GRUNDFOS

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

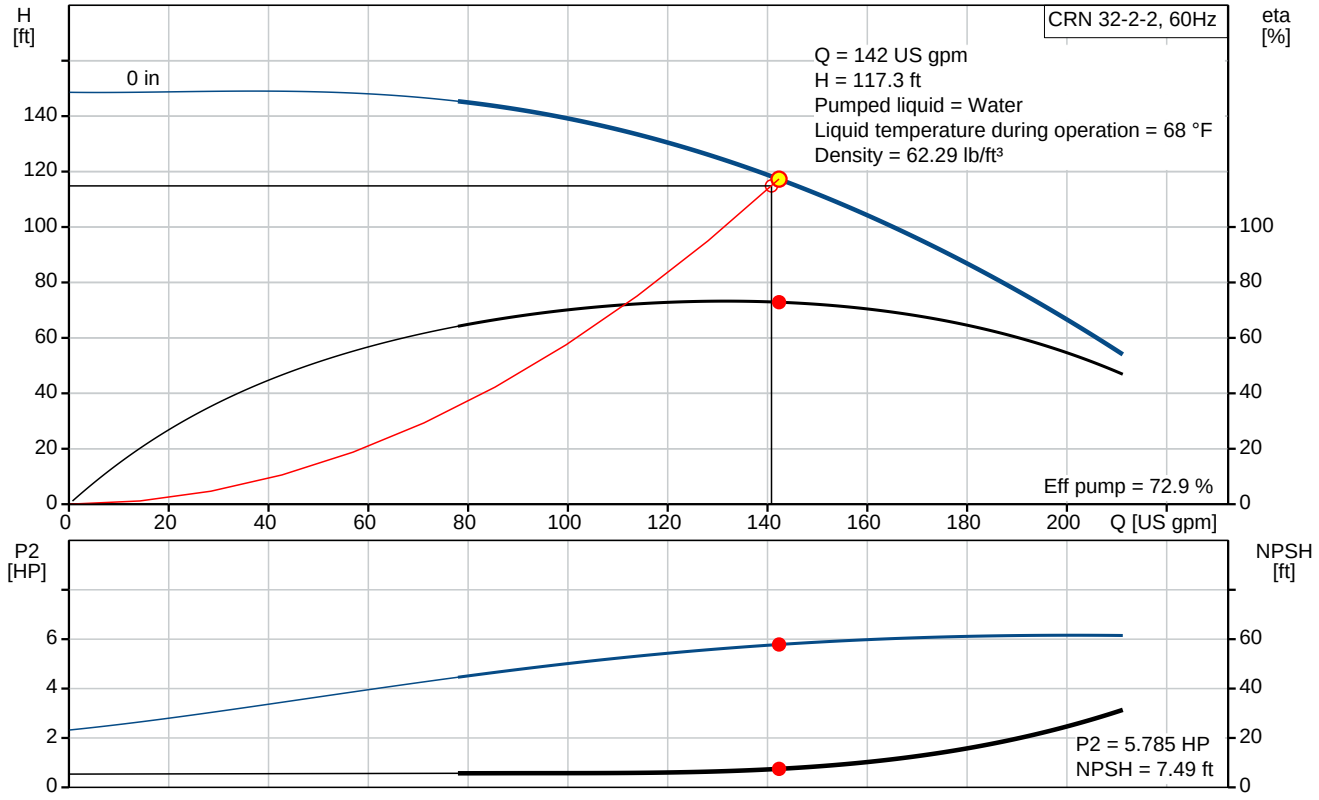
CRN 32-2-2

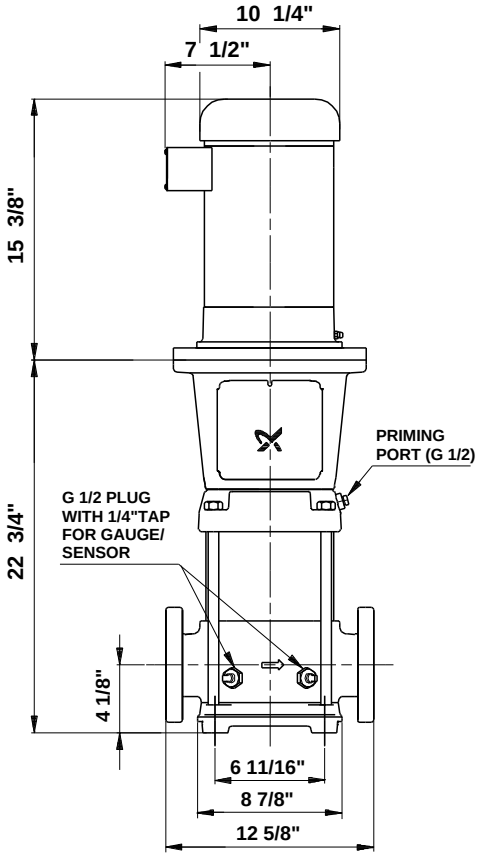
Vertical, multistage centrifugal pump with suction and discharge ports on same the level. Pump materials in contact with the liquid are in high-grade stainless steel (EN 1.4401) (AISI 316)

