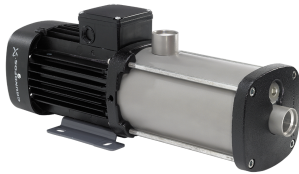


PROJECT: _____	UNIT TAG: _____	QUANTITY: _____
REPRESENTATIVE: _____	TYPE OF SERVICE: _____	DATE: _____
ENGINEER: _____	SUBMITTED BY: _____	DATE: _____
CONTRACTOR: _____	APPROVED BY: _____	DATE: _____
	ORDER NO.: _____	DATE: _____

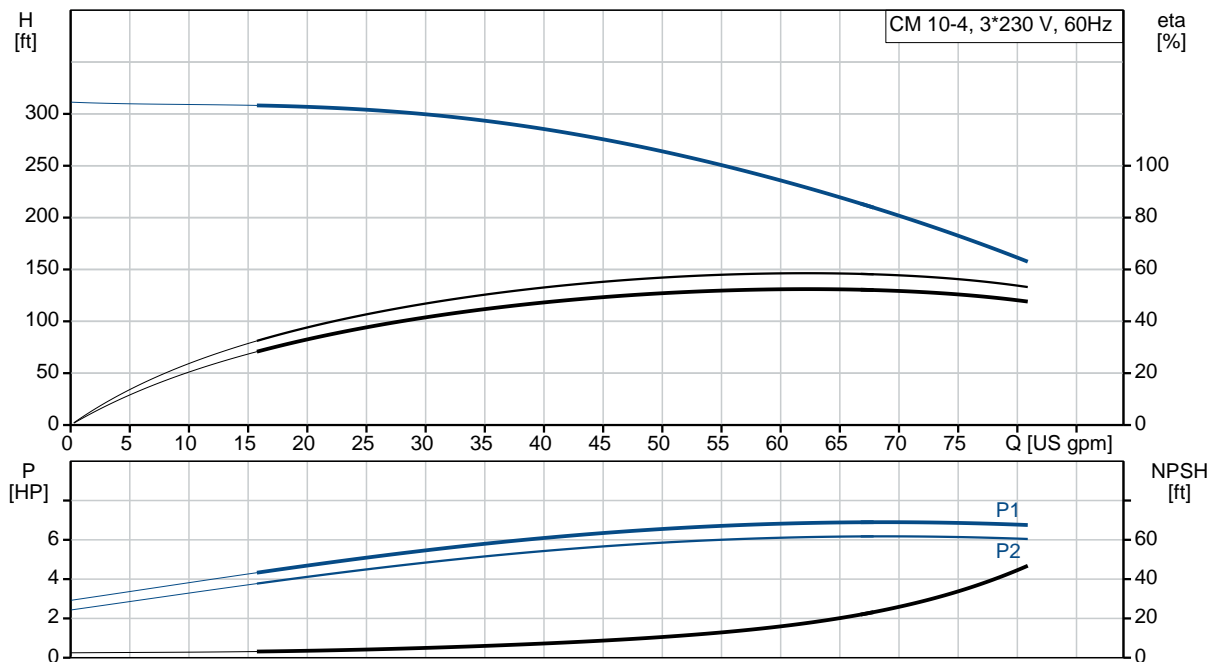
### CM 10-4 A-S-I-V-AQQV E-A-A-N

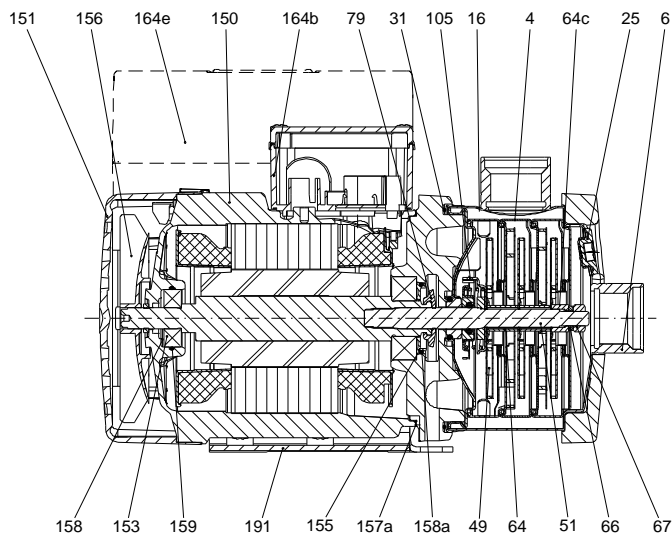
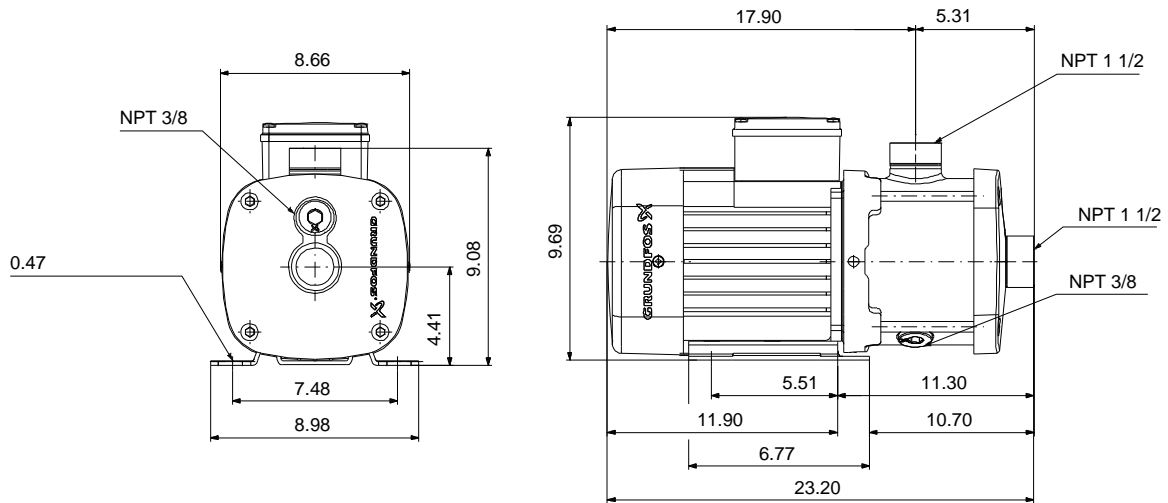


CM are reliable, quiet and compact horizontal end-suction pumps. The modular pump design makes it easy to make customised solutions. The CM pumps are available in cast iron and stainless steel

Product photo could vary from the actual product

Conditions of Service	Pump Data	Motor Data
Flow: _____	Max pressure at stated temperature: 232 psi / 194 °F	Main frequency: 60 Hz
Head: _____	Liquid temperature range: -4 .. 248 °F	Enclosure class: IP55
Efficiency: _____	Maximum ambient temperature: 131 °F	
Liquid: Water	Shaft seal: AQQV	
Temperature: 68 °F	Product number: 99059793	
NPSH required: ft		
Viscosity: _____		
Specific Gravity: 1.000		





**Materials:**


Pump housing: Stainless steel  
AISI 304

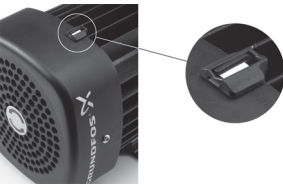
Impeller: Stainless steel  
AISI 304  
EN 1.4301

