	Technical Data Vertical Multistage - SBN 90-2 3PH NEMA	Revision no.	Page: 1

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

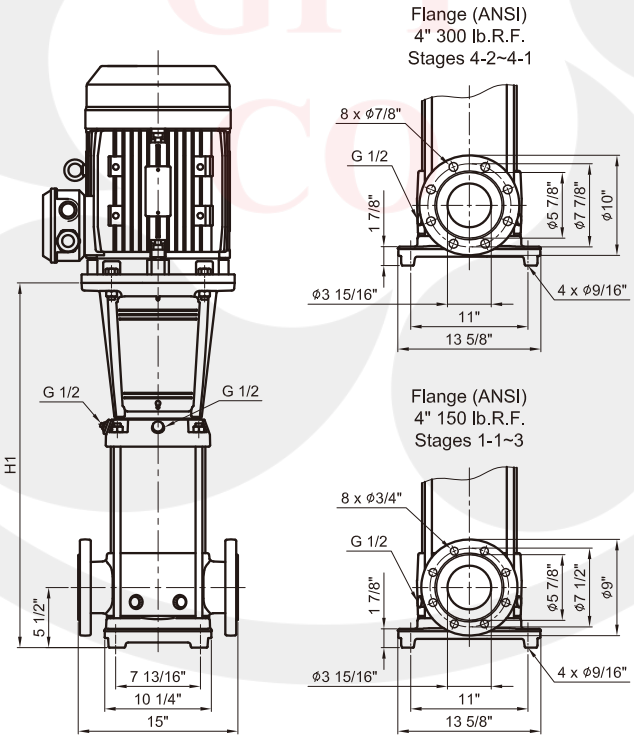


Brand: G.P.T.CO

Model: SBN 90-2 3PH

Max. Operating Pressure		Stage	Max. inlet Pressures
Stage	flange(ANSI)		
SBN 90		SBN 90	
(1-1)-3	232 Psi	(2-2)-(4-1)	217 Psi

Dimensions:

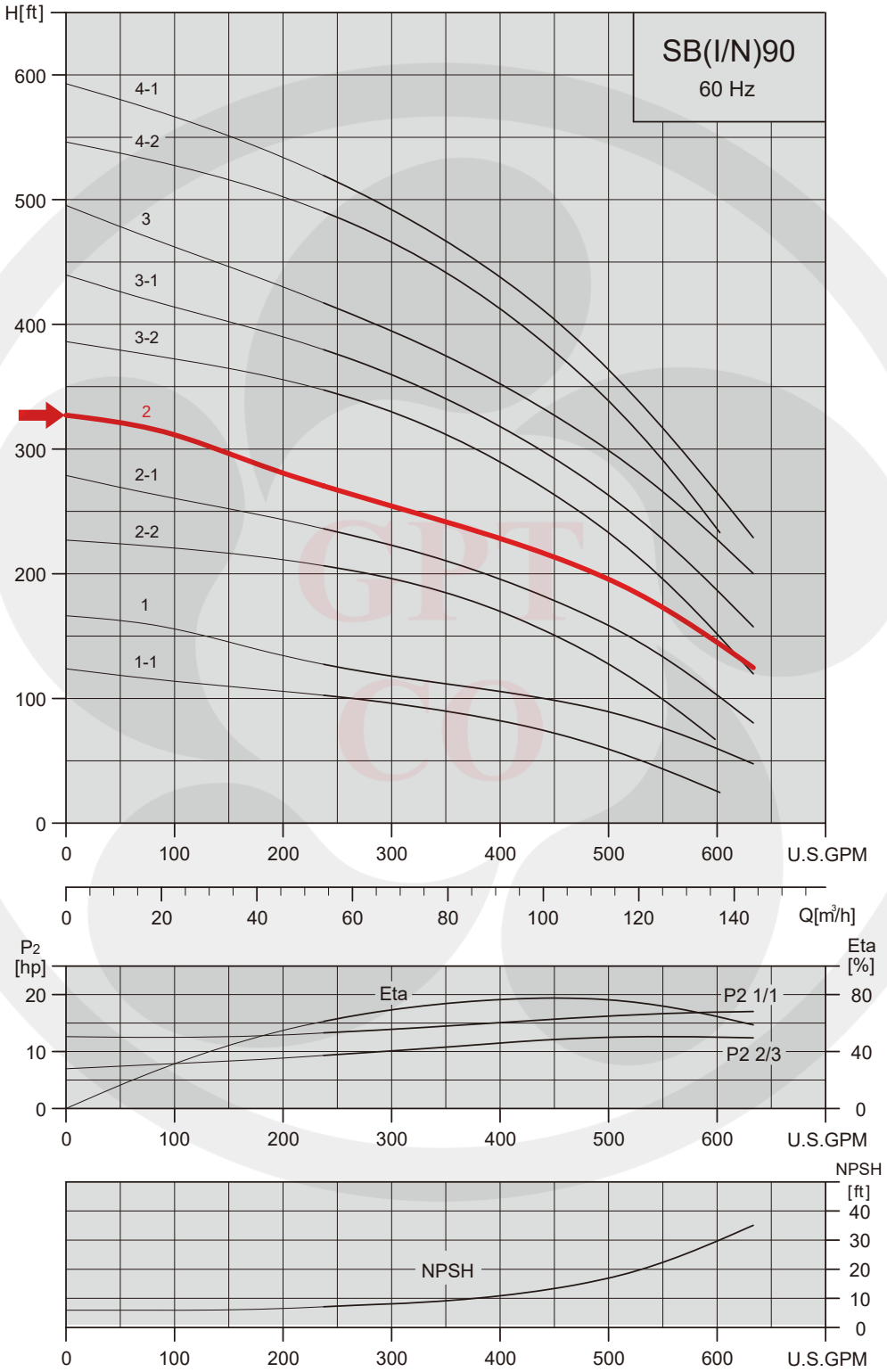


Pump type	Recommend motor of HP			SBN		
	P2			NEMA Frame	Dimension[inch]	Weights[lbs]
	[HP]	[kW]	[PH]		ANSI flange	ANSI flange
					H1	
SBN 90-2	40	30	3	286TSC	30.34	172.7

Project	Project ID	Created by	Created on	Last update

	Technical Data Vertical Multistage - SBN 90-2 3PH NEMA	Revision no.	Page: 2

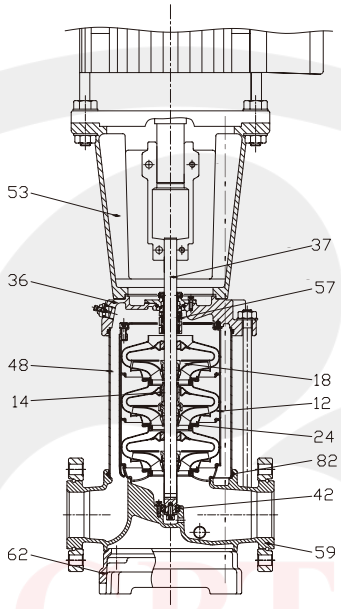
	Receiver	From
Company name		
Respons. Department		
Person in charge		
Phone number		
Fax no		
E-mail address		



Project	Project ID	Created by	Created on	Last update

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

SBI(N)-32,45,64,90



Construction

Pos.	Name	Material	SBN 32,45,64,90
			Standard
			USA
36	Pump head	Cast Iron	
		Stainless steel	AISI 316
53	Motor Bracket	Cast Iron	ASTM 35B
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	Carbon Fiber+POB+PTFE	
59	Base	Cast Iron	N/A
		Stainless steel	AISI 316
62	Base plate	Cast Iron	ASTM 35B
57	Mechanical seal	Cartridge type	
14	Bearing ring		POB+Graphite+PTFE
42	Bottom bearing ring	Tungsten carbide/ Tungsten carbide	

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		

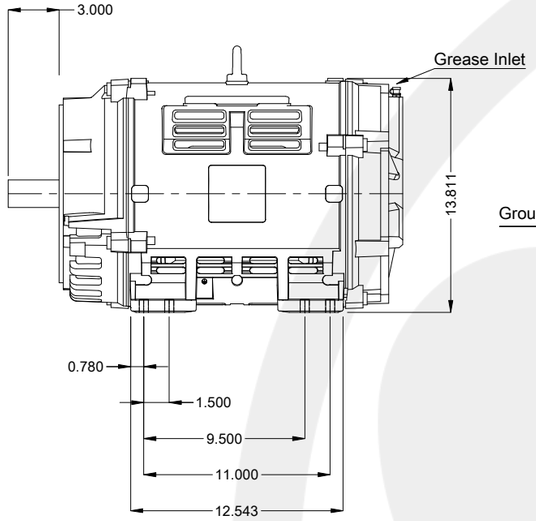
This revision replaces and cancel the previous one, which must be eliminated..
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +0dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.
(4) At 100% of full load.

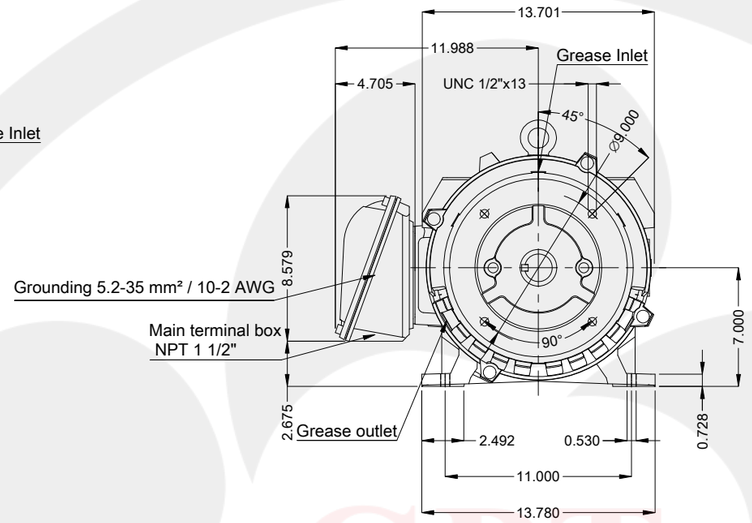
These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.

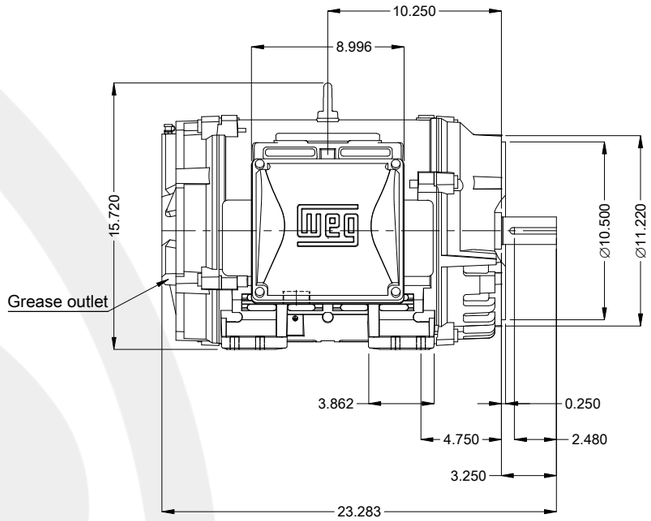
Rev.	Changes Summary	Performed	Checked	Date

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

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

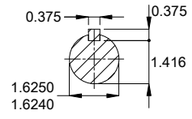






Bearing cap
Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B34D

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

WEG's property. Forbidden reproduction without previous authorization.

MADE IN BRAZIL
14496989

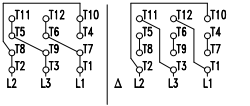
MODEL 04036OT3E286TSC-W40

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)