

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

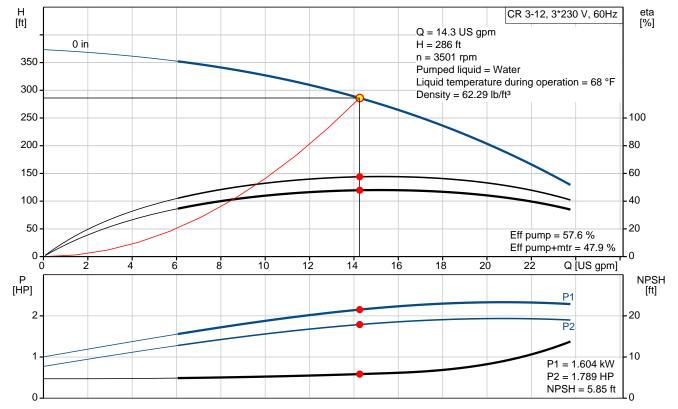
CR 3-12

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:	14.3 US gpm			
Head:	286 ft			
Efficiency:	47.9 %			
Liquid:	Water			
Temperature:	68 °F			
NPSH required:	5.85 ft			
Viscosity:				
Specific Gravity:	1.000			

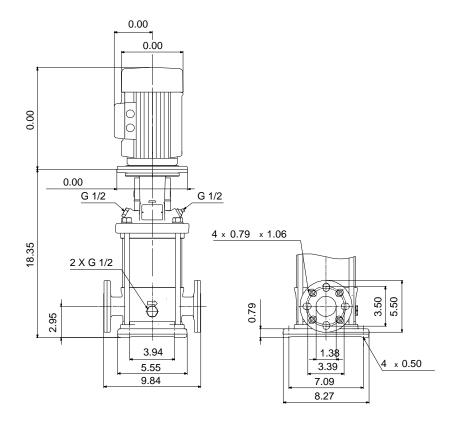
Pump Data	
Max pressure at stated temperature:	363 psi / 250 °F
Maximum ambient temperature:	140 °F
Approvals:	CURUS,NSF61
Shaft seal:	HQQE
Product number:	96083220

Motor Data				
Rated power - P2:	2 HP			
Rated voltage:	208-230YY/460Y V			
Main frequency:	60 Hz			
Enclosure class:	55 Dust/Jetting			
Insulation class:	F			
Motor protection:	NONE			
Motor type:	90CC			
Motor_efficiency:	85.5 %			





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.: 96083220 CR 3-12 A-FGJ-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: 3452 rpm
Actual calculated flow: 14.3 US gpm
Resulting head of the pump: 286 ft
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE

Approvals on nameplate: CURUS,NSF61 Curve tolerance: ISO9906:2012 3B

Materials:

Impeller:

Base: Cast iron

EN 1561 EN-GJL-200

ASTM A48-25B Stainless steel

EN 1.4301 AISI 304

Bearing material: SIC

Installation:

Maximum ambient temperature: 140 °F

Max pressure at stated temperature: 363 psi / 250 °F

363 psi / -4 °F

Type of connection: DIN / ANSI / JIS

Size of inlet connection: DN 25/32



Date: 2/20/2018

Size of suction port:

Size of outlet connection:

DN 25/32

Size of outlet port:

1 1/4 inch

Pressure rating:

PN 25

Flange size for motor:

Flange rating inlet:

250 lb

Electrical data:

Motor standard: NEMA Motor type: 90CC

IE Efficiency class: NEMA Premium / IE3 60Hz

Rated power - P2: 2 HP Power (P2) required by pump: 2 HP Main frequency: 60 Hz

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

Service factor: 1,15

Rated current: 5,70-5,40/2,70 A Starting current: 810-900 % Cos phi - power factor: 0,88-0,84 Rated speed: 3480-3510 rpm IE efficiency: IE3 85,5% Motor efficiency at full load: 85.5 % Motor efficiency at 3/4 load: 85.0 % Motor efficiency at 1/2 load: 83.0 %

Number of poles: 2

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

Insulation class (IEC 85): F

Others:

Net weight: 87.2 lb Gross weight: 102 lb Shipping volume: 8.26 ft³



Date: 2/20/2018

Position | Count | Description

1 CR 3-12 A-FGJ-A-E-HQQE



Product No.: 96083220

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: 3452 rpm
Actual calculated flow: 14.3 US gpm
Resulting head of the pump: 286 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: 363 psi / 250 °F

