasket			96536206	2	pcs

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
+ 441a	Flange		Thread: RP 1	96547454	2	pcs