

Line	Part / Label	Quantity	Unit Price	Total Price
<u>Conveying Product</u>		<u>Operational Characteristics</u>		
	Product: Heavy Feedstock Grea	Location:	Closed Building, Dry	
	Specific Product: -	Specific Location:	-	
	Viscosity: Up to 100K cp	Hazardous Area	Not Classified	
	Solid Content: - %	Ambient Temp.:	Ambient °F	
	Solid Size: - in	Operating Mode:	Continuous -	
	Density/SG: 1.0 -	Suction Pressure:	Flooded psi	
	Product Temp.: Ambient °F	Discharge Pressure:	- psi	
	ph-value: Neutral	Differ. Pressure:	- psi	
	Addl Notes:	NPSHa:	- ft	
		Addl Notes:		
<u>Performance Data</u>		<u>Additional Notes</u>		
	<u>GPM</u>	<u>PSI</u>	<u>RPM</u>	
	Min. Capacity: 0	40	0	
	Nom. Capacity: -	-	-	
	Max. Capacity: 60	75	58	

3.00 7510000011
CL 390 Assembly

3.05 PC3SARIFAAACAI115
Börger Rotary Lobe Pump CL390
Product series: BLUEline
Version: Classic

The BLUEline rotary lobe pump is the proven "continuous runner" of our pump range.
The Classic version of the BLUEline rotary lobe pump is equipped with durable, single-acting mechanical seals. The large-volume quench chamber between the pump casing and timing gear ensures the highest degree of safety.
The large selection of materials and rotors (different geometric designs and materials) allow an individual design of the pump adapted to your application.

.....
Casing:
One-piece Blockcasing
from Grey Cast Iron ASTM A48-40 B
with easily replaceable
radial casing liners
Axial casing protection liners from Hard Metal
Radial casing protection liners from Hard Metal (MIP®)

Rotor geometry:
Dual-lobe, entirely elastomer coated, linear
Rotor coating: FPM
Solid Passing Capability D = 2"
Displacement: 102.96 gal/100 rev

