

### Submittal Data

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



## CM 1-9 A-S-G-E-AQQE B-A-A-N

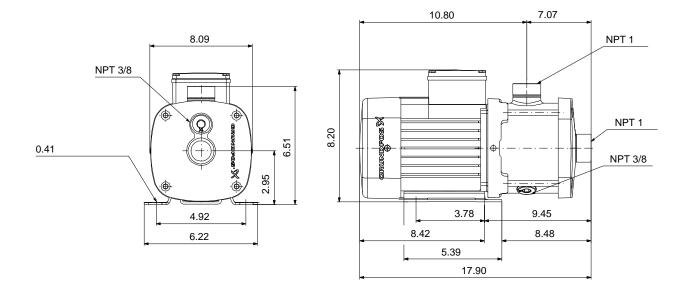
CM are reliable, quiet and compact horizontal end-suction pumps. The modular pump design makes it easy to make customised solutions. The CM pumps are available in cast iron and stainless steel

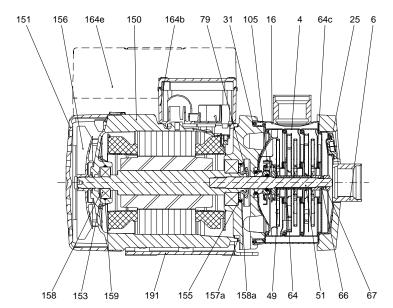
Note! Product picture may differ from actual product

Conditions of Service	Pump Data	Motor Data	
Flow:9.07 US GPMHead:221.2 ftEfficiency:26 %Liquid:WaterTemperature:68 °FNPSH required:6.1 ftViscosity:Specific Gravity:1.000	Max pressure at stated temp:232 psi / 194 °FLiquid temperature range:-4 248 °FMaximum ambient temperature:131 °FShaft seal:AQQEProduct number:96935561	Mains frequency: 60 Hz Enclosure class: IP55	
H [ft]	Q = 9.07 US GPM H = 221.2 ft	CM 1-9, 1*230 V, 60Hz [%]	
400 - 350 -	n = 3316 rpm Pumped liquid = Wate Liquid temperature du Density = 62.29 lb/ft <sup>3</sup>	er Iring operation = 68 °F - 70	
300 -			
250 -			
200 -		40	
150-		30	
50-		a pump = 37.6 % a pump+motor = 26 %	
0 1 2 3 P [HP]	4 5 6 7 8 9 10 11	12 Q [US GPM] NPSH [ft]	
1.5-		P160	
1.0-		P2 40	
0.5 -		P1 = 1.452 kW P2 = 1.35 HP NPSH = 6.1 ft	
0.0			



# Submittal Data





#### Materials:

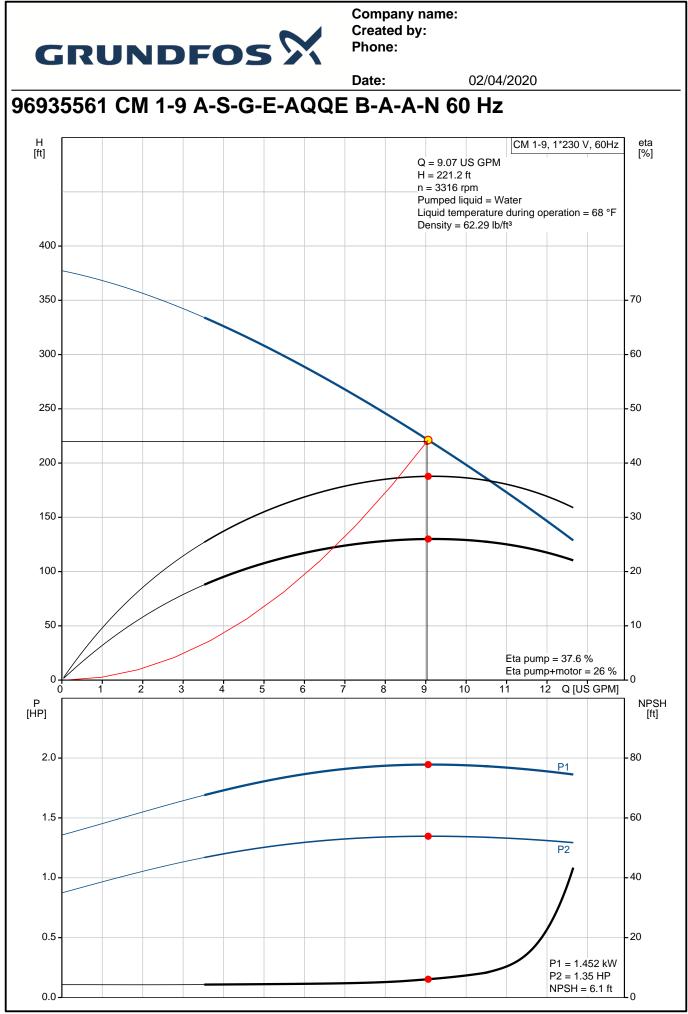
Pump housing:	Stainless steel
	AISI 316
Impeller:	Stainless steel
	AISI 316
	EN 1.4401
Material code:	G
Code for rubber:	E

