

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

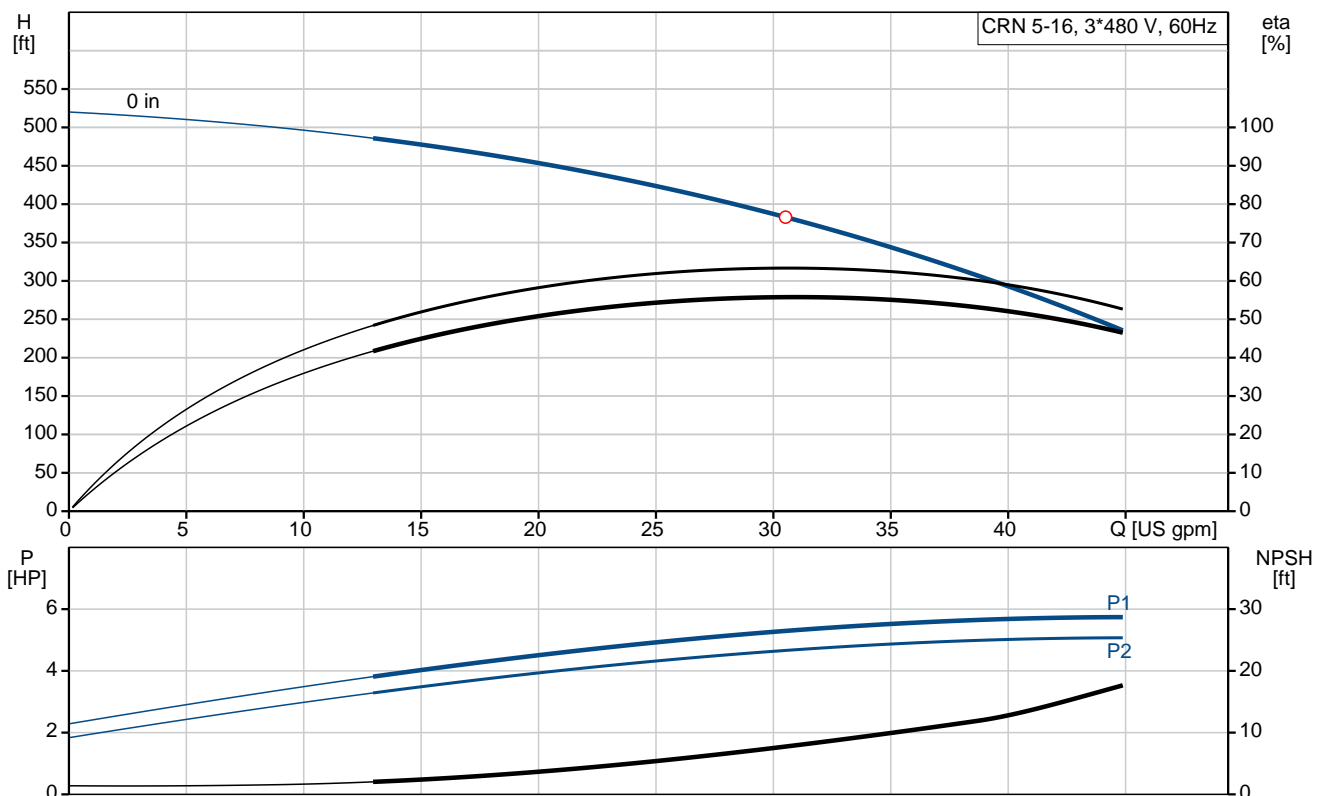


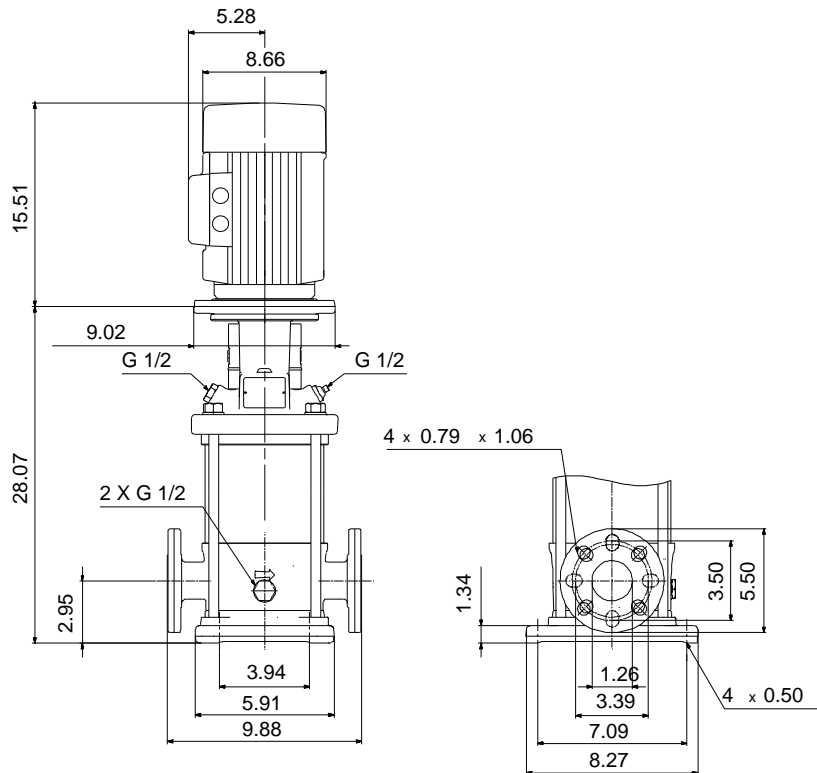
CRN 5-16

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)

Product photo could vary from the actual product

Conditions of Service	Pump Data	Motor Data
Flow: _____	Max pressure at stated temperature: 363 psi / 250 °F	Rated power - P2: 5.5 HP
Head: _____	Maximum ambient temperature: 140 °F	Rated voltage: 208-230YY/460Y V
Efficiency: _____	Approvals: CURUS, NSF61	Main frequency: 60 Hz
Liquid: Water	Shaft seal: HQQE	Enclosure class: 55 Dust/Jetting
Temperature: 68 °F	Product number: 96085039	Insulation class: F
NPSH required: ft		Motor protection: PTC
Viscosity: _____		Motor type: 112CA
Specific Gravity: 1.000		Motor_efficiency: 88.5 %





