

Submittal Data

PROJECT:	UNIT TAG:	QUANTITY:	
	TYPE OF SERVICE:		
REPRESENTATIVE:	SUBMITTED BY:	DATE:	
ENGINEER:	APPROVED BY:	DATE:	
CONTRACTOR:	ORDER NO.:	DATE:	



Product photo could vary from the actual product

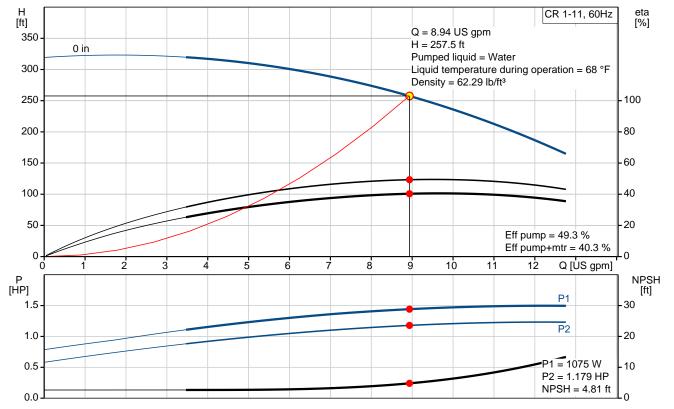
CR 1-11

Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron. All other wetted parts are in stainless steel (EN 1.4301)(AISI 304)

Conditions of Service					
Flow:	8.94 US gpm				
Head:	257.5 ft				
Efficiency:	40.3 %				
Liquid:	Water				
Temperature:	68 °F				
NPSH required:	1.47 m				
Viscosity:					
Specific Gravity:	1.000				

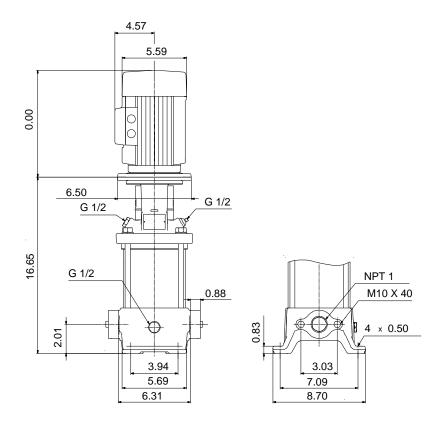
Pump Data	
Max pressure at stated temperature:	232 psi / 250 °F
Maximum ambient temperature:	140 °F
Approvals:	CURUS,NSF61
Shaft seal:	HQQE
Product number:	96081984

Motor Data					
Rated power - P2:	1.5 HP				
Rated voltage:	208-230YY/460Y V				
Main frequency:	60 Hz				
Enclosure class:	55 Dust/Jetting				
Insulation class:	F				
Motor protection:	NONE				
Motor type:	80CA				
Motor efficiency:	84.9 %				





Submittal Data



Materials:

Base: Cast iron

EN 1561 EN-GJL-200

ASTM A48-25B

Impeller: Stainless steel

AISI 304

EN 1.4301

Material code: A Code for rubber: E



Date: 2/20/2018

Tender Text



Product No.: 96081984 CR 1-11 A-B-A-E-HQQE

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
- The shaft seal has assembly length

according to EN 12756.

- Power transmission is via cast iron split coupling.

The motor is a 3-phase AC motor.

