Technical Data
Vertical Multistage - SBN 45-2 3PH NEMA

Revision no.	Page:
	1

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

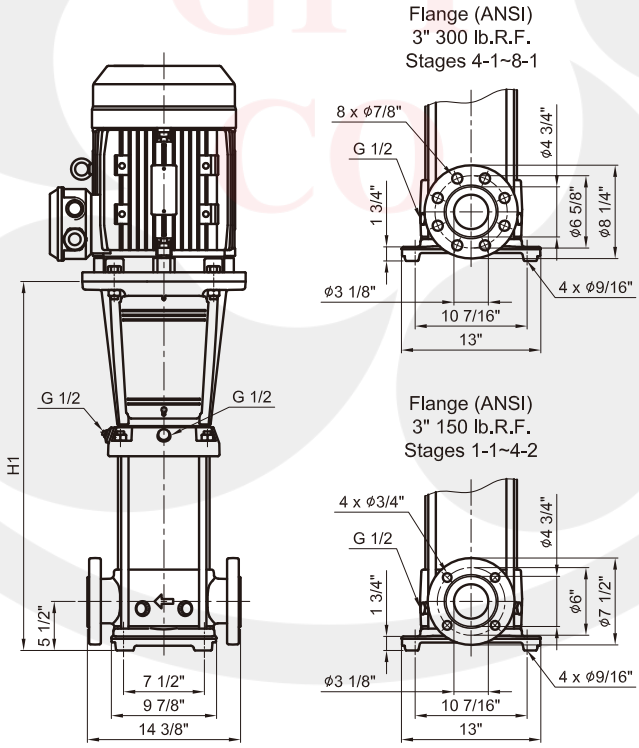


Brand: G.P.T.CO

Model: SBN 45-2 3PH

Max. Operating Pressure		Stage	Max. inlet Pressures
Stage	flange(ANSI)		
SBN 45		SBN 45	
(1-1)-(4-2)	232 Psi	(2-2)-3	145 Psi

Dimensions:

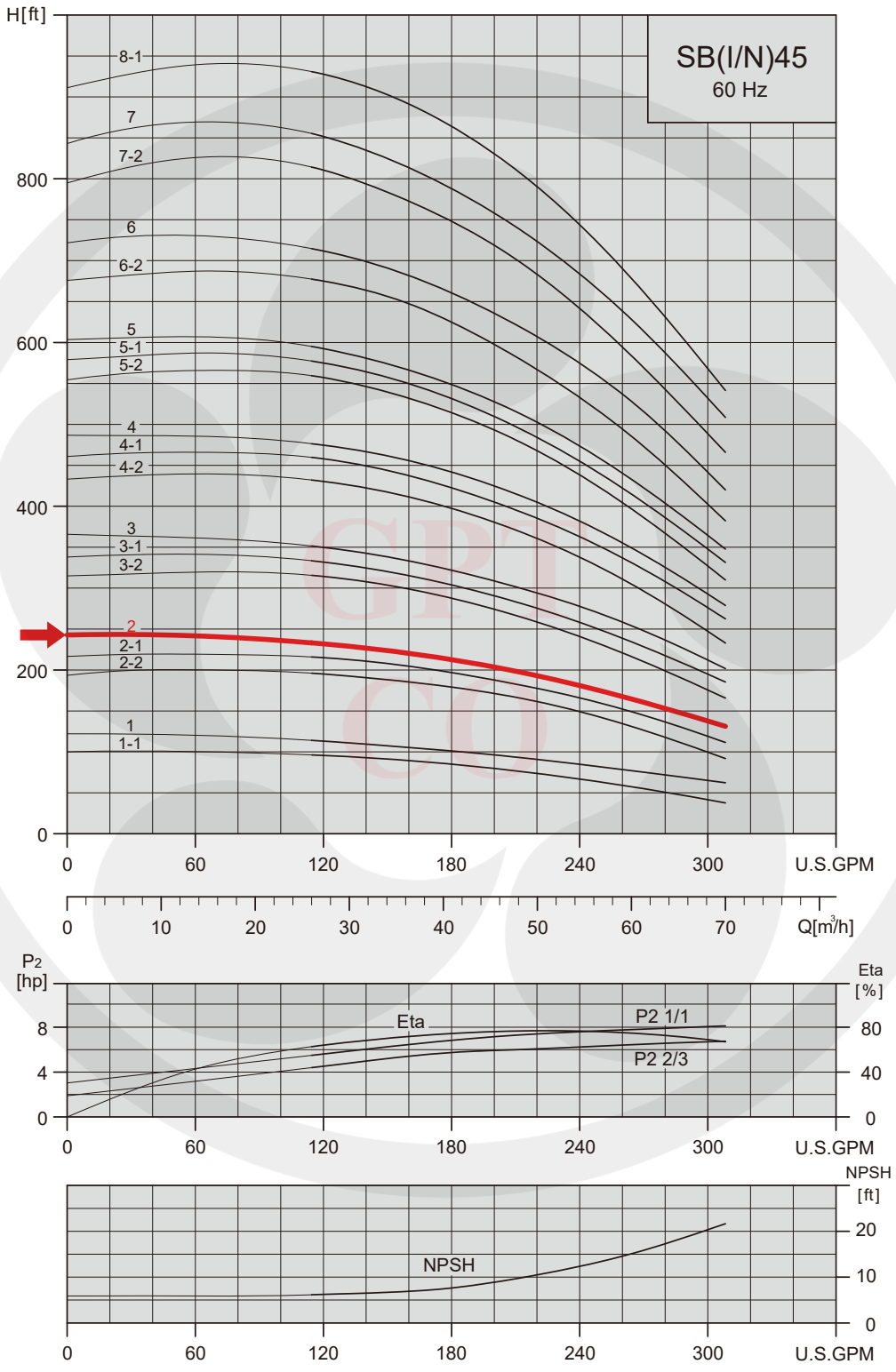


Pump type	Recommend motor of HP			SBN		
	P2			NEMA Frame	Dimension[inch]	Weights[lbs]
	[HP]	[kW]	[PH]		ANSI flange H1	ANSI flange
SBN 45-2	15	11	3	254TC	29.49	153.8

Project	Project ID	Created by	Created on	Last update

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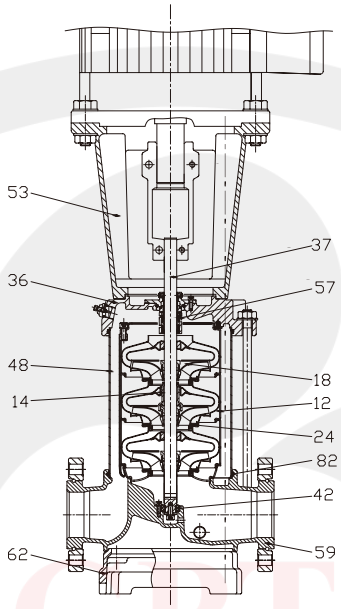
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SBI(N)-32,45,64,90



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	: W01 - TEFC - Nema Premium Efficiency Derating
Product code	: 13041121

Frame	: 254/6T	Locked rotor time	: 14 s (hot) 25 s (cold)
Output	: 15 HP (11 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	: 34.8/17.4 A	Protection degree	: IP55
L. R. Amperes	: 237/118 A	Cooling method	: IC411 - TEFC
LRC	: 6.8 Code G	Mounting	: F-1/B14R(D)
No load current	: 10.4/5.20 A	Rotation[1]	: Both
Rated speed	: 3525 rpm	Noise level[2]	: 75 dB(A)
Slip	: 2.08 %	Starting method	: Direct On Line
Rated torque	: 22.3 ft.lb	Approx. weight[3]	: 175 lb
Locked rotor torque	: 200 %	Design	: B
Pull up torque	: 150 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.8709 sq.ft.lb		

Output	50%	75%	100%
Efficiency (%)	89.5	91.0	91.0
Power Factor	0.73	0.83	0.87

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

	Drive end	Non drive end
Bearing type	6309-Z-C3	6208-Z-C3
Lubrication interval	15797 h	20000 h
Lubricant amount	13 g	8 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)
10.03	8.15	7.38	5.49	3.54	2.50	1.72

Standards

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

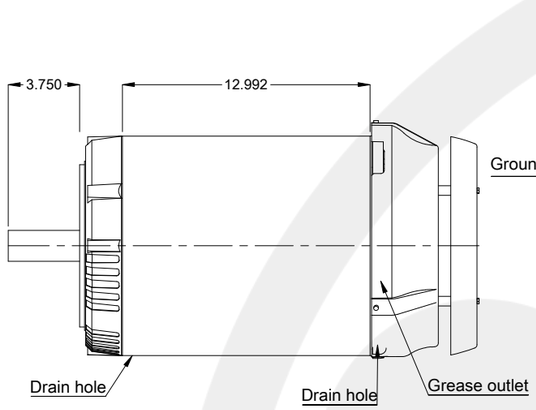
This revision replaces and cancel the previous one, which must be eliminated..
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +0dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.
(4) At 100% of full load.

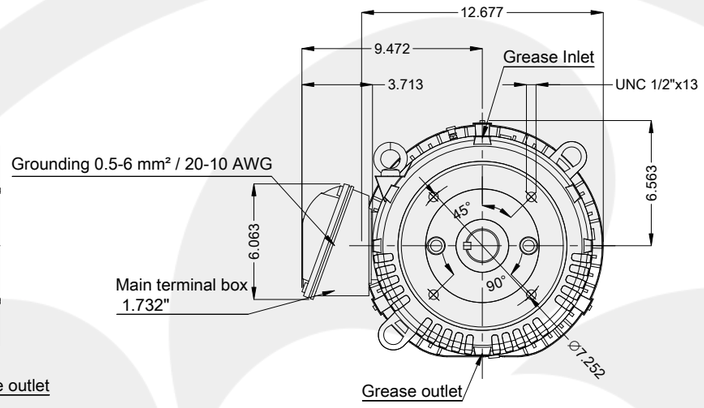
These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.

