

Submittal Data

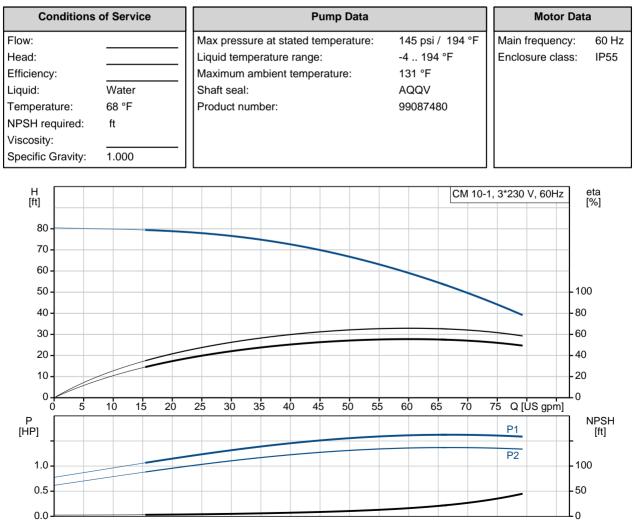
PROJECT:	 UNIT TAG:	 QUANTITY:	
	 TYPE OF SERVICE:		
REPRESENTATIVE:	 SUBMITTED BY:	DATE:	
ENGINEER:	APPROVED BY:	DATE:	
CONTRACTOR:	 ORDER NO.:	DATE:	

CM 10-1 A-S-A-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





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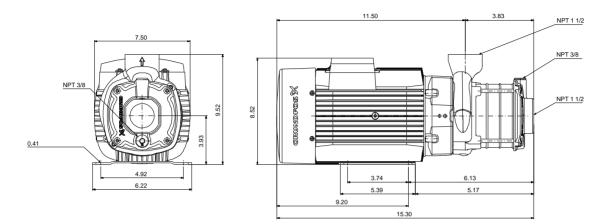
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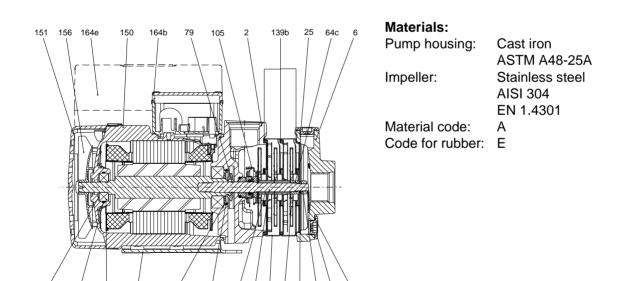
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Date: 3/27/2020 Count Description CM 10-1 A-S-A-V-AQQV E-A-A-N 1 Product photo could vary from the actual product Product No.: 99155412 Compact, reliable, horizontal, multistage, end-suction centrifugal pump with axial suction port and radial discharge port. The shaft, impellers and chambers are made of stainless steel. The inlet and discharge parts are made of cast iron. The mechanical shaft seal is a special designed, unbalanced O-ring seal. Pipework connection is via internal NPT pipe threads. The pump is fitted with a 3-phase, foot-mounted, fan-cooled asynchronous motor. **Further product details** 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. 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. 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 www.youtube.com. Pump 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 part, chambers and discharge part are held together by four staybolts. 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. Primary seal: Rotating seal ring material: silicon carbide (SiC) Stationary seat material: silicon carbide (SiC) This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles. The pump shaft is connected to the motor shaft through a left thread and tight fit. The shaft cannot be

dismantled.



3/27/2020

Count Description

Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to EN 50347. Electrical tolerances comply with EN 60034.

Date:

The motor efficiency is classified as premium efficiency in accordance with EISA2007. 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.