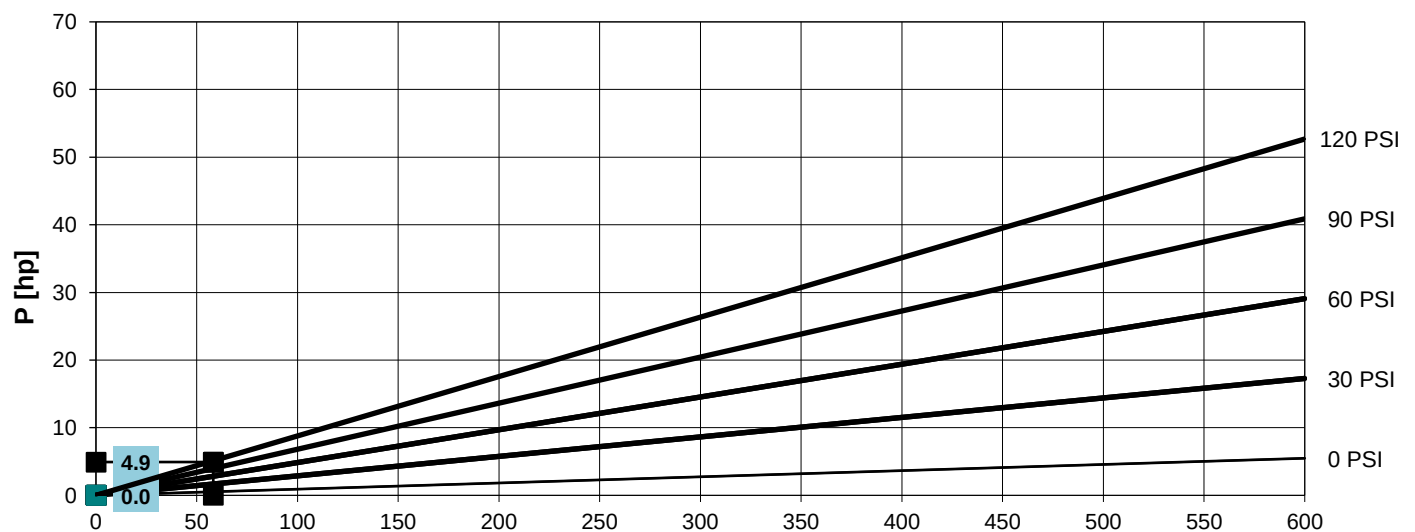
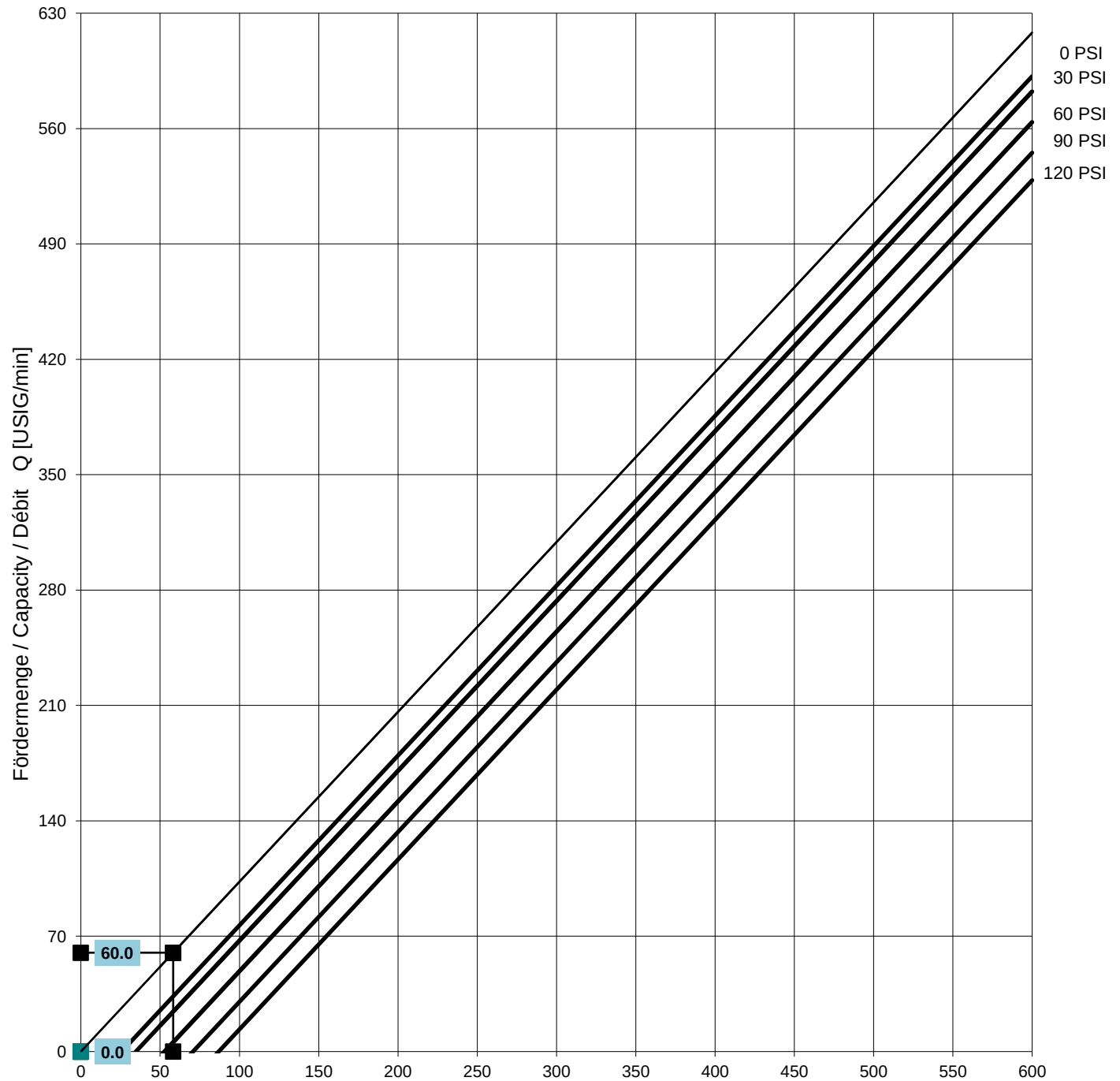
Shaft seal:
single-acting mechanical seals, type LW
Material code according EN 12756 [DIN 24960]: S S V D
Seal faces: Duronit V/Duronit V
Dynamic O-rings: FPM
Seal holding bushes: AISI 4140
Stationary O-Rings: FPM