Materials:

Base: Stainless steel
EN 1.4408
AISI 316

Impeller: Stainless steel
AISI 316
EN 1.4401

Material code: G

Code for rubber: E

Tender Text



Product No.: [96085039](#)

CRN 5-16 A-FGJ-G-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, 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 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: 3461 rpm
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 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



Company name:

Created by:

Phone:

Date:

2/21/2018


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 port: 1 1/4 inch
Pressure rating: PN 25
Flange size for motor: 182TC
Flange rating inlet: 300 lb

Electrical data:

Motor standard: NEMA
Motor type: 112CA
IE Efficiency class: NEMA Premium / IE3 60Hz
Rated power - P2: 5.5 HP
Power (P2) required by pump: 5.5 HP
Main frequency: 60 Hz
Rated voltage: 3 x 208-230YY/460Y V
Service factor: 1,15
Rated current: 14,1-13,1/7,29 A
Starting current: 1000-1470 %
Cos phi - power factor: 0,89-0,86
Rated speed: 3525-3540 rpm
IE efficiency: IE3 88,5%
Motor efficiency at full load: 88.5 %
Motor efficiency at 3/4 load: 88.6 %
Motor efficiency at 1/2 load: 85.2 %
Number of poles: 2
Enclosure class (IEC 34-5): 55 Dust/Jetting
Insulation class (IEC 85): F

Others:

Net weight: 144 lb
Gross weight: 162 lb
Shipping volume: 10.1 ft³

Position	Count	Description
	1	<p>CRN 5-16 A-FGJ-G-E-HQQE</p>  <p>Product No.: 96085039 Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation.</p> <p>The pump has the following characteristics:</p> <ul style="list-style-type: none"> - 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. <p>The motor is a 3-phase AC motor.</p> <p>Controls: Frequency converter: NONE</p> <p>Liquid: Pumped liquid: Water Liquid temperature during operation: 68 °F Density: 62.29 lb/ft³</p> <p>Technical: Speed for pump data: 3461 rpm Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals on nameplate: CURUS,NSF61 Curve tolerance: ISO9906:2012 3B</p> <p>Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4401 AISI 316 Bearing material: SIC</p> <p>Installation: Maximum ambient temperature: 140 °F Max pressure at stated temperature: 363 psi / 250 °F 363 psi / -4 °F</p> <p>Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32</p>



Company name:

Created by:

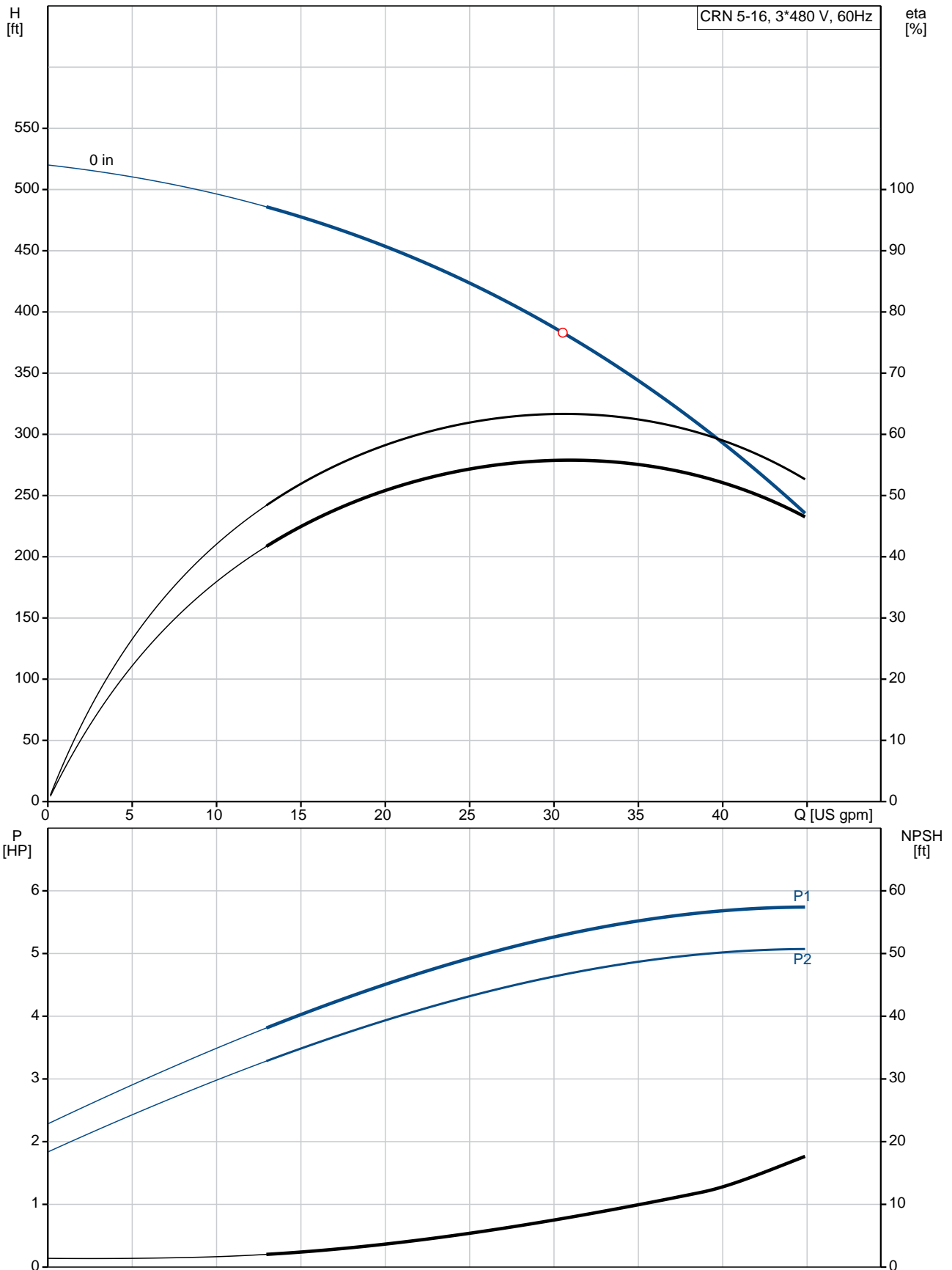
Phone:

Date:

2/21/2018

Position	Count	Description
		Size of suction port: 1 1/4 inch Size of outlet connection: DN 25/32 Size of outlet port: 1 1/4 inch Pressure rating: PN 25 Flange size for motor: 182TC Flange rating inlet: 300 lb Electrical data: Motor standard: NEMA Motor type: 112CA IE Efficiency class: NEMA Premium / IE3 60Hz Rated power - P2: 5.5 HP Power (P2) required by pump: 5.5 HP Main frequency: 60 Hz Rated voltage: 3 x 208-230YY/460Y V Service factor: 1,15 Rated current: 14,1-13,1/7,29 A Starting current: 1000-1470 % Cos phi - power factor: 0,89-0,86 Rated speed: 3525-3540 rpm IE efficiency: IE3 88,5% Motor efficiency at full load: 88.5 % Motor efficiency at 3/4 load: 88.6 % Motor efficiency at 1/2 load: 85.2 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Others: Net weight: 144 lb Gross weight: 162 lb Shipping volume: 10.1 ft³

96085039 CRN 5-16 60 Hz



Description	Value
General information:	
Product name:	CRN 5-16 A-FGJ-G-E-HQQE
Product No.:	96085039
EAN:	5700395198775
Technical:	
Speed for pump data:	3461 rpm
Stages:	16
Impellers:	16
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:	G
Code for rubber:	E
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
 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 port: 1 1/4 inch
 Pressure rating: PN 25
 Flange size for motor: 182TC
 Flange rating inlet: 300 lb

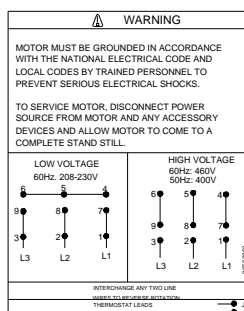
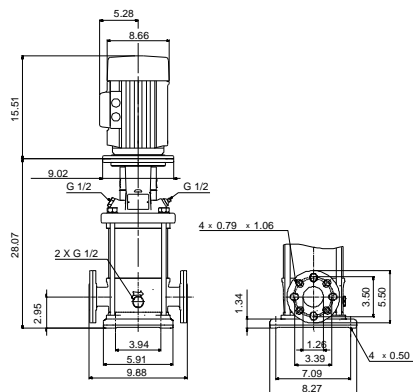
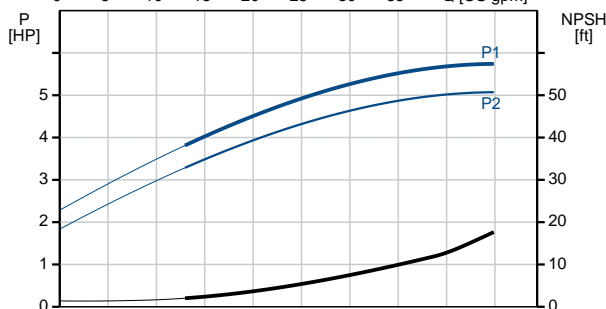
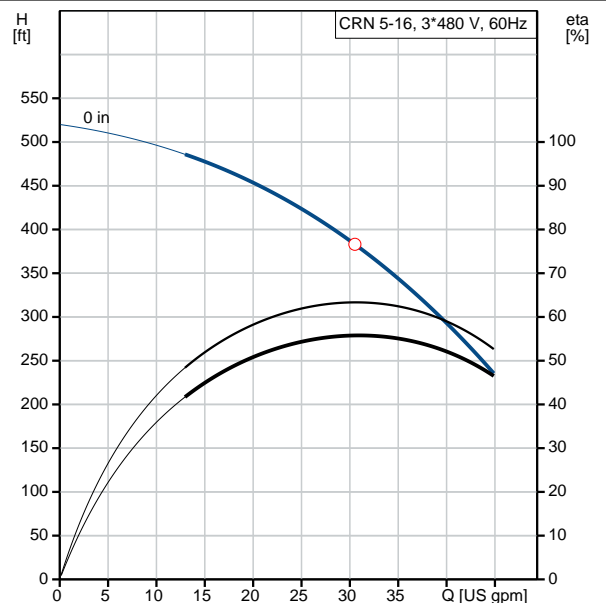
Liquid:

Pumped liquid: Water
 Liquid temperature during operation: 68 °F

Density: 62.29 lb/ft³

Electrical data:

Motor standard: NEMA
 Motor type: 112CA
 IE Efficiency class: NEMA Premium / IE3 60Hz
 Rated power - P2: 5.5 HP
 Power (P2) required by pump: 5.5 HP
 Main frequency: 60 Hz
 Rated voltage: 3 x 208-230YY/460Y V





Company name:

Created by:

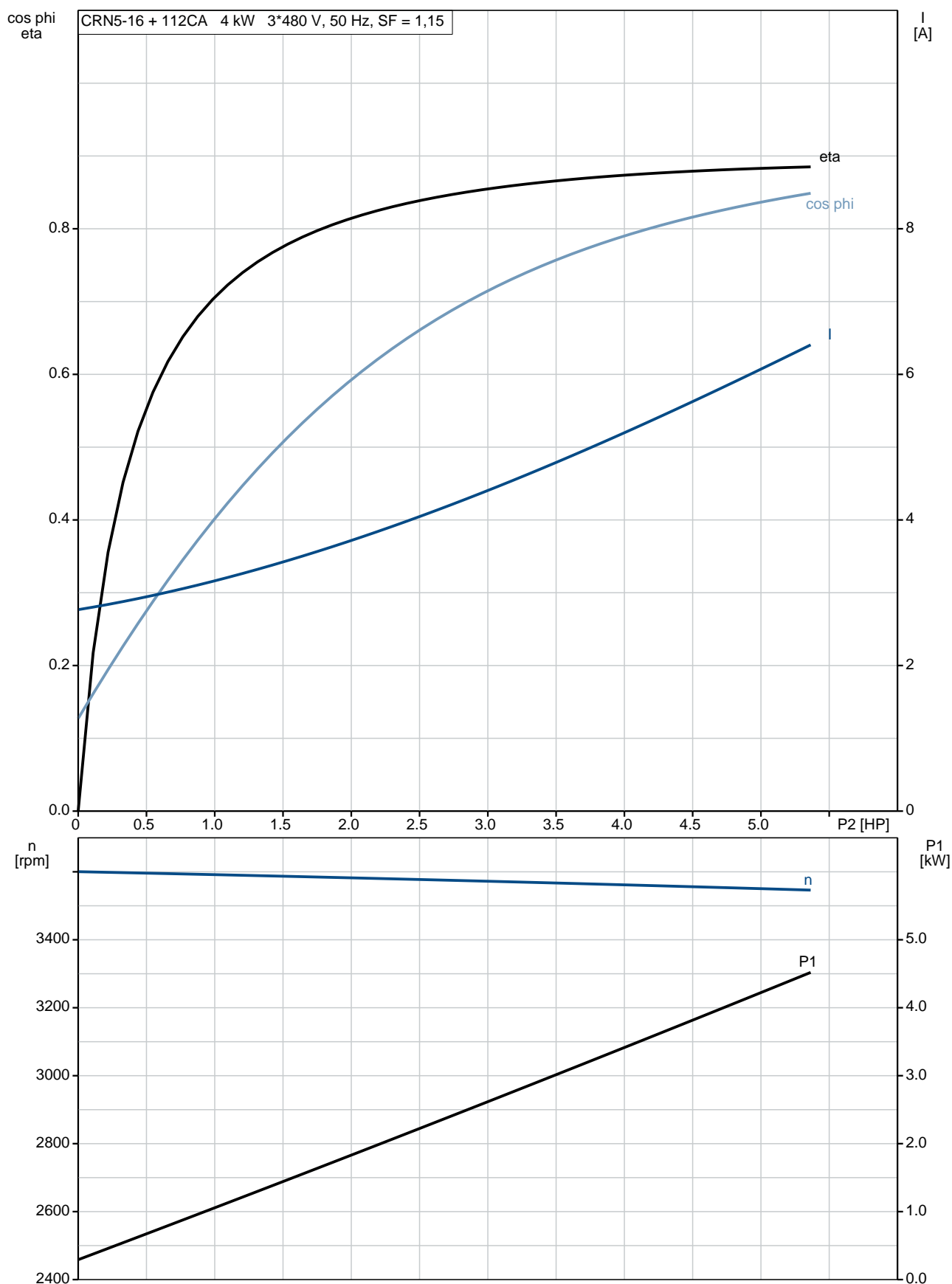
Phone:

Date:

2/21/2018

Description	Value
Service factor:	1,15
Rated current:	14,1-13,1/7,29 A
Starting current:	1000-1470 %
Load current:	16,2-15,0/8,40 A
Cos phi - power factor:	0,89-0,86
Rated speed:	3525-3540 rpm
IE efficiency:	IE3 88,5%
Motor efficiency at full load:	88.5 %
Motor efficiency at 3/4 load:	88.6 %
Motor efficiency at 1/2 load:	85.2 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protection:	PTC
Motor Number:	85904389
Controls:	
Frequency converter:	NONE
Others:	
Net weight:	144 lb
Gross weight:	162 lb
Shipping volume:	10.1 ft ³

96085039 CRN 5-16 60 Hz



96085039 CRN 5-16 60 Hz

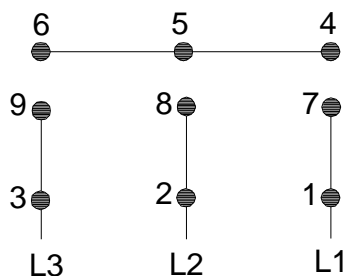


WARNING

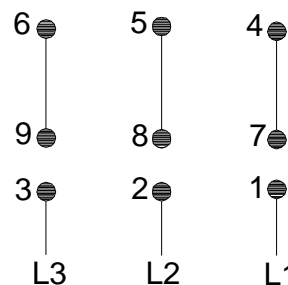
MOTOR MUST BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES BY TRAINED PERSONNEL TO PREVENT SERIOUS ELECTRICAL SHOCKS.

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

LOW VOLTAGE 60Hz. 208-230V



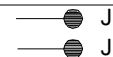
HIGH VOLTAGE 60Hz: 460V 50Hz: 400V



96553852

INTERCHANGE ANY TWO LINE
WIRES TO REVERSE ROTATION

THERMOSTAT LEADS
(WHEN PROVIDED)





Company name:

Created by:

Phone:

Date:

2/21/2018

Order Data:

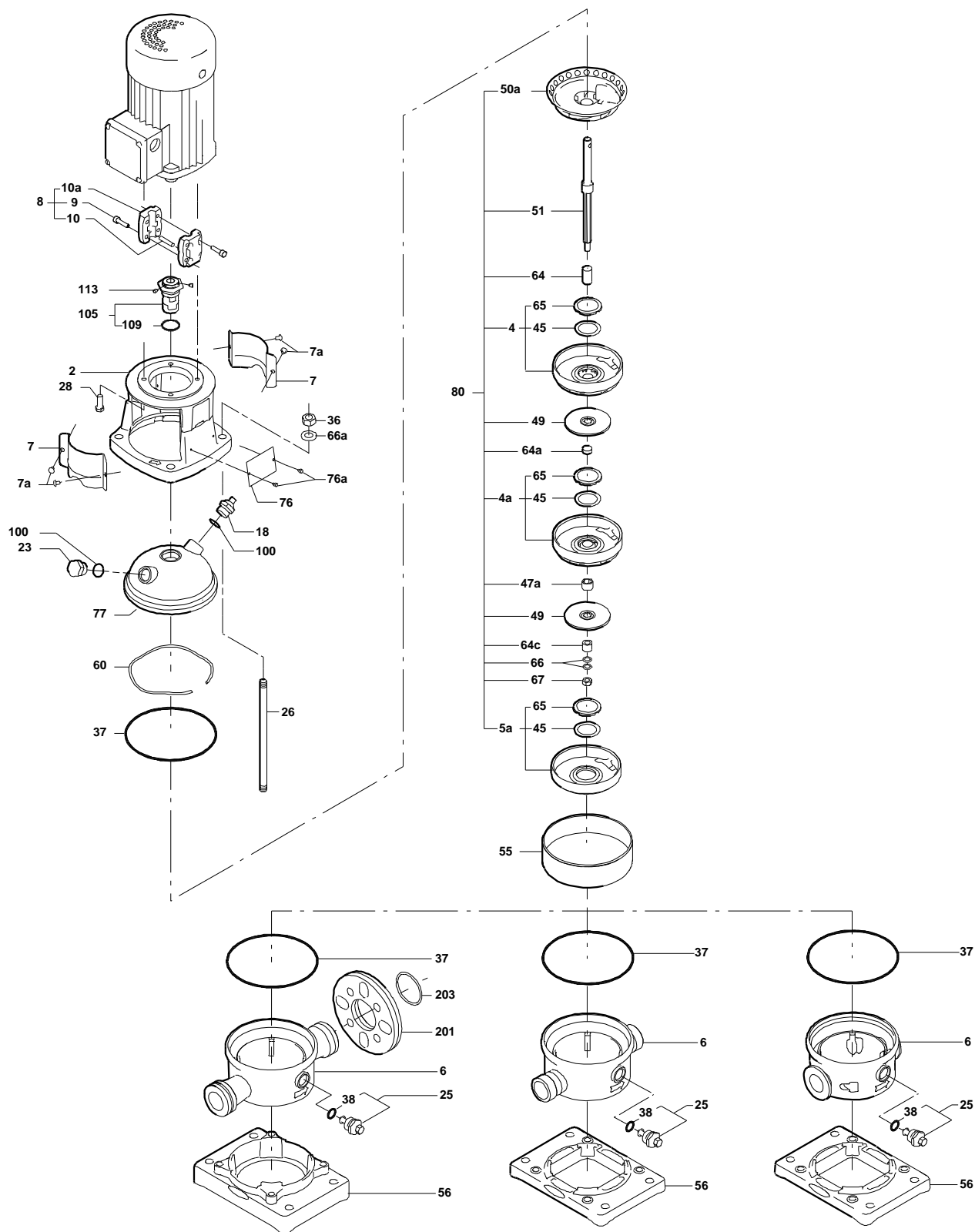
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Amount: 1