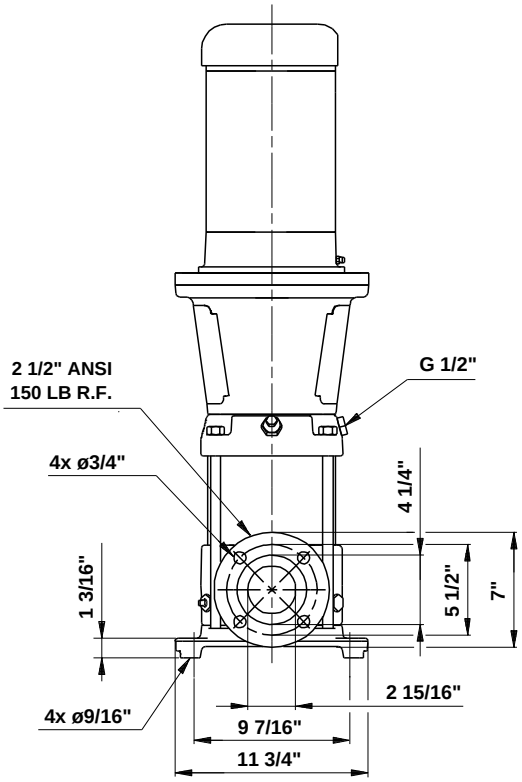
Conditions of Service	
Flow:	142 US gpm
Head:	117.3 ft
Efficiency:	
Liquid:	Water
Temperature:	68 °F
NPSH required:	7.49 ft
Viscosity:	
Specific Gravity:	1.000

Pump Data	
Max pressure at stated temperature:	232 psi / 194 °F
Liquid temperature range:	32 .. 194 °F
Maximum ambient temperature:	104 °F
Shaft seal:	KUBV
Product number:	29Z53053

Motor Data	
Rated power - P2:	7.5 HP
Rated voltage:	208-230 V
Main frequency:	60 Hz
Insulation class:	F
Motor protection:	CONTACT
Motor type:	Baldor, TEFC
Motor_efficiency:	82 %







Materials:

Base:	Stainless steel EN 1.4408 AISI 316
Impeller:	Stainless steel AISI 316 EN 1.4401
Material code:	G
Code for rubber:	V

Company name:
Created by:
Phone:

Date: 2/21/2018

Tender Text



Product No.: 29Z53053
CRN 32-2-2 U-G-G-V-KUBV
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.

Liquid:

Pumped liquid:	Water
Liquid temperature range:	32 .. 194 °F
Liquid temperature during operation:	68 °F
Density:	62.29 lb/ft³

Technical:

Actual calculated flow:	142 US gpm
Rated flow:	141 US gpm
Resulting head of the pump:	117.3 ft
Code for shaft seal:	KUBV
Curve tolerance:	ISO 9906:1999 Annex A

Materials:

Base:	Stainless steel EN 1.4408 AISI 316
Impeller:	Stainless steel EN 1.4401 AISI 316

Installation:

Maximum ambient temperature:	104 °F
Max pressure at stated temperature:	232 psi / 194 °F
Type of connection:	ANSI
Size of suction port:	2 1/2" inch
Size of outlet port:	2 1/2" inch
Pressure rating:	150 Lb.
Flange size for motor:	213TC

Electrical data:

Motor type:	Baldor, TEFC
Rated power - P2:	7.5 HP
Main frequency:	60 Hz
Rated voltage:	1 x 208-230 V
Service factor:	1,15
Rated current:	34.3/31 A
Cos phi - power factor:	0,91
Rated speed:	3450 rpm
Motor efficiency at full load:	82 %
Insulation class (IEC 85):	F

Others:

Gross weight:	288 lb
Shipping volume:	8.48 ft^3

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Company name:
Created by:
Phone:

Date: 2/21/2018

Position	Count	Description
	1	**CRN 32-2-2 U-G-G-V-KUBV**



Product No.: 29Z53053
Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation.

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Liquid:

Pumped liquid:	Water
Liquid temperature range:	32 .. 194 °F
Liquid temperature during operation:	68 °F
Density:	62.29 lb/ft³

Technical:

Actual calculated flow:	142 US gpm
Rated flow:	141 US gpm
Resulting head of the pump:	117.3 ft
Code for shaft seal:	KUBV
Curve tolerance:	ISO 9906:1999 Annex A

Materials:

Base:	Stainless steel EN 1.4408 AISI 316
Impeller:	Stainless steel EN 1.4401 AISI 316

Installation:

Maximum ambient temperature:	104 °F
Max pressure at stated temperature:	232 psi / 194 °F
Type of connection:	ANSI
Size of suction port:	2 1/2" inch
Size of outlet port:	2 1/2" inch
Pressure rating:	150 Lb.
Flange size for motor:	213TC

Electrical data:

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Company name:
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Phone:

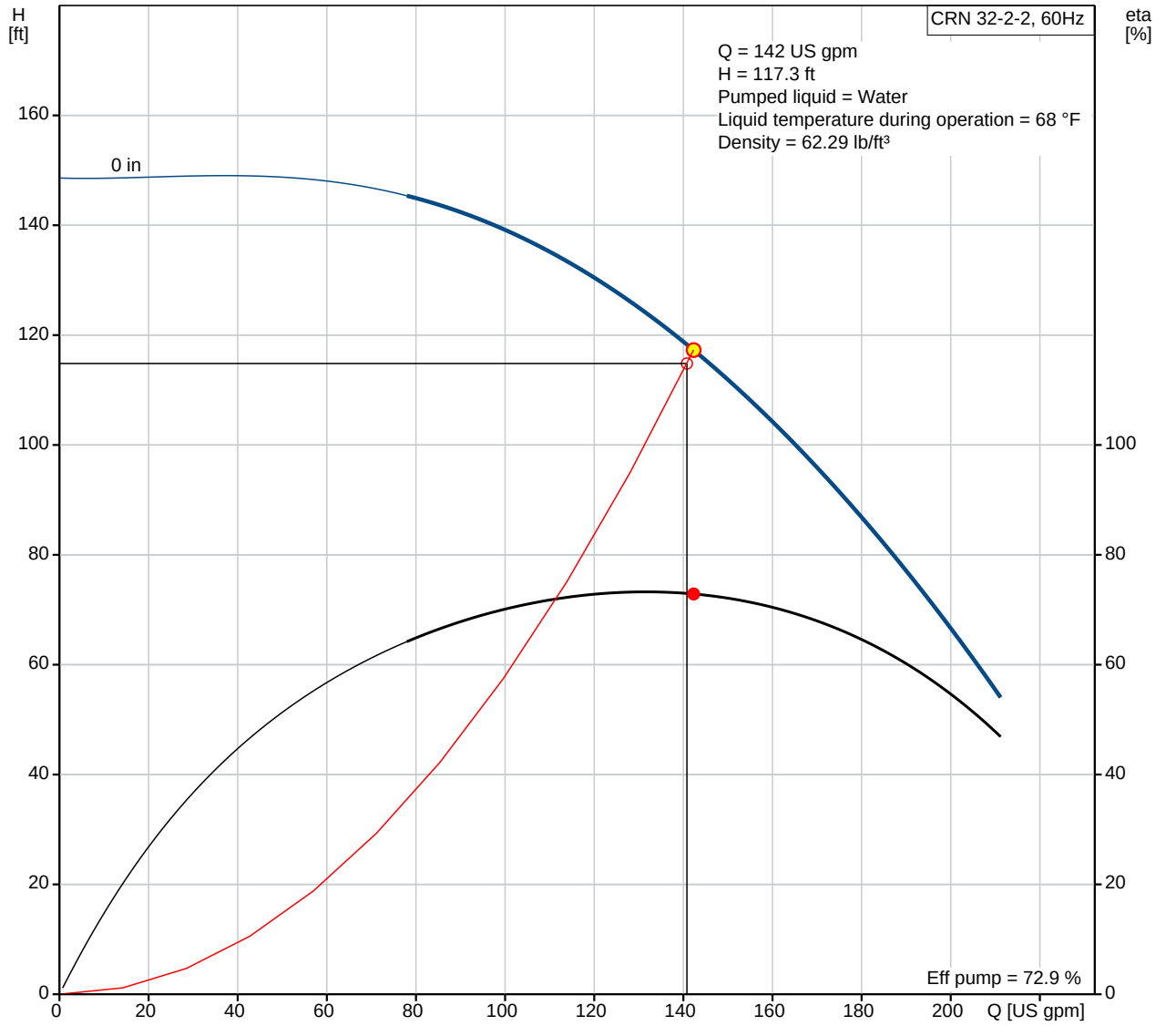
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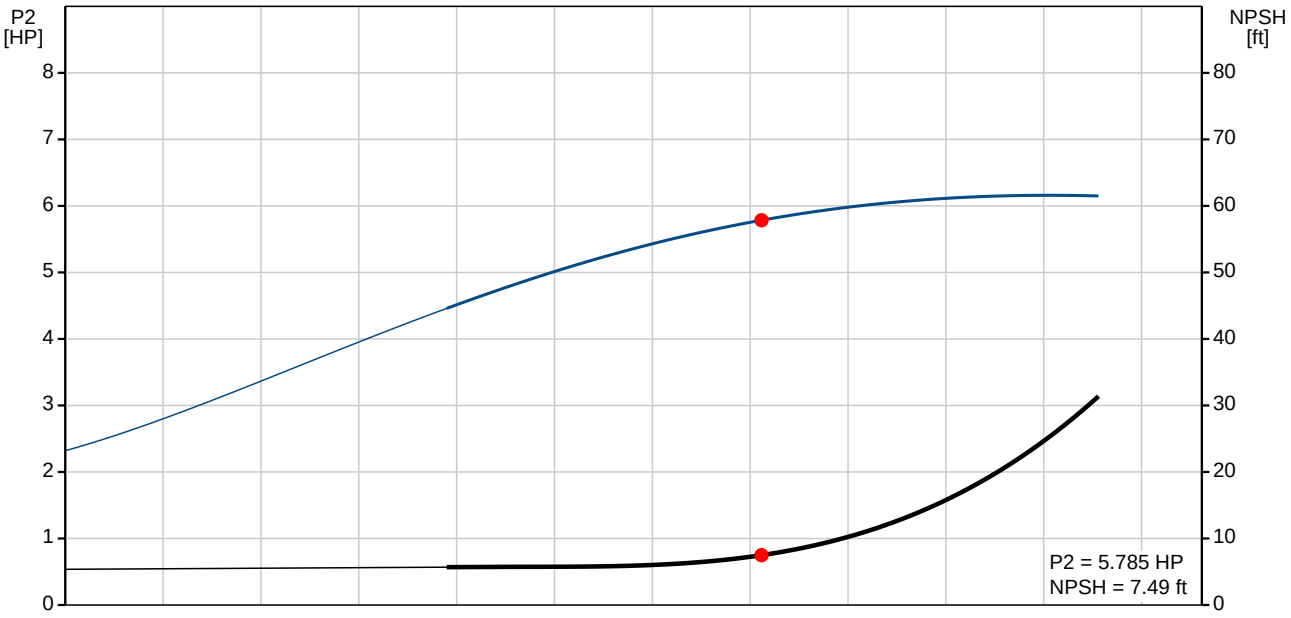
Position	Count	Description	
		Motor type:	Baldor, TEFC
		Rated power - P2:	7.5 HP
		Main frequency:	60 Hz
		Rated voltage:	1 x 208-230 V
		Service factor:	1,15
		Rated current:	34.3/31 A
		Cos phi - power factor:	0,91
		Rated speed:	3450 rpm
		Motor efficiency at full load:	82 %
		Insulation class (IEC 85):	F
		Others:	
		Gross weight:	288 lb
		Shipping volume:	8.48 ft^3

