DATA SHEET

Premium Efficiency Motor: **ODP50-36-324TS,** **60 Hz**

WorldWide Electric Corporation
1 (800) 808-2131
Worldwideelectric.net

Document Generated: 31-Mar-2025
Document ID:

Customer:

MOTOR INFORMATION

HP	50
RPM	3600
Phase	3
Frequency	60
Voltage	230/460
Frame Size	324/6TS
Enclosure	ODP
Degree of Protection	IP23
Service Factor	1.15
Poles	2
Full Load Speed	3556
Insulation Class	F
Temp Rise	80˚C
NEMA Code Letter	G
Duty Cycle	S1 / Continuous
Slip	1.23%
NEMA Design	B
Moment of Inertia	2.874 lb.ft.^2
Locked Rotor Time (Hot)	12 seconds
Sound Pressure Level	79 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	F1
Rotation	Bi-Directional
Area of Classification	Safe Area
Inverter Rating	10:1 CT / 20:1 VT
Standard	NEMA MG 1
Approvals	UL, CE

ADDITIONAL DATA

F2 Suitable	Yes
Shaft Material	AISI 1045
Connection Diagram	12 Lead Delta
Approximate Weight	418 lbs.

EFFICIENCY/POWER FACTOR

LOAD	EFF	P. F.
100%	93.0 %	0.89
75%	93.0 %	0.88
50%	91.9 %	0.83

TORQUE

FULL LOAD	LRT	BDT
73.15 lb.ft.	427 %	483 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	112.2A	56.1A
Locked Rotor Amps	750.6A	375.3A
No Load Current	28.4A	14.2A

Usable at 208V 40.47A

BEARING INFORMATION

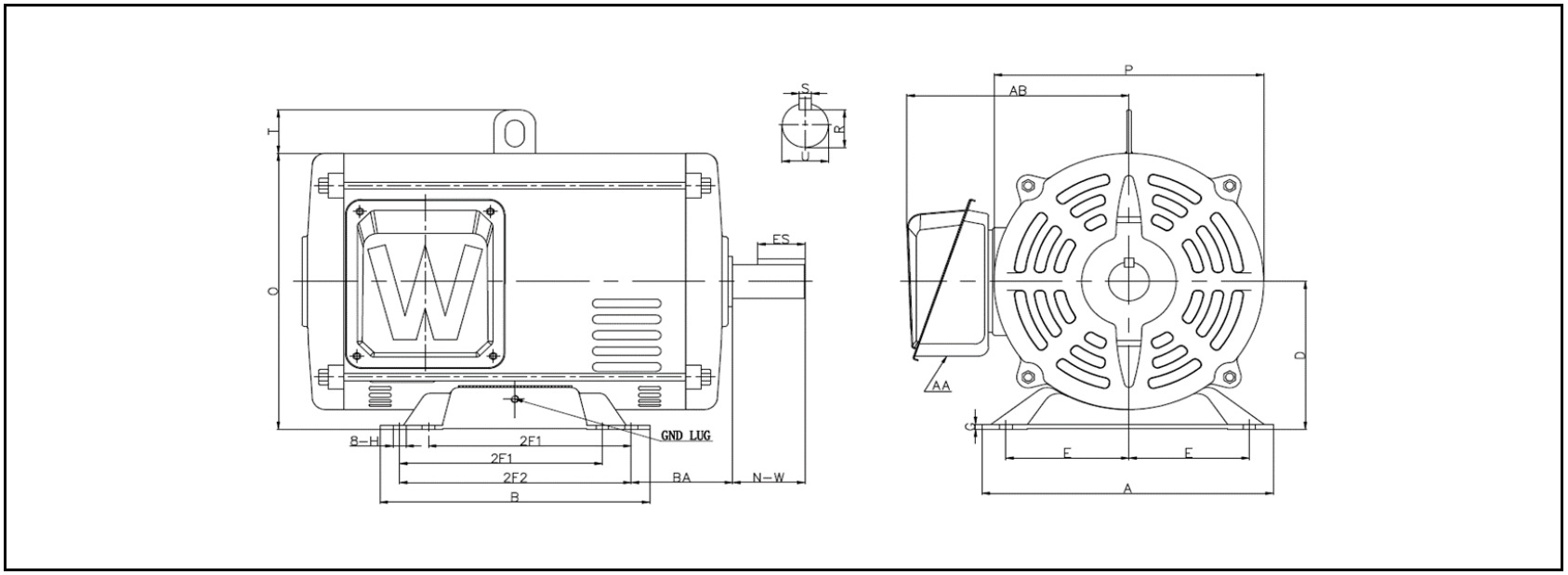
DE Bearing	6314Z
ODE Bearing	6212Z
Grease Type	Mobil Polyrex EM
DE Regreasing Interval	2400 Hours
ODE Regreasing Interval	3600 Hours
Grease Quantity	26g/12g