165x100

	GRUNDFO	os X	Company na Created by: Phone:		
			Date:	02/04/2020	
Qty.	Description				
1	CM 1-9 A-S-G-E-AQQE B-A-A-	N			
	Note! Product picture may differ from actual product Product No.: 96935561				
	Compact, reliable, horizontal, mu port. Pump materials in contact v special designed, unbalanced O	ultistage, end-suction with the liquid are in -ring seal. Pipework	n centrifugal pum high-grade stainl connection is via	p with axial suction port and radial discharge ess steel. The mechanical shaft seal is a internal NPT pipe threads.	
	The pump is fitted with a 1-phas	e, foot-mounted, fan	-cooled asynchro	pnous motor.	
	Controls:				
	Frequency converter:	NONE			
	Liquid:				
	Pumped liquid:	Water -4 248 °F			
	Liquid temperature range: Selected liquid temperature:	-4 248 °F 68 °F			
	Density:	62.29 lb/ft <sup>3</sup>			
	Technical:				
	Pump speed on which pump dat Actual calculated flow:	a are based: 3480 9.07 US GPM	rpm		
	Rated flow:	8.98 US GPM			
	Resulting head of the pump:	221.2 ft			
	Rated head:	267.9 ft			
	Code for shaft seal:	AQQE			
	Curve tolerance:	ISO9906:2012 3B			
	Materials:				
	Pump housing:	Stainless steel EN 1.4401			
		AISI 316			
	Impeller:	Stainless steel EN 1.4401 AISI 316			
	Installation:				
	Range of ambient temperature:				
	Maximum operating pressure: Max pressure at stated temp:	232.06 psi 232 psi / 194 °F 145 psi / 250 °F			
	Type of connection:	NPT(F)			
	Size of inlet connection:	1 inch			
	Size of outlet connection: Outlet position:	1 inch 12			
	Electrical data:				
	Motor standard:	NEMA			
	Frame size:	80B			



		Date:	02/04/2020	
Description				
Rated power - P2:	1.48 HP			
Mains frequency:	60 Hz			
Suitable for 50/60 Hz:	Ν			
Phases:	1			
Rated voltage:	115/230 V			
Service factor:	1.00			
Rated current:	14.6/7.3 A			
Starting current:	320-320 %			
Rated speed:	3320 rpm			
Enclosure class (IEC 34-5):	IP55			
Insulation class (IEC 85):	F			
Built-in motor protection:	NONE			
Others:				
Terminal box position:	12			
Minimum efficiency index, MEI	≥: 0.68			
Net weight:	37.4 lb			
Gross weight:	42.9 lb			
Approvals:	CE,CULUS,WRA	S,ACS,TR,EAC,Cl	JRUS	
Country of origin:	US			
Custom tariff no .:	8413.70.2040			