Material code: I

Code for rubber: E

165x100

Count	Description
1	<p><b>CM 10-4 A-S-I-V-AQQV E-A-A-N</b></p>  <p>Product photo could vary from the actual product</p> <p>Product No.: <a href="#">99310999</a></p> <p>Compact, reliable, horizontal, multistage, end-suction centrifugal pump with axial suction port and radial discharge port. Pump materials in contact with the liquid are in stainless steel. The mechanical shaft seal is a special designed, unbalanced O-ring seal. Pipework connection is via internal NPT pipe threads.</p> <p>The pump is fitted with a 3-phase, foot-mounted, fan-cooled asynchronous motor.</p> <p><b>Further product details</b></p> <p>Pump and motor are integrated in a compact and user-friendly design. The pump is fitted to a low base plate, making it ideal for installation in systems where compactness is important.</p> <p>The state-of-the-art design and materials of the shaft seal ensure high wear resistance, improved sticking and dry-running capabilities and long operating life.</p> <p>Servicing the pump requires no special service tools. Service parts are in stock for quick delivery and are available as kits, single parts or bulk. Service videos are available on <a href="http://www.youtube.com">www.youtube.com</a>.</p> <p><b>Pump</b></p> <p>A combination of a stop ring and a Nord-lock® washer secures a tight and reliable fixation of the impeller spacing pipes to the splined pump shaft. It is possible to remove and fit the hydraulic parts from the pump side. The inlet and outlet port are integrated in the pump sleeve. The inlet part, chambers and discharge part are held together by four staybolts and a retaining flange.</p> <p>The pump is fitted with an unbalanced O-ring seal with a rigid torque-transmission system. It has a fixed seal driver ensuring a reliable rotation of all parts. The dynamic secondary seal is an O-ring.</p> <p>Primary seal:</p> <ul style="list-style-type: none"> <li>Rotating seal ring material: silicon carbide (SiC)</li> <li>Stationary seat material: silicon carbide (SiC)</li> </ul> 

Count	Description
	<p>The pump shaft is connected to the motor shaft through a left thread and tight fit. The shaft cannot be dismantled.</p> <p><b>Motor</b></p> <p>The motor is a totally enclosed, fan-cooled motor with principal dimensions to EN 50347. Electrical tolerances comply with EN 60034.</p> <p>The motor efficiency is classified as premium efficiency in accordance with EISA2007.</p> <p>An installation indicator is fitted to the motor fan cover. Based on the motor cooling air, it indicates the direction of rotation of the motor. The motor is fitted with a directional sticker.</p>  <p>The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.</p> <p><b>Technical data</b></p> <p><b>Controls:</b></p> <p>Frequency converter: NONE</p> <p><b>Liquid:</b></p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -4 .. 248 °F</p> <p>Selected liquid temperature: 68 °F</p> <p>Density: 62.29 lb/ft<sup>3</sup></p> <p><b>Technical:</b></p> <p>Pump speed on which pump data are based: 3480 rpm</p> <p>Rated flow: 52.8 US gpm</p> <p>Rated head: 243.1 ft</p> <p>Code for shaft seal: AQQV</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p><b>Materials:</b></p> <p>Pump housing: Stainless steel EN 1.4301 AISI 304</p> <p>Impeller: Stainless steel EN 1.4301 AISI 304</p> <p><b>Installation:</b></p> <p>Range of ambient temperature: -4 .. 131 °F</p> <p>Maximum operating pressure: 232.06 psi</p>



Company name:

Created by:

Phone:

Date:

4/2/2020

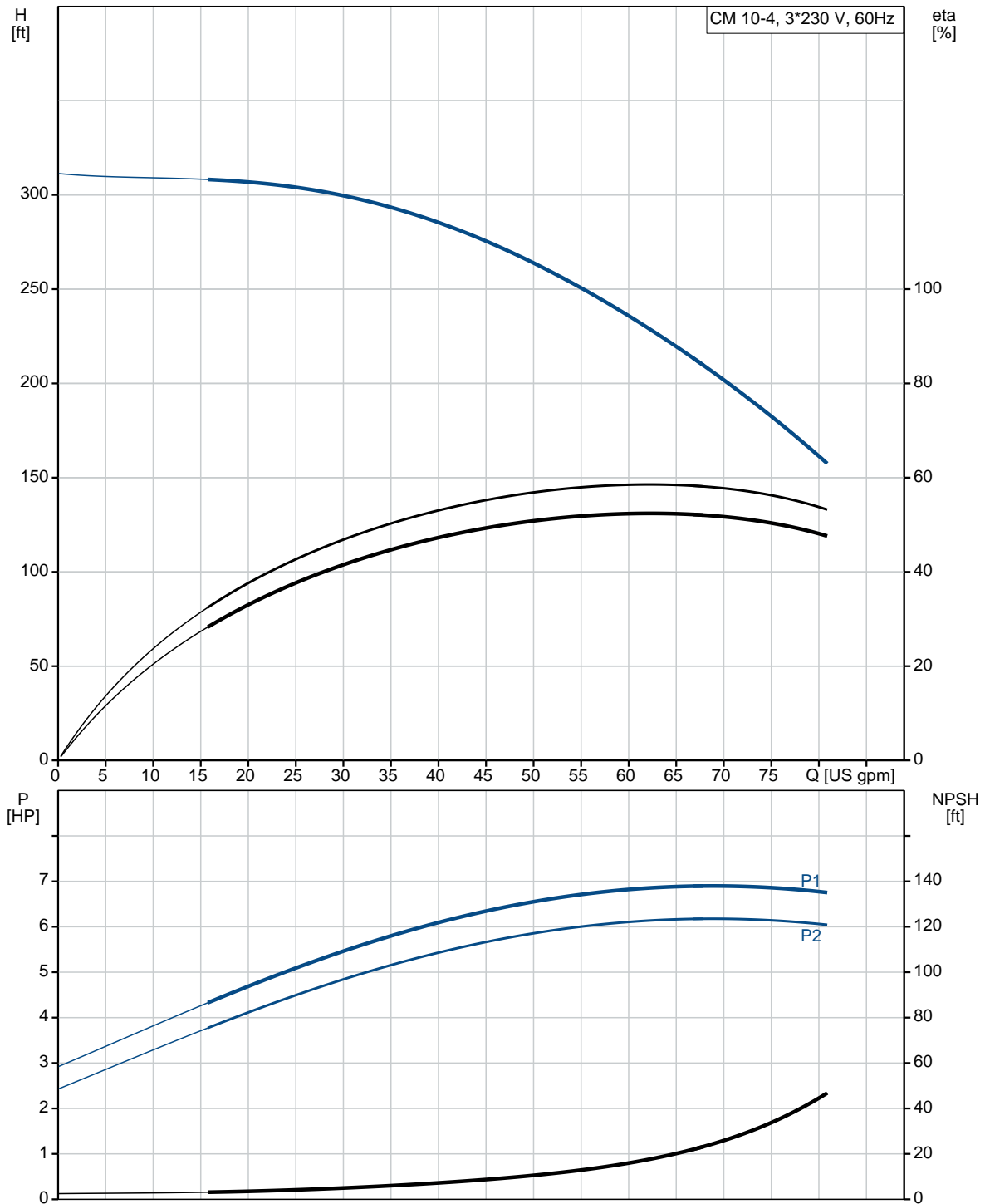
Count	Description
	Max pressure at stated temperature: 232 psi / 194 °F 145 psi / 250 °F
	Type of connection: NPT(F)
	Size of suction port: 1 1/2 inch
	Size of outlet port: 1 1/2 inch
	Outlet position: 12
	<b>Electrical data:</b>
	Motor standard: NEMA
	Frame size: 132A
	IE efficiency class: IE3 / NEMA Premium
	Rated power - P2: 7.38 HP
	Main frequency: 60 Hz
	Suitable for 50/60 Hz: N
	Phase: 3
	Rated voltage: 208-230YY/440-480Y V
	Service factor: 1.00
	Rated current: 20,4-19,8/9,95-9,85 A
	Starting current: 1270-1400 %
	Rated speed: 3540-3550 rpm
	Enclosure class (IEC 34-5): IP55
	Insulation class (IEC 85): F
	Built-in motor protection: NONE
	<b>Others:</b>
	Terminal box position: 12
	Minimum efficiency index, MEI $\eta_{\%}$ : 0.52
	Net weight: 105 lb
	Gross weight: 110 lb
	Approvals: CE,WRAS,ACS,TR,EAC,CURUS



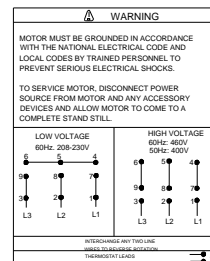
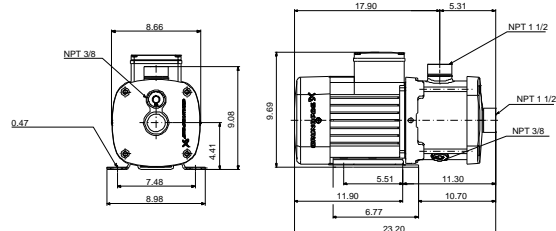
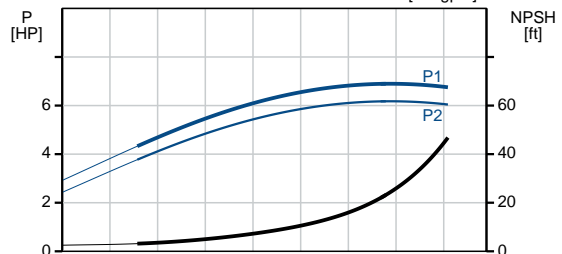
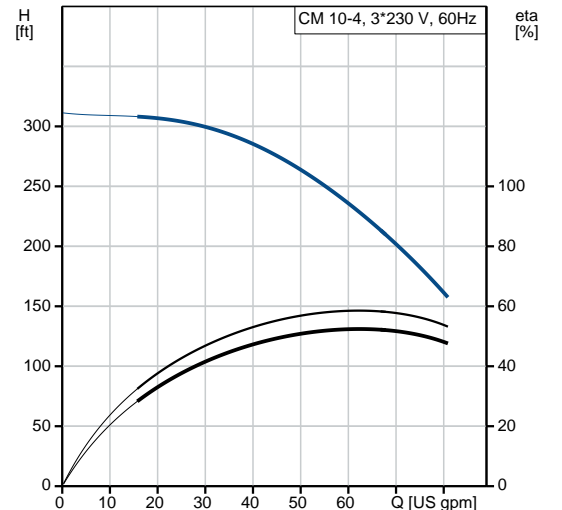
Company name:  
Created by:  
Phone:

Date: 4/2/2020

## 99310999 CM 10-4 A-S-I-V-AQQV E-A-A-N 60 Hz



Description	Value
<b>General information:</b>	
Product name:	CM 10-4 A-S-I-V-AQQV E-A-A-N
Product No.:	99059793
EAN:	5712605982883
	5712605982883
<b>Technical:</b>	
Pump speed on which pump data are based:	3480 rpm
Rated flow:	52.8 US gpm
Rated head:	243.1 ft
Impellers:	4
Code for shaft seal:	AQQV
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
<b>Materials:</b>	
Pump housing:	Stainless steel EN 1.4301 AISI 304
Impeller:	Stainless steel EN 1.4301 AISI 304
Material code:	I
Code for rubber:	V
<b>Installation:</b>	
Range of ambient temperature:	-4 .. 131 °F
Maximum operating pressure:	232.06 psi
Max pressure at stated temperature:	232 psi / 194 °F 145 psi / 250 °F
Type of connection:	NPT(F)
Size of suction port:	1 1/2 inch
Size of outlet port:	1 1/2 inch
Outlet position:	12
Connect code:	S
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-4 .. 248 °F
Selected liquid temperature:	68 °F
Density:	62.29 lb/ft <sup>3</sup>
<b>Electrical data:</b>	
Motor standard:	NEMA
Frame size:	132A
IE efficiency class:	IE3 / NEMA Premium
Rated power - P2:	7.38 HP
Main frequency:	60 Hz
Suitable for 50/60 Hz:	N
Phase:	3





Company name:

Created by:

Phone:

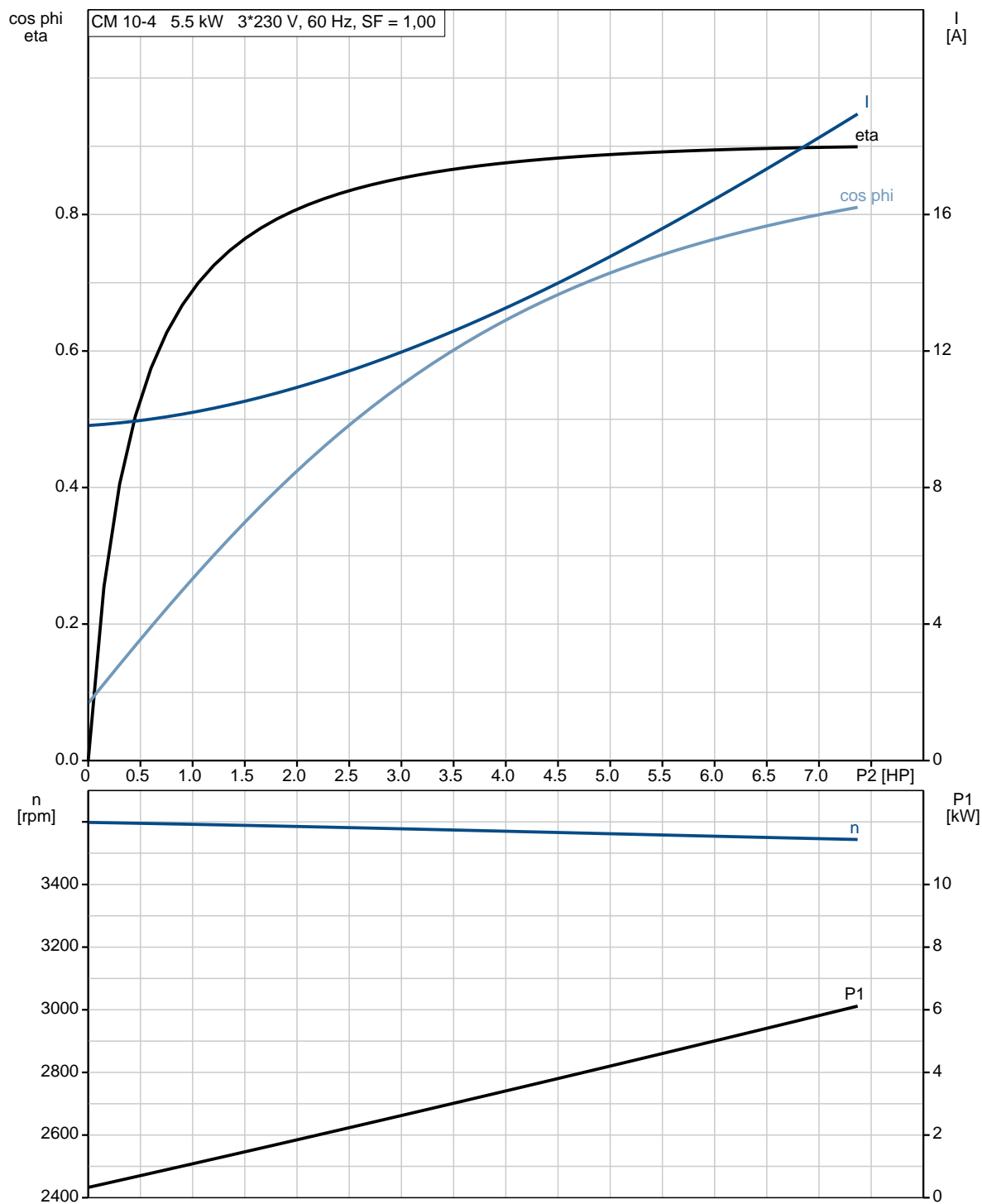
Date:

4/2/2020

Description	Value
Rated voltage:	208-230YY/440-480Y V
Service factor:	1.00
Rated current:	20,4-19,8/9,95-9,85 A
Starting current:	1270-1400 %
Rated speed:	3540-3550 rpm
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	NONE
<b>Controls:</b>	
Frequency converter:	NONE
<b>Others:</b>	
Terminal box position:	12
Minimum efficiency index, MEI â‰¥%:	0.52
Net weight:	105 lb
Gross weight:	110 lb
Approvals:	CE,WRAS,ACS,TR,EAC,C URUS



## 99310999 CM 10-4 A-S-I-V-AQQV E-A-A-N 60 Hz

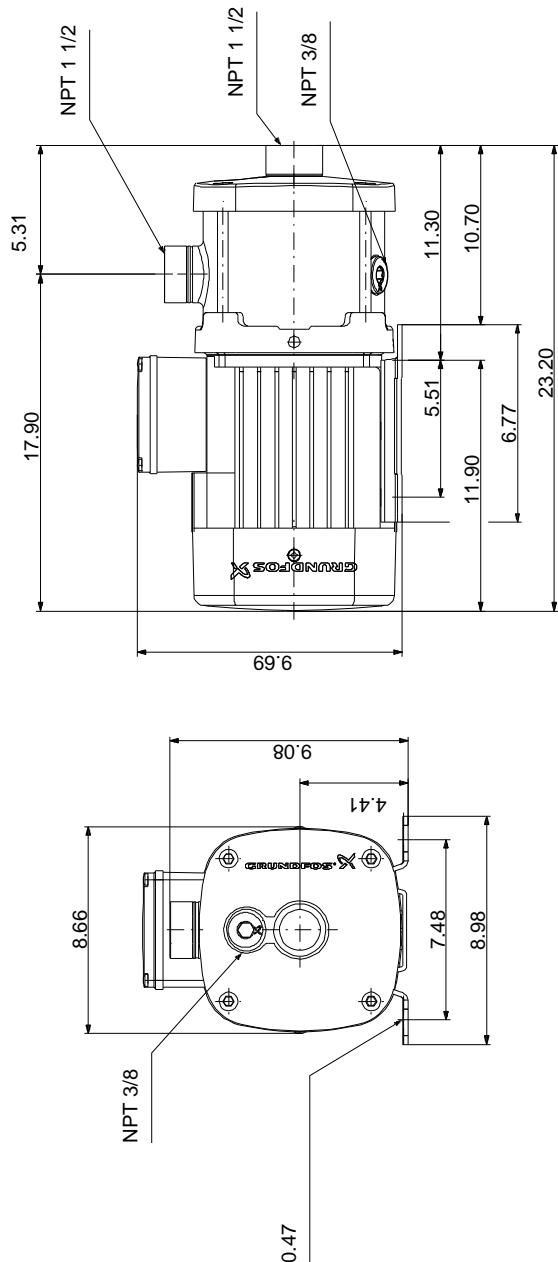




Company name:  
Created by:  
Phone:

Date: 4/2/2020

## 9910999 CM 10-4 A-S-I-V-AQQV E-A-A-N 60 Hz



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

## 99310999 CM 10-4 A-S-I-V-AQQV E-A-A-N 60 Hz

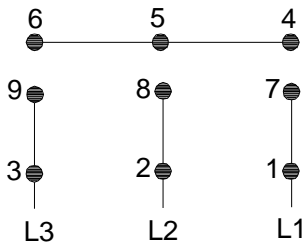


### WARNING

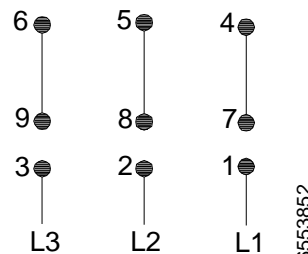
MOTOR MUST BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES BY TRAINED PERSONNEL TO PREVENT SERIOUS ELECTRICAL SHOCKS.

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)



All units are [in] unless otherwise presented.