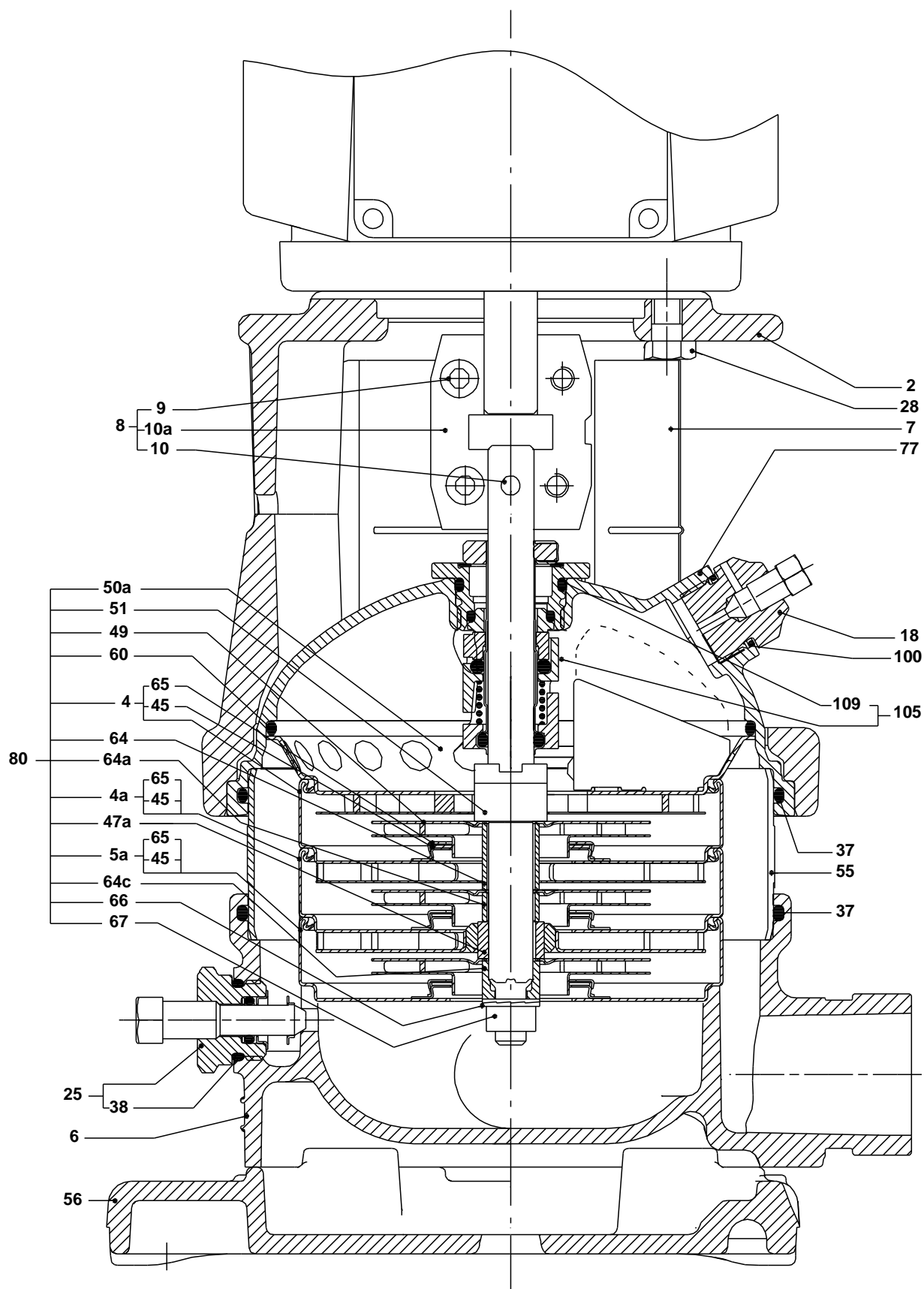
Product No.: 96085039

Total: Price on request

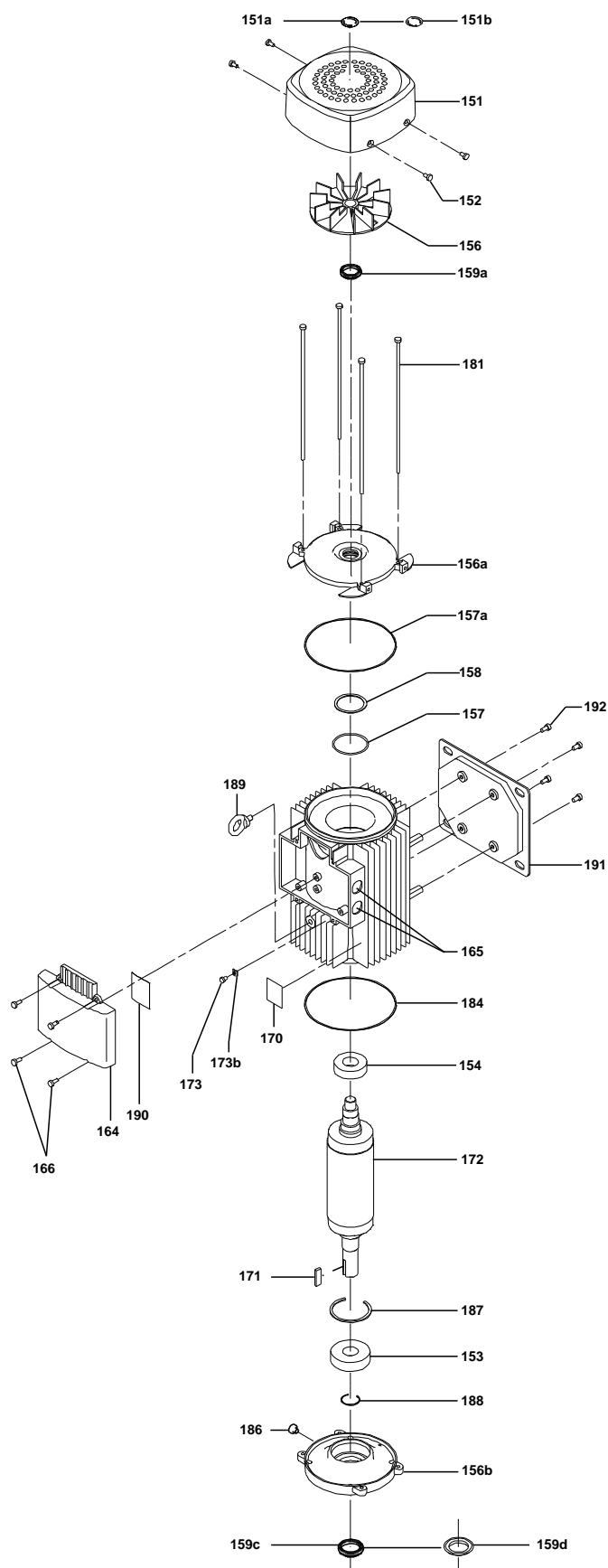
Exploded view (TM02 0212 4100)



Sectional drawing (TM02 0215 4100)

