Technical Data
Vertical Multistage - SBN 45-4 3PH NEMA

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

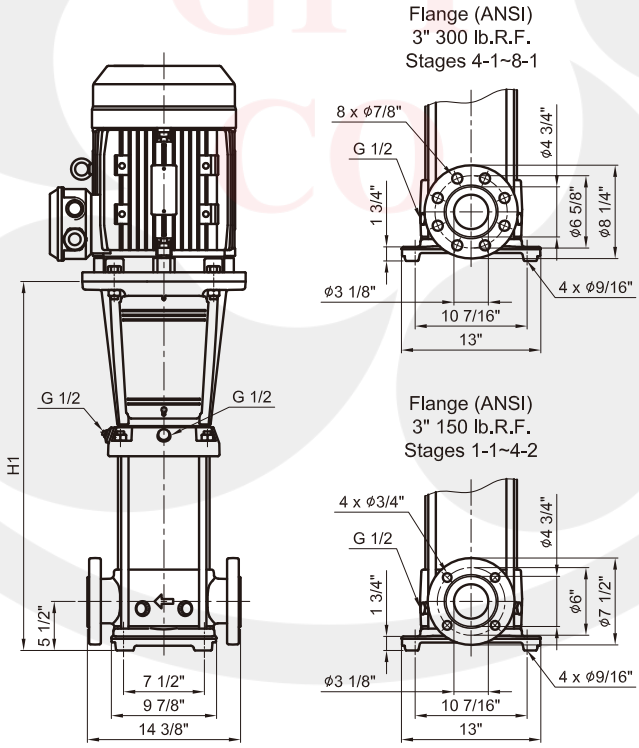


Brand: G.P.T.CO

Model: SBN 45-4 3PH

Max. Operating Pressure		Stage	Max. inlet Pressures
Stage	flange(ANSI)		
SBN 45		SBN 45	
(4-1)-(8-1)	435 Psi	(4-2)-(8-1)	217 Psi

Dimensions:



Pump type	Recommend motor of HP			SBN		
				NEMA Frame	Dimension[inch]	Weights[lbs]
	P2				ANSI flange	ANSI flange
	[HP]	[kW]	[PH]		H1	
SBN 45-4	30	22	3	286TSC	35.79	172.2

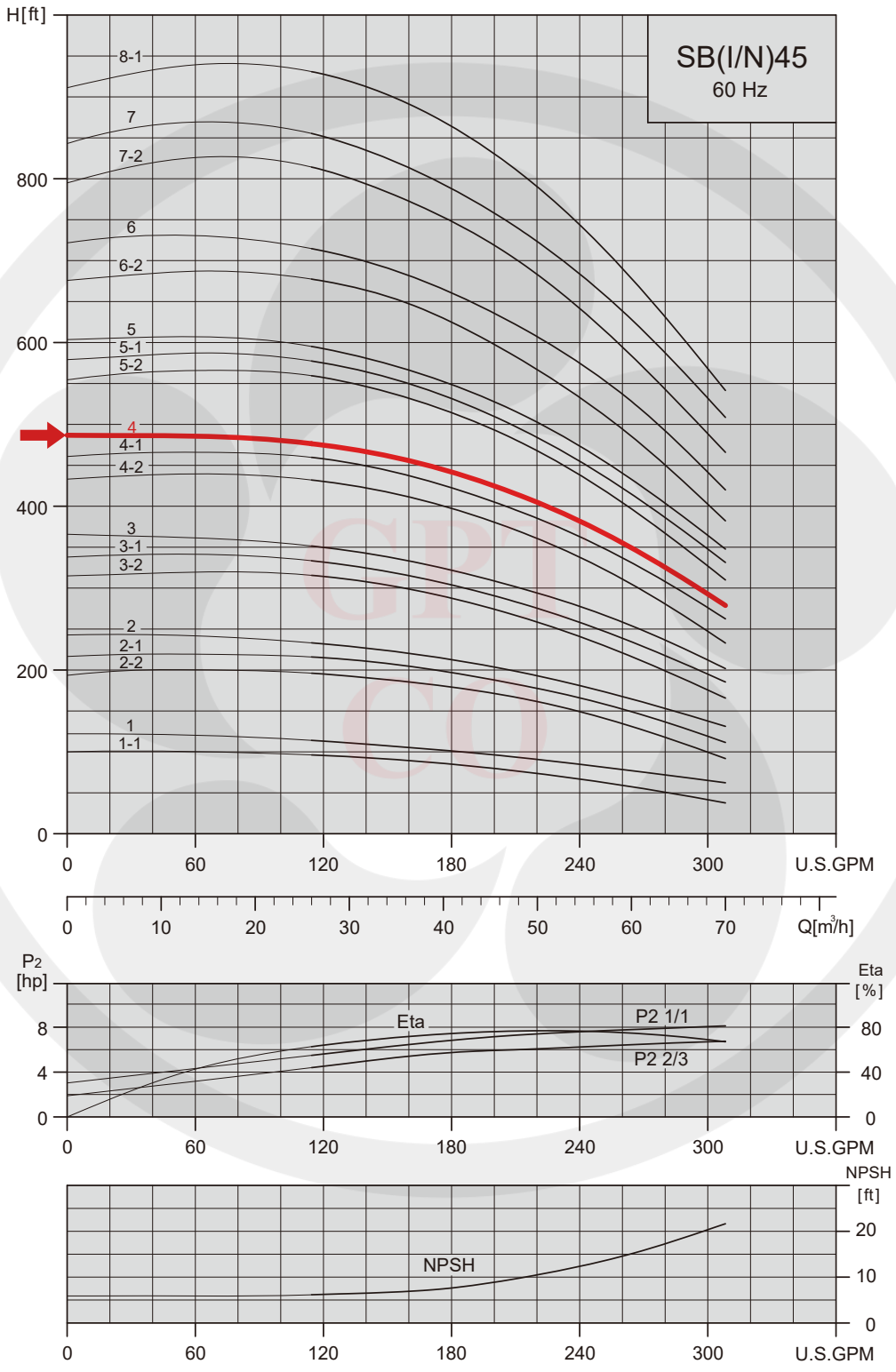
Project	Project ID	Created by	Created on	Last update

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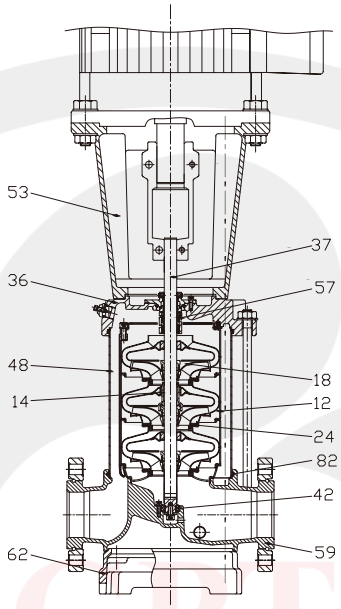
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SBI(N)-32,45,64,90



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	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 13472721

Frame	: 286T	Locked rotor time	: 15 s (hot) 27 s (cold)
Output	: 30 HP (22 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	: 68.4/34.2 A	Protection degree	: IP55
L. R. Amperes	: 431/216 A	Cooling method	: IC411 - TEFC
LRC	: 6.3 Code G	Mounting	: V18
No load current	: 18.2/9.10 A	Rotation[1]	: Both
Rated speed	: 3545 rpm	Noise level[2]	: 72 dB(A)
Slip	: 1.53 %	Starting method	: Direct On Line
Rated torque	: 44.4 ft.lb	Approx. weight[3]	: 392 lb
Locked rotor torque	: 200 %	Design	: B
Pull up torque	: 160 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 3.37 sq.ft.lb		

Output	50%	75%	100%
Efficiency (%)	91.7	91.7	91.7
Power Factor	0.80	0.86	0.88

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

	Drive end	Non drive end
Bearing type	6311-C3	6211-C3
Lubrication interval	7000 h	8000 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)
8.61	6.74	5.87	4.17	2.48	1.51	0.91

Standards

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

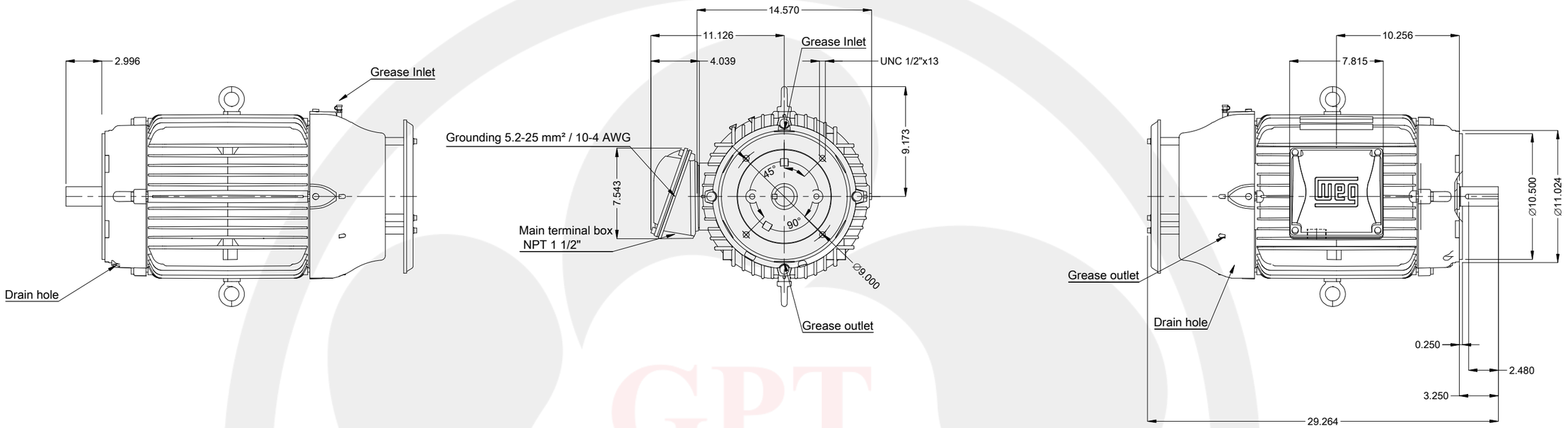
This revision replaces and cancel the previous one, which must be eliminated..
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +0dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.
(4) At 100% of full load.

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

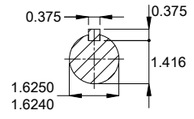
Performed by				
Checked by			Page	Revision
Date	2026/10/20		1/1	0

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Without vertical jackscrews
With drip cover
Color RAL 5009
Painting plan 203A
Mounting NEMA W-6
Mounting V18

DE Shaft End



30 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 W22 NEMA PREM. EFF.
FRAME 286TSC IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in inches

A3

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WEG NEMA PREMIUM W22

MODEL 03036ET3ER286TSC-W22

MADE IN BRAZIL
13472721

Inverter Duty Motor
Severe Duty

PH3 60Hz	Fr. 286TSC 1000m.a.s.l.	IP55 TEFC	384lb
V 230/460		A 68.4/34.2	
HP 30		kW 22	
SF 1.25		SFA 85.5/42.8	
RPM 3545		PF 0.88	
AMB 40°C		INS cl. F DT80K	NEMA NOM EFF 91.7%
DUTY CONT.		DES B Code G	

30HP 22kW 50Hz 380V 42.0A 2910RPM SF 1.00 EFF 89.5%

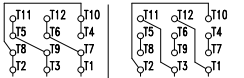
c UL us LISTED 3PT9

FOR SAFE AREA
Mod.TE1BFOXON
CC029A

c CSA us Energy Verified

Class I, Div 2, Gr A, B, C, D, 1.15SF - T3
Class I, Zone 2, IIC, 1.15SF - T3
Class II, Div 2, Gr F, G - T4

60Hz: For use on PWM: Gr. A, B, C, D, F,
VT 1000:1, CT 20:1, 1.00SF - T3A



→ 6311-C3 (18g)

→ 6211-C3 (11g)

MOBIL POLYREX EM (7000h)