Line Part / Label

- 3.10 1300000022
CL390 to 4in ANSI Flange
B1 Configuration
002-535
Galvanized CS
- 3.15 5301000921
Nord SK42-210TC-21.87
Inline Reducer
1750rpm/80rpm
- 3.20 5120002836
WEG 01018XT3E215TC
10hp,1800rpm,Expl Proof
208-230/460V
215TC,1.15SF
- 3.25 2500000006
CL In-Line Assembly <=40 HP
Galvanized Frame
Flexible Coupling & Guard
Galvanized Gearmotor Plate

CL390 Assembly

- 4.00 7540000002
CL Auger Assembly
- 4.05 1390000189
CL390 Auger Assembly
027-856
Painted CS
- 4.10 5303000083
Nord SK3282SCP VL-180TC2
1750rpm/105rpm,i=16.67
OPShaftDia: 2",FIngDia: 7 7/8"
- 4.15 5120002829
WEG 00518XT3E184TC
5hp,1800rpm,Expl Proof
208-230/460V
184TC,1.15SF

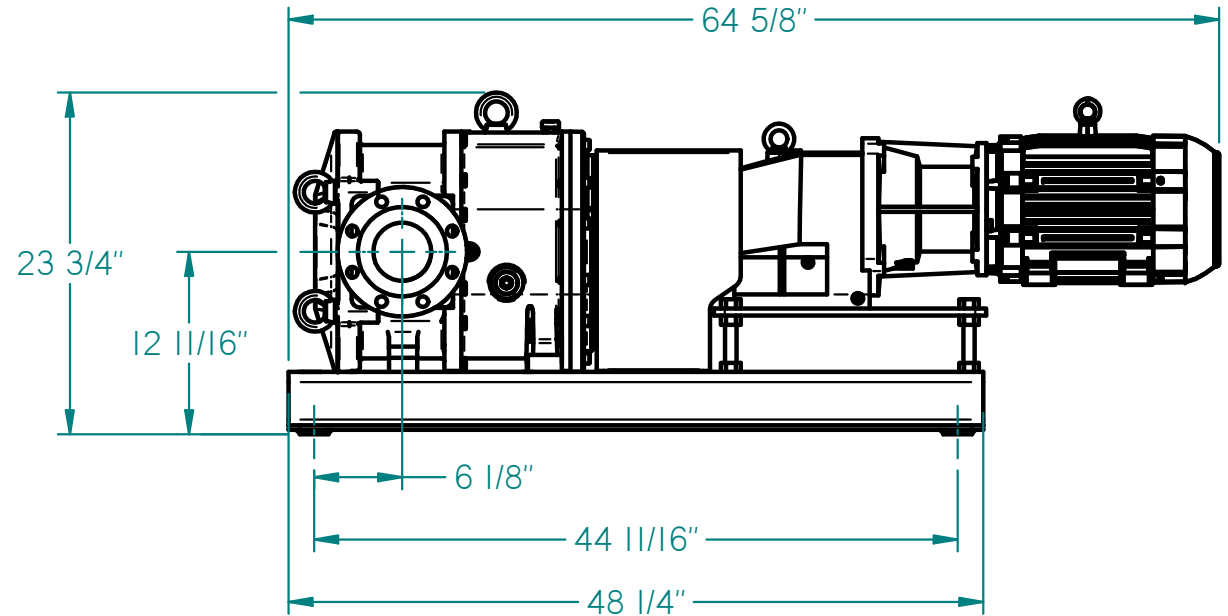
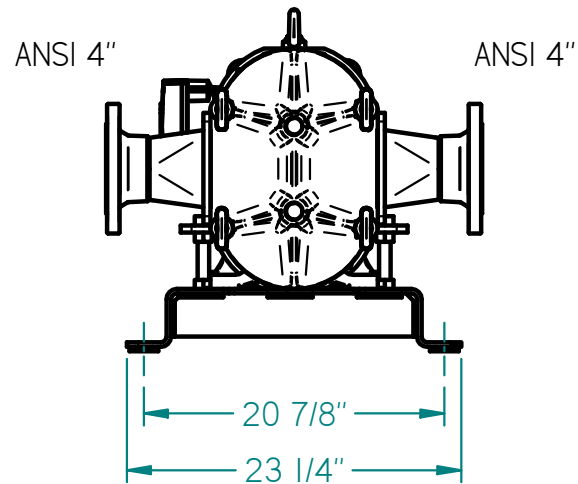
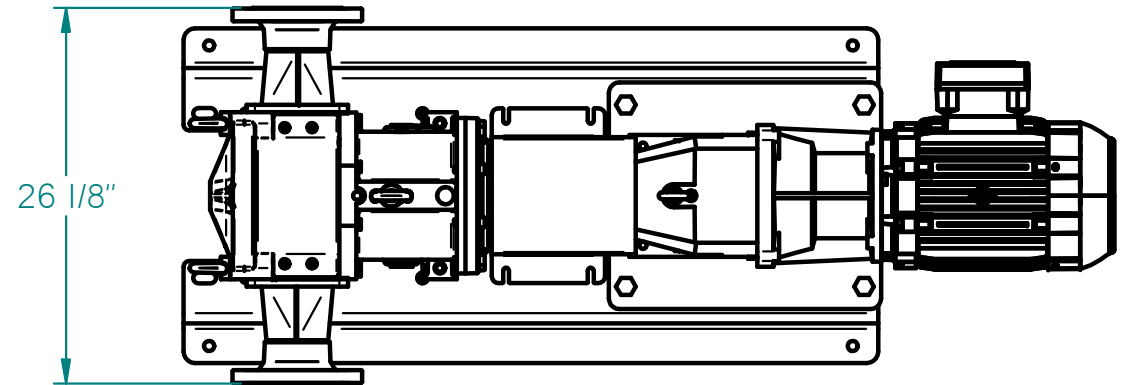


