

Count	Description
1	CRN 1S-4 A-P-A-E-HQQE  Product No.: 96081594 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, intermediate chambers and outer sleeve are made of - Pump head cover and base are made of - The shaft seal has assembly length according to EN 12756. - Power transmission is via cast iron split coupling flanges/couplings. The motor is a 1-phase AC motor. Controls: Frequency converter: NONE Liquid: Pumped liquid: Water Liquid temperature range: -4 .. 248 °F Liquid temperature during operation: 68 °F Density: 62.29 lb/ft³ Technical: Rated pump speed: 3436 rpm Rated flow: 4.84 US gpm Rated head: 77.76 ft Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals on nameplate: CURUS,NSF61 Curve tolerance: ISO9906:2012 3B Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Bearing: SIC Installation: Maximum ambient temperature: 104 °F Maximum operating pressure: 363 psi Max pressure at stated temperature: 363 psi / 250 °F 363 psi / -4 °F Type of connection: PJE Size of inlet connection: DN 32 Size of suction port: 1 1/4 inch Size of outlet connection: DN 32 Size of outlet port: 1 1/4 inch Pressure rating for pipe connection: PN 50

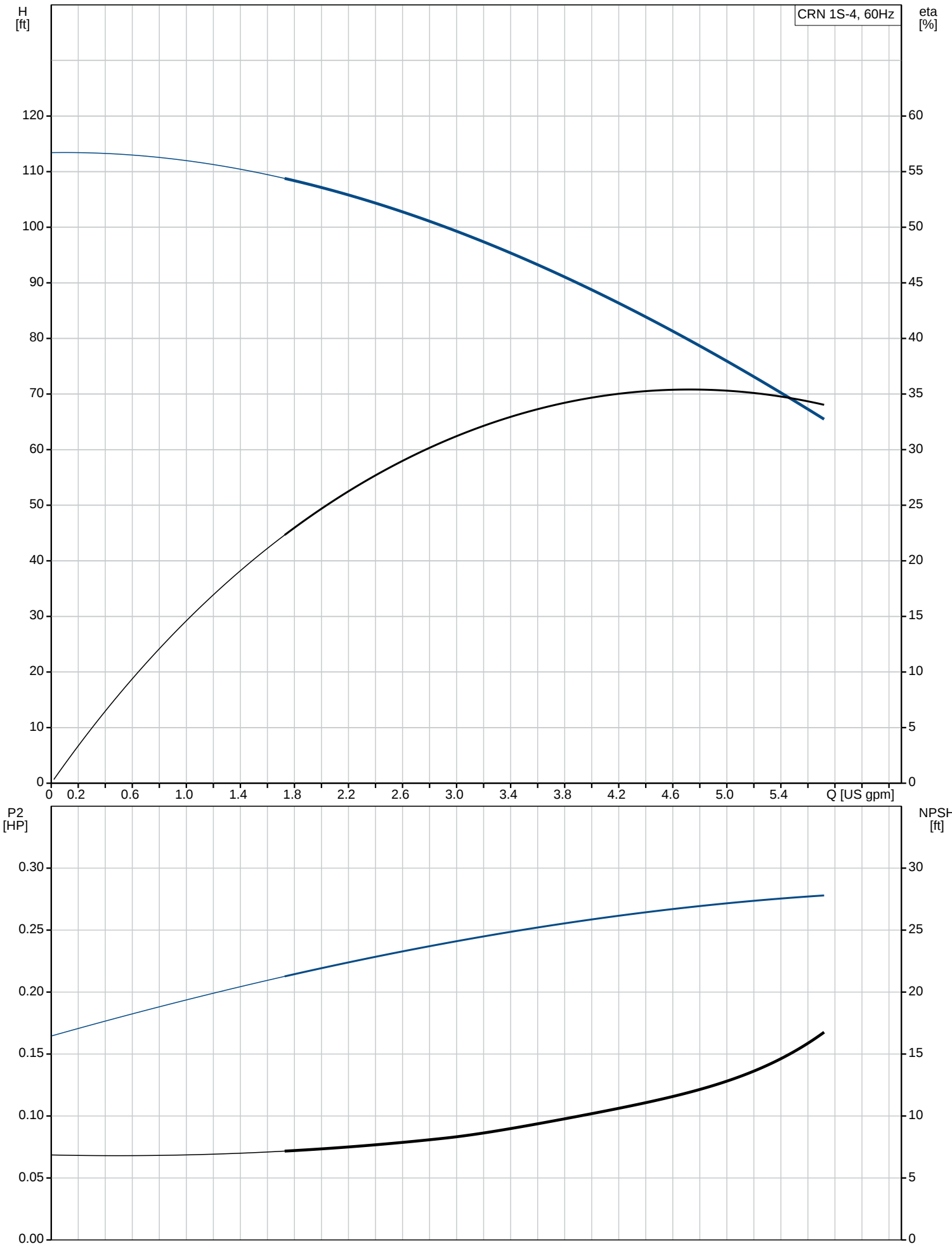


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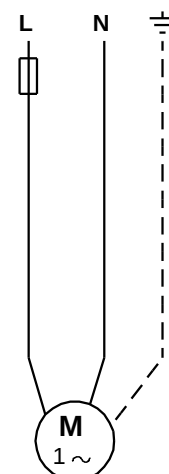
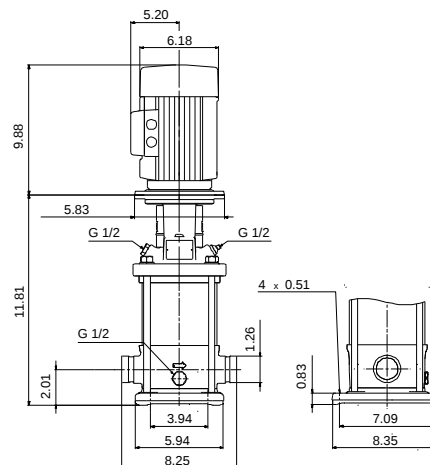
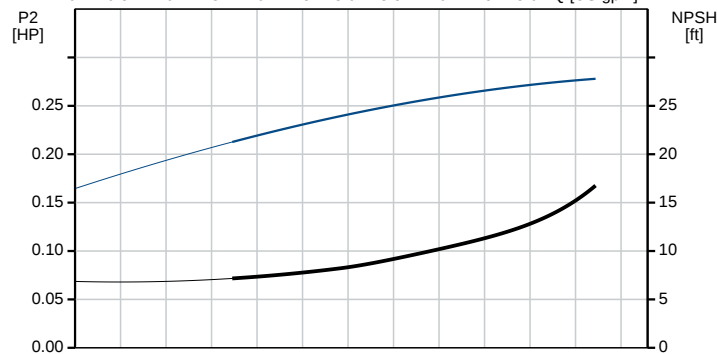
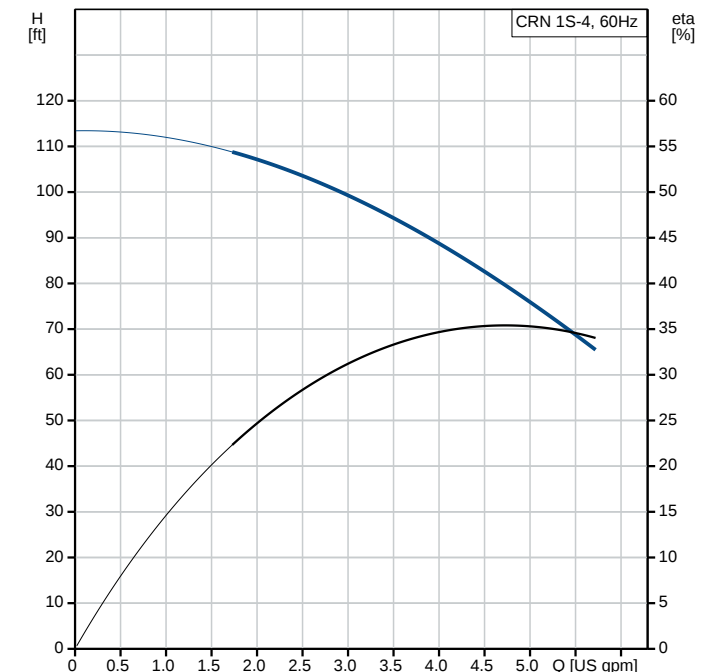
Date: 2/15/2019