Controls:

Frequency converter: NONE

Liquid:

Pumped liquid: Water Liquid temperature during operation: 68 °F Density: 62.29 lb/ft³

Technical:

Speed for pump data: 3466 rpm
Actual calculated flow: 8.94 US gpm
Resulting head of the pump: 257.5 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: Cast iron

EN 1561 EN-GJL-200

ASTM A48-25B Stainless steel

Impeller: Stainless ste EN 1.4301

AISI 304 SIC

Bearing material: SIC

Installation:

Maximum ambient temperature: 140 °F

Max pressure at stated temperature: $232 \text{ psi} / 250 \text{ }^{\circ}\text{F}$

232 psi / -4 °F

Type of connection: Oval / NPT(F)

Size of suction port: 1 inch



Date: 2/20/2018

Size of outlet port: 1 inch
Pressure rating: PN 16
Flange size for motor: 56C

Electrical data:

Motor standard: NEMA Motor type: 80CA

IE Efficiency class: NEMA Premium / IE3 60Hz

Rated power - P2: 1.5 HP Power (P2) required by pump: 1.5 HP Main frequency: 60 Hz

Rated voltage: 3 x 208-230YY/460Y V

Service factor: 1,15

Rated current: 4,45-4,3/2,16 A

Starting current: 720 %
Cos phi - power factor: 0,84-0,78
Rated speed: 3440-3480 rpm
IE efficiency: IE3 84,1%
Motor efficiency at full load: 84.9 %
Motor efficiency at 3/4 load: 81.0 %
Motor efficiency at 1/2 load: 78.5 %

Number of poles: 2

Enclosure class (IEC 34-5): 55 Dust/Jetting

Insulation class (IEC 85): F

Others:

Net weight: 54.4 lb Gross weight: 65.4 lb Shipping volume: 6.11 ft³



Date: 2/20/2018

Position | Count | Description

1 CR 1-11 A-B-A-E-HQQE



Product No.: 96081984

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
- The shaft seal has assembly length

according to EN 12756.

- Power transmission is via cast iron split coupling.

The motor is a 3-phase AC motor.

Controls:

Frequency converter: NONE

Liquid:

Pumped liquid: Water Liquid temperature during operation: 68 °F Density: 62.29 lb/ft³

Technical:

Speed for pump data: 3466 rpm
Actual calculated flow: 8.94 US gpm
Resulting head of the pump: 257.5 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: Cast iron

EN 1561 EN-GJL-200

ASTM A48-25B

Impeller: Stainless steel

EN 1.4301 AISI 304

Bearing material: SIC

Installation:

Maximum ambient temperature: 140 °F

Max pressure at stated temperature: 232 psi / 250 °F

232 psi / -4 °F

Type of connection: Oval / NPT(F)

Size of suction port: 1 inch Size of outlet port: 1 inch

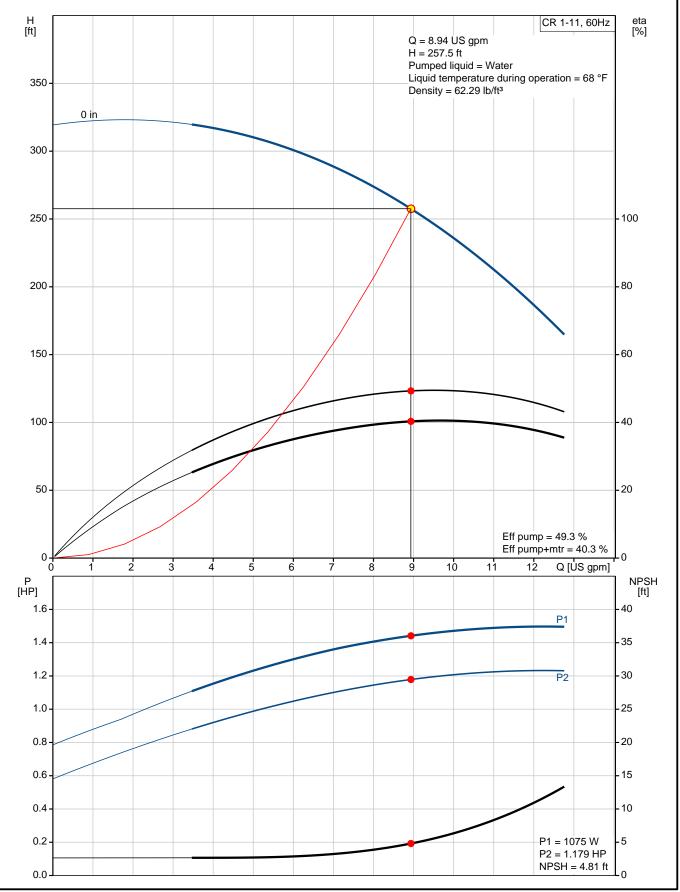


Position	Count	Description	
		Pressure rating:	PN 16
		Flange size for motor:	56C
		riango dizo foi motor.	
		Electrical data:	
		Motor standard:	NEMA
		Motor type:	80CA
		IE Efficiency class:	NEMA Premium / IE3 60Hz
		Rated power - P2:	1.5 HP
		Power (P2) required by pump: Main frequency:	1.5 HP 60 Hz
		Rated voltage:	3 x 208-230YY/460Y V
		Service factor:	1,15
		Rated current:	4,45-4,3/2,16 A
		Starting current:	720 %
		Cos phi - power factor:	0,84-0,78
		Rated speed:	3440-3480 rpm
		IE efficiency:	IE3 84,1%
		Motor efficiency at full load: Motor efficiency at 3/4 load:	84.9 % 81.0 %
		Motor efficiency at 1/2 load:	78.5 %
		Number of poles:	2
		Enclosure class (IEC 34-5):	55 Dust/Jetting
		Insulation class (IEC 85):	F
		Others:	
		Net weight:	54.4 lb
		Gross weight: Shipping volume:	65.4 lb 6.11 ft³
		Shipping volume.	0.1110



Date: 2/20/2018

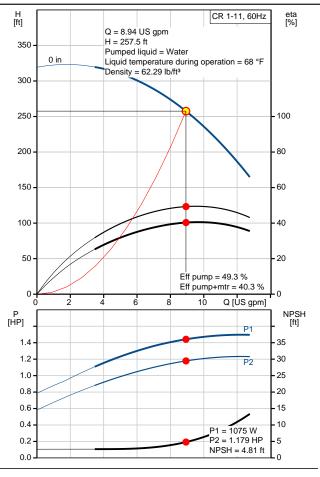
96081984 CR 1-11 60 Hz

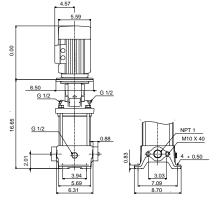


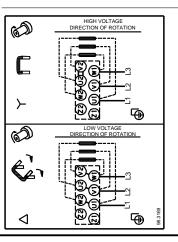


Date: 2/20/2018

Description	Value
General information:	
Product name:	CR 1-11 A-B-A-E-HQQE
Product No.:	96081984
EAN:	5700395167221
Technical:	
Speed for pump data:	3466 rpm
Actual calculated flow:	8.94 US gpm
Resulting head of the pump:	257.5 ft
Stages:	11
Impellers:	11
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:	Cast iron
	EN 1561 EN-GJL-200
	ASTM A48-25B
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Material code:	A
Code for rubber:	E
Bearing material:	SIC
Installation:	
Maximum ambient temperature:	140 °F
Max pressure at stated temperature:	232 psi / 250 °F
· · · · · · · · · · · · · · · · · · ·	232 psi / -4 °F
Type of connection:	Oval / NPT(F)
Connect code:	В
Size of suction port:	1 inch
Size of outlet port:	1 inch
Pressure rating:	PN 16
Flange size for motor:	56C
Lieuid	
Liquid: Pumped liquid:	Water
Liquid temperature during operation:	68 °F
Density:	62.29 lb/ft³
_ 55ity.	5_1_0 16/1t
Electrical data:	
Motor standard:	NEMA
Motor type:	80CA
IE Efficiency class:	NEMA Premium / IE3 60Hz
Rated power - P2:	1.5 HP
Power (P2) required by pump:	1.5 HP
Main frequency:	60 Hz
Rated voltage:	3 x 208-230YY/460Y V
Service factor:	1,15
Rated current:	4,45-4,3/2,16 A







720 %

Starting current:

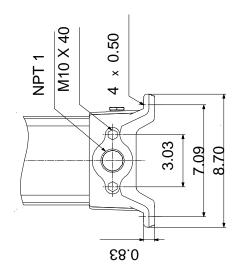


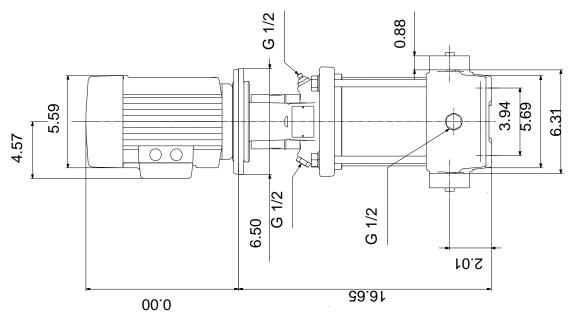
Description	Value
Load current:	5,1-4,95/2,48 A
Cos phi - power factor:	0,84-0,78
Rated speed:	3440-3480 rpm
IE efficiency:	IE3 84,1%
Motor efficiency at full load:	84.9 %
Motor efficiency at 3/4 load:	81.0 %
Motor efficiency at 1/2 load:	78.5 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protection:	NONE
Motor Number:	98976607
Controls:	
Frequency converter:	NONE
Others:	
Net weight:	54.4 lb
Gross weight:	65.4 lb
Shipping volume:	6.11 ft ³



Date: 2/20/2018

96081984 CR 1-11 60 Hz



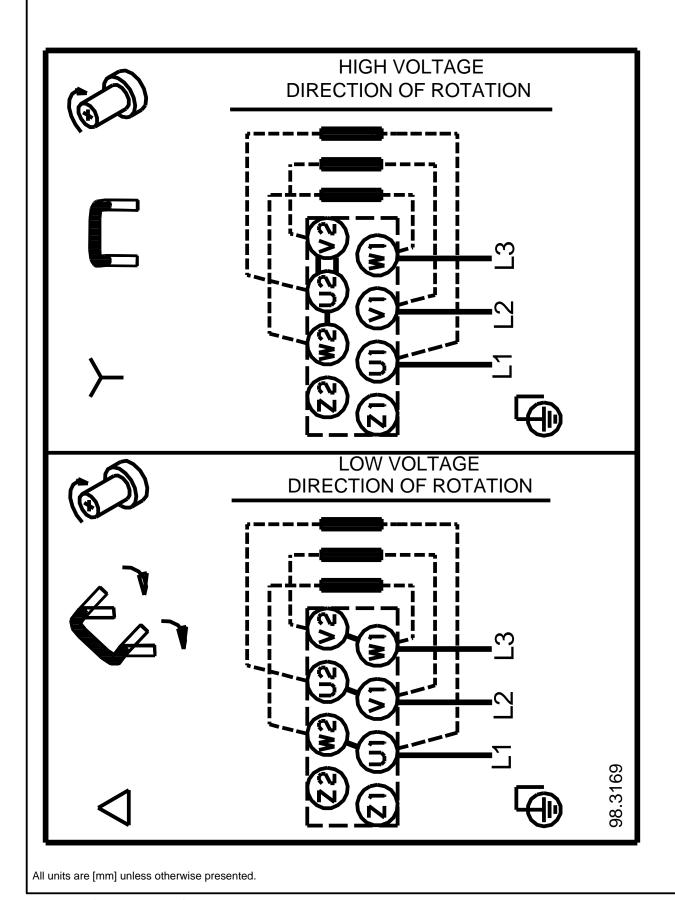


Note! All units are in [mm] unless otherwise stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 2/20/2018

96081984 CR 1-11 60 Hz





Date: 2/20/2018

Order Data:

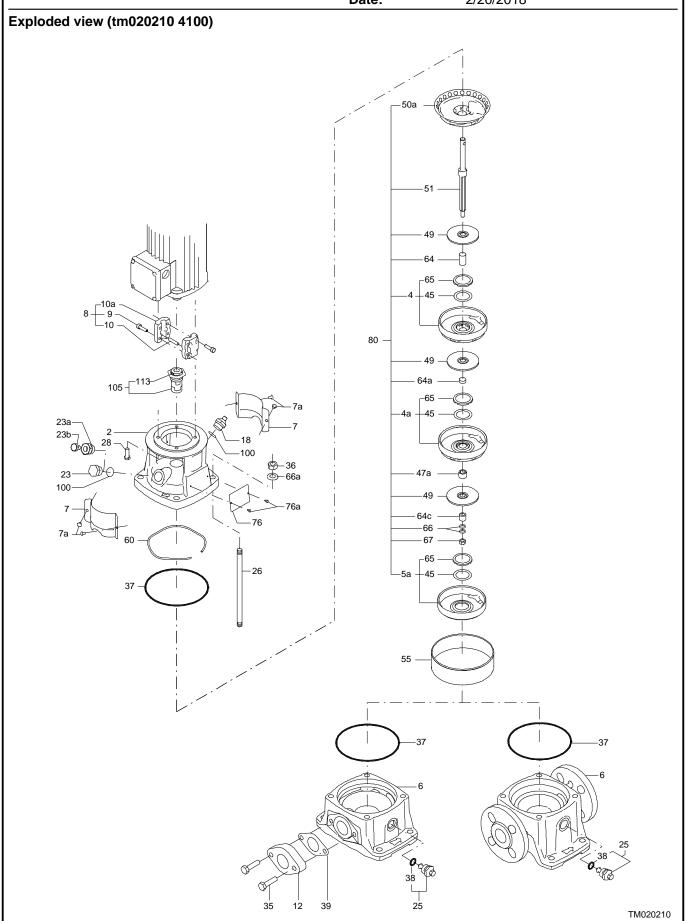
Product name: CR 1-11 A-B-A-E-HQQE

Amount: 1

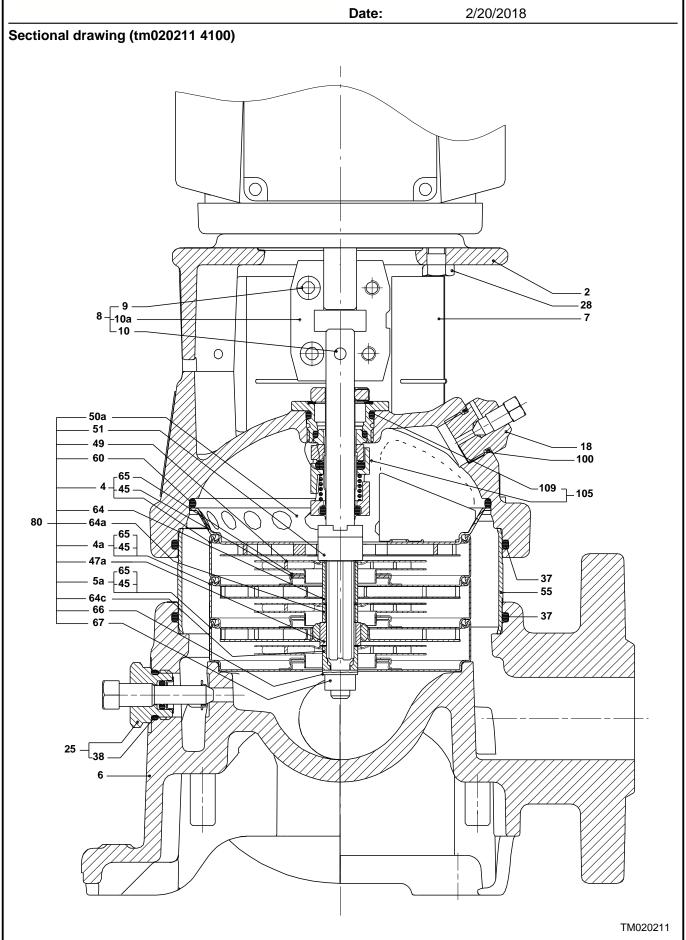
Product No.: 96081984

Total: Price on request











Date: 2/20/2018

Parts list CR 1-11, Prod number 96081984 Valid from 16.9.2016 (1638)