Description	Value	H [ft]	CM 1-9, 1*230 V, 60H
Seneral information:			Q = 9.07 US GPM H = 221.2 ft
Product name:	CM 1-9 A-S-G-E-AQQE B-A-A-N	400	n = 3316 rpm Pumped liquid = Water
Product No:	96935561	400 -	Liquid temperature during operation = 68 °F Density = 62.29 lb/ft <sup>3</sup>
AN number:	5700314054694	— … / ~	
	5700314054694	350 -	
chnical:			
mp speed on which pump data	3480 rpm	300 -	
ctual calculated flow:	9.07 US GPM	250 -	
Rated flow:	8.98 US GPM		<u> </u>
Resulting head of the pump:	221.2 ft	200 -	
Rated head:	267.9 ft		
mpellers:	9	150 -	
Code for shaft seal:	AQQE		
Curve tolerance:		100 -	
	ISO9906:2012 3B	/	
Pump version:	A	50	
Nodel:	A	//	Eta pump = 37.6 %
Materials:		0	Eta pump+motor = 26
Pump housing:	Stainless steel	Ö	2 4 6 8 10 Q [US GP
	EN 1.4401	P [HP]	
	AISI 316		
mpeller:	Stainless steel	2.0 -	P1
•	EN 1.4401	— I	
	AISI 316	1.5-	
Vaterial code:	G	— [	P2
Code for rubber:	E	1.0	
nstallation:	L		
	4 404 05		
Range of ambient temperature:	-4 131 °F	0.5 -	P1 = 1.452 k
Maximum operating pressure:	232.06 psi		P2 = 1.35 HF NPSH = 6.1 f
Max pressure at stated temp:	232 psi / 194 °F	0.0	
	145 psi / 250 °F		
Type of connection:	NPT(F)		
Size of inlet connection:	1 inch		
Size of outlet connection:	1 inch		
Outlet position:	12		
Connect code:	S		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-4 248 °F		
Selected liquid temperature:	-4 240 F 68 °F		
Density:	62.29 lb/ft <sup>3</sup>		
Electrical data:			
Motor standard:	NEMA		
Frame size:	80B		
Rated power - P2:	1.48 HP		
Mains frequency:	60 Hz		
Suitable for 50/60 Hz:	Ν		
Phases:	1		
Rated voltage:	115/230 V		
Service factor:	1.00		
Rated current:	14.6/7.3 A		
Starting current:	320-320 %		
Rated speed:	3320 rpm		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	NONE		
Controls:			
Frequency converter:	NONE		

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eta [%]

- 70

- 60

- 50

- 40

- 30

20

10

0

80

60

40

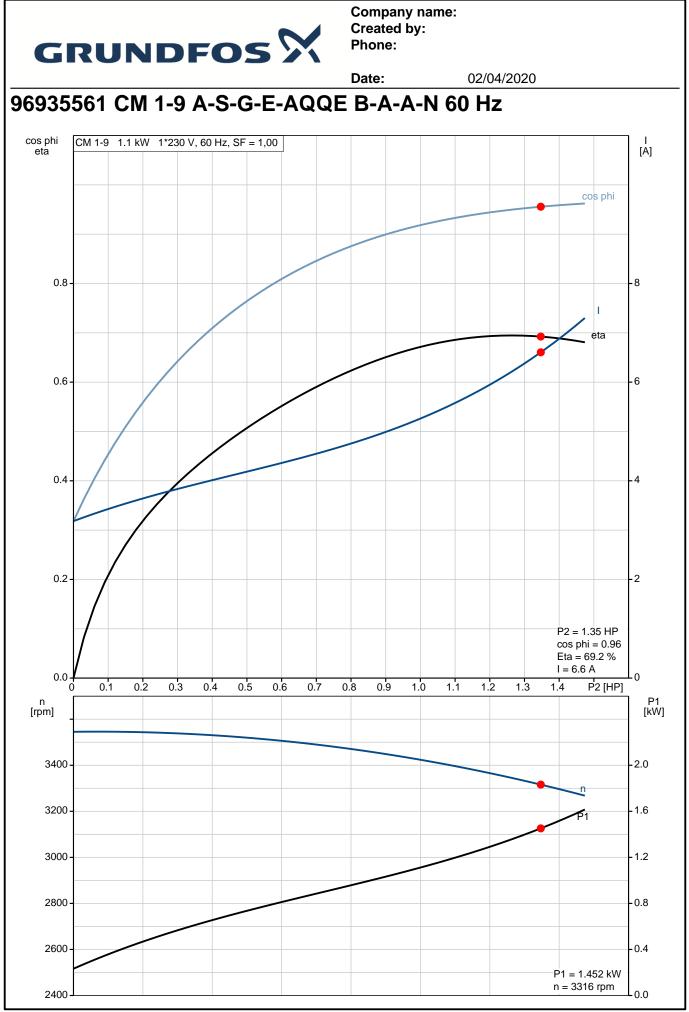
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- 0

