

DATA SHEET

Premium Efficiency Motor: **OW100-9-447T**,

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Customer:

MOTOR INFORMATION

HP	100
RPM	900
Phase	3
Frequency	60 Hz
Voltage	230/460/796
Frame Size	447T
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.15
Poles	8
Full Load Speed	855
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	H
Duty Cycle	S1 / Continuous
Slip	5.04%
NEMA Design	D
Moment of Inertia	63.9524 lb.ft.^2
Locked Rotor Time (Hot)	12 seconds
Sound Pressure Level	93 dB(A)
Number of Starts	2 Cold/1 Hot
Max Ambient Temperature	40°C
Max Elevation	1000 m.a.s.l (3300 f.a.s.l)
Mounting	F2
Rotation	Bi-Directional
Standard	NEMA MG-1
Approvals	UL, CE, IEEE45

EFFICIENCY/POWER FACTOR

LOAD	EFF	P. F.
100%	94.9 %	0.76
75%	94.9 %	0.71
50%	94.2 %	0.61

TORQUE

FULL LOAD	LRT	BDT	PUT
628.9 lb.ft.	388 %	200 %	350 %

AMPERAGE INFORMATION

	230V	460V	796V
Full Load Amps	260.20	130.10	75.10
Locked Rotor Amps	1769.80	884.90	510.91
No Load Current	104.20	52.10	30.08

BEARING INFORMATION

DE Bearing	NU320 C3
ODE Bearing	6316 C3
Grease Type	Mobil Polyrex EM
DE Regreasing Interval	2400 Hours
ODE Regreasing Interval	2400 Hours
Grease Quantity	51g/33g