S-0307-14-JMO

Basis Linien / Base lines / Courbes standard = 1cp

[rpm]

CERTIFIED FOR CONSTRUCTION



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BOERGER, LLC

2860 Water Tower Place
Chanhassen, MN 55317
TEL: 612-435-7300
FAX: 612-435-7301



BÖRGER

Model: CL 390
Gear: Nord - In-Line SK42-210TC
Power: 10 HP

ALL DIMENSIONS IN INCHES
UNLESS OTHERWISE NOTED

TOLERANCES $\pm 1/2"$

DO NOT SCALE DRAWING

NAME	DATE
M. Lindquist	05/13/21

CHECKED

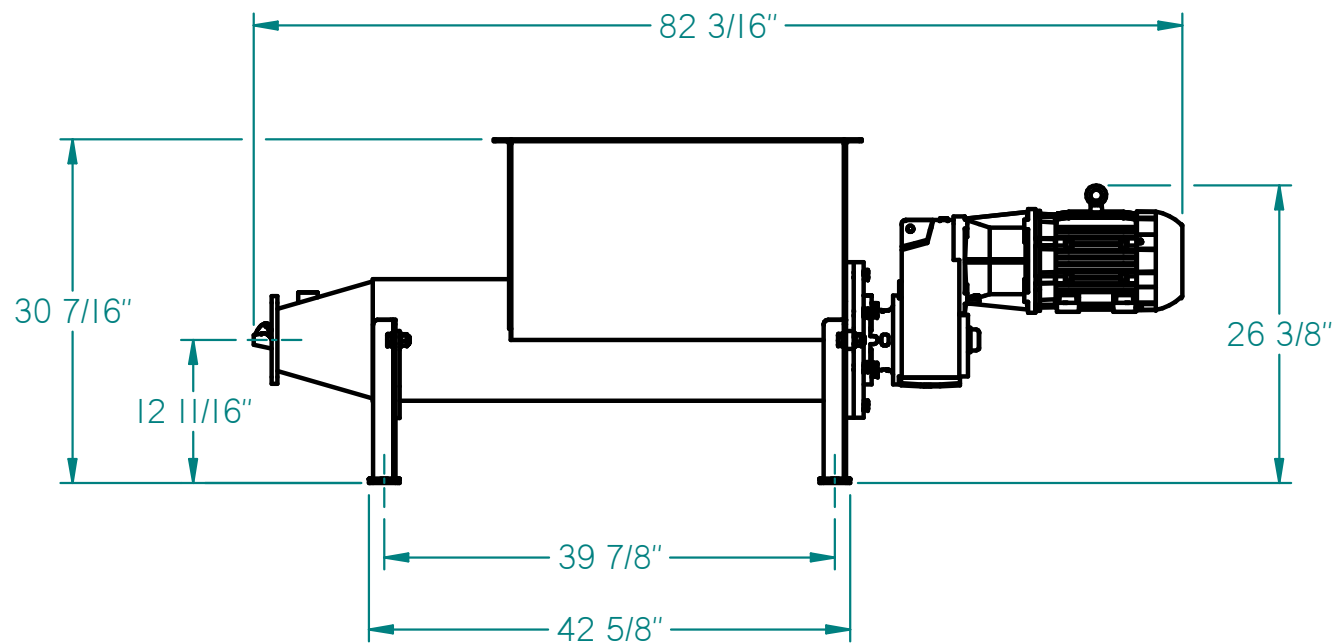
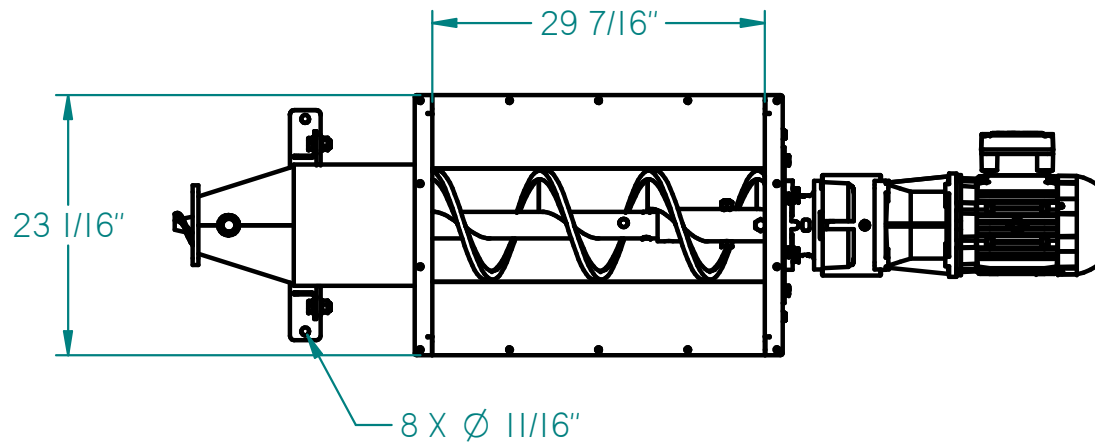
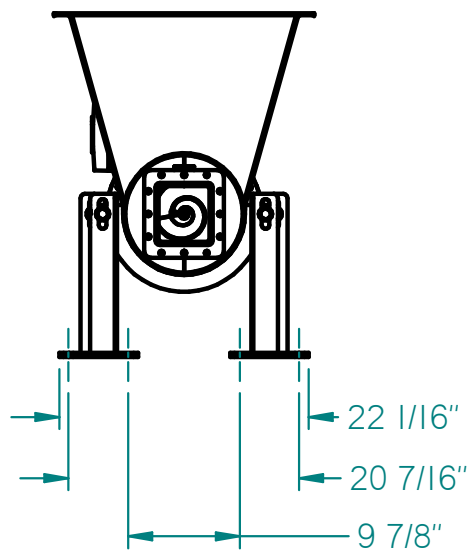
SHEET 1 OF 1

SIZE
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DWG. NO.

