	Technical Data Vertical Multistage - SBN 120-2-1 3PH NEMA	Revision no.	Page: 1

	Receiver	From
Company name		
Respons. Department		
Person in charge		
Phone number		
Fax no		
E-mail address		

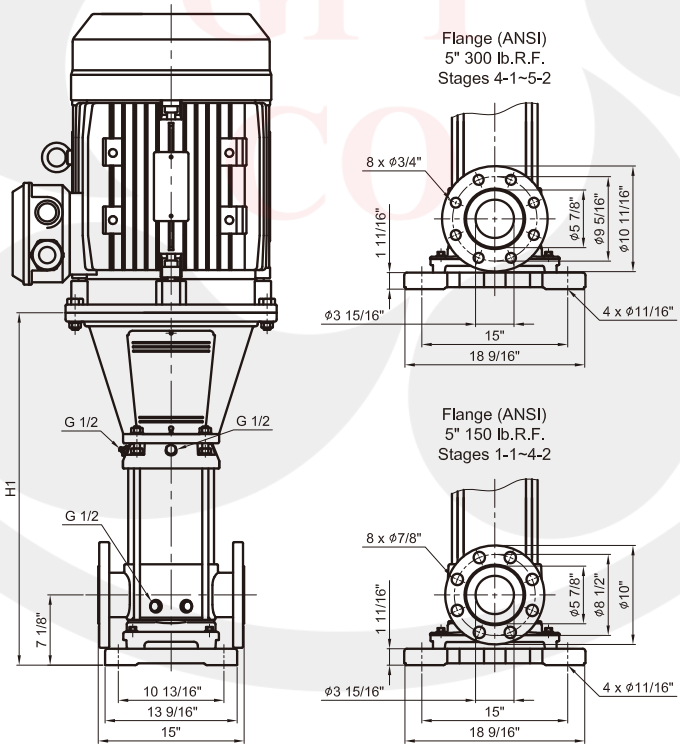


Brand: G.P.T.CO

Model: SBN 120-2-1 3PH

Max. Operating Pressure		Stage	Max. inlet Pressures
Stage	flange(ANSI)		
SBN 120		SBN 120	
(1-1)-(5-2)	435 Psi	(2-2)-3	217 Psi

Dimensions:



Pump type	Recommend motor of HP			SBN		
	P2			NEMA Frame	Dimension[inch]	Weights[lbs]
	[HP]	[kW]	[PH]		ANSI flange	ANSI flange
					H1	
SBN 120-2-1	40	30	3	286TSC	39.07	237.3

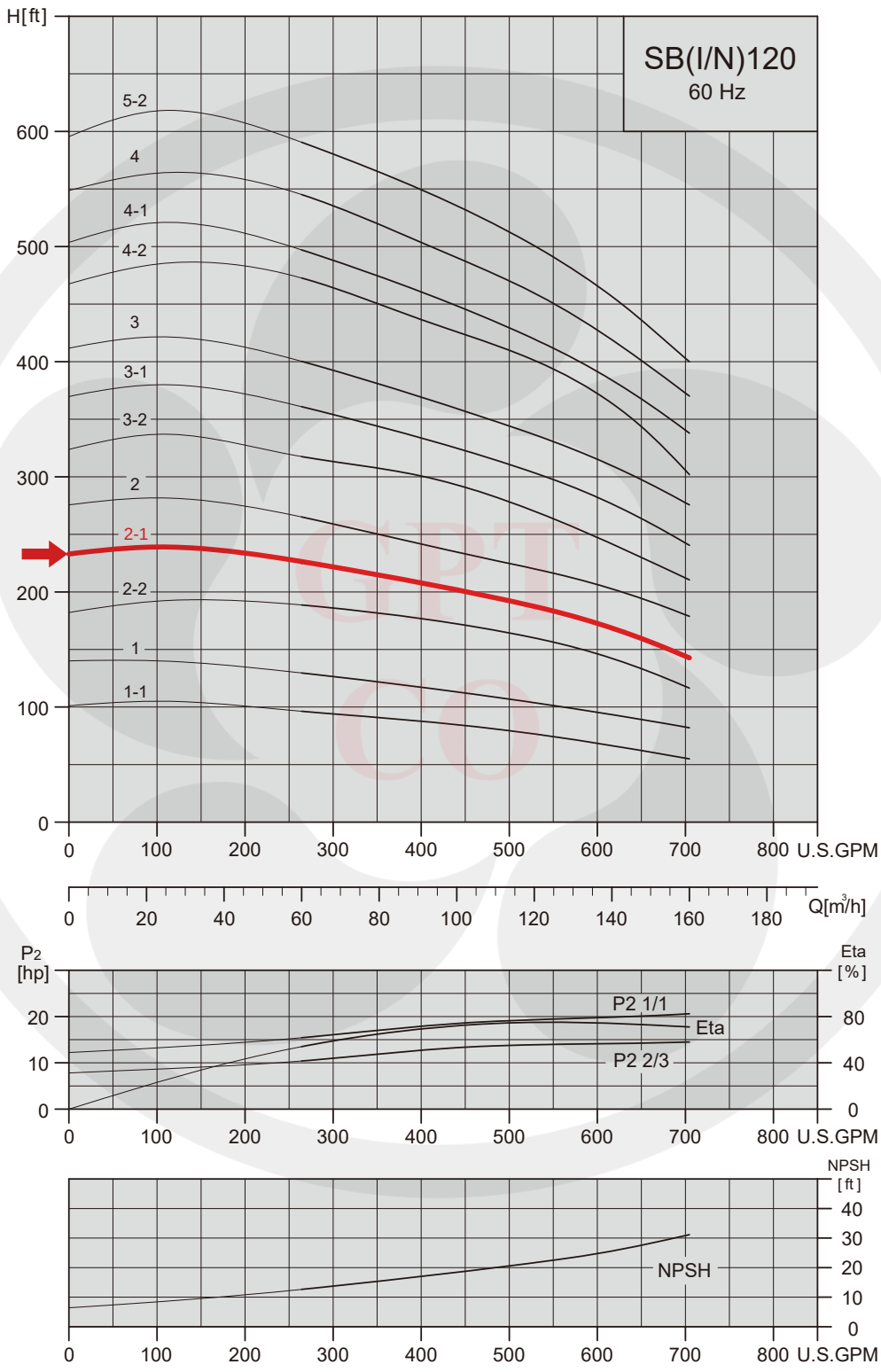
Project	Project ID	Created by	Created on	Last update

Technical Data

Vertical Multistage - SBN 120-2-1 3PH NEMA

Revision no.	Page:
	2

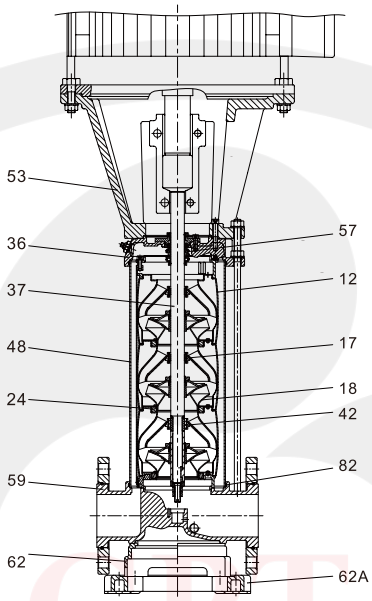
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SBI/N-120,150



Construction

Pos.	Name	Material	SBN 120,150
			Standard
			USA
36	Pump head	Cast Iron	N/A
		Stainless steel	AISI 316
53	Motor Bracket (15HP~60HP)	Cast Iron	ASTM 35B
	Motor Bracket (75HP~100HP)	Cast Iron	ASTM 65-45-12
17	Bearing ring	PTFE	
18	Impeller	Stainless steel	AISI 316
37	Shaft	Stainless steel	AISI 316
48	Outer sleeve	Stainless steel	AISI 316
82	O-ring for outer sleeve	EPDM	
12	Chamber	Stainless steel	AISI 316
24	Neck ring	PTFE	
59	Base	Cast Iron	N/A
		Stainless steel	AISI 316
62	Base plate	Cast Iron	ASTM 65-45-12
62A	Base plate	Cast Iron	ASTM 65-45-12
57	Mechanical seal	Cartridge type	
42	Bottom bearing ring	SiC / SiC	

Project	Project ID	Created by	Created on	Last update

DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W40 NEMA Premium Efficiency (Derating)
Product code	: 14496989

Frame	: 284/6T	Locked rotor time	: 8 s (hot) 14 s (cold)
Output	: 40 HP (30 kW)	Temperature rise[4]	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l
Rated current	: 94.8/47.4 A	Protection degree	: IP23
L. R. Amperes	: 616/308 A	Cooling method	: IC01 - ODP
LRC	: 6.5 Code G	Mounting	: B34R(D)
No load current	: 30.0/15.0 A	Rotation[1]	: Both
Rated speed	: 3540 rpm	Noise level[2]	: 73 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 59.3 ft.lb	Approx. weight[3]	: 370 lb
Locked rotor torque	: 200 %	Design	: B
Pull up torque	: 170 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 2.02 sq.ft.lb		

Output	50%	75%	100%
Efficiency (%)	91.7	92.4	92.4
Power Factor	0.75	0.83	0.86

Load type	: -
Load torque	: -
Load inertia (J=GD²/4)	: -

	Drive end	Non drive end
Bearing type	6311-Z-C3	6211-Z-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	18 g	11 g
Lubricant type	MOBIL POLYREX EM	

Notes:

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
7.91	6.52	5.86	3.78	2.43	1.53	0.99

Standards

Specification	: MG1 - Part 10	Vibration	: MG1 - Part 7
Test	: MG1 - Part 12	Tolerance	: MG1 - Part 12
Noise	: MG1 - Part 9		

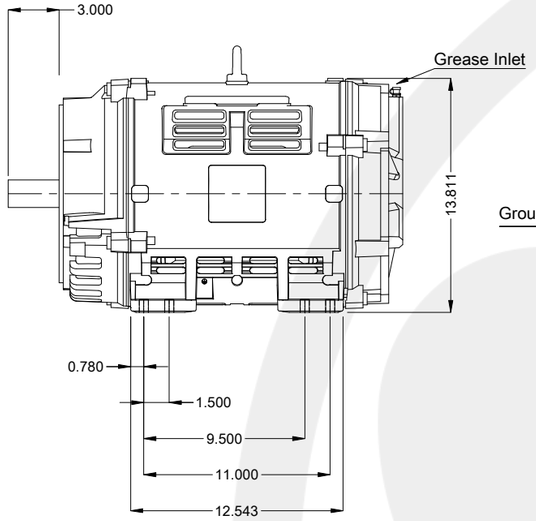
This revision replaces and cancel the previous one, which must be eliminated..
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +0dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.
(4) At 100% of full load.

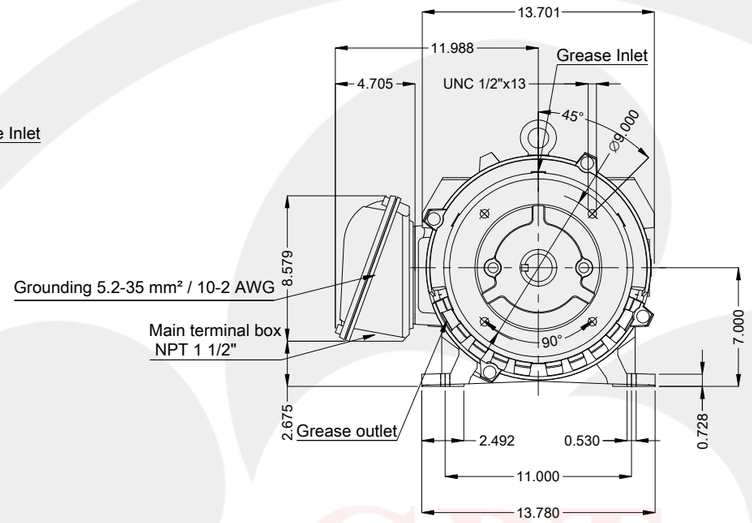
These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.

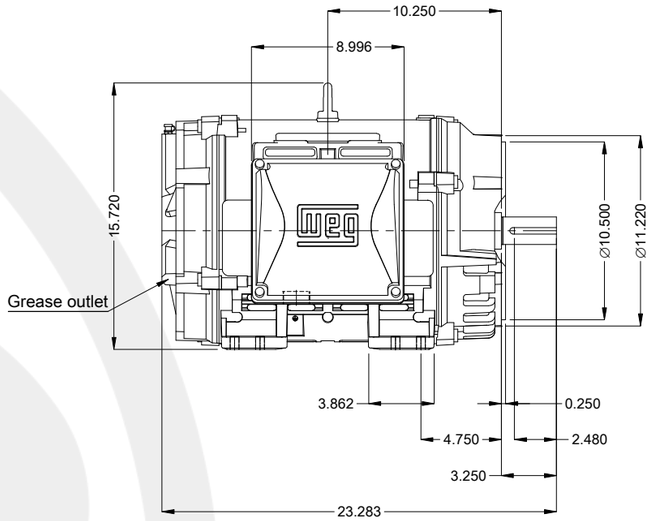
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	2026/10/20		1/1	0

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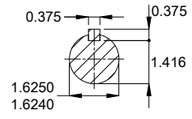






Bearing cap
Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B34D

DE Shaft End



40 HP 02 Poles 60 Hz | A

Scale 1 : 9

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W40 NEMA PREM. EFF.
FRAME 284/6TSC IP23 ODP

PREVIEW

WDD | 00

SHEET 1 / 1

Dimensions in inches

A3

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MADE IN BRAZIL
14496989

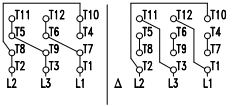
MODEL 04036OT3E286TSC-W40

Inverter Duty Motor
IEC 60034-1

60Hz: For use on PWM: VT 1000:1, CT 3:1, 1.00SF

Mod.TO1#FOXON
CC029A

PH3 Fr. 284/6TSC DUTY CONT. (S1) ODP(IC01) IP23 DES B(N) Code G
334lb 1000m.a.s.l. INS cl. F DT 80K AMB 40°C SF 1.25//1.00



V		Hz	kW	HP	RPM	A		SFA		PF	IE code	NEMA NOM EFF η 100%/75%/50%
230ΔΔ	460Δ	60	30	40	3540	94.8	47.4	119	59.3	0.86	IE3	92.4/92.4/91.7
380Δ	–	50	22	30	2950	41.9	–	41.9	–	0.86	IE3	92.8/91.4/90.0
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–

→ 6311-Z-C3 (18g)
→ 6211-Z-C3 (11g)

MOBIL POLYREX EM (20000h)