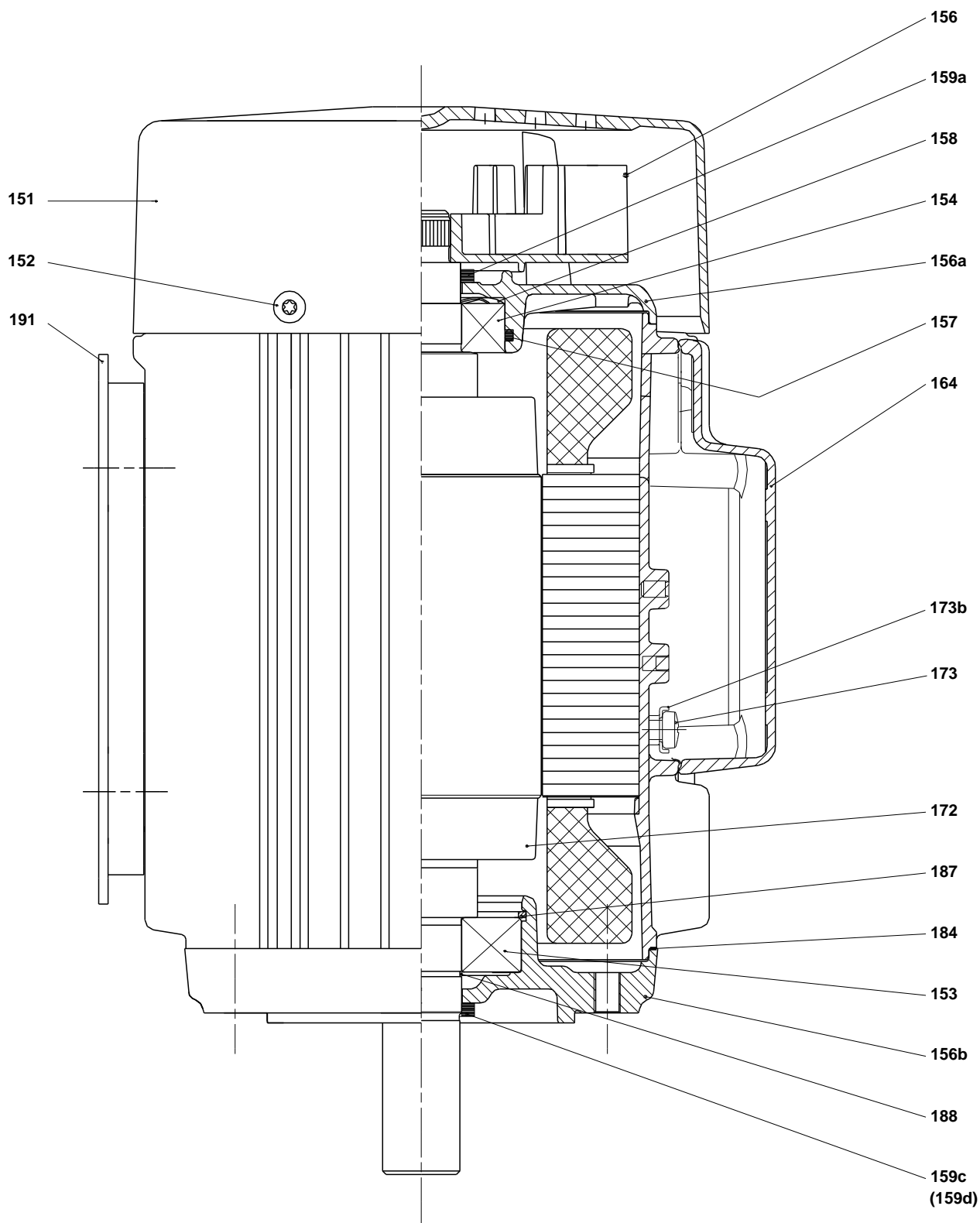


Exploded view (tm030553)



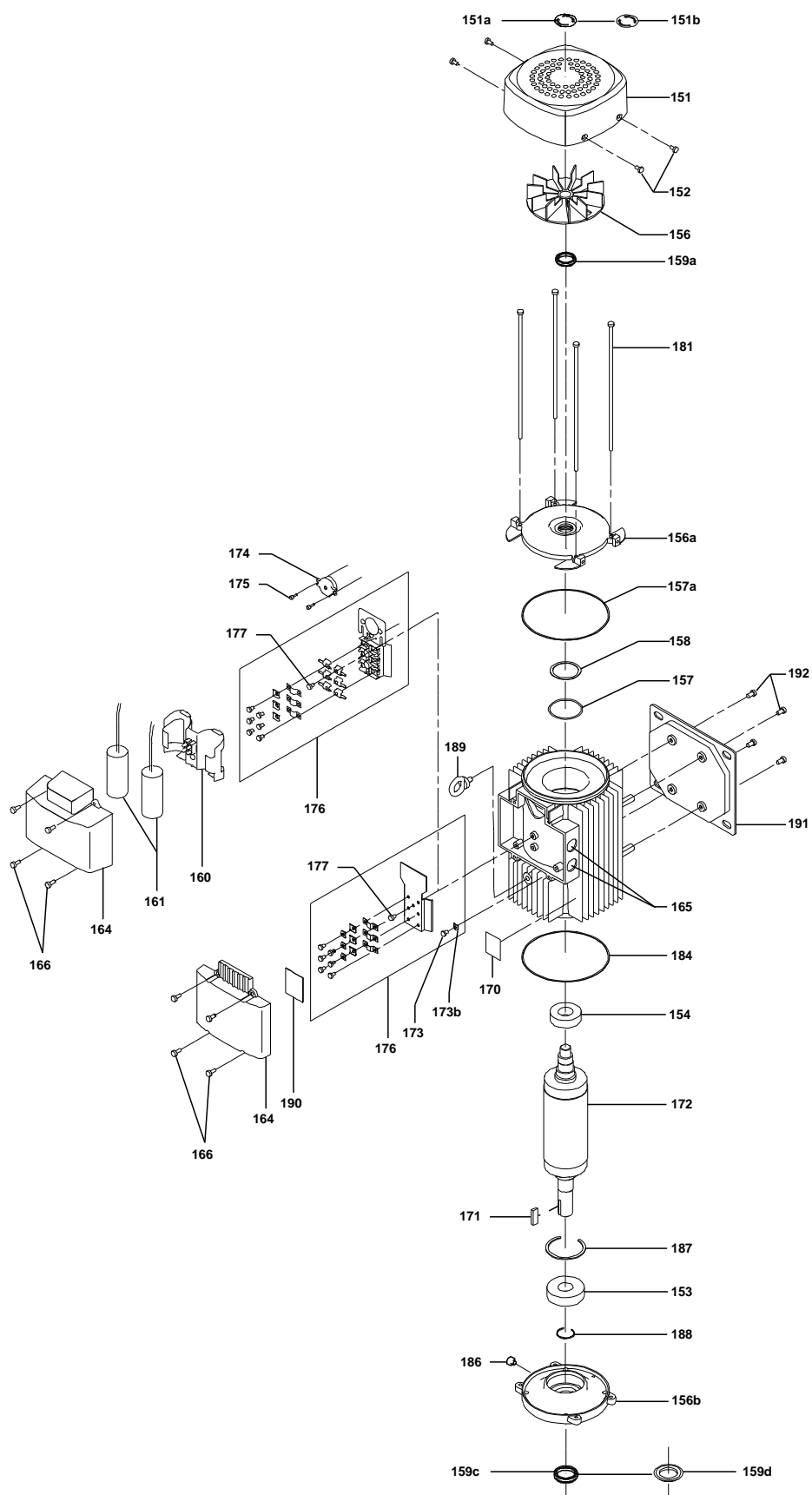
TM030553)

Sectional drawing (TM031465)