SD-004-950

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TEL: 612-435-7300
FAX: 612-435-7301



BÖRGER.

Model: CL390 Auger
Gear: Nord SK3282SCPVL-180TC
Power: 5 HP

ALL DIMENSIONS IN INCHES
UNLESS OTHERWISE NOTED

TOLERANCES ± 1/2"

DO NOT SCALE DRAWING

DRAWN: MLindquist 04/23/21

CHECKED:

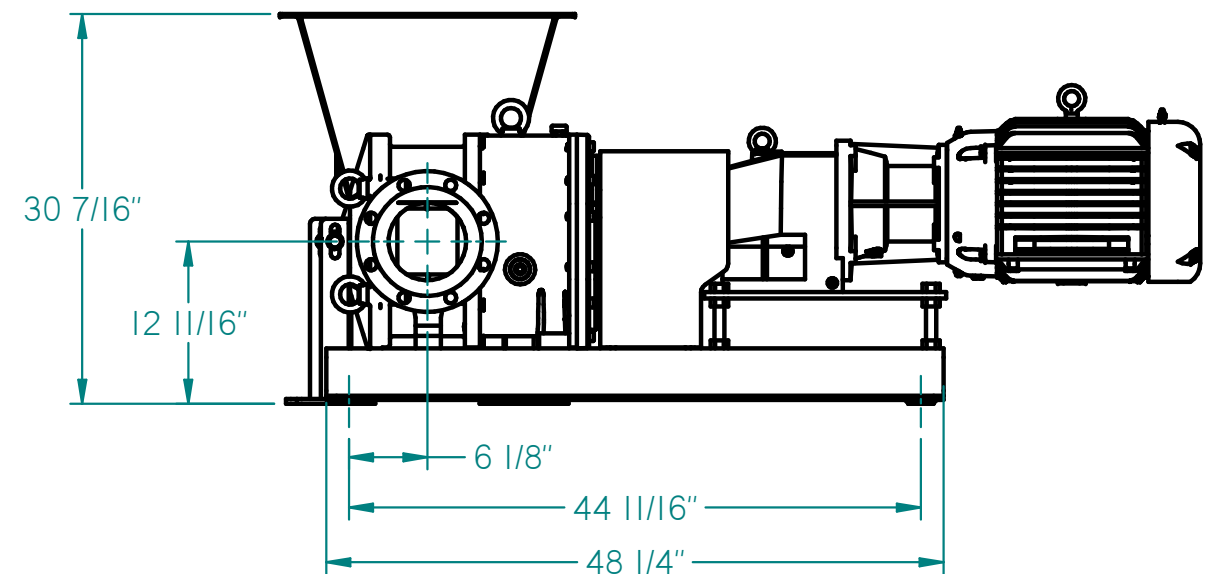
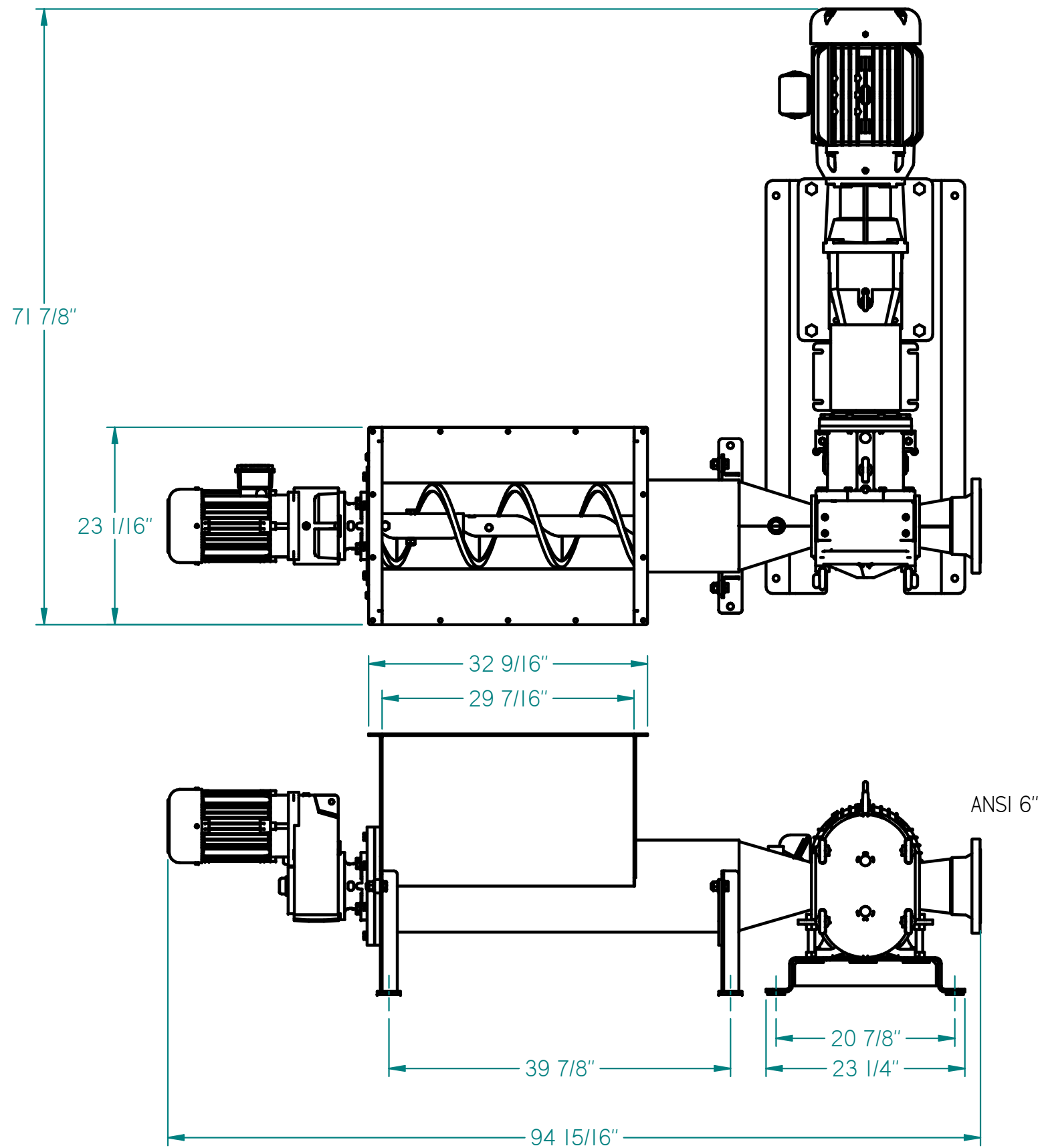
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SD-004-880