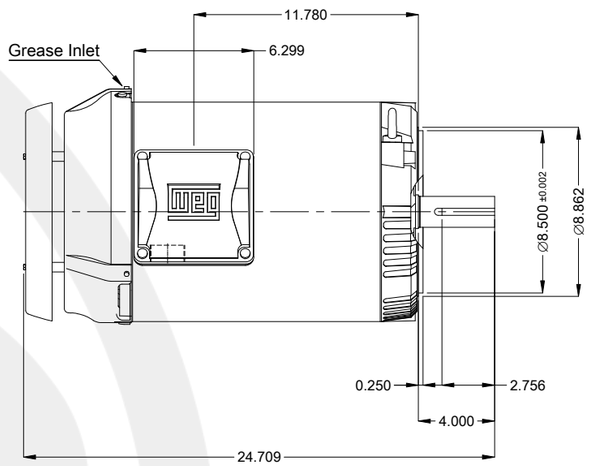
Rev.	Changes Summary	Performed	Checked	Date

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

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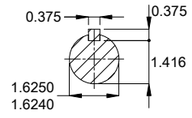






With drip cover
Color Munsell N 1 matte black
Painting plan 207N
Mounting MARKET F-1/B14R(D)
Mounting F-1/B14R(D)

DE Shaft End



15 HP 02 Poles 60 Hz | A

Scale 1 : 8

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

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF.
FRAME 254/6TC IP55 TEFC

PREVIEW
WDD 00
SHEET 1 / 1

Dimensions in inches

A3

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NEMA PREMIUM

C UL US LISTED 3PT9 FOR SAFE AREA

C SA US Energy Verified

MADE IN MÉXICO

MAT: 13041121 CC029A
W01.TE0IC0X0N
MODEL 01536ET3ER254TC-S

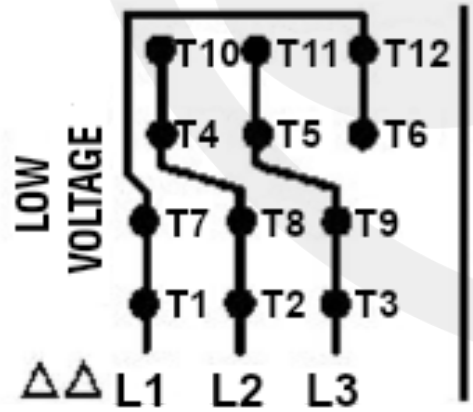
For 60Hz: Class I, Zone 2, IIC
Class I, Div.2, Gr. A,B,C,D - T3
Div 2 Inverter Duty (SF1.00)
CT 2:1/VT 1000:1

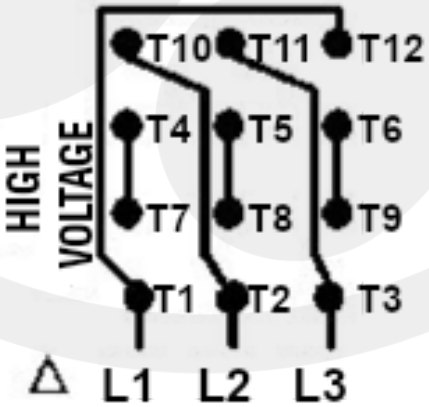
PH 3	Hz 60	HP	15
FR 254/6TC		kW	11
DUTY CONT.		V	230/460
ALT 1000 m.a.s.l		A	34.8/17.4
INS CL F DT 80K	IP55	SFA	40.0/20.0
AMB 40°C	DES B	SF	1.15
ENCL TEFC	CODE G	PF	0.87
		RPM	3525
		NEMA NOM. EFF	91.0%

ALTERNATE RATING: 10HP 50Hz 190-220/380-415V SF1.00
29.2-26.8/14.6-14.2A 2940RPM EFF 90.5% (IE3) IEC 60034-1

For safe area-Inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT

DE 6309-Z-C3	ODE 6208-Z-C3	MOBIL POLYREX EM	15797h





T1-BLU T2-WHT
T3-ORG T4-YEL
T5-BLK T6-GRY
T7-PNK T8-RED
T9-RED BRK
T10-CURRY
T11-GRN T12-VLT

INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect power source before servicing unit.

AVERTISSEMENT: Le moteur doit être mis à la terre conformément aux codes électriques locaux et nationaux afin d'éviter tout choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine.