



Technical Data - Pump

Vertical Multistage Pump Nema - SBN 45-3 NEMA

Revision no.

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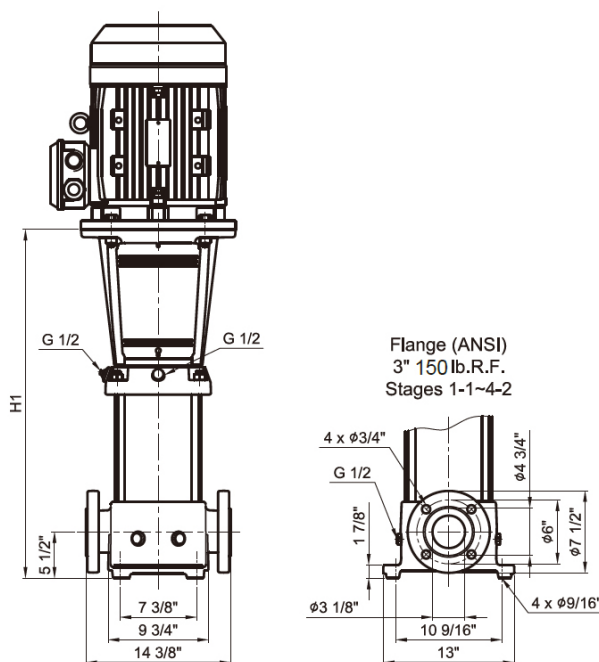
Receiver

From

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

**Pump Brand: Gol Pumps****Model: SBN 45-3 NEMA****Motor Brand: WEG****Model: 02536ET3ER284TSC-W22**

Pump Dimensions:



60Hz Pump type	Motor P2		Volts	SBI		
				NEMA Frame	Dimensions[inch]	Weights[lbs]
	[KW]	[HP]	Three phase		ANSI flange H1	ANSI flange
SBN 45-3	19	25	208-230/440-460V	284 TSC	32.70	182.9

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Performance Curves

Vertical Multistage Pump Nema - SBN 45-3 NEMA

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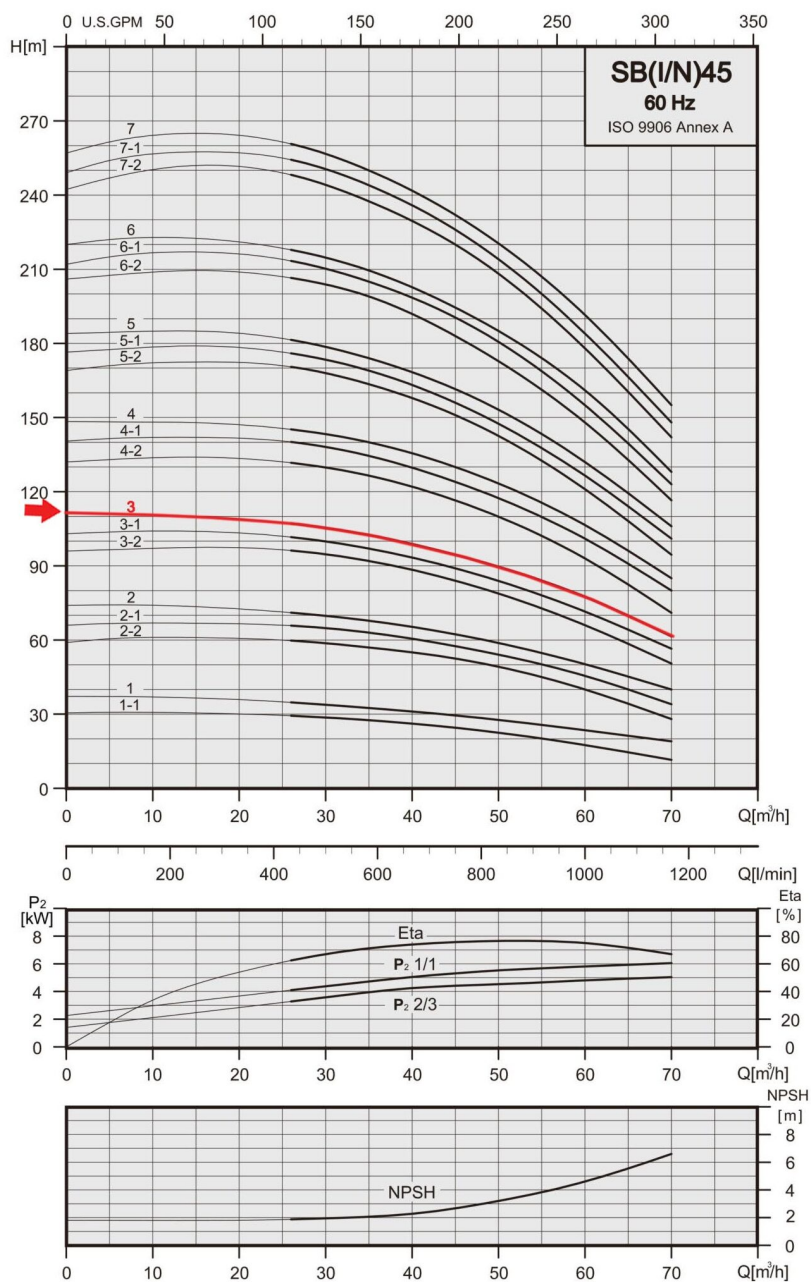
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Model	Port Size (in.)		Flow	HP	Volts	Amps	Phase	Max. Head	Max. Suction	Max. PSI
	DNA	DNM	GPH		V	I Max.	Ph	Ft.	Ft.	
SBN 45-3	3	3	18600	25	230/460	57.5/28.8	Three	367	17	160