Count	Description
	Flange size for motor: 56C
	Electrical data:
	Motor standard: NEMA
	Motor type: Baldor
	Rated power - P2: 0.33 HP
	Power (P2) required by pump: 0.33 HP
	Main frequency: 60 Hz
	Rated voltage: 1 x 115/230 V
	Service factor: 1.35
	Rated current: 6.00/3.00 A
	Rated speed: 3450 rpm
	Number of poles: 2
	Insulation class (IEC 85): B
	Others:
	Net weight: 44.6 lb
	Gross weight: 55.6 lb
	Shipping volume: 4.94 ft³
	Country of origin: US
	Custom tariff no.: 8413.70.2040

96081594 CRN 1S-4 A-P-A-E-HQQE 60 Hz



Description	Value
General information:	
Product name:	CRN 1S-4 A-P-A-E-HQQE
Product No.:	96081594
EAN:	5700395160383
Technical:	
Rated pump speed:	3436 rpm
Rated flow:	4.84 US gpm
Rated head:	77.76 ft
Head max:	113.2 ft
Stages:	4
Impellers:	4
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CURUS, NSF61
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Cooling:	TEFC
Materials:	
Base:	Stainless steel EN 1.4408 AISI 316
Impeller:	Stainless steel EN 1.4401 AISI 316
Material code:	A
Code for rubber:	E
Bearing:	SIC
Installation:	
Maximum ambient temperature:	104 °F
Maximum operating pressure:	363 psi
Max pressure at stated temperature:	363 psi / 250 °F 363 psi / -4 °F
Type of connection:	PJE
Size of inlet connection:	DN 32
Size of suction port:	1 1/4 inch
Size of outlet connection:	DN 32
Size of outlet port:	1 1/4 inch
Pressure rating for pipe connection:	PN 50
Flange size for motor:	56C
Connect code:	P
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-4 .. 248 °F
Liquid temperature during operation:	68 °F
Density:	62.29 lb/ft³
Electrical data:	
Motor standard:	NEMA
Motor type:	Baldor
Rated power - P2:	0.33 HP
Power (P2) required by pump:	0.33 HP
Main frequency:	60 Hz
Rated voltage:	1 x 115/230 V
Service factor:	1.35
Rated current:	6.00/3.00 A
Load current:	6.8/3.4 A
Rated speed:	3450 rpm
Number of poles:	2
Insulation class (IEC 85):	B
Motor Number:	85680001
Controls:	
Frequency converter:	NONE
Others:	