363 psi / -4 °F

Type of connection: DIN / ANSI / JIS
Size of inlet connection: DN 25/32
Size of suction port: 1 1/4 inch



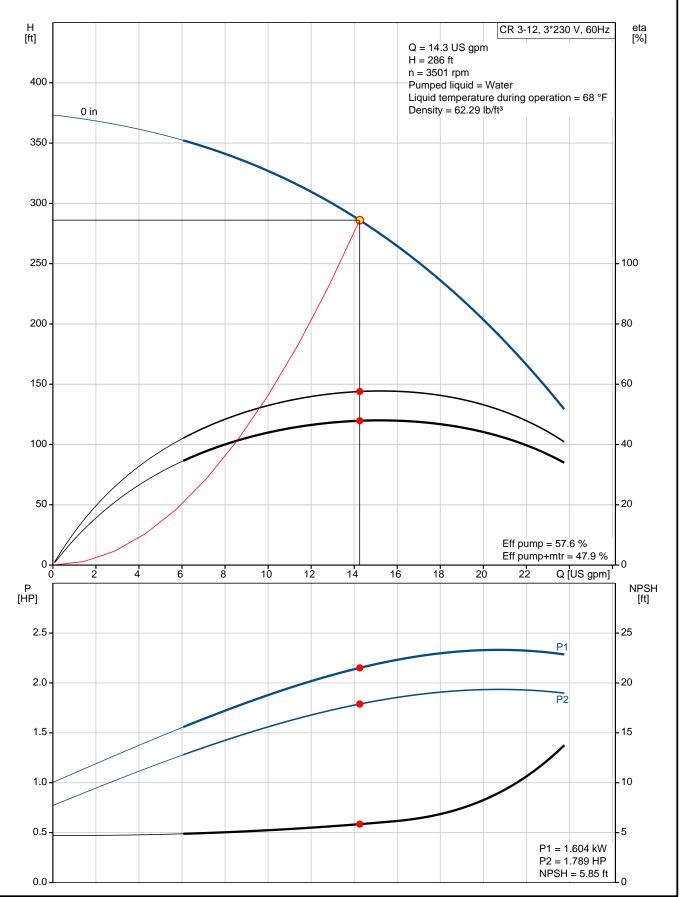
Date: 2/20/2018

			Date:	2/20/2018
Position	Count	Description		
		Size of outlet connection:	DN 25/32	
		Size of outlet port:	1 1/4 inch	
		Pressure rating:	PN 25	
		Flange size for motor:	56C	
		Flange rating inlet:	250 lb	
		Electrical data:	NIERAA	
		Motor standard: Motor type:	NEMA 90CC	
		IE Efficiency class:	NEMA Premium / IE3 60Hz	
		Rated power - P2:	2 HP	
		Power (P2) required by pump:	2 HP	
		Main frequency:	60 Hz	
		Rated voltage:	3 x 208-230YY/460Y V	
		Service factor:	1,15	
		Rated current:	5,70-5,40/2,70 A	
		Starting current:	810-900 %	
		Cos phi - power factor:	0,88-0,84	
		Rated speed:	3480-3510 rpm	
		IE efficiency: Motor efficiency at full load:	IE3 85,5% 85.5 %	
		Motor efficiency at 3/4 load:	85.0 %	
		Motor efficiency at 1/2 load:	83.0 %	
		Number of poles:	2	
		Enclosure class (IEC 34-5):	55 Dust/Jetting	
		Insulation class (IEC 85):	F	
		Others:		
		Net weight:	87.2 lb	
		Gross weight:	102 lb	
		Shipping volume:	8.26 ft ³	
	I	İ		