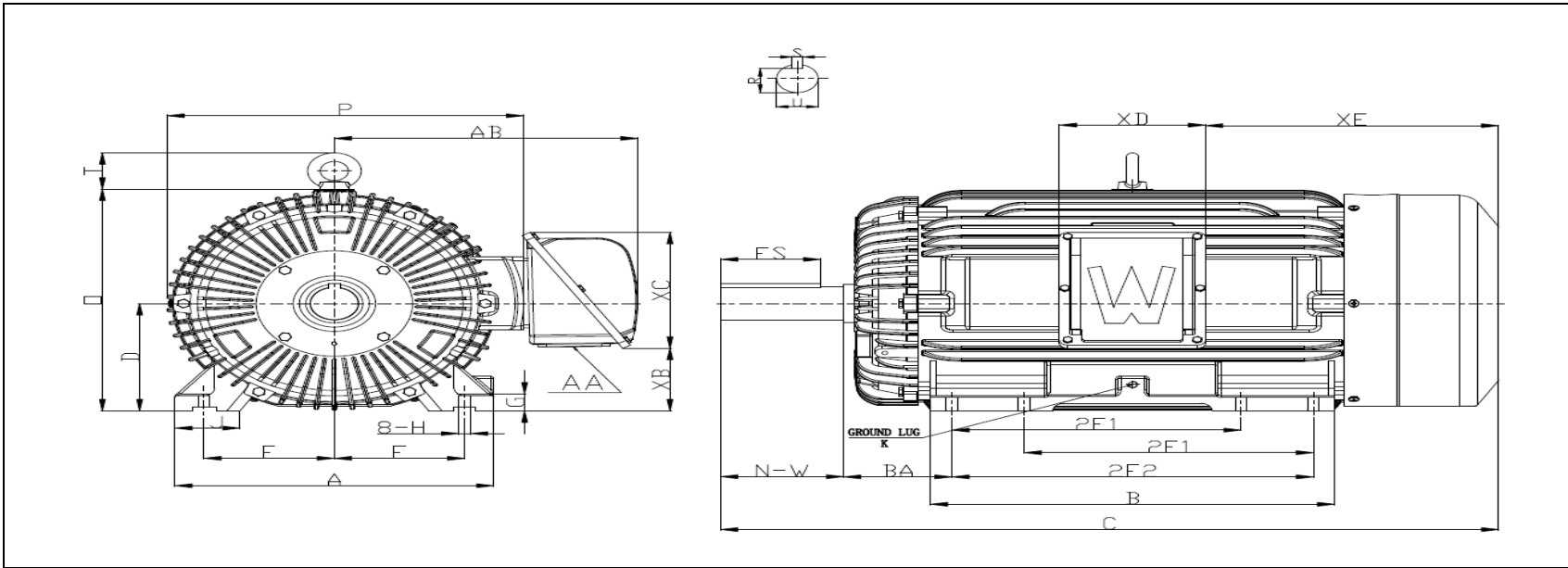
ADDITIONAL DATA

F2 Suitable	YES
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 12 Lead Δ
Approximate Weight	2033 lbs.
Area of Classification	Class 1 Division 2 Groups A,B,C,D T3B in accordance with NEC

MOTOR DRAWING

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DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F2	H	BA										
9	20	25	0.81	7.5	22	29	54.4	11	1.417	4.33	24.3	22.2	4.06	23.03

SHAFT & KEY					
S	ES	R	N-W	AH	U
0.875	6.91	2.88	8.5	N/A	3.375

TERMINAL BOX				
AA	XB	XC	XD	XE
3	4.13	16.2	11.6	19.2

GROUND LUG
K
M12

PERFORMANCE CURVES

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Motor Type PEWWE

Output Rating (HP) 100

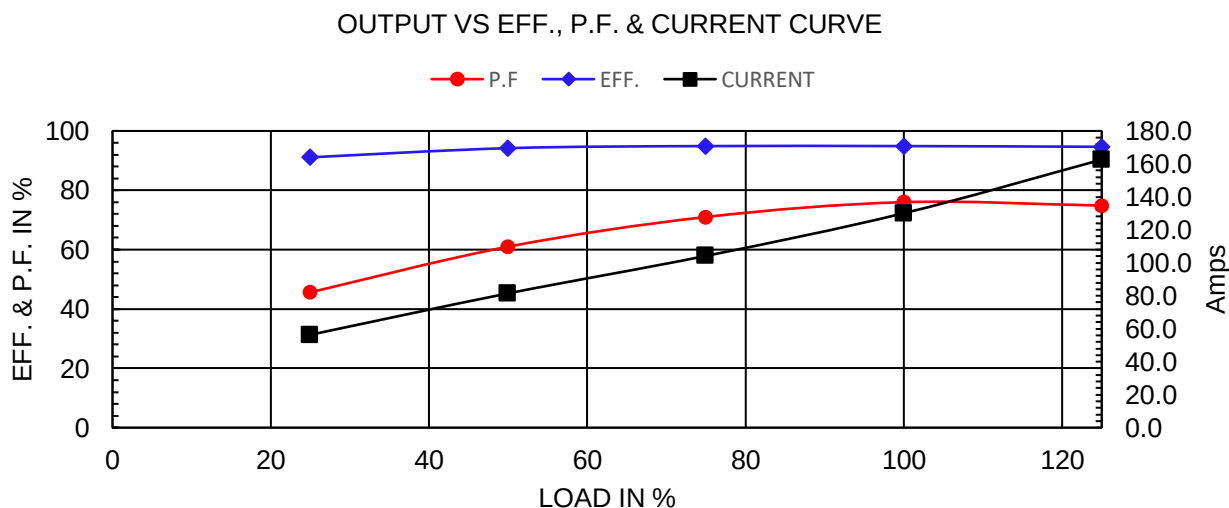
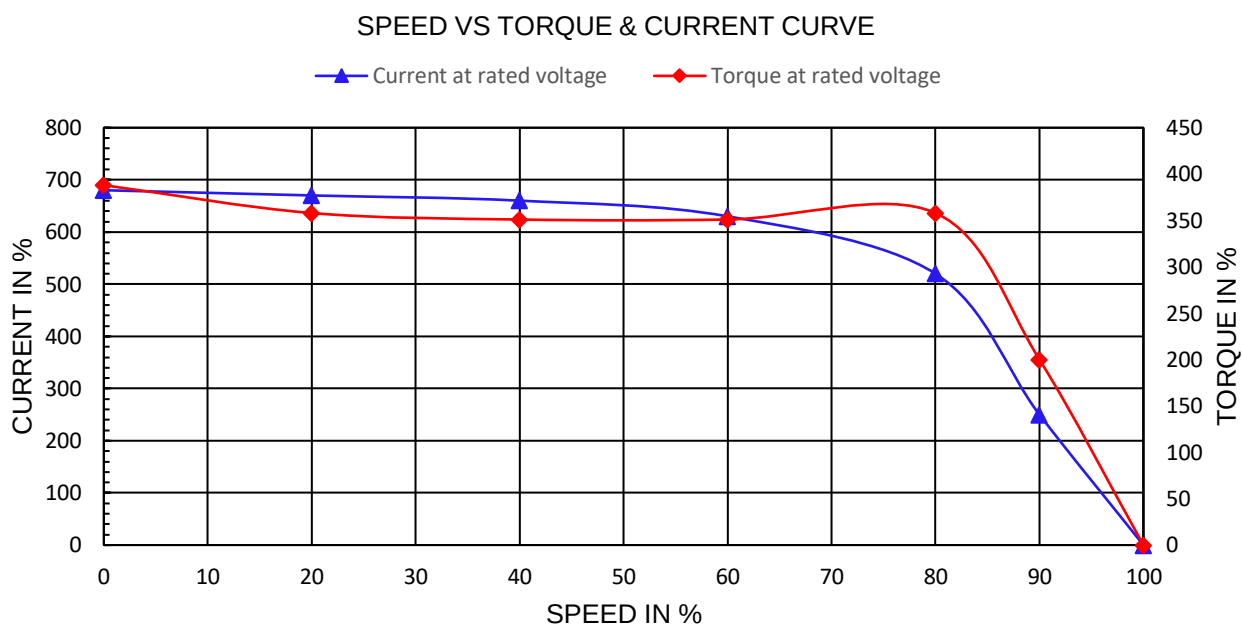
Full Load Torque 628.9 lb.ft