Position	•	Aimotation	Classification data	Part No.			
	Motor				1		pcs
	Base cpl.				1		pc
6	Base					1	
12	Flange					2	
35	Hex head screw		Length: 40		•	4	
			Thread: M10				
37	Gasket				:	2	
	Sealing parts				1		рс
25	Drain plug w/bypass valve					1	
38	O-ring		Diameter: 16,3				
			Material type: EPDM				
			Thickness: 2,4				
37	Oring		1111CK1C33. 2,4			2	
	O-ring		Diameter 10.0				
100	O-ring		Diameter: 16,3		•	2	
			Material type: EPDM				
			Thickness: 2,4				
2	Pump head cpl.				1		pc
2	Pump head					1	
7	Coupling guard					2	
7a	Thread cutting screw					4	
18	Air vent screw					1	
	Plug						
	Spindle						
25	Drain plug					1	
23	Pipe plug					•	
25							
	Drain plug		Law with COE				
28	Hex head cap screw		Length: 25		•	4	
			Thread: UNC 3/8"				
60	Formed wire spring					1	
8	Coupling cpl.				1		pc
9	Hex socket head cap screw		Designation: DIN 912		•	4	
			Length: 20				
			Thread: M6				
10	Shaft pin		Diameter: 5			1	
	·		Length: 26				
10a	Coupling half		_			2	
26	Staybolt		Length: 223		4		рс
_0	Ciayboit		Thread: M12		7		۲۰
36a	Washer				4		no
Jua	vvasilei		Designation: DIN 125 A		4		pc
			Inner diameter: 13				
			Outer diameter: 24				
			Thickness: 2,5				
55	Outer sleeve				1		рс
66a	Nut		Thread: M12		4		рс
80	Chamber stack		Bearing type: SILICON CARBIDE		1		рс
	Impeller					11	
	Guide vane cpl.					1	
	Plate						
50a	Guide vane						
50b							
	Top plate					,	
4	Chamber cpl.					3	
	Guide vane						
	Plate						



Position	Description	Annotation	Classification data	Part No.	Count	Unit
	Retainer					
	Intermediate chamber					
	Vane					
45	Neck ring					
65	Retainer					
- 4a	Chamber w. bearing cpl.				2	
	Guide vane					
	Retainer for bearing					
	Bearing bush					
	Retainer					
	Intermediate chamber					
	Vane					
45	Neck ring					
65	Retainer					
- 5a	Chamber cpl.				1	
	Retainer					
	Intermediate chamber					
	Vane					
45	Neck ring					
65	Retainer					
36	Lock nut		Thread: M8		1	
47a	Bearing ring, rotating				2	
51	Shaft, spline, cpl.				1	
64a	Spacing pipe				8	
64a	Spacing pipe		Inner diameter: 12,85		2	
			Outer diameter: 15,85			
			Length: 4,50			
64c	Clamp, splined		Inner diameter: 8,5		1	
			Outer diameter: 15			
66	Wedge lock washer				1	
- 105	Shaft seal		Material type: HQQE		1	pcs
	O-ring				1	
	O-ring				1	
	Seal driver, upper				1	
	Seal driver, lower				1	
	Spacer ring				1	
	Pipe				1	
	Plug				1	
	Plug				1	
	Compression spring				1	
	Socket set screw				1	
102	O-ring		Diameter: 22,00		1	
			Material type: EPDM			
			Thickness: 2,75			
103	Seal ring, stationary				1	
105	Seal ring, rotating				1	
107	O-ring				1	
113	Driver				1	