This document is the property of WorldWide Electric Corporation and may not be reproduced without express authorization

MOTOR DRAWING

Premium Efficiency Motor: **ODP50-36-324TS**

WorldWide Electric Corporation
1 (800) 808-2131
Worldwideelectric.net



DIMENSION - INCHES

MOUNTING					A	B	C	D	G	P	O	T	AB
E	2F1	2F2	H	BA									
6.25	10.5	12	0.66	5.25	15.08	14	26.3	8	0.275	14	15	2.36	13.1

SHAFT & KEY				
S	ES	R	N-W	U
0.5	2.03	1.591	3.75	1.875

T-BOX	GND
AA	LUG
2.5	M8*P1.25

This document is the property of WorldWide Electric Corporation and may not be reproduced without express authorization

PERFORMANCE CURVES

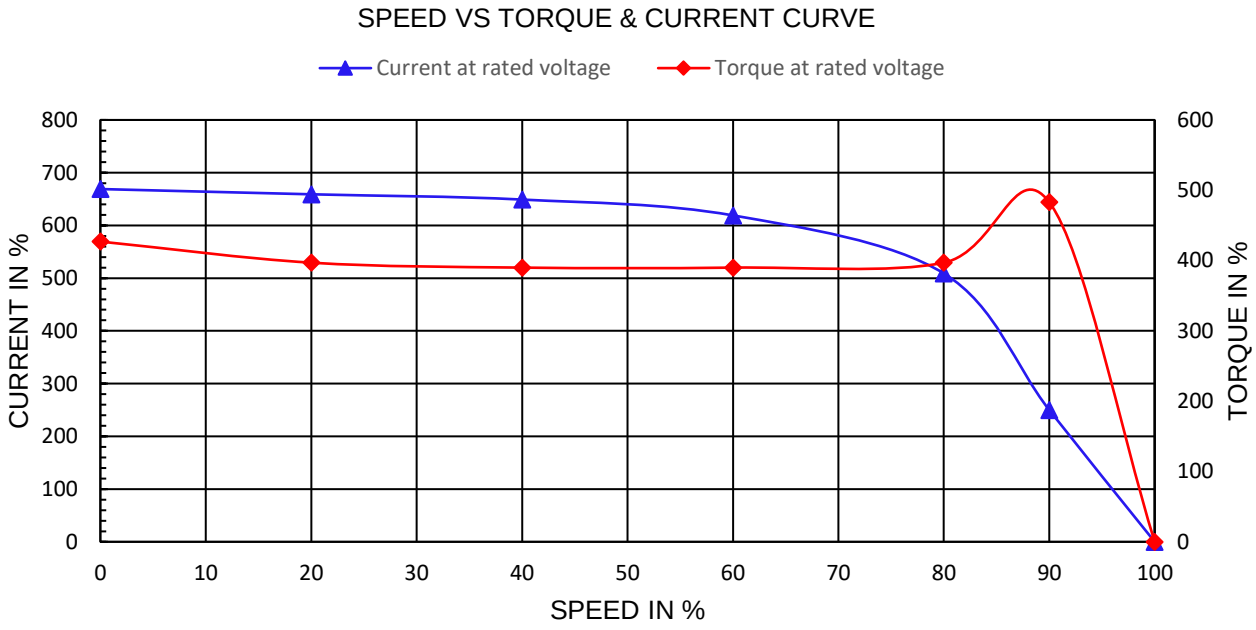
Premium Efficiency Motor: **ODP50-36-324TS**

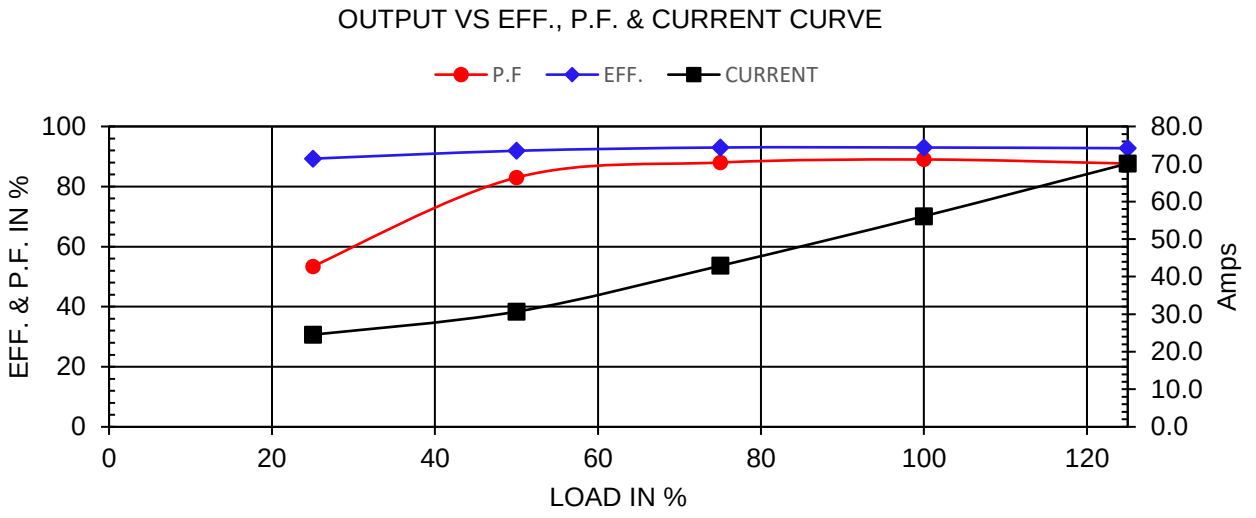
WorldWide Electric Corporation
1 (800) 808-2131
Worldwideelectric.net