Rotor Wk² 63.9524 lb-ft²

FL Speed 854.6

LRT (%FLT) 388 460 volt FLA 130.10

BDT (%FLT) 200 230 volt FLA 260.20



NAMEPLATE / WIRING

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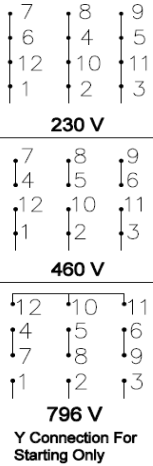
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SAMPLE NAMEPLATE DATA

 OIL WELL PUMPING 3 PHASE INDUSTRIAL ELECTRIC MOTOR  						Made in China
Model :		SN :		Code :		
HP :	RPM :	IP 55	FR :	End : TEFC		
Hz :	60	50	Ins : F	Eff :		
Volts :	230/460/796	200/400/693	Design : D	P.F. :		
Amps :			WT :	DE BRG :		
SF :	1.15	1.0	Duty : Cont	ODE BRG :		
Max Amb 40°C-CONT			LRT/FLT : %	Date :		
 WorldWide Electric Corporation						

Model	OW100-9-447T				
HP	100	RPM	854.6	IP	IP55
Hz	60 Hz	Hz	50Hz	Frame	447T
Voltage	230/460/796	Volts	200/400/693	Encl	TEFC
230V FLA	260.20	200V FLA	299.20	Ins Cl	F
460V FLA	130.10	400V FLA	149.60	Design	D
796V FLA	75.10	693V FLA	149.60	Code	H
S.F.	1.15	S.F.	1.00	WT	2033 lbs.
Max. Amb.	40°C			Duty	S1 / Continuous
LRT/FLT	388%			Nom.Eff.	94.9%
				P.F.	0.76
				DE Brng	NU320 C3
				ODE Brng	6316 C3