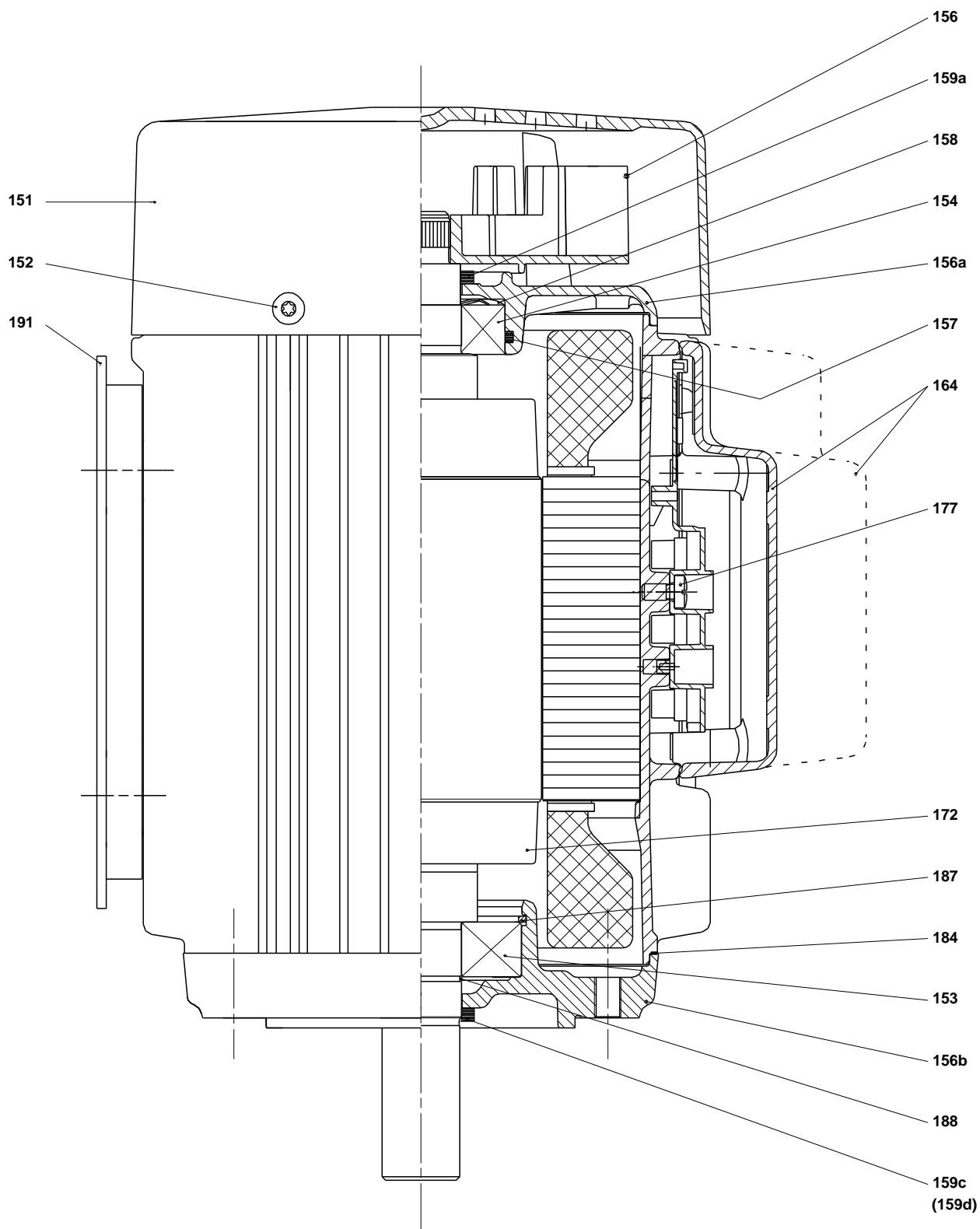


TM031465)

Exploded view (tm029184 0505)



Sectional drawing (tm029178 2004)



Parts list CRN 5-16, Prod number 96085039

Valid from 1.7.2011 (1127)

Position	Description	Annotation	Classification data	Part No.	Count	Unit
+	Motor				1	pcs
+	Motor				1	pcs
-	Base cpl.				1	pcs
6	Base				1	
56	Base plate				1	
201.a	Flange				2	
203	Lock ring				2	
-	Sealing parts				1	pcs
- 25	Drain plug w/bypass valve				1	
38	O-ring		Diameter: 16,3			
			Material type: EPDM			
			Thickness: 2,4			
37	O-ring				2	
100	O-ring		Diameter: 16,3		2	
			Material type: EPDM			
			Thickness: 2,4			
- 2	Pump head cpl.				1	pcs
2	Motor stool				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					
28	Hex head cap screw		Length: 25		4	
			Thread: UNC 1/2"			
60	Formed wire spring				1	
77	Pump cover				1	
- 8	Coupling cpl.				1	pcs
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length: 25			
			Thread: M8			
10	Shaft pin		Diameter: 5		1	
			Length: 26			
10a	Coupling half				2	
26	Staybolt		Length: 529		4	pcs
			Thread: M12			
36	Nut		Thread: M12		4	pcs
55	Outer sleeve				1	pcs
66a	Washer		Designation: DIN 125 A2		4	pcs
			Inner diameter: 13			
			Outer diameter: 24			
			Thickness: 2,5			
- 80	Chamber stack				1	pcs
	Spacing pipe		Length: 2.00		1	
-	Chamber w. bearing cpl.				3	
	Chamber					
45	Neck ring					
65	Neck ring retainer					
- 4	Chamber cpl.				12	
	Chamber					

Position	Description	Annotation	Classification data	Part No.	Count	Unit
45	Neck ring					
65	Neck ring retainer					
- 5a	Chamber cpl.				1	
	Chamber					
45	Neck ring					
65	Neck ring retainer					
36	Lock nut		Thread: M8		1	
47a	Bearing ring, rotating				3	
+ 49	Impeller cpl.				16	
- 50a	Guide vane				1	
	Guide vane					
	Plate					
50b	Top plate					
51	Shaft, spline, cpl.				1	
64a	Spacing pipe		Inner diameter: 12,85		1	
			Outer diameter: 15,85			
			Length: 4,50			
64a	Spacing pipe		Length: 13.00		3	
64c	Clamp, splined		Inner diameter: 8,5		1	
			Outer diameter: 15			
66	Wedge lock washer				1	
69	Spacing pipe		Length: 26.0		12	
- 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	