Date: 2/20/2018

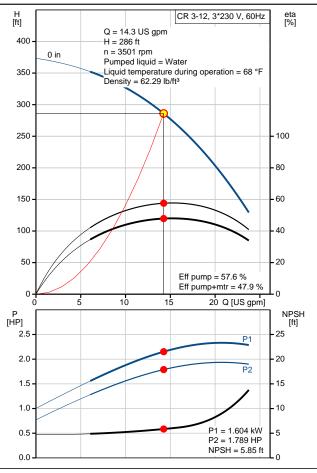
96083220 CR 3-12 60 Hz

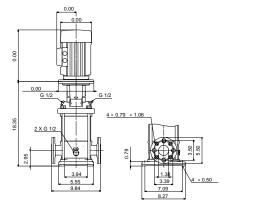


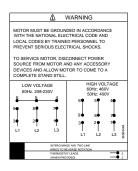


Date: 2/20/2018

Description	Value
General information:	
Product name:	CR 3-12 A-FGJ-A-E-HQQE
Product No.:	96083220
EAN:	5700395183887
Technical:	
Speed for pump data:	3452 rpm
Actual calculated flow:	14.3 US gpm
Resulting head of the pump:	286 ft
Stages:	12
Impellers:	12
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
	TEFC
Cooling:	IEFU
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:	363 psi / 250 °F
max procedure at stated temperature.	363 psi / -4 °F
Type of connection:	DIN / ANSI / JIS
Connect code:	FGJ
Size of inlet connection:	DN 25/32
Size of suction port:	1 1/4 inch
Size of outlet connection:	DN 25/32
Size of outlet connection. Size of outlet port:	1 1/4 inch
	PN 25
Pressure rating:	
Flange size for motor:	56C
Flange rating inlet:	250 lb
Liquid:	
Pumped liquid:	Water
Liquid temperature during operation:	68 °F
Density:	62.29 lb/ft ³
Electrical data:	
Motor standard:	NEMA
Motor type:	90CC
IE Efficiency class:	NEMA Premium / IE3 60Hz
IL LIIIGETICA GIASS:	
Rated power - P2: Power (P2) required by pump:	2 HP 2 HP







60 Hz

3 x 208-230YY/460Y V

Main frequency:

Rated voltage:



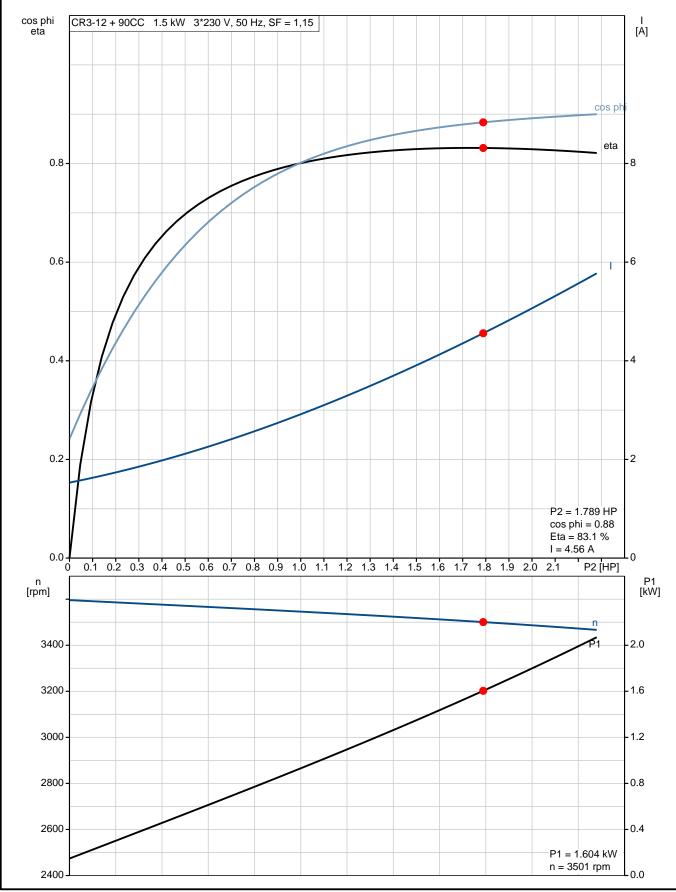
Date: 2/20/2018

Description	Value
Service factor:	1,15
Rated current:	5,70-5,40/2,70 A
Starting current:	810-900 %
Load current:	6,55-6,1/3,05 A
Cos phi - power factor:	0,88-0,84
Rated speed:	3480-3510 rpm
IE efficiency:	IE3 85,5%
Motor efficiency at full load:	85.5 %
Motor efficiency at 3/4 load:	85.0 %
Motor efficiency at 1/2 load:	83.0 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protection:	NONE
Motor Number:	85900705
Controls:	
Frequency converter:	NONE
Others:	
Net weight:	87.2 lb
Gross weight:	102 lb
Shipping volume:	8.26 ft³