Company name:
Created by:
Phone:

Date: 2/21/2018

29Z53053 CRN 32-2-2 60 Hz

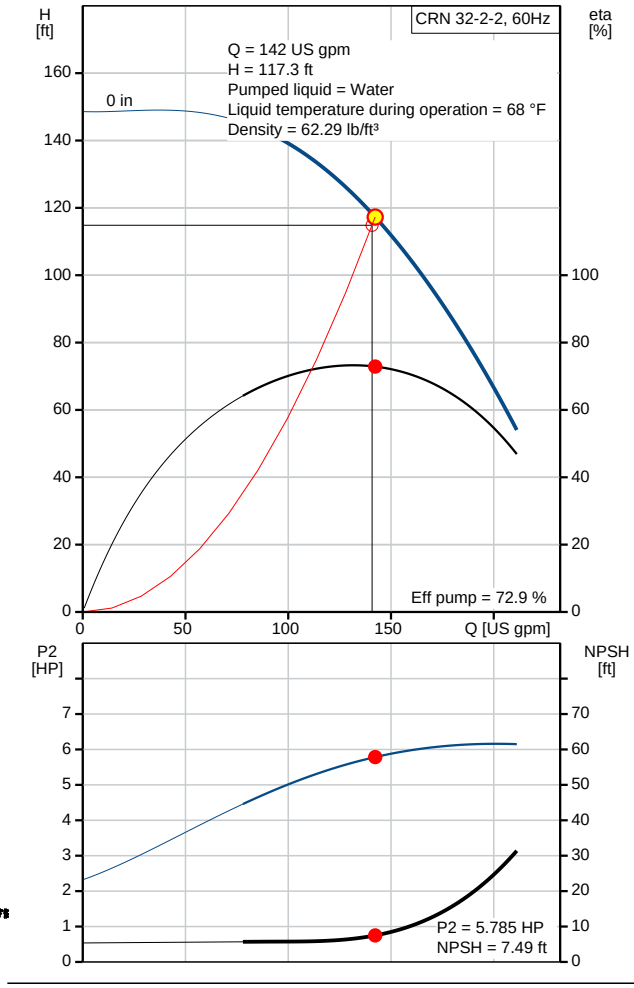


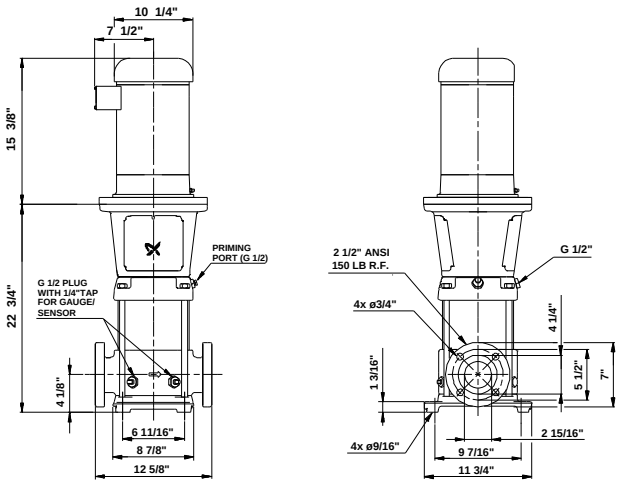


Company name:
Created by:
Phone:

Date: 2/21/2018

Description	Value
General information:	
Product name:	CRN 32-2-2 U-G-G-V-KUBV
Product No.:	29Z53053
EAN:	5700394519946
Technical:	
Actual calculated flow:	142 US gpm
Rated flow:	141 US gpm
Resulting head of the pump:	117.3 ft
Stages:	2
Impellers:	2
Number of reduced-diameter impellers:	2
Code for shaft seal:	KUBV
Curve tolerance:	ISO 9906:1999 Annex A
Pump Number:	96418684
Pump version:	U
Model:	A
Cooling:	TEFC
Materials:	
Base:	Stainless steel
	EN 1.4408
	AISI 316
Impeller:	Stainless steel
	EN 1.4401
	AISI 316
Material code:	G
Code for rubber:	V
Installation:	
Maximum ambient temperature:	104 °F
Max pressure at stated temperature:	232 psi / 194 °F
Type of connection:	ANSI
Connect code:	G
Size of suction port:	2 1/2" inch
Size of outlet port:	2 1/2" inch
Pressure rating:	150 Lb.
Flange size for motor:	213TC
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	32 .. 194 °F
Liquid temperature during operation:	68 °F
Density:	62.29 lb/ft³
Electrical data:	
Motor type:	Baldor, TEFC
Rated power - P2:	7.5 HP
KVA code:	F
Main frequency:	60 Hz
Rated voltage:	1 x 208-230 V
Service factor:	1,15
Rated current:	34.3/31 A
Load current:	39.3/35.5 A
Cos phi - power factor:	0,91
Rated speed:	3450 rpm
Motor efficiency at full load:	82 %
Insulation class (IEC 85):	F





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Company name:
Created by:
Phone:

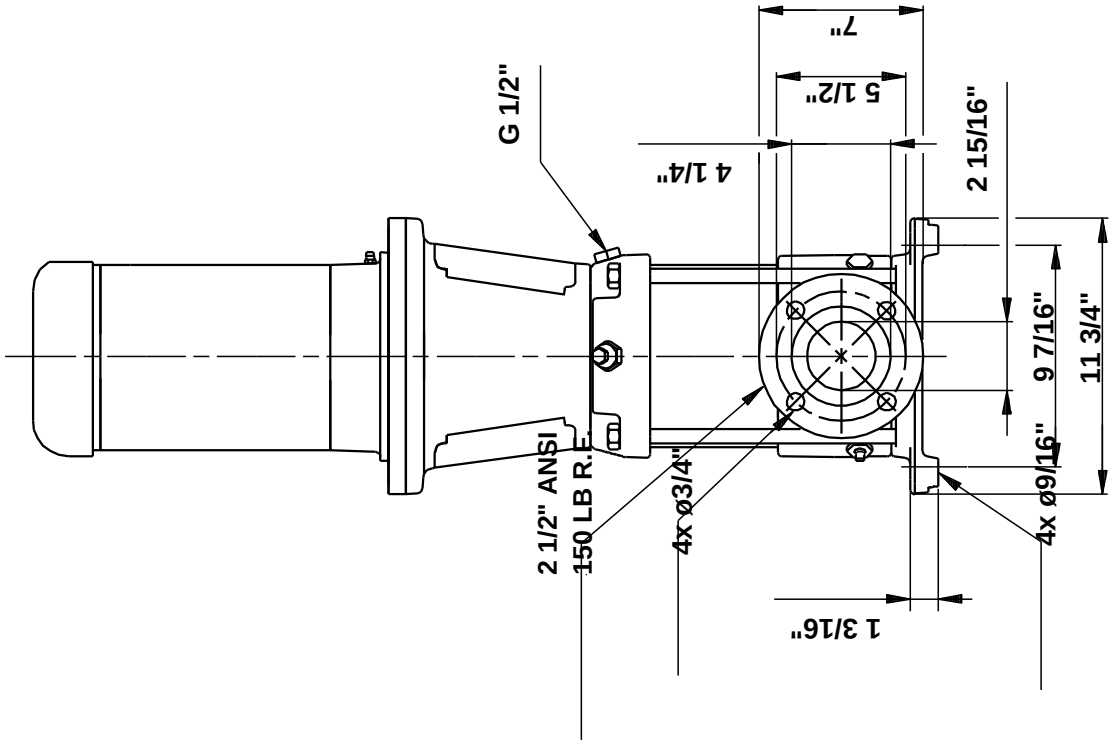
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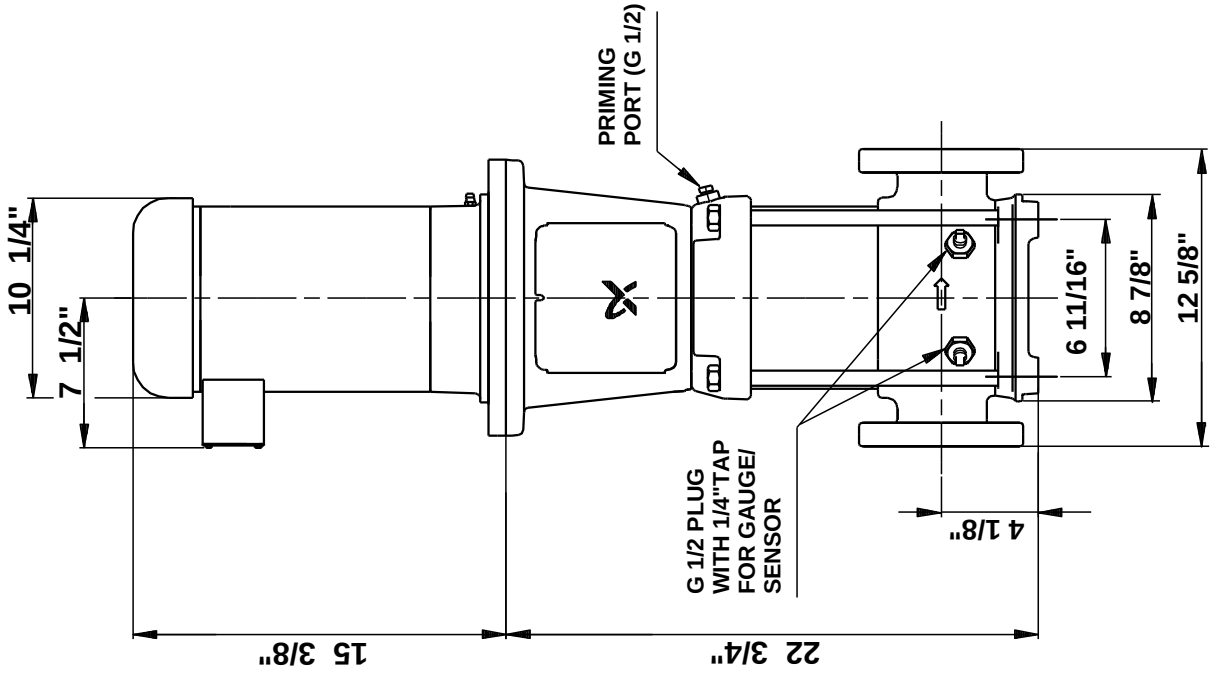
Description	Value
Motor protection:	CONTACT
Motor Number:	85700017
Others:	
Gross weight:	288 lb
Shipping volume:	8.48 ft³
Sales region:	Namreg

Company name:
Created by:
Phone:

Date: 2/21/2018

29Z53053 CRN 32-2-2 60 Hz





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

Company name:
Created by:
Phone:

Date: 2/21/2018

Order Data:

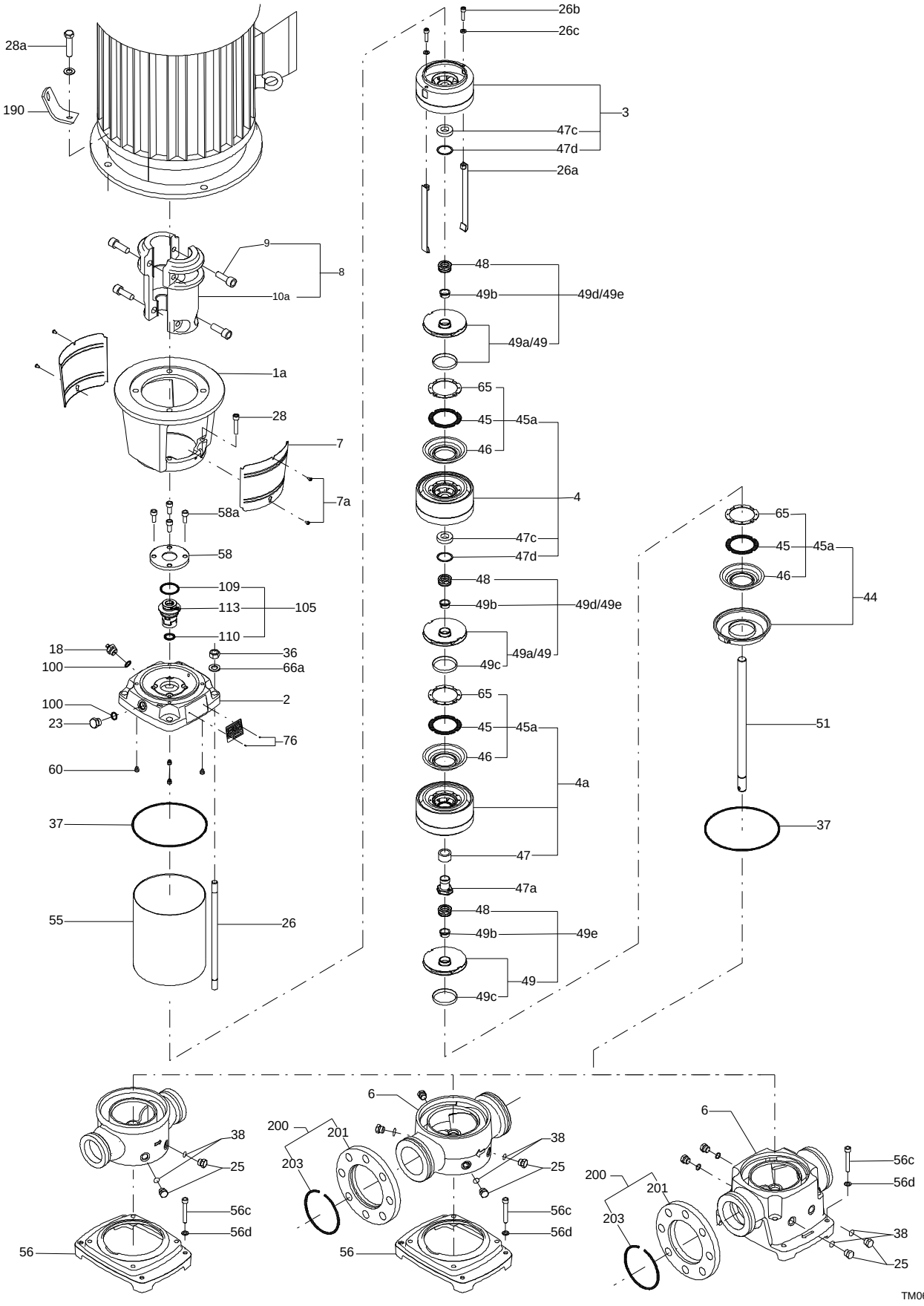
Product name: CRN 32-2-2 U-G-G-V-KUBV
Amount: 1
Product No.: 29Z53053

Total: Price on request

Company name:
Created by:
Phone:

Date: 2/21/2018

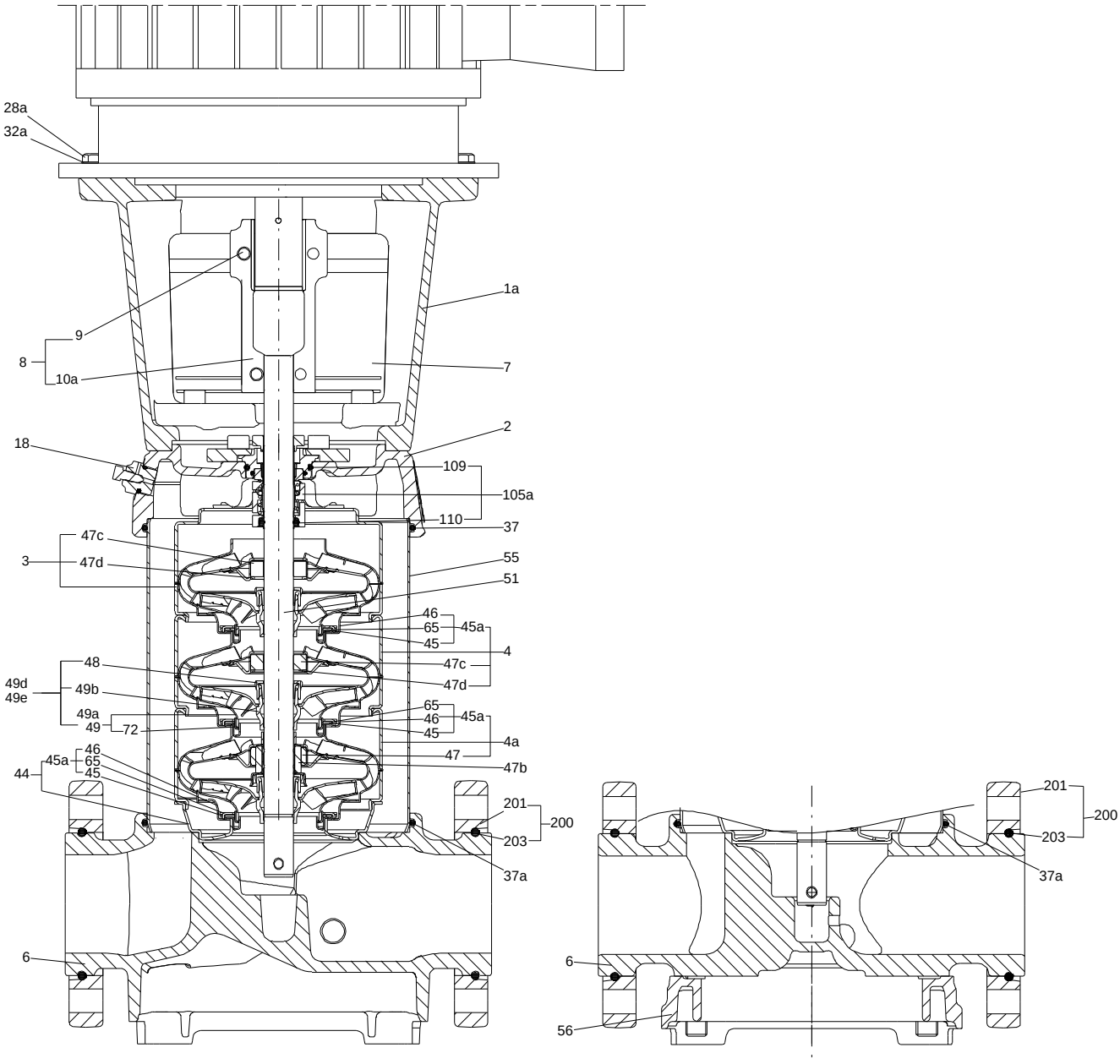
Exploded view (TM065558 LACR)