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	2860 Water Tower Place Chanhassen, MN 55317 TEL: 612-435-7300 FAX: 612-435-7301			
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED		NAME	DATE	Model: CL390 / CL390 Auger Gear: Nord - In-Line SK42-250TC; SK3282SCPVL-112MP/4 Power: 15 HP VEM2333T
	DRAWN	MLindquist	06/05/18	
TOLERANCES ± 1/2"	CHECKED			SIZE B
DO NOT SCALE DRAWING	SHEET 1 OF 1			
				REV 0

DATA SHEET

Borger Thick Feedstock
Pump Motors



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 Explosion-proof Motor NEMA Premium Efficiency Three-Phase
Product code : 14284619
Catalog # : 01018XT3E215TC

Frame	: L215TC	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 28.1-25.4/12.7 A	Protection degree	: IP55
L. R. Amperes	: 183-165/82.5 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code H)	Mounting	: F-1
No load current	: 9.48-11.0/5.50 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1765 rpm	Noise level ²	: 58.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 29.8 ft.lb	Approx. weight ³	: 229 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	90.2	91.0	91.7	Max. traction	: 389 lb
Power Factor	0.00	0.62	0.75	0.81	Max. compression	: 618 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 2RS	6207 2RS
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	0 h	0 h
Lubricant amount	:	0 g	0 g
Lubricant type	:	Mobil Polyrex EM	

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 7 Revision		
Checked by				
Date	04/01/2021			