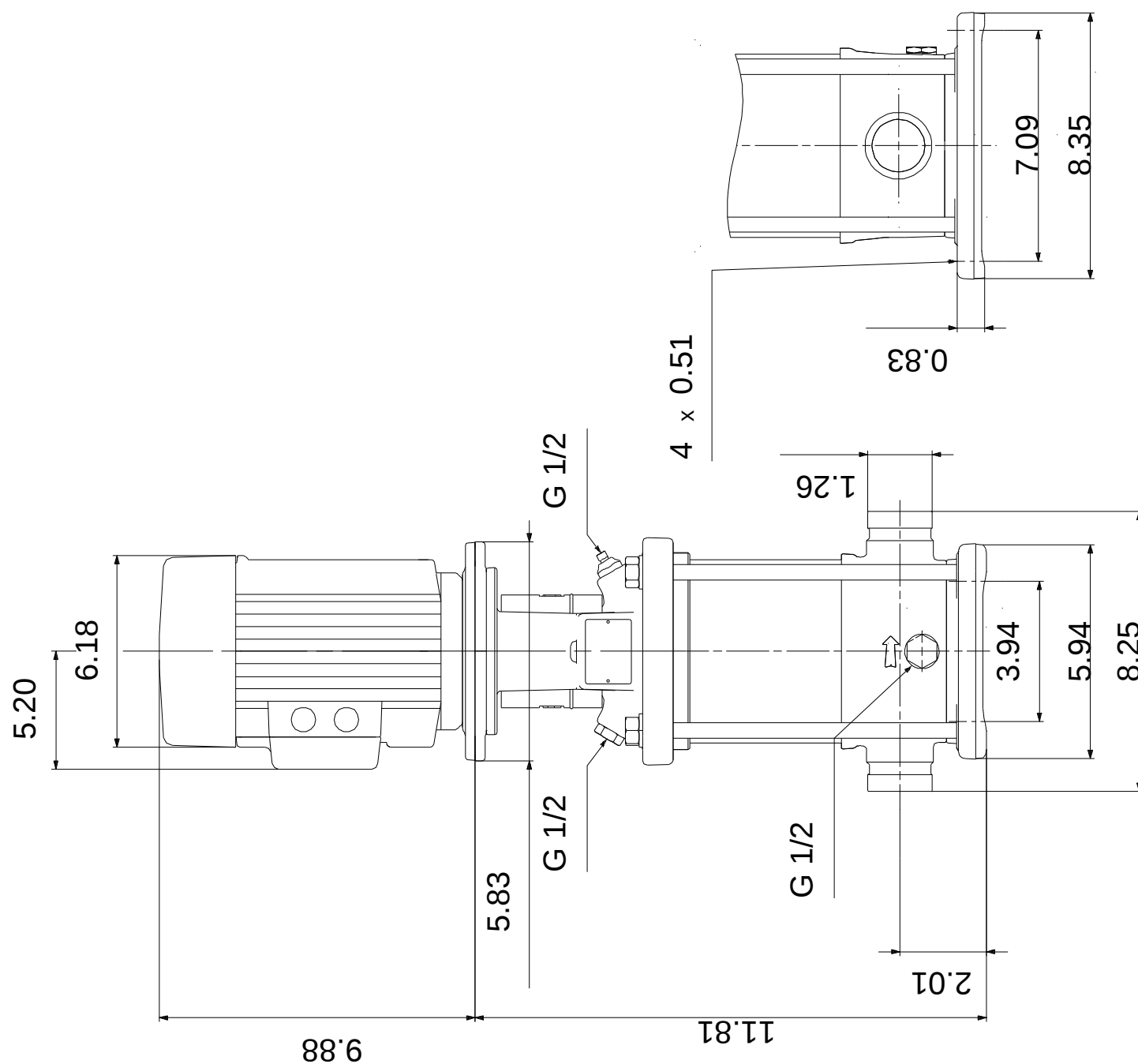


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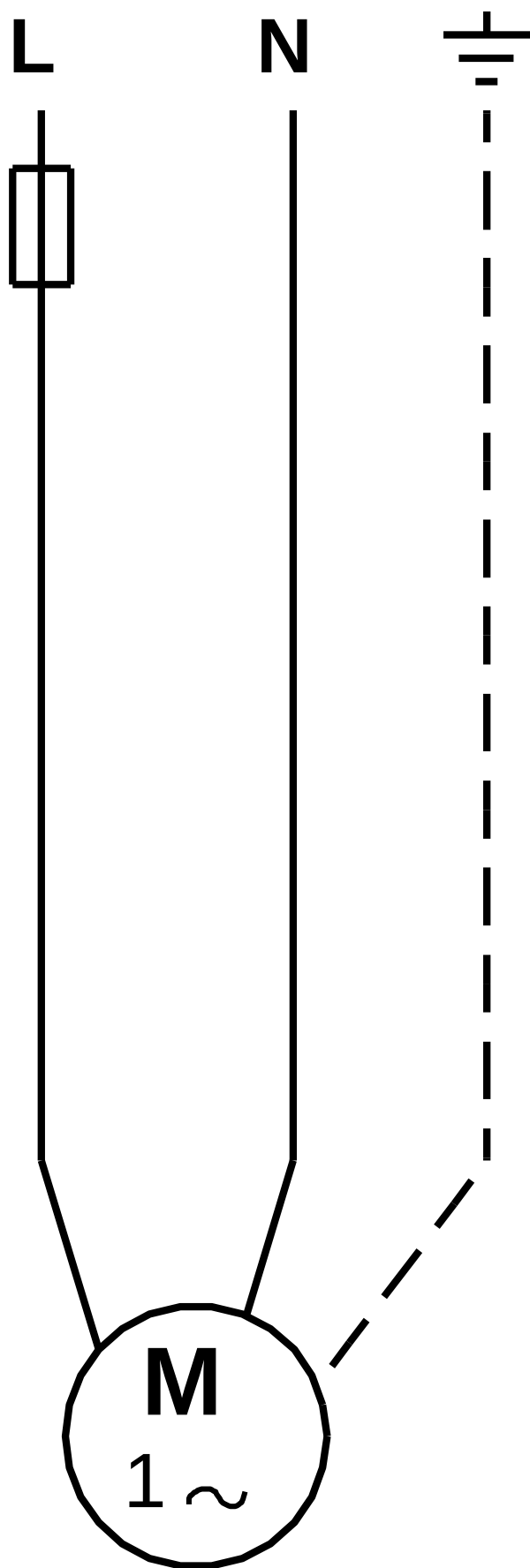
Date: 2/15/2019

Description	Value
Net weight:	44.6 lb
Gross weight:	55.6 lb
Shipping volume:	4.94 ft³
Country of origin:	US
Custom tariff no.:	8413.70.2040