Company name:
Created by:
Phone:

Date: 2/21/2018

Sectional drawing (TM065571 LACR)



GRUNDFOS

Company name:
Created by:
Phone:

Date: 2/21/2018

Parts list CRN 32-2-2, Prod number 29Z53053
Valid from 3.3.2014 (1410)

	Position	Description	Annotation	Classification data	Part No.	Count	Unit
		Motor				1	pcs
-		Flange cpl.				2	pcs
	201	Flange				1	
	203	Lock ring				1	
-		Motor stool cpl.				1	pcs
	1a	Motor stool				1	
	7	Coupling guard				2	
	7a	Socket button head screw				4	
	28	Hex socket head cap screw		Designation: DIN 912		4	
				Length: 50			
				Thread: M10			
-	1	Basic unit				1	pcs
-	2a	Pump head cpl.				1	
	2	Pump head					
	9	Hex socket head cap screw		Designation: DIN 912			
				Length: 25			
				Thread: M10			
-	18	Air vent screw					
		Plug					
		Spindle					
	23	Plug					
	37	O-ring		Diameter: 197			
				Material type: FKM			
				Thickness: 4			
	58	Cover					
	60	Spring					
	100	O-ring		Diameter: 16,3			
				Material type: FKM			
				Thickness: 2,4			
-	6b	Base cpl.		Rubber type: FKM		1	
	6	Base					
	25	Plug					
	32	Washer		Designation: DIN 125A			
				Inner diameter: 6,4			
				Outer diameter: 12,0			
				Thickness: 1,6			
	37	O-ring		Diameter: 197			
				Material type: FKM			
				Thickness: 4			
	38	O-ring		Diameter: 16,3			
				Material type: FKM			
				Thickness: 2,4			
	56	Base plate					
	26	Staybolt		Length: 352		4	
				Thread: M16			
	36	Nut		Thread: M16		4	
	55	Outer sleeve		Outer diameter: 197		1	
				Length: 165,5			
	66a	Washer		Designation: DIN 125 A2		4	
				Inner diameter: 17			
				Outer diameter: 30			
				Thickness: 3			
-	80	Chamber stack				1	

GRUNDFOS

Company name:
Created by:
Phone:

Date: 2/21/2018

	Position	Description	Annotation	Classification data	Part No.	Count	Unit
-	3	Upper chamber cpl.					
		Chamber					
		Chamber					
		Guide					
		Cone					
		Guide cup					
		Guide cup					
	47c	Bush					
	47d	Lock ring					
-	4a	Intermediate chamber cpl.					
		Chamber					
		Chamber					
		Neck ring cpl.					
		Guide					
		Cone					
		Guide cup					
		Guide cup					
	47	Bearing					
	26a	Strap cpl.		Length: 149			
				Thread: M8			
	26b	Hex socket head cap screw					
	26c	Washer		Designation: DIN 125A			
				Inner diameter: 8,4			
				Outer diameter: 16			
				Thickness: 1,6			
-	44	Suction interconnector coupling					
	44a	Inlet part					
	45	Seal ring					
	65	Neck ring					
	65	Top f/neck ring					
-	47a	Bearing cpl.					
		Disc spring					
		Bearing ring, rotating					
		Holder					
		Driver					
-	49a	Impeller cpl. reduced diameter					
	48	Nut					
-	49a	Impeller					
		Impeller hub					
	49c	Wear ring					
	49b	Split cone					
	51	Shaft					
-	8	Coupling cpl.		Dimension: 22/34,9		1	pcs
	9	Hex socket head cap screw		Designation: DIN 912		4	
				Length: 25			
				Thread: M10			
	10a	Coupling half				2	
-	105	Shaft seal		Material type: HQQV		1	pcs
		Adjusting fork				1	
	109	O-ring		Diameter: 44,45		1	
				Material type: FKM			
				Thickness: 3,53			
	110	O-ring		Diameter: 21,5		1	
				Thickness: 4,25			