

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

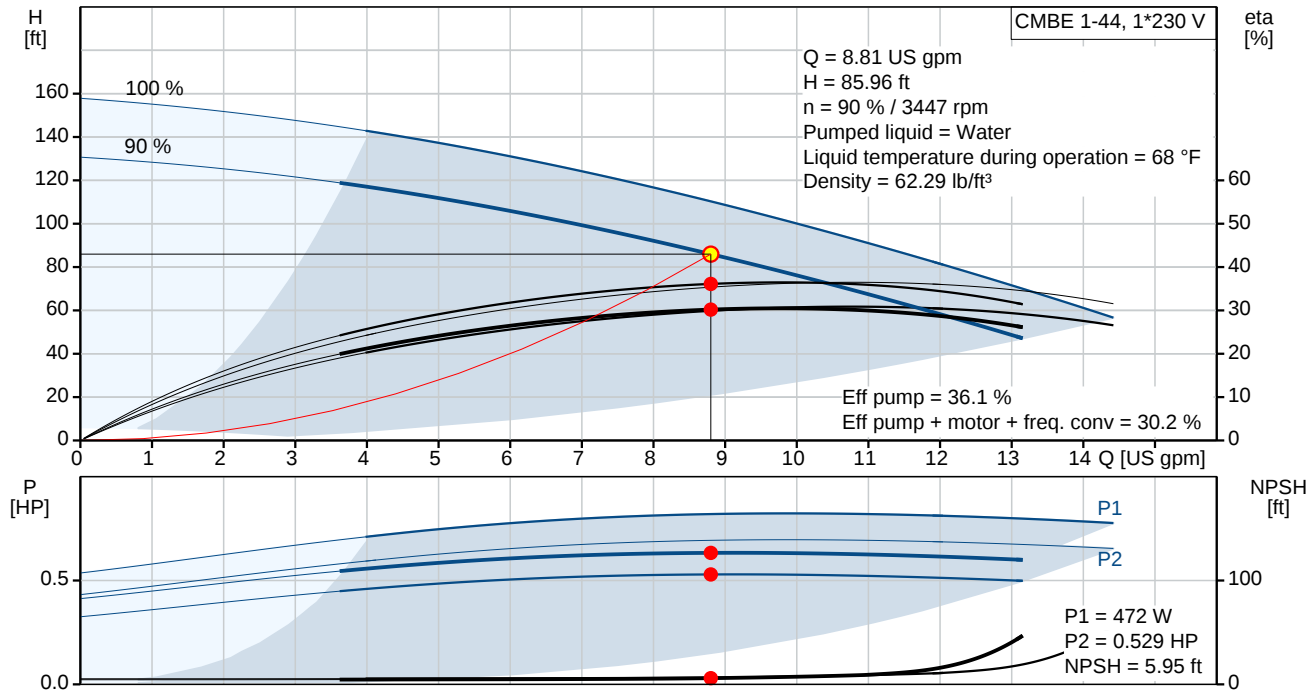
CMBE 1-44

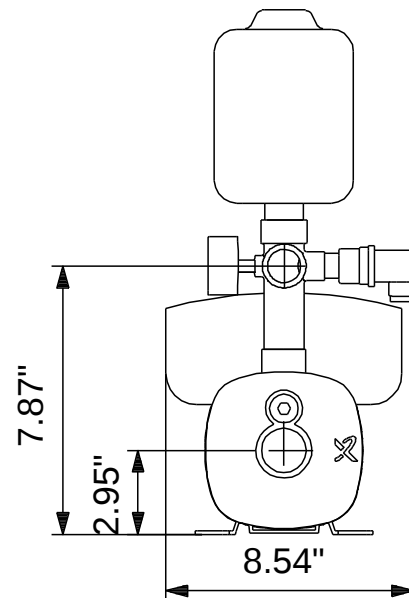
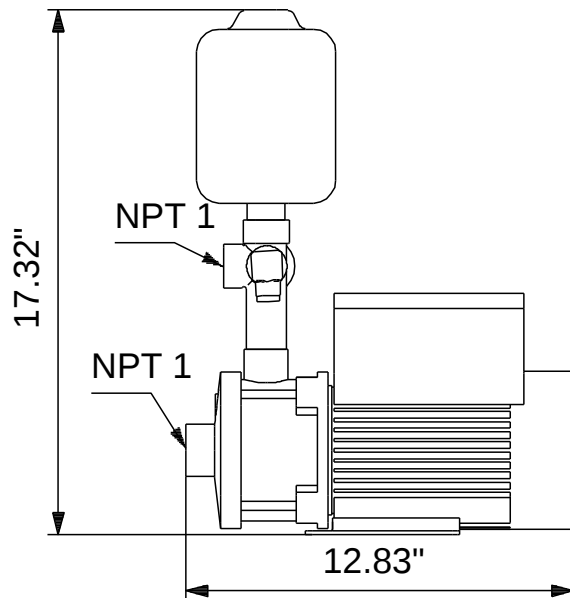