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Parts and Materials

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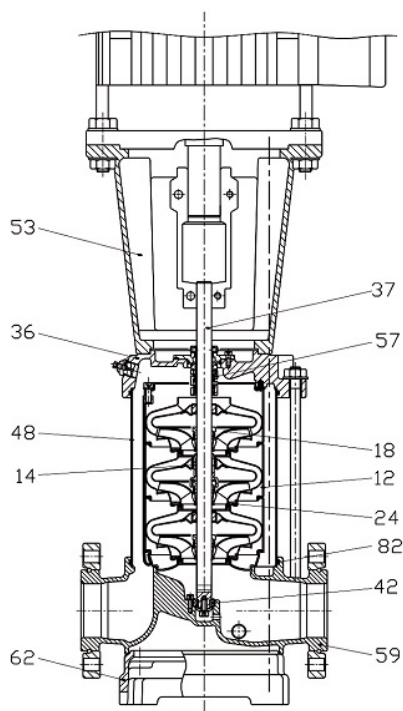
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Parts List

Material

Standard

36	Pump Head	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	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	

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Technical Data - Motor

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Receiver

From

Company name

Respons. Department

Person in charge

Phone number

Fax no

E-mail address

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13472720

Catalog # : 02536ET3ER284TSC-W22

Frame : 284TSC
 Output : 25 HP (18.5 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 57.5/28.8 A
 L. R. Amperes : 363/181 A
 LRC : 6.3x(Code G)
 No load current : 16.3/8.15 A
 Rated speed : 3545 rpm
 Slip : 1.53 %
 Rated torque : 37.0 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 2.69 sq.ft.lb
 Design : B

Locked rotor time : 30s (cold) 17s (hot)
 Temperature rise : 80 K
 Duty cycle : Cont.(S1)
 Ambient temperature : -20°C to +40°C
 Altitude : 1000 m.a.s.l.
 Protection degree : IP55
 Cooling method : IC411 - TEFC
 Mounting : W-6
 Rotation¹ : Both (CW and CCW)
 Noise level² : 72.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 366 lb

Output	25%	50%	75%	100%
Efficiency (%)	90.8	91.0	91.7	91.7
Power Factor	0.54	0.78	0.85	0.88

Foundation loads
 Max. traction : 284 lb
 Max. compression : 650 lb

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)
8.1	5.6	4.9	4.8	2.5	1.7	0.9

	Drive end	Non drive end
Bearing type	: 6311 C3	: 6211 C3
Sealing	: V'Ring	: V'Ring
Lubrication interval	: 7000 h	: 8000 h
Lubricant amount	: 18 g	: 11 g
Lubricant type	: Mobil Polyrex EM	

Notes:

USABLE @208V 63.0A SF 1.10 SFA 69.3A

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 +3dB(A).
- (3) Approximate weight subject to changes 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.