NPSH [ft]



		Date:	02/04/2020
Description	Value		
Others:		-	
Terminal box position:	12		
Minimum efficiency index, MEI ≥:	0.68		
Net weight:	37.4 lb		
Gross weight:	42.9 lb		
Approvals:	CE,CULUS,WRAS,ACS,TR,EA C,CURUS		
Country of origin:	US		
Custom tariff no.:	8413.70.2040		

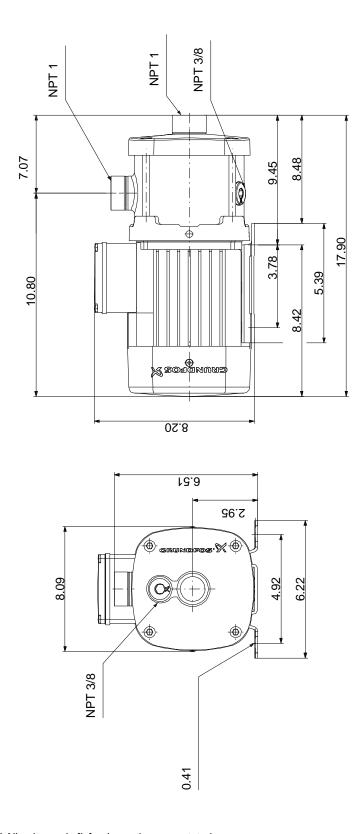


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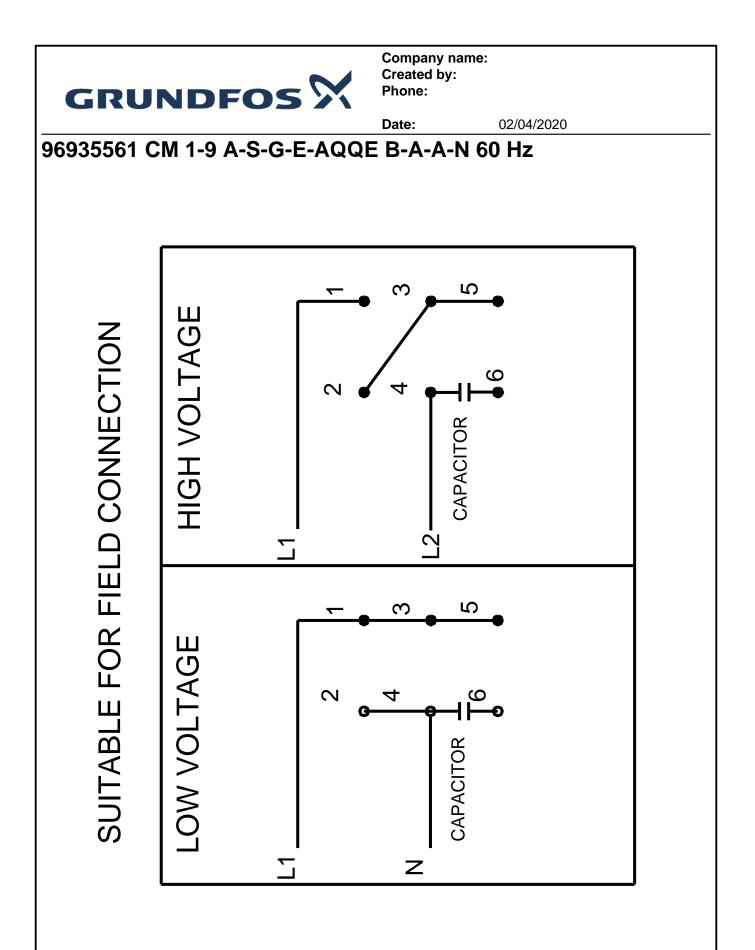


02/04/2020

# 96935561 CM 1-9 A-S-G-E-AQQE B-A-A-N 60 Hz



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



Note! All units are in [in] unless others are stated.