	Technical Data Vertical Multistage - SBN 150-4-2 3PH NEMA	Revision no.	Page: 1

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

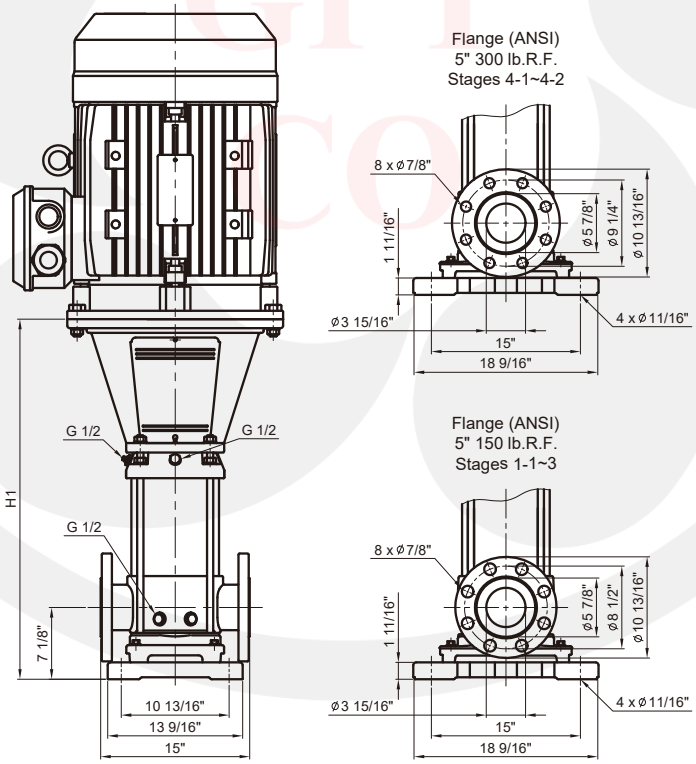


Brand: G.P.T.CO

Model: SBN 150-4-2 3PH

Max. Operating Pressure		Stage	Max. inlet Pressures
Stage	flange(ANSI)		
SBN 150		SBN 150	
(1-1)-(4-1)	435 Psi	(3-2)-(4-1)	290 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 150-4-2	100	75	3	405TSC	51.67	385.7

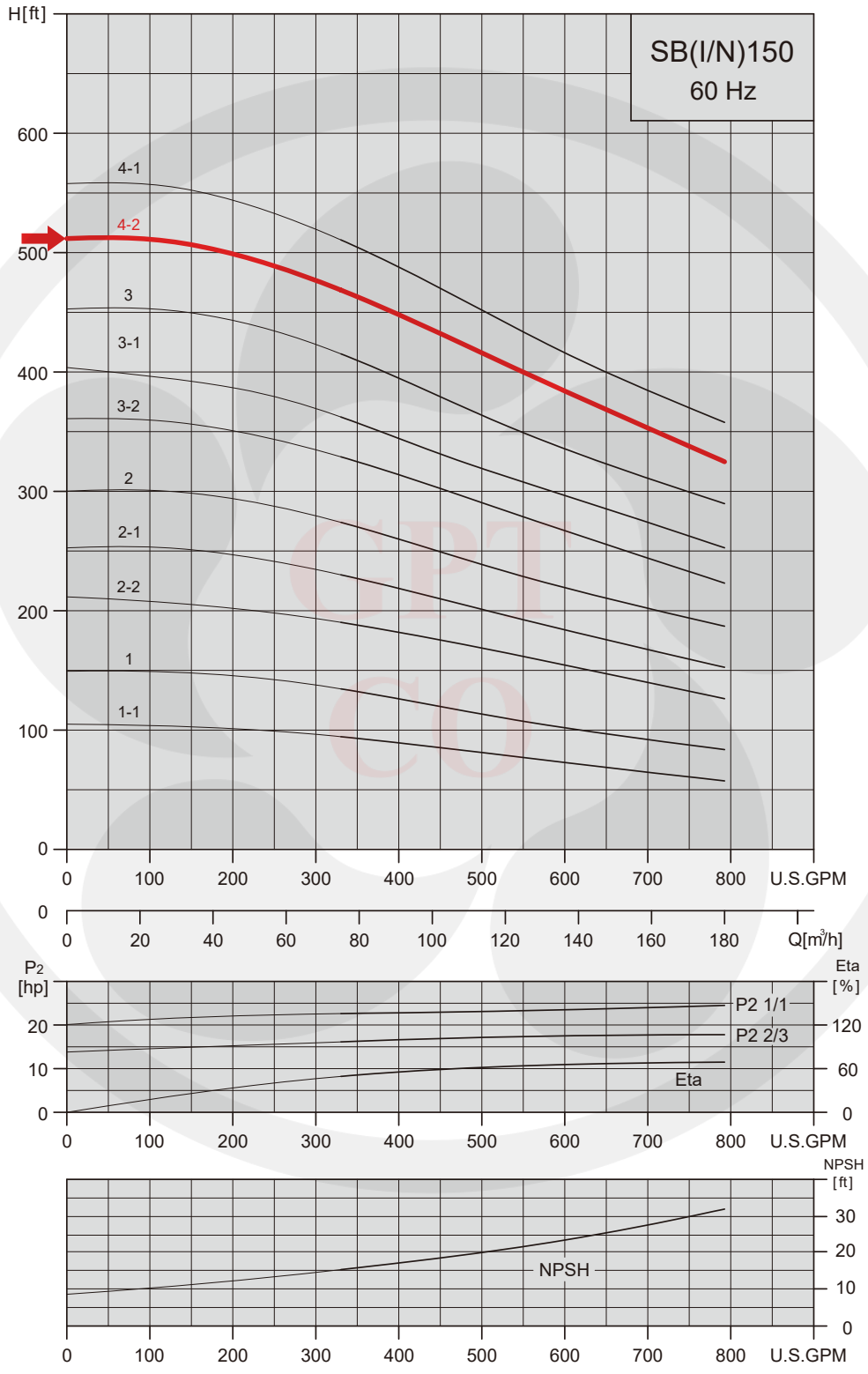
Project	Project ID	Created by	Created on	Last update

Technical Data

Vertical Multistage - SBN 150-4-2 3PH NEMA

Revision no.	Page:
	2

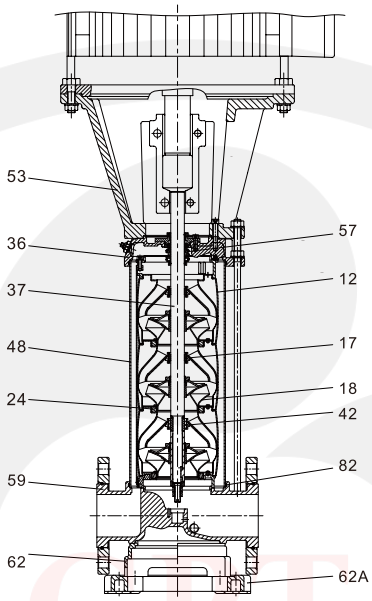
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SBI/N-120,150



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	: Special Motor
Product code	: 11165996

Frame	: 404/5TS
Output	: 100 HP (75 kW)
Poles	: 2
Frequency	: 60 Hz
Rated voltage	: 460-230 V
Rated current	: 112-224 A
L. R. Amperes	: 728-1456 A
LRC	: 6.5
No load current	: 26.0-52.0 A
Rated speed	: 3545 rpm
Slip	: 1.53 %
Rated torque	: 148 ft.lb
Locked rotor torque	: 240 %
Pull up torque	: 160 %
Breakdown torque	: 260 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 13.2 sq.ft.lb

Locked rotor time	: 14 s (hot) 25 s (cold)
Temperature rise[4]	: 80 K
Duty cycle	: S1
Ambient temperature	: -20 °C to +40 °C
Altitude	: 1000 m.a.s.l
Protection degree	: IP55
Cooling method	: IC411 - TEFC
Mounting	: B3R(D)
Rotation[1]	: Both
Noise level[2]	: 79 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 1109 lb
Color	: RAL 5009
Design	: B

Output	50%	75%	100%
Efficiency (%)	93.0	94.1	94.1
Power Factor	0.83	0.88	0.89

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

	Drive end	Non drive end
Bearing type	6314-C3	6314-C3
Lubrication interval	4000 h	4000 h
Lubricant amount	27 g	27 g
Lubricant type	MOBIL POLYREX EM	

Notes:

Standards

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

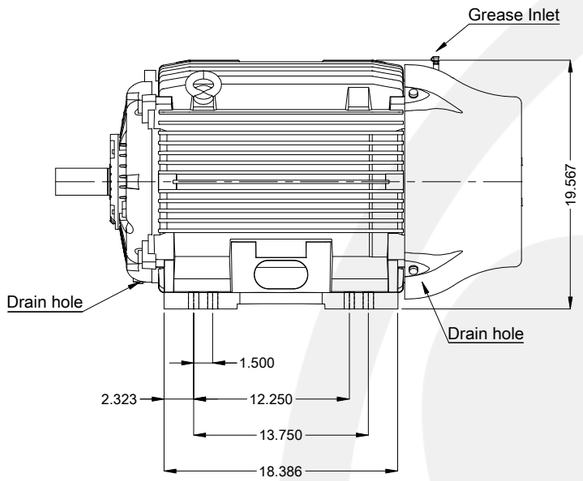
This revision replaces and cancel the previous one, which must be eliminated..
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +0dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.
(4) At 100% of full load.