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Dimensions and Nameplate

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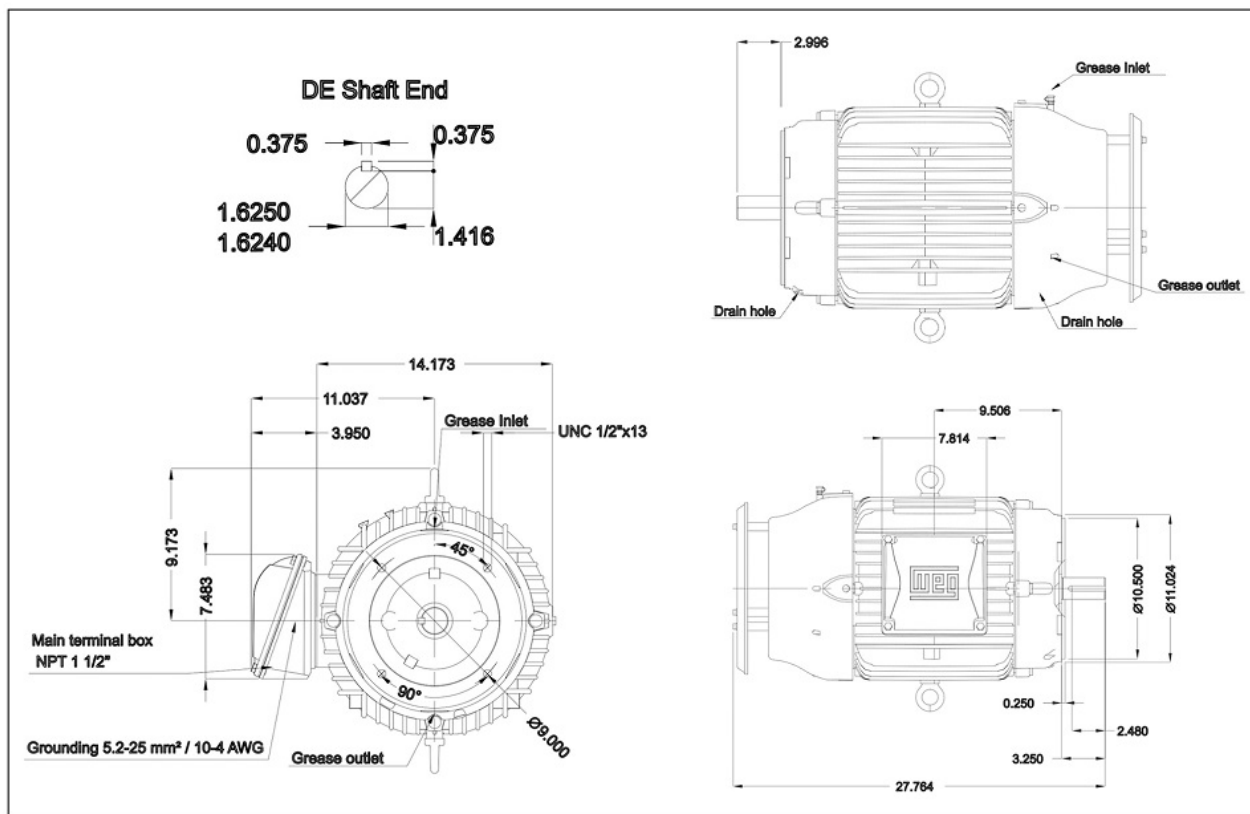
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Motor Dimensions:



Motor Nameplate:



MODEL Q2536ET3ER284TSC-W22

MADE IN BRAZIL
13472720Inverter Duty Motor
Severe Duty

PH3 60Hz Fr. 284TSC 1000m.a.s.l. IP55 TEFC 366lb

V 230/460

HP 25

SF 1.25

RPM 3545

AMB 40°C

DUTY CONT.

A 57.5/28.8

kW 18.5

SFA 71.9/36.0

PF 0.88

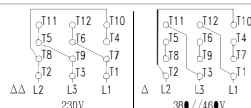
INS cl. F DT80K NEMA NOM EFF 91.7%

DES B Code G

25HP 18.5kW 50Hz 380V 35.3A 2915RPM SF 1.00 EFF 89.5% (IE1)

FOR SAFE AREA
Mod.TE1BFOXON
CC029A

For use on 60Hz
Class I, Div 2, Gr A, B, C and D - T3
Class I, Zone 2, IIC - T3
Class II, Div 2, Gr F and G - T4
For use on PWM: Gr. A, B, C, D and F,
VT 1000-1, CT 20-1, 1.00SF - T3A



→ 6311-C3 (18g)

→ 6211-C3 (11g)

MOBIL POLYREX EM (7000h)

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