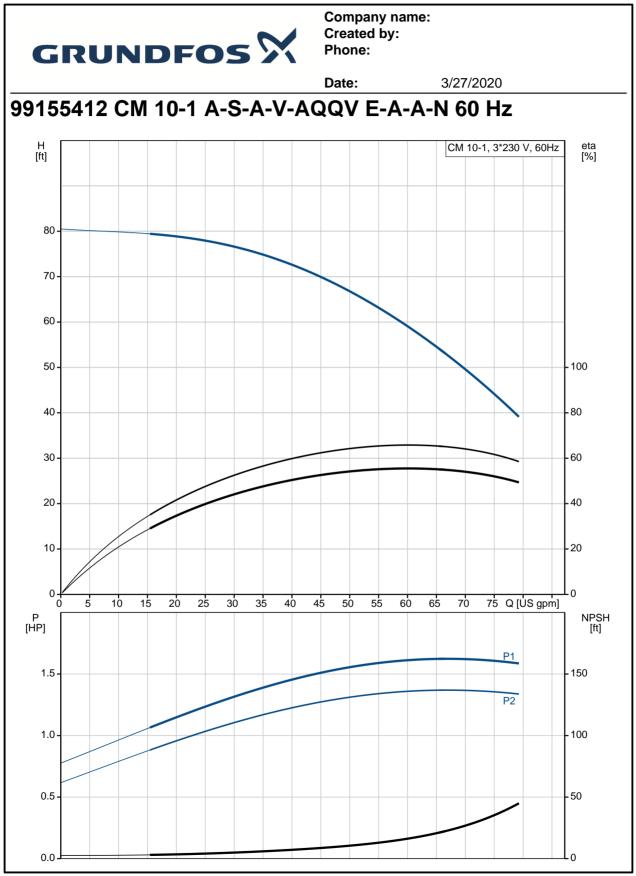
The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

Technical data

Controls: Frequency converter:	NONE
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -4 194 °F 68 °F 62.29 lb/ft ³
Technical: Pump speed on which pump dat Rated flow: Rated head: Code for shaft seal: Curve tolerance:	a are based: 3480 rpm 52.8 US gpm 64.6 ft AQQV ISO9906:2012 3B
Materials:	
Pump housing:	Cast iron EN-GJL-200
Impeller:	ASTM A48-25A Stainless steel EN 1.4301 AISI 304
Installation: Range of ambient temperature: Maximum operating pressure: Max pressure at stated temperation	145.04 psi



		Date:	3/27/2020
Count	Description		
	Type of connection:	NPT(F)	
	Size of suction port:	1 1/2 inch	
	Size of outlet port:	1 1/2 inch	
	Outlet position:	12	
	Electrical data:		
	Motor standard:	NEMA	
	Frame size:	80B	
	IE efficiency class:	IE3 / NEMA Premium	
	Rated power - P2:	1.48 HP	
	Main frequency:	60 Hz	
	Suitable for 50/60 Hz:	Ν	
	Phase:	3	
	Rated voltage:	208-230YY/440-480Y V	
	Service factor:	1.00	
	Rated current:	5,2-5,1/2,55-2,65 A	
	Rated speed:	3430-3470 rpm	
	Enclosure class (IEC 34-5):	IP55	
	Insulation class (IEC 85):	F	
	Built-in motor protection:	NONE	
		None	
	Others:		
	Terminal box position:	12	
	Minimum efficiency index, MEI á	1‰¥: 0.7	
	Net weight:	51.2 lb	
	Gross weight:	56.7 lb	
	Approvals:	CE,WRAS,ACS,TR,EAC	
	Custom tariff no.:	8413.70.2040	



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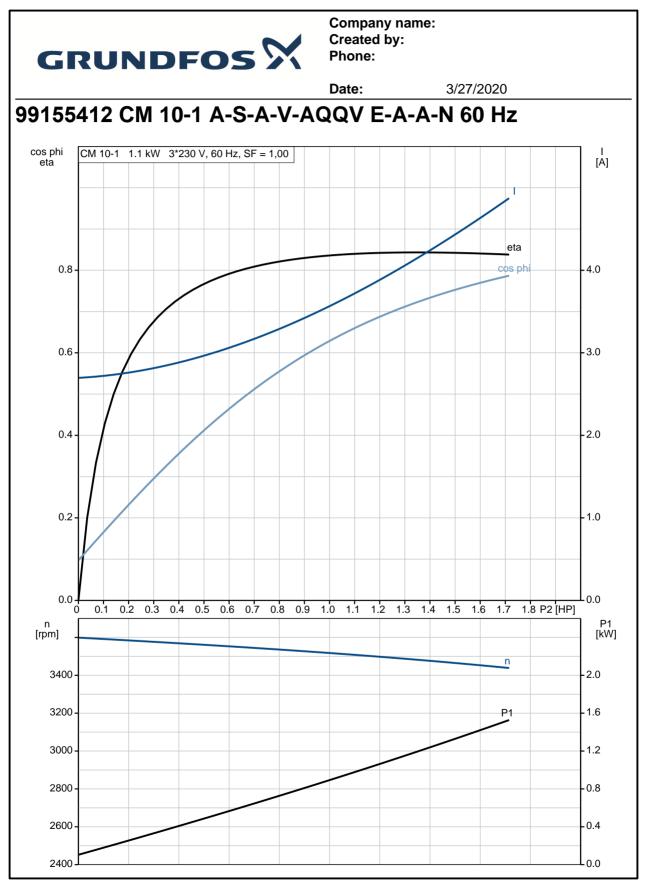


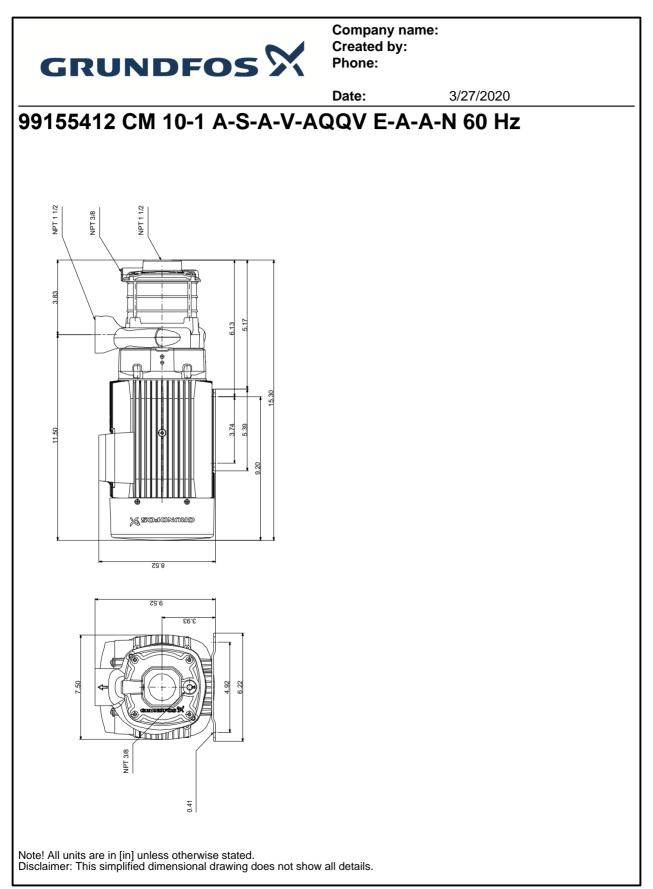
		Date:	3/27/2020
Description	Value	H [ft]	CM 10-1, 3*230 V, 60Hz eta [%]
General information:			
Product name:	CM 10-1 A-S-A-V-AQQV E-A-A-N	80 -	
Product No.:	99155412	70 -	
EAN:	5712606525867		
	5712606525867	60 -	
Technical:	0112000020001	- 50	
Pump speed on which pump data are based:	3480 rpm	50 - 40 -	100
Rated flow:	52.8 US gpm	_	
Rated head:	64.6 ft	30 -	60
Impellers:	1	20 -	40
Code for shaft seal:	AQQV	- 20	70
Curve tolerance:	ISO9906:2012 3B	10-	- 20
Pump version:	A		
Model:	A	0 // 1 0 10	20 30 40 50 60 Q [US gpm]
Materials:		P [HP]	NPS [ft
Pump housing:	Cast iron		P1
	EN-GJL-200	1.5 -	- 150
	ASTM A48-25A		P2
mpeller:	Stainless steel	1.0-	100
inpoliol.	EN 1.4301	-	
	AISI 304	0.5 -	50
Material code:	A	_	
Code for rubber:	E	• 0.0	0
Installation:	L	_	
Range of ambient temperature:	-4 131 °F	7.50	
Maximum operating pressure:	145.04 psi		
Max pressure at stated			
temperature:	145 psi / 194 °F 145 psi / 194 °F		
Type of connection:	NPT(F)	6.22	
Size of suction port:	1 1/2 inch		920
Size of outlet port:	1 1/2 inch		
Outlet position:	12		
Connect code:	S		
Liquid:	3		
Pumped liquid:	Water		
Liquid temperature range:	-4 194 °F		
Selected liquid temperature:	68 °F		
Density:	62.29 lb/ft ³	MOTOR MUST BE GROUN WITH THE NATIONAL ELEC	WARNING NDED IN ACCORDANCE
Electrical data:	02.29 ID/II*	LOCAL CODES BY TRAINE PREVENT SERIOUS ELECT	IED PERSONNEL TO
	NEMA	TO SERVICE MOTOR, DISC SOURCE FROM MOTOR AN	AND ANY ACCESSORY
Motor standard:		DEVICES AND ALLOW MO COMPLETE STAND STILL	OTOR TO COME TO A
Frame size:	80B	LOW VOLTAGE 60Hz. 208-230V 6 5 4	HiGH VOLTAGE 60H-460V 50H±-400V
IE efficiency class:	IE3 / NEMA Premium	9 8 7	
Rated power - P2:	1.48 HP	3	3 • 2 • 1 • 1 1 1 3 1 2 11 8
Main frequency:	60 Hz	INTERCHARM WREES TO RE	ME ANY TWO LINE
Suitable for 50/60 Hz:	N	THE SEADSTA (MINEN SEC)	TATLEADS
Phase:	3		