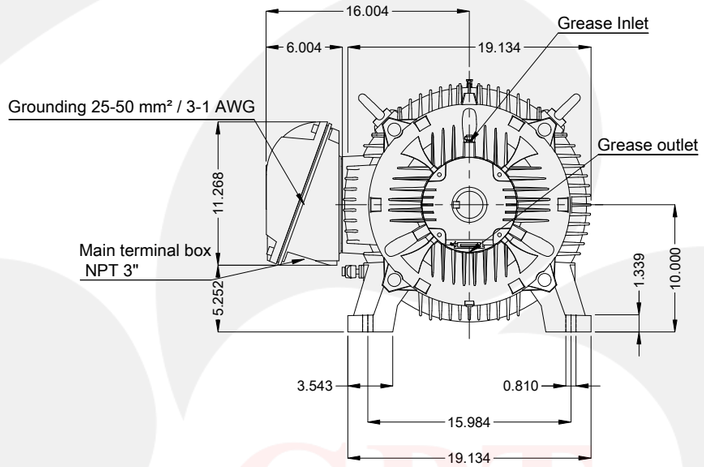
These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.

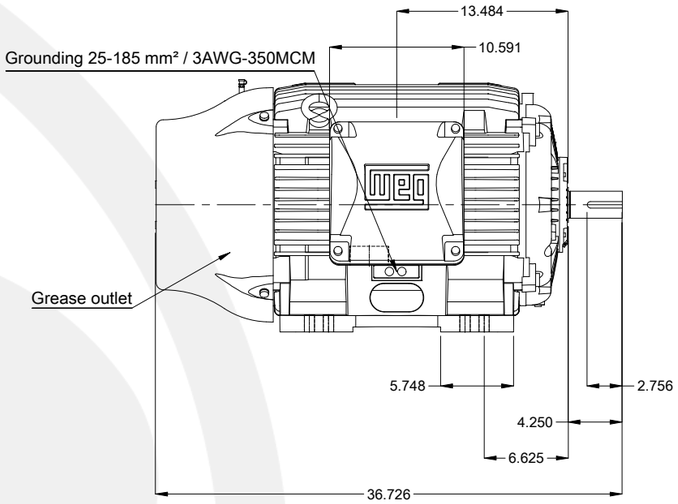
Rev.	Changes Summary	Performed	Checked	Date
				17/03/2022

Performed by	dmendes	77757/2022	
Checked by	AUTOMATICO	Page	Revision
Date	17/03/2022	1/1	0

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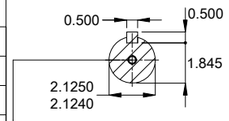
Color RAL 5009

Painting plan 203A

Mounting NEMA F-1

Mounting B3R(D)

DE Shaft End



DUNC 3/4"-10 WEG WPR-7339

100 HP 02 Poles 60 Hz

A

Scale 1 : 12

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 404/5TS IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in inches

A3

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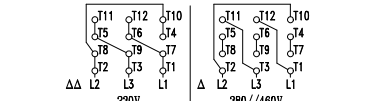
MODEL 10036ET3E405TS-W22

FOR SAFE AREA
Mod.TE1BFOXON
CC029A

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

Inverter Duty Motor
Severe Duty

PH3 60Hz	Fr. 404/5TS	1000m.a.s.l.	IP55 TEFC 1141lb
V 230/460		A 224/112	
HP 100		kW 75	
SF 1.25		SFA 280/140	
RPM 3545		PF 0.89	
AMB 40°C		INS cl. F DT80K	NEMA NOM EFF 94.1%
DUTY CONT.		DES B Code G	



→ 6314-C3 (27g)
→ 6314-C3 (27g)

MOBIL POLYREX EM (4000h)

75HP 55kW 50Hz 380V 99.6A 2955RPM SF 1.00 EFF 94.3% (IE3)