Document Generated:	31-Mar-2025
Document ID:	

Customer:

Motor Type	ODP						
Output Rating (HP)	50		FL Speed	3556			
Full Load Torque	73.15	lb.ft	LRT (%FLT)	427	460 volt FLA	56.1	
Rotor Wk^2	0.93	lb-ft^2	BDT (%FLT)	483	230 volt FLA	112.2	





This document is the property of WorldWide Electric Corporation and may not be reproduced without express authorization.

NAMEPLATE / WIRING

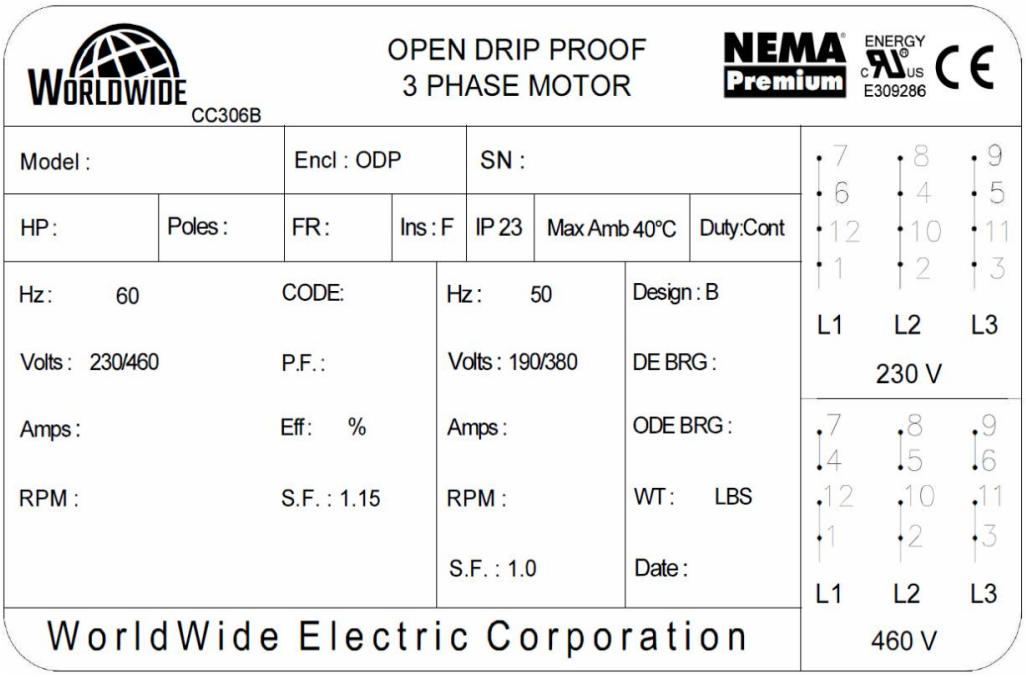
Premium Efficiency Motor: **ODP50-36-324TS**

WorldWide Electric Corporation
1 (800) 808-2131
Worldwideelectric.net

Document Generated:	31-Mar-2025
Document ID:	

Customer:

SAMPLE NAMEPLATE DATA



Model:	ODP50-36-324TS			**Encl:**	ODP				
HP:	50	**Poles:**	2	**Frame**	324/6TS	**Ins Cl:**	F	**IP**	IP23
Hz:	60	**Code:**	G	**Hz:**	50	**Design:**	B		
Volts:	230/460	**P.F.:**	0.89	**Volts:**	190/380	**DE Brg:**	6314Z		
Amps:	112.2/56.1	**Eff:**	93.0%	**Amps:**	134.6/67.3	**ODE Brg:**	6212Z		
RPM:	3556	**S.F.:**	1.15	**RPM:**	2923	**WT:**	418 lbs.		
				S.F.:	1.0				

This document is the property of WorldWide Electric Corporation and may not be reproduced without express authorization