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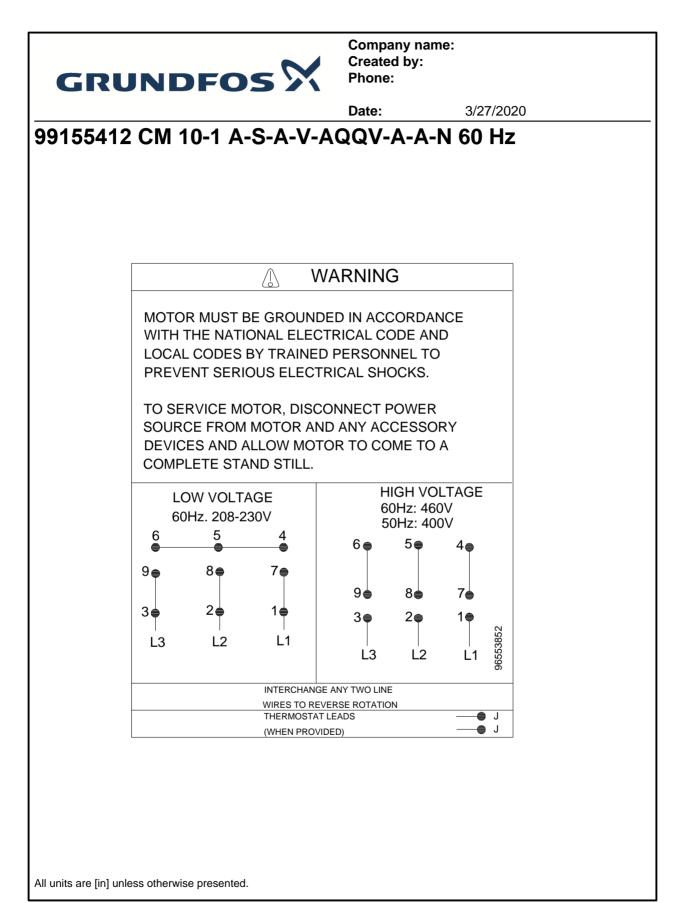


		Date:	3/27/2020
Description	Value		
Rated voltage:	208-230YY/440-480Y V	_	
Service factor:	1.00		
Rated current:	5,2-5,1/2,55-2,65 A		
Rated speed:	3430-3470 rpm		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	NONE		
Controls:			
Frequency converter:	NONE		
Others:			
Terminal box position:	12		
Minimum efficiency index, MEI ≥:	0.7		
Net weight:	51.2 lb		
Gross weight:	56.7 lb		
Approvals:	CE,WRAS,ACS,TR,EAC		
Custom tariff no.:	8413.70.2040		





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