Compact booster set for water supply in light commercial applications. Pump materials in contact with the liquid are in stainless steel AISI 304 (EN 1.4301)

Product photo could vary from the actual product

Conditions of Service	Pump Data	Motor Data
Flow: 8.81 US gpm	Liquid temperature range: 32 .. 140 °F	Rated power - P2: 0.75 HP
Head: 85.96 ft	Maximum ambient temperature: 122 °F	Rated voltage: 200-240 V
Efficiency: 30.2 %	Shaft seal: AQQE	Main frequency: 50 Hz
Liquid: Water	Flange standard: INTERNAL NPT THREAD	Enclosure class: IP55
Temperature: 68 °F	Product number: 98548109	Insulation class: F
NPSH required: 5.95 ft		
Viscosity: _____		
Specific Gravity: 1.000		





Materials:

Pump housing: Stainless steel
DIN W.-Nr. 1.4301
AISI 304

Impeller: Stainless steel
DIN W.-Nr. 1.4301
AISI 304

Rubber: EPDM

Tender Text



Product photo could vary from the actual product

Product No.: [98548109](#)

CMBE 1-44 AQQE

The Grundfos CME Booster is a compact booster system for water supply in domestic applications. The integrated speed controller enables the CME Booster to keep constant pressure in the pipe system. A pressure sensor monitoring changes in the water consumption will signal to the speed controller to change the motor speed to adapt performance to the new state.

The CME Booster is very easy to install. When the pipework has been installed, it is all a matter of plugging the unit into a socket, and the system is operational.

The CME Booster consists of:

- CME pump with integrated frequency converter
- 5-way valve
- expansion tank
- pressure gauge
- manometer

Features

- Constant pressure, integrated speed control
- compact
- robust, stainless steel
- easy installation
- dry run protection

Thermal protection

CME Booster pumps require no external motor protection.

The MGE motor incorporates thermal protection against slow overloading and blocking (IEC 34.11: TP 211).

Liquid:

Pumped liquid:	Water
Liquid temperature range:	32 .. 140 °F
Liquid temperature during operation:	68 °F
Density:	62.29 lb/ft ³

Technical:

Speed for pump data: 3776 rpm
Actual calculated flow: 8.81 US gpm
Resulting head of the pump: 85.96 ft
Primary shaft seal: AQQE
Approvals and markings: CE,CULUS
Curve tolerance: ISO9906:2012 3B
Start pressure: Integrated Frequency converter

Materials:

Pump housing: Stainless steel
DIN W.-Nr. 1.4301
AISI 304
Impeller: Stainless steel
DIN W.-Nr. 1.4301
AISI 304
Rubber: EPDM

Installation:

Maximum ambient temperature: 122 °F
Flange standard: INTERNAL NPT THREAD
Pump inlet: NPT 1
Pump outlet: NPT 1

Electrical data:

Rated power - P2: 0.75 HP
Main frequency: 50 Hz
Rated voltage: 1 x 200-240 V
Maximum current consumption: 3,45-2,90 A
Rated speed: 360-4000 rpm
Enclosure class (IEC 34-5): IP55
Insulation class (IEC 85): F
Type of cable plug: NONE
Mains cable: NO CABLE m

Tank:

Tank volume: 0.528 gal

Others:

Net weight: 34.8 lb
Gross weight: 56.3 lb

Position	Count	Description
	1	CMBE 1-44 AQQE  Product photo could vary from the actual product Product No.: 98548109 The Grundfos CME Booster is a compact booster system for water supply in domestic applications. The integrated speed controller enables the CME Booster to keep constant pressure in the pipe system. A pressure sensor monitoring changes in the water consumption will signal to the speed controller to change the motor speed to adapt performance to the new state. The CME Booster is very easy to install. When the pipework has been installed, it is all a matter of plugging the unit into a socket, and the system is operational. The CME Booster consists of: • CME pump with integrated frequency converter • 5-way valve • expansion tank • pressure gauge • manometer Features • Constant pressure, integrated speed control • compact • robust, stainless steel • easy installation • dry run protection Thermal protection CME Booster pumps require no external motor protection. The MGE motor incorporates thermal protection against slow overloading and blocking (IEC 34.11: TP 211). Liquid: Pumped liquid: Water Liquid temperature range: 32 .. 140 °F Liquid temperature during operation: 68 °F Density: 62.29 lb/ft³ Technical:



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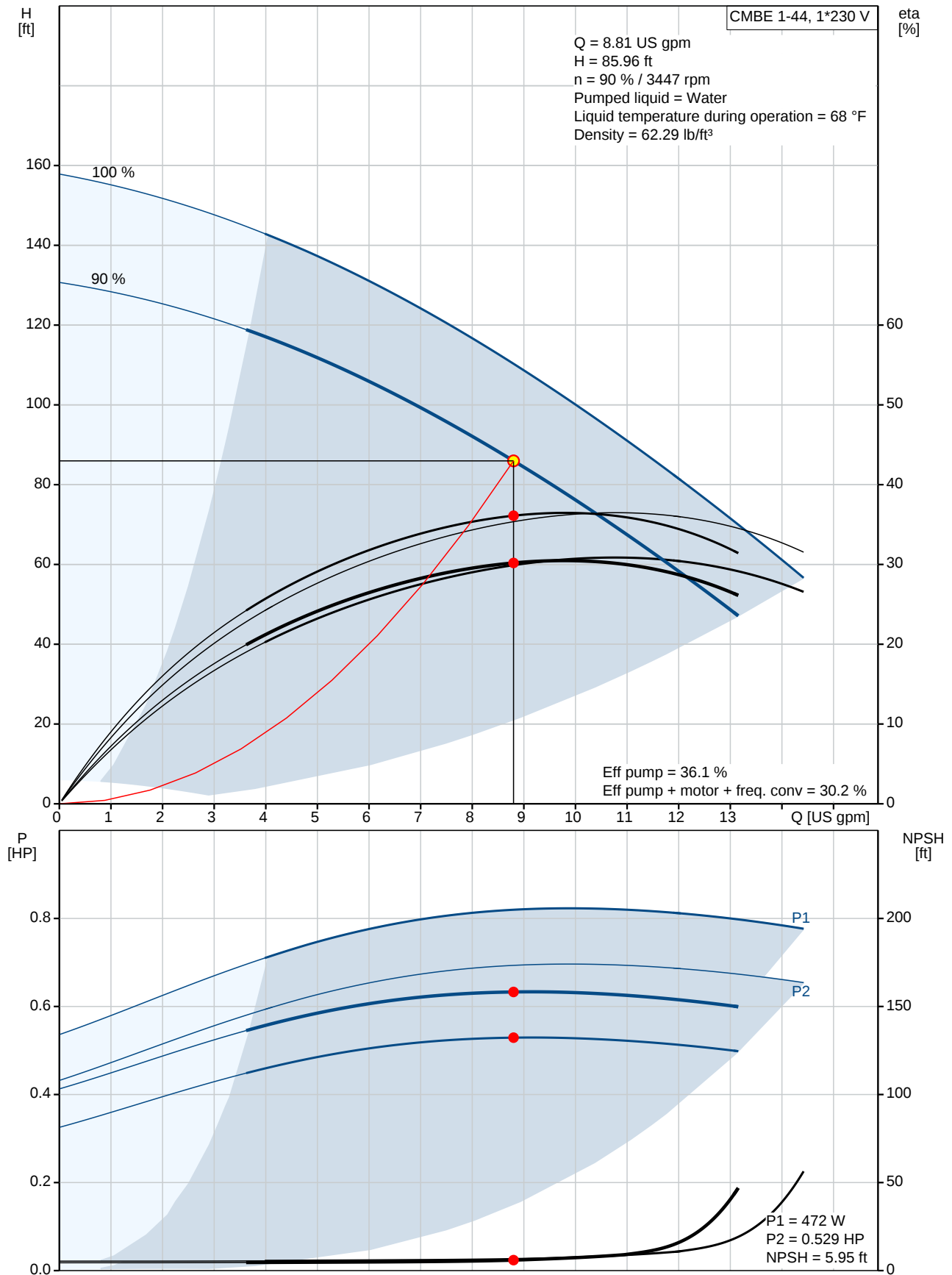
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Date:

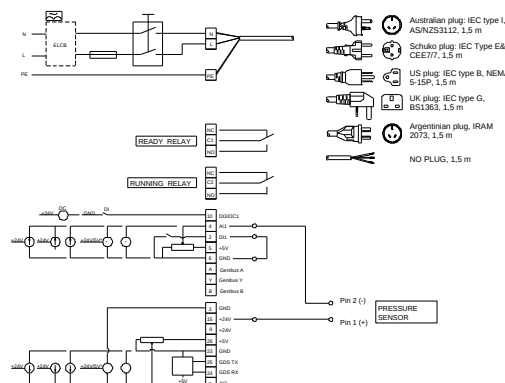
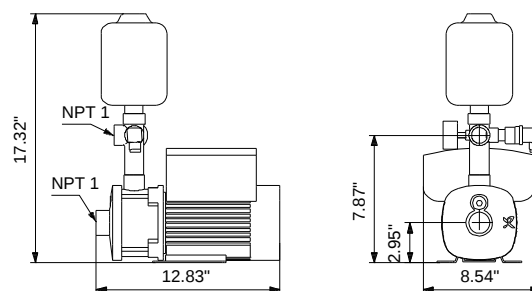
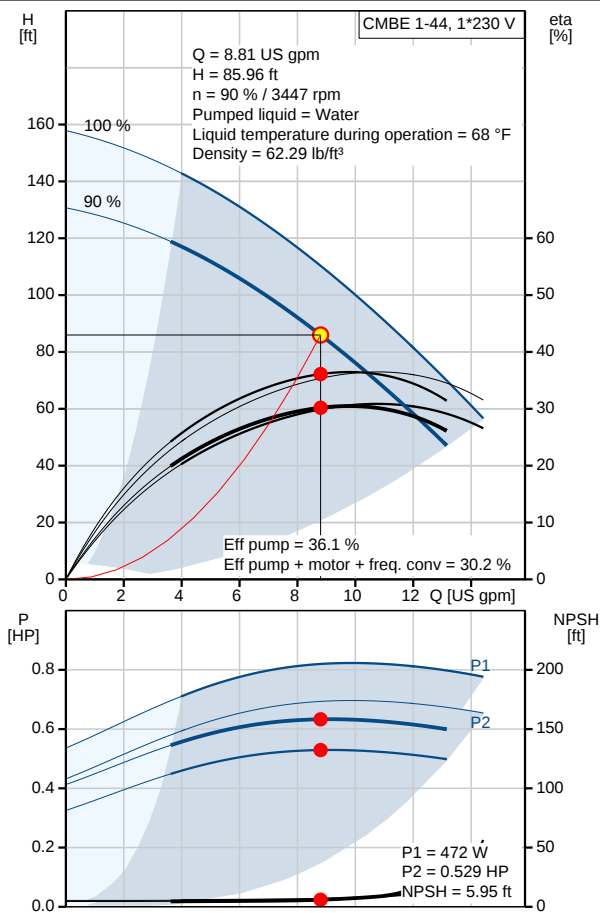
2/20/2018

Position	Count	Description
		Speed for pump data: 3776 rpm Actual calculated flow: 8.81 US gpm Resulting head of the pump: 85.96 ft Primary shaft seal: AQQE Approvals and markings: CE,CULUS Curve tolerance: ISO9906:2012 3B Start pressure: Integrated Frequency converter Materials: Pump housing: Stainless steel DIN W.-Nr. 1.4301 AISI 304 Impeller: Stainless steel DIN W.-Nr. 1.4301 AISI 304 Rubber: EPDM Installation: Maximum ambient temperature: 122 °F Flange standard: INTERNAL NPT THREAD Pump inlet: NPT 1 Pump outlet: NPT 1 Electrical data: Rated power - P2: 0.75 HP Main frequency: 50 Hz Rated voltage: 1 x 200-240 V Maximum current consumption: 3,45-2,90 A Rated speed: 360-4000 rpm Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Type of cable plug: NONE Mains cable: NO CABLE m Tank: Tank volume: 0.528 gal Others: Net weight: 34.8 lb Gross weight: 56.3 lb

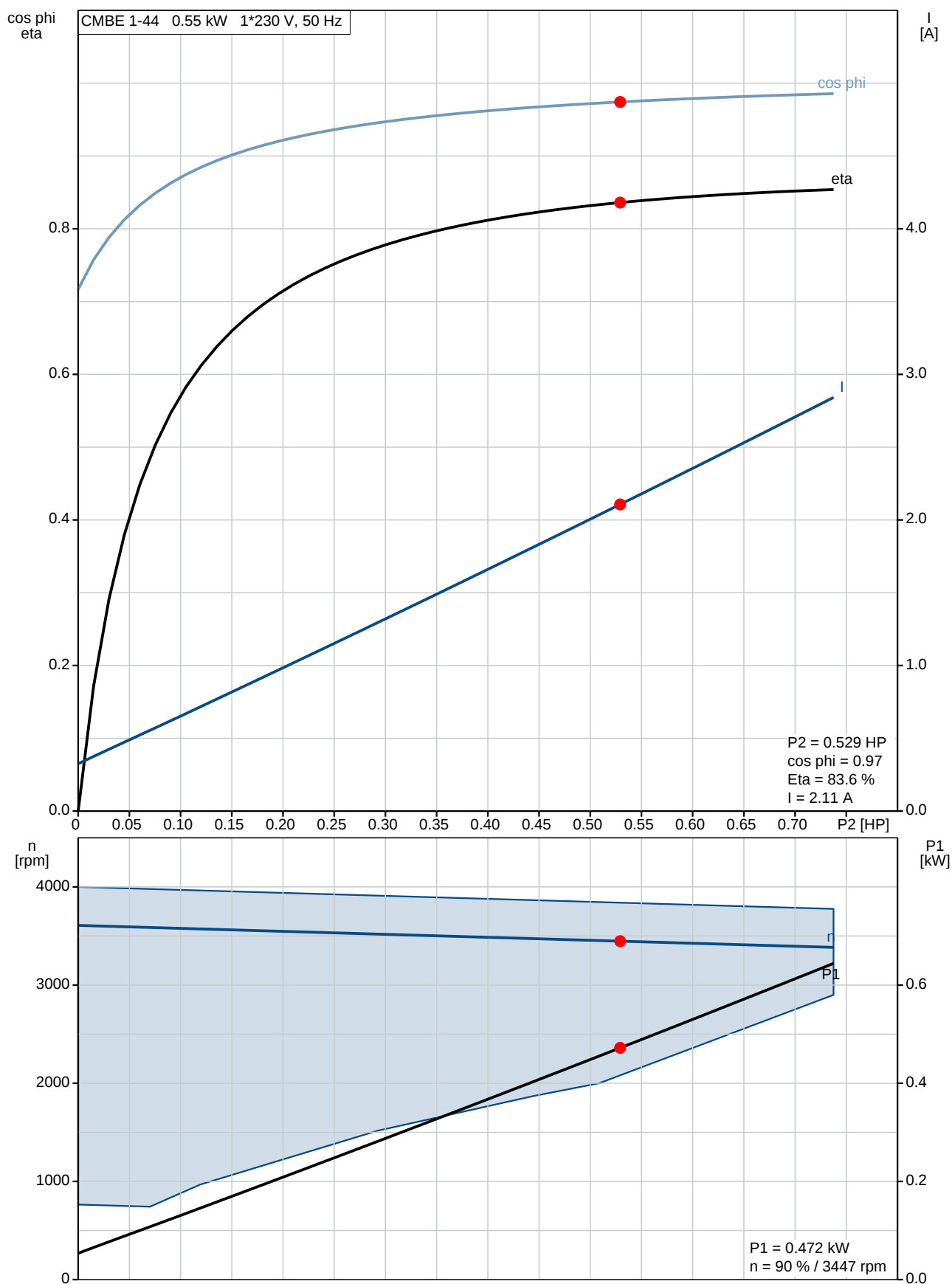
98548109 CMBE 1-44 50 Hz



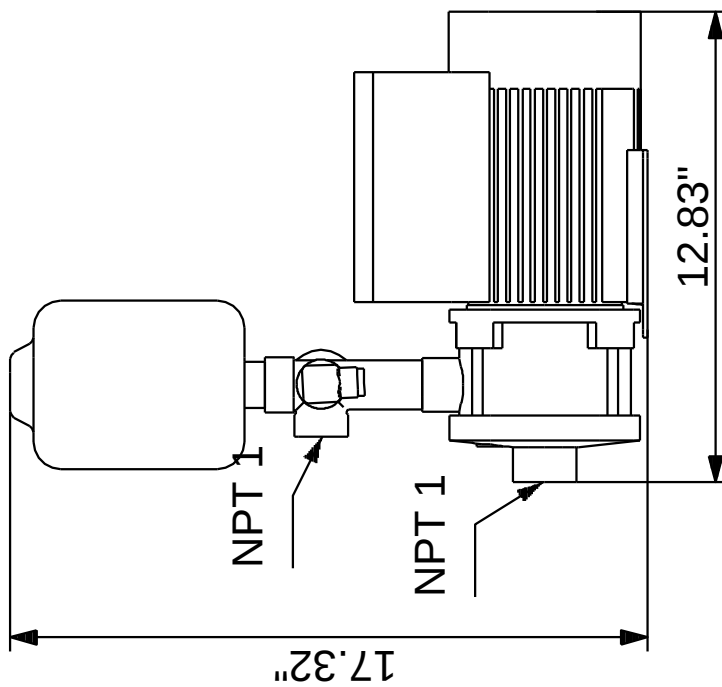
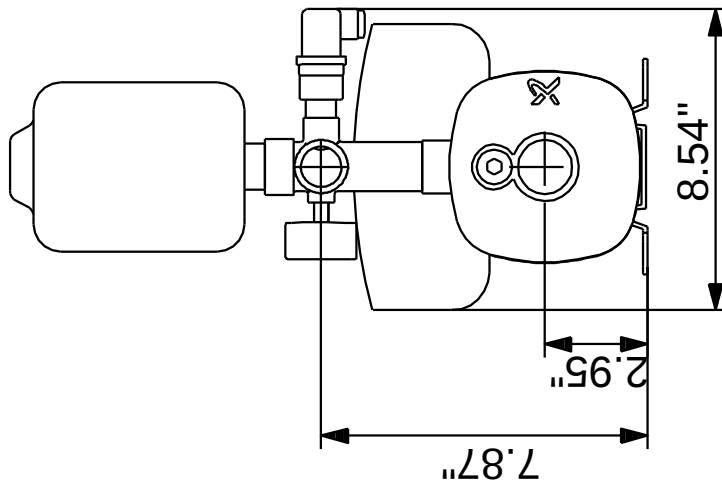
Description	Value
General information:	
Product name:	CMBE 1-44 AQQE
Product No.:	98548109
EAN:	5711496977466
Technical:	
Speed for pump data:	3776 rpm
Actual calculated flow:	8.81 US gpm
Resulting head of the pump:	85.96 ft
Impellers:	3
Primary shaft seal:	AQQE
Approvals and markings:	CE,CULUS
Curve tolerance:	ISO9906:2012 3B
Model:	A
Start pressure:	Integrated Frequency converter
Materials:	
Pump housing:	Stainless steel
	DIN W.-Nr. 1.4301
	AISI 304
Impeller:	Stainless steel
	DIN W.-Nr. 1.4301
	AISI 304
Rubber:	EPDM
Installation:	
Maximum ambient temperature:	122 °F
Flange standard:	INTERNAL NPT THREAD
Pump inlet:	NPT 1
Pump outlet:	NPT 1
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	32 .. 140 °F
Liquid temperature during operation:	68 °F
Density:	62.29 lb/ft³
Electrical data:	
Rated power - P2:	0.75 HP
Main frequency:	50 Hz
Rated voltage:	1 x 200-240 V
Maximum current consumption:	3,45-2,90 A
p max system:	145 psi
Rated speed:	360-4000 rpm
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Type of cable plug:	NONE
Mains cable:	NO CABLE m
Tank:	
Tank volume:	0.528 gal
Others:	
Net weight:	34.8 lb
Gross weight:	56.3 lb
Config. file no:	95139603



98548109 CMBE 1-44 50 Hz

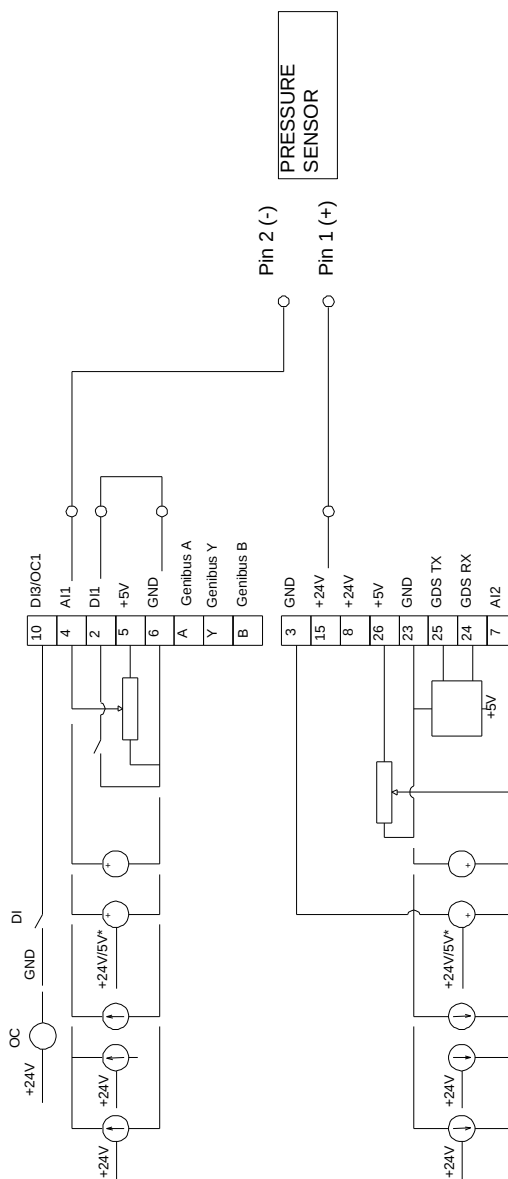
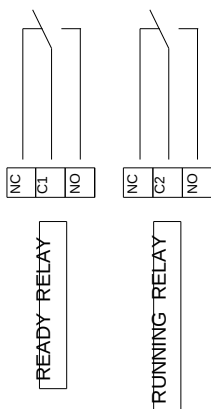
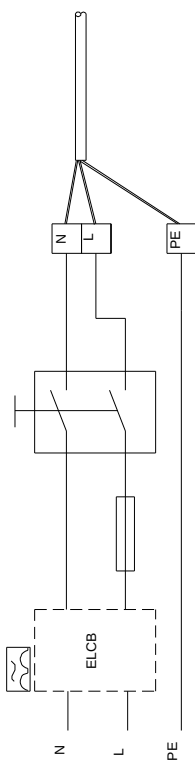
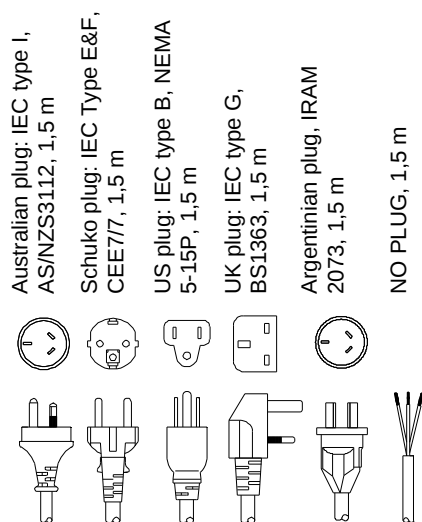


98548109 CMBE 1-44 50 Hz



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

98548109 CMBE 1-44 50 Hz





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Order Data:

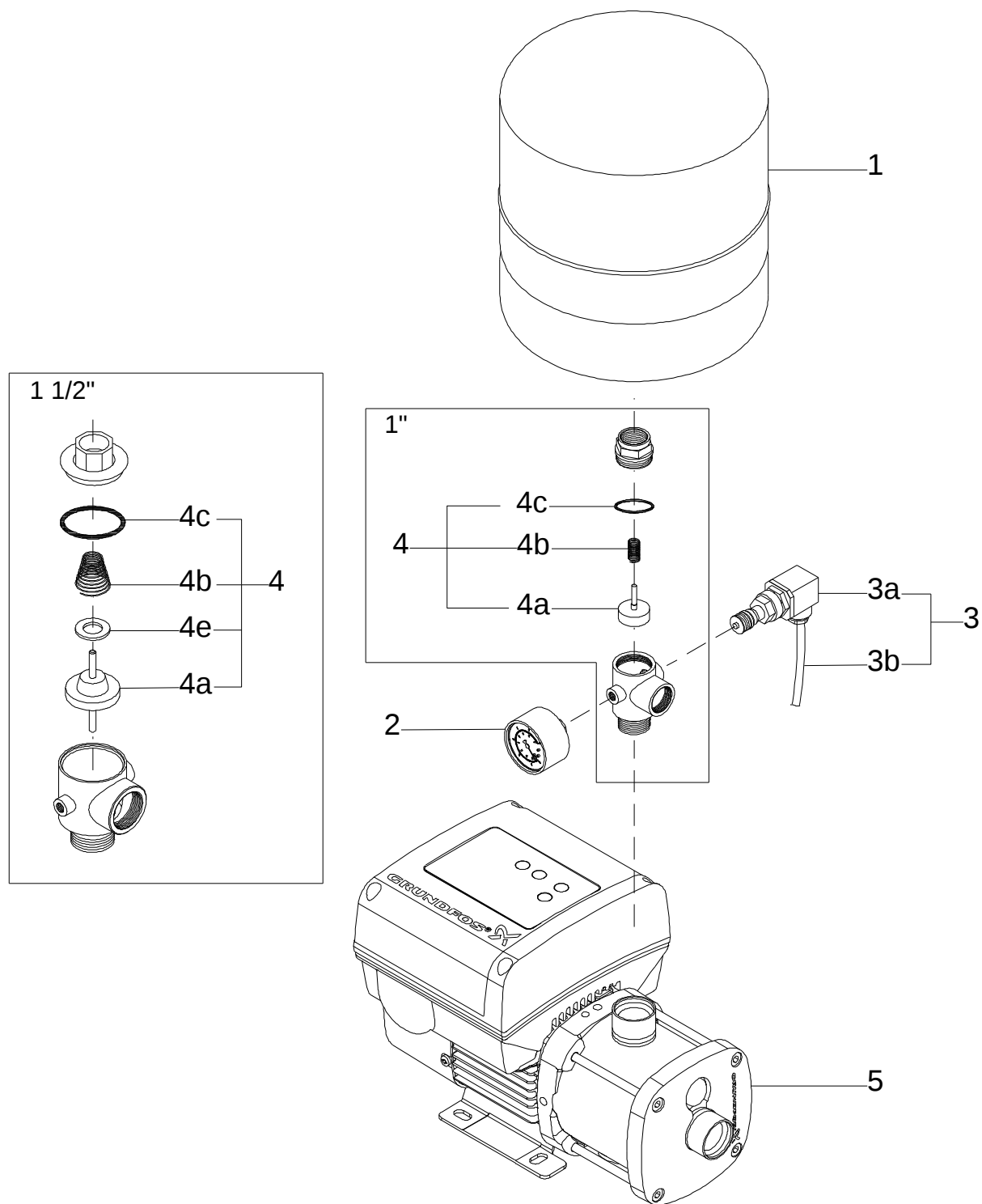
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Amount: 1

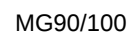
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Total: Price on request

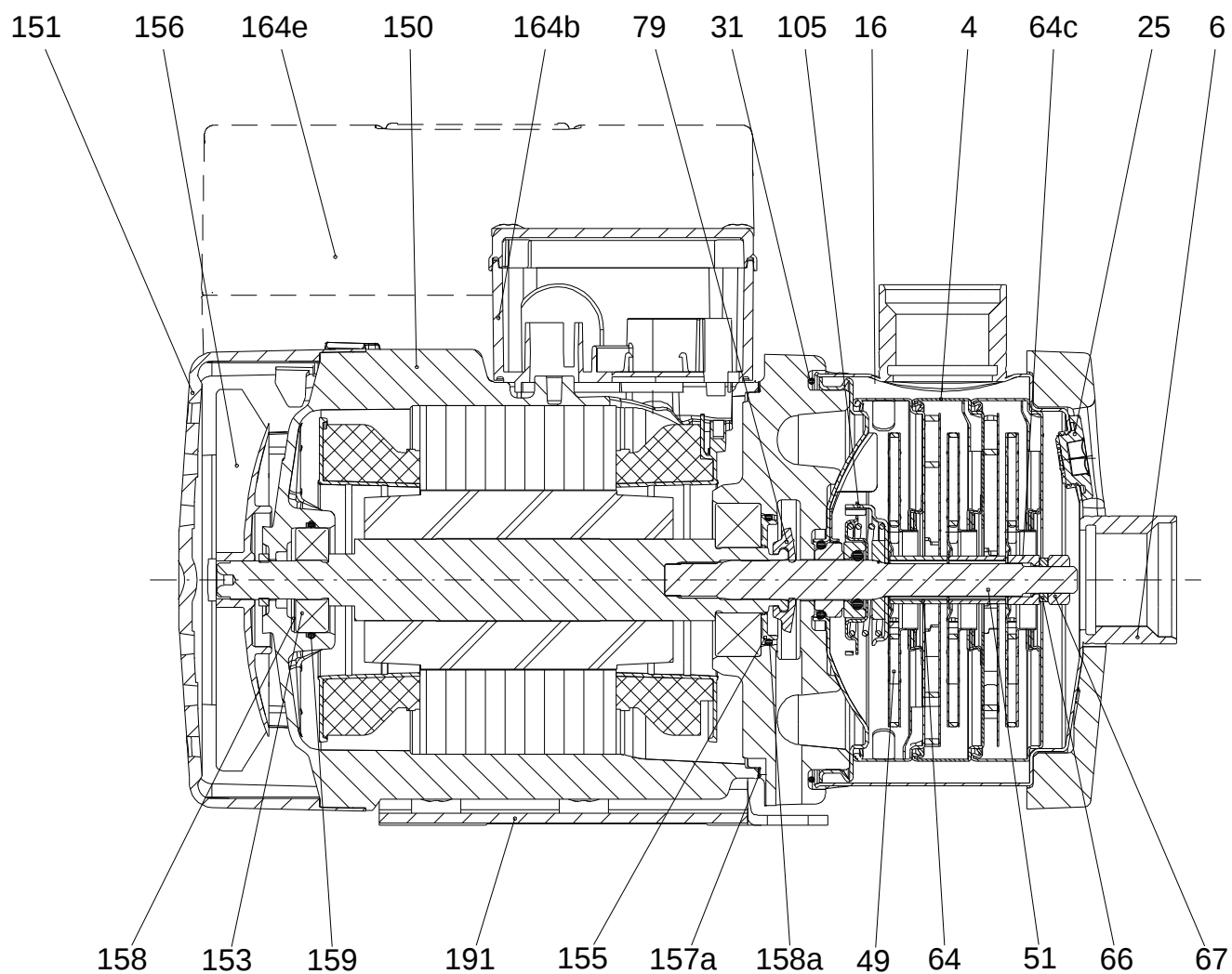
Exploded view (TM064097 for CMBE)



MG71/80



Sectional drawing



165x100

Parts list CMBE 1-44, Prod number 98548109
Valid from 2.1.2013 (1301)

Position	Description	Annotation	Classification data	Part No.	Count	Unit
-	Pump				1	pcs
	Plug				2	
-	Drain plug cpl.				2	
11	O-ring		Diameter: 18,5 Material type: EPDM Thickness: 2			
25	Plug					
+	MGE71A				1	
- 4	Chamber cpl.				1	
	Guide vane					
	Plate					
	Retainer					
	Intermediate chamber					
	Vane					
45	Neck ring					
65	Retainer					
- 4.d	Chamber cpl.				1	
	Chamber					
	Retainer for seal ring					
	Guide vane					
	Plate					
	Vane					
45	Neck ring					
65	Neck ring retainer					
- 5a	Chamber cpl.				1	
	Retainer					
	Intermediate chamber					
	Vane					
45	Neck ring					
65	Retainer					
6.a	Flange				1	
16	Collar sleeve cpl.				1	
26	Hex socket head cap screw		Length: 80 Thread: M8		4	
28g	Cross recess countersunk screw		Designation: TORX		4	
31	O-ring		Diameter: 114 Material type: EPDM Thickness: 3,9		1	
- 32	Cover plate				1	
	Cover plate					
	Plate					
36	Lock nut		Thread: M8		1	
49	Impeller cpl.				3	
51	Pump shaft		Diameter: D12		1	
64	Spacing pipe				2	
64.c	Clamp				1	
66	Wedge lock washer				1	
- 105	Shaft seal				1	
102	O-ring		Diameter: 17,86 Material type: EPDM Thickness: 2,62			
103	Seal ring, stationary					
104	Seal ring, rotating					



Company name:

Created by:

Phone:

Date:

2/20/2018

Position	Description	Annotation	Classification data	Part No.	Count	Unit
107	O-ring					
108	Compression spring					
111	Retainer					
112	Driver for shaft seal					
111.a	Stop ring				1	
151	Fan cover				1	
152	Pan head thread forming screw				4	
156	Fan				1	
191	Base plate				1	
	Cable gland				1	pcs
-	Valve cpl.				1	pcs
	Valve				1	
	Sensor				1	
1	Tank				1	
2	Pressure gauge				1	
3a	Pressure transmitter				1	