Date: 2/20/2018

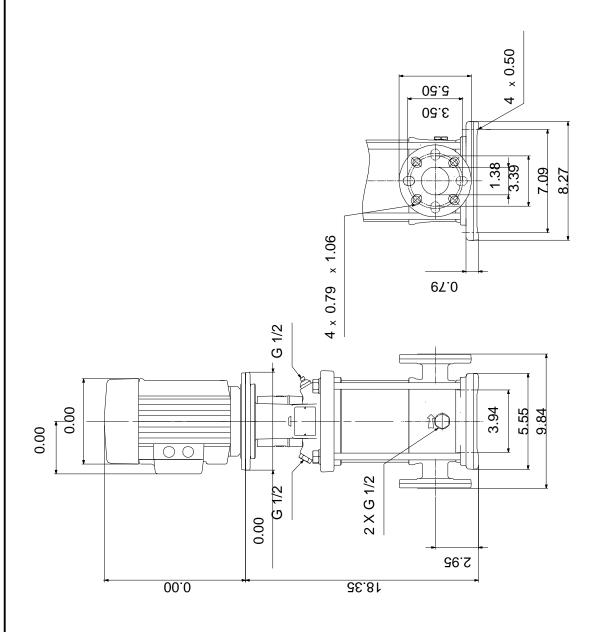
96083220 CR 3-12 60 Hz





Date: 2/20/2018

96083220 CR 3-12 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

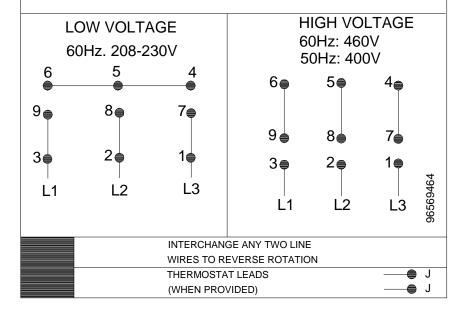
96083220 CR 3-12 60 Hz

$\bigvee_{i=1}^{N}$

WARNING

MOTOR MUST BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES BY TRAINED PERSONNEL TO PREVENT SERIOUS ELECTRICAL SHOCKS.

TO SERVICE MOTOR, DISCONNECT POWER SOURCE FROM MOTOR AND ANY ACCESSORY DEVICES AND ALLOW MOTOR TO COME TO A COMPLETE STAND STILL.



All units are [mm] unless otherwise presented.



Date: 2/20/2018

Order Data:

Product name: CR 3-12 A-FGJ-A-E-HQQE

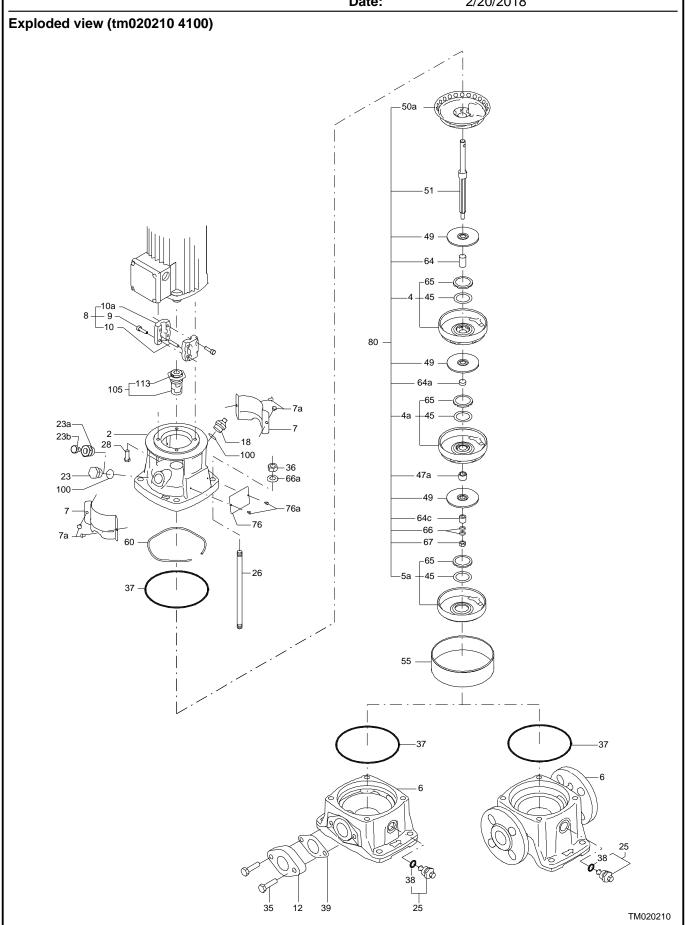
Amount: 1

Product No.: 96083220

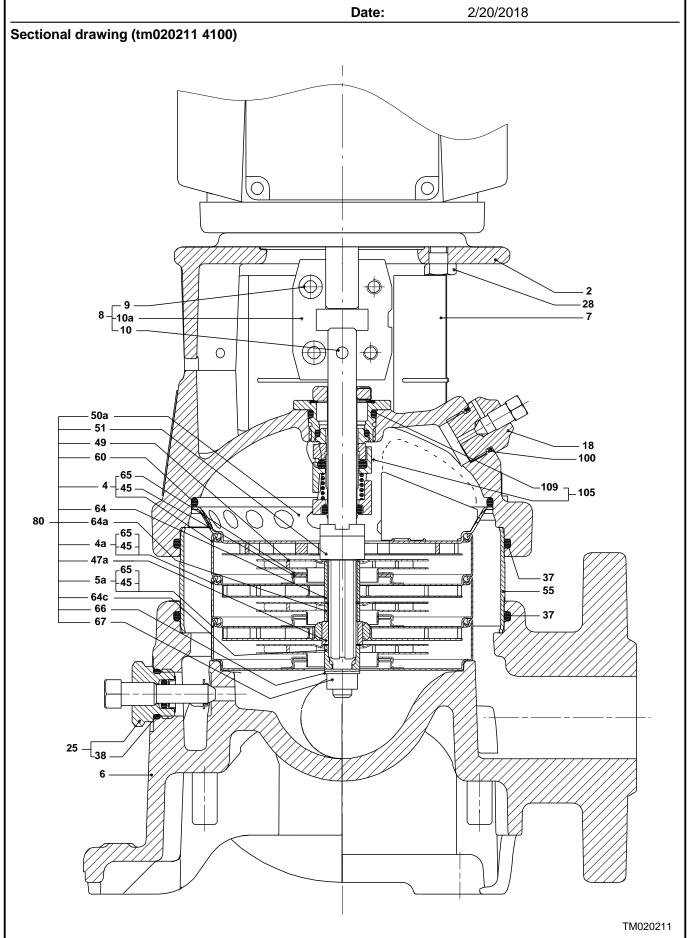
Total: Price on request



Date: 2/20/2018



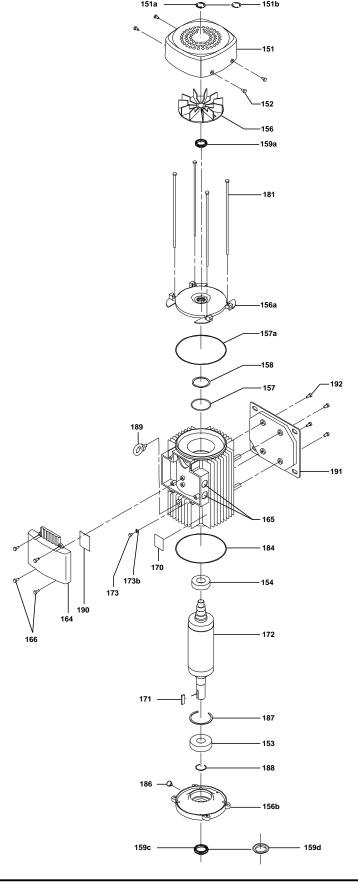






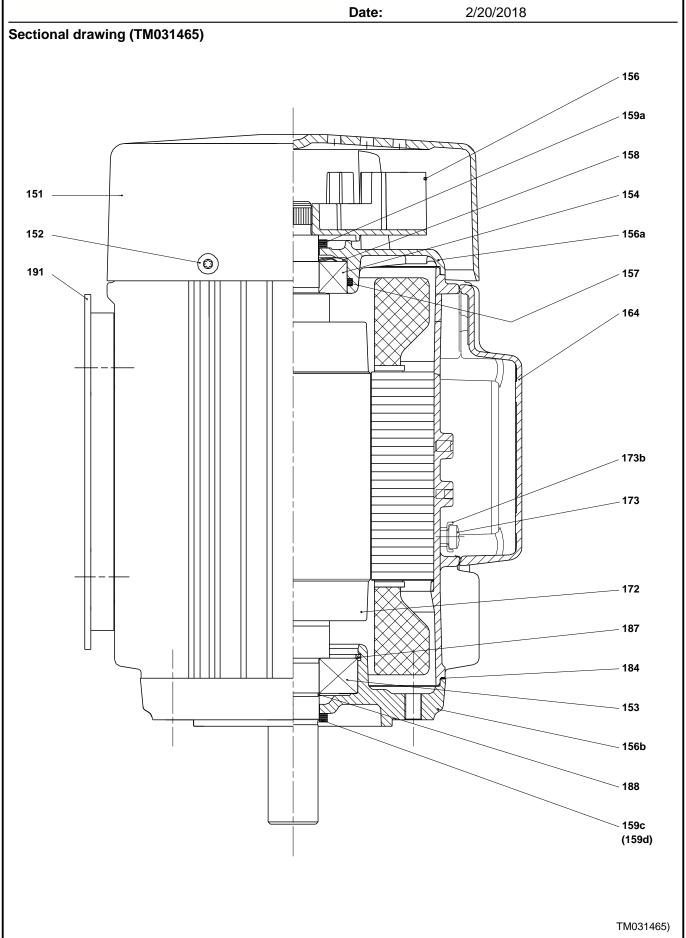
Date: 2/20/2018

Exploded view (tm030553)



TM030553)







Date: 2/20/2018

Parts list CR 3-12, Prod number 96083220 Valid from 10.1.2005 (0503)

	Position	Description	Annotation	Classification data	Part No.	Cou		nit
		Motor				1	рс	
+		Motor				1	рс	S
-		Base cpl.				1	рс	:S
	6	Base				1		
-		Sealing parts				1	рс	;S
-	25	Drain plug w/bypass valve				1		
	38	O-ring		Diameter: 16,3				
				Material type: EPDM				
				Thickness: 2,4				
	37	O-ring				2	2	
	100	O-ring		Diameter: 16,3		2	2	
				Material type: EPDM				
				Thickness: 2,4				
-	2	Pump head cpl.				1	рс	s
	2	Pump head				1		
	7	Coupling guard				2	2	
	7a	Thread cutting screw				4	1	
-	18	Air vent screw				,		
		Plug						
		Spindle						
-	25	Drain plug				1		
	23	Pipe plug						