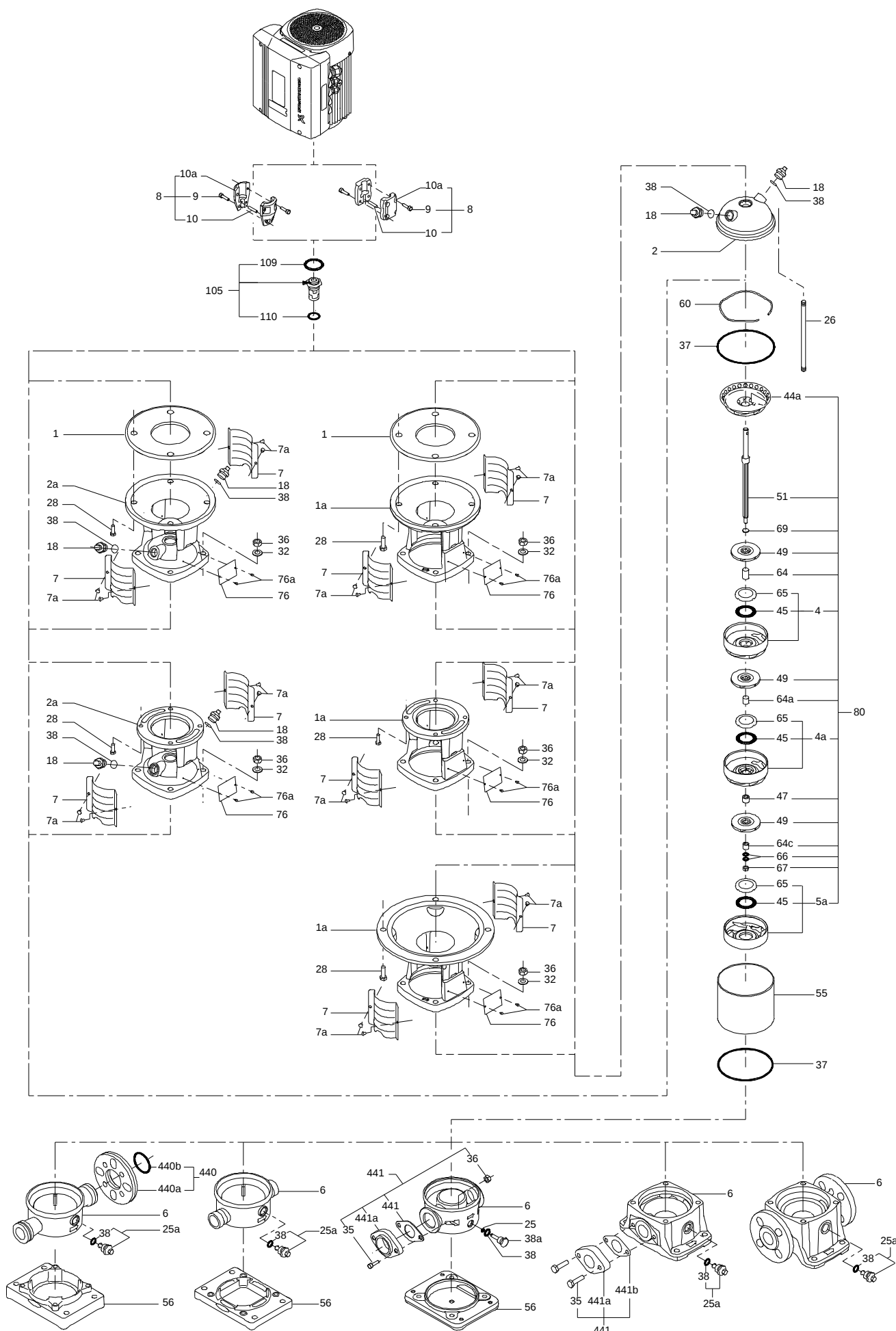
96081594 CRN 1S-4 A-P-A-E-HQQE 60 Hz



96081594 CRN 1S-4 A-P-A-E-HQQE 60 Hz



(TM069451 for SMCR standard)



Service parts CRN 1S-4, Prod number 96081594
Valid from 1.1.2004 (0401)

Position	Description	Annotation	Classification data	Part No.	Count	Unit
- 80	Kit, chamber stack		Bearing type: SILICON CARBIDE	96479080	1	pcs
- 4a	Chamber w. bearing cpl.				1	
4a	Intermediate chamber					
45	Neck ring					
65	Neck ring retainer					
- 4	Chamber cpl.				2	
4a	Intermediate chamber					
45	Neck ring					
65	Neck ring retainer					
- 5a	Chamber cpl.				1	
4a	Intermediate chamber					
45	Neck ring					
65	Neck ring retainer					
- 44a	Guide vane				1	
	Plate					
50	Top plate					
47	Bearing ring, rotating				1	
- 49	Impeller cpl.				4	
49	Impeller					
51	Shaft, spline, cpl.				1	
64d	Spacing pipe		Inner diameter: 12,85		1	
			Outer diameter: 15,85			
			Length: 4,50			
64c	Clamp, splined		Inner diameter: 8,5		1	
			Outer diameter: 15			
64a	Spacing pipe				2	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
-	Kit, coupling			00415314	1	pcs
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length: 20			
			Thread: M6			
10a	Coupling half				2	
10	Shaft pin		Diameter: 5		1	
			Length: 26			
+	Kit, coupling guard			96505131	1	pcs
-	Kit, gaskets			96455090	1	pcs
37	O-ring				2	
38	O-ring		Diameter: 16,3		1	
			Material type: EPDM			
			Thickness: 2,4			
38	O-ring		Diameter: 16,3		2	
			Material type: EPDM			
			Thickness: 2,4			
109	O-ring		Diameter: 22,00		1	
			Material type: EPDM			
			Thickness: 2,75			
-	Kit, plug			96511103	1	pcs
- 18	Air vent screw				1	
	Spindle					
	Plug					
23b	Spindle				1	
25	Plug				1	
- 25	Drain plug				1	
25a	Pipe plug					
25	Drain plug					
38	O-ring				1	
38	O-ring		Diameter: 16,3		3	
			Material type: FKM			
			Thickness: 2,4			
38	O-ring				1	

Position	Description	Annotation	Classification data	Part No.	Count	Unit
38	O-ring		Diameter: 16,3		3	
			Material type: EPDM			
			Thickness: 2,4			
-	Kit, shaft seal HQQE			96455086	1	pcs
+ 105	Shaft seal		Material type: HQQE		1	
-	Kit, wear parts		Material type: SILICON CARBIDE	96455095	1	pcs
- 4a	Chamber w. bearing cpl.				1	
4a	Intermediate chamber					
45	Neck ring					
65	Neck ring retainer					
45	Neck ring				8	
47	Bearing ring, rotating				1	
64d	Spacing pipe		Inner diameter: 12,85		1	
			Outer diameter: 15,85			
			Length: 4,50			
64c	Clamp, splined		Inner diameter: 8,5		1	
			Outer diameter: 15			
65	Neck ring retainer				8	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
441b	Gasket				2	
	Motor				1	pcs
1a	Motor stool			98947314	1	pcs
2	Pump cover			96588244	1	pcs
+ 4a	Bulk, Chamber w. bearing cpl. (5 pcs)			97690603	1	pcs
+ 4a	Bulk, Chamber w. bearing cpl. (5 pcs)			96547661	1	pcs
+ 4a	Chamber w. bearing cpl.			98371226	1	pcs
- 4	Bulk, Chamber cpl. (5 pcs)			97690021	2	pcs
45	Bulk, Neck ring (24 pcs)			96536194	1	
65	Bulk, Neck ring retainer (8 pcs)			99490745	1	
65	Bulk, Neck ring retainer (24 pcs)			99490747	1	
+ 4	Bulk, Chamber cpl. (10 pcs)			96547663	2	pcs
+ 4	Chamber cpl.			98371224	2	pcs
+ 5a	Chamber cpl.			98371222	1	pcs
6	Base			96588139	1	pcs
7a	Bulk, Combi Slot Torx screw (1000 pcs)			96886324	4	pcs
7	Bulk, Coupling guard (10 pcs)			96603690	2	pcs
+ 18	Bulk, Air vent screw (5 pcs)			96547461	1	pcs
+ 18	Air vent screw			95061351	1	pcs
- 25a	Drain plug w/bypass valve			96588243	1	pcs
38	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815	1	
			Material type: EPDM			
			Thickness: 2,4			
38	Bulk, O-ring (50 pcs)		Diameter: 16,3	99412727	1	
			Material type: EPDM			
			Thickness: 2,4			
26	Staybolt		Length: 169	98985617	4	pcs
			Thread: M12			
37	Bulk, O-ring (24 pcs)			96547656	2	pcs
38	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815	2	pcs
			Material type: EPDM			
			Thickness: 2,4			
38	Bulk, O-ring (50 pcs)		Diameter: 16,3	99412727	2	pcs
			Material type: EPDM			
			Thickness: 2,4			
+ 44a	Guide vane			98488445	1	pcs
47	Bulk, Bearing ring, rotating (10 pcs)			97905743	1	pcs
47	Bearing ring, rotating			96547649	1	pcs
+ 49	Bulk, Impeller cpl. (10 pcs)			98394265	4	pcs
+ 49	Impeller cpl.			98394411	4	pcs
51	Shaft, spline, cpl.			96588199	1	pcs
55	Outer sleeve			98811280	1	pcs
56	Base plate			96588142	1	pcs
60	Formed wire spring			96547664	1	pcs
64c	Bulk, Clamp, splined (5 pcs)		Inner diameter: 8,5	98496968	1	pcs
			Outer diameter: 15			



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Position	Description	Annotation	Classification data	Part No.	Count	Unit
64a	Bulk, Spacing pipe (24 pcs)			96536198	2	pcs
66	Bulk, Wedge lock washer (10 pcs)			96536157	1	pcs
67	Bulk, Lock nut (10 pcs)		Thread: M8	98277008	1	pcs
+ 105	Bulk, Shaft seal (15 pcs)		Material type: HQQE	96983415	1	pcs