	25	Drain plug						
	28	Hex head cap screw		Length: 25			1	
				Thread: UNC 3/8"				
	60	Formed wire spring				,		
+		Coupling cpl.				1	рс	:S
Ė	26	Staybolt		Length: 241		4	рс	
		Claybon		Thread: M12		•	PO	
	36a	Washer		Designation: DIN 125 A		4	рс	:s
				Inner diameter: 13		•	۲۰	
				Outer diameter: 24				
				Thickness: 2,5				
	55	Outer sleeve		11110K11000. 2,0		1	рс	٠,
	66a	Nut		Thread: M12		4	рс	
+	80	Chamber stack		THICAG. WITZ		1	рс	
_	105	Shaft seal		Material type: HQQE		1	рс	
-	103	O-ring		Material type. HQQL		'		.5
		O-ring						
		Seal driver, upper						
						•		
		Seal driver, lower						
		Spacer ring						
		Pipe				1		
		Plug				1		
		Plug					<u> </u>	
		Compression spring						
	100	Socket set screw		D' (00.00		1		
	102	O-ring		Diameter: 22,00				
				Material type: EPDM				
				Thickness: 2,75				
	103	Seal ring, stationary						
	105	Seal ring, rotating					<u> </u>	
	107	O-ring						



Date: 2/20/2018

Position	Description	Annotation Classification data Part No.	Count	Unit
113	Driver		1	