

# DATA SHEET

Premium Efficiency Motor: **LAM500-12-586/7**

**60 Hz**

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



Document Generated: 8-Sep-2023  
Document ID:

Customer:

MOTOR INFORMATION	
HP	500
RPM	1200
Phase	3
Frequency	60 Hz
Voltage	460
Frame Size	586/7
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.15
Poles	6
Full Load Speed	1195
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	G
Duty Cycle	S1 / Continuous
Slip	0.52%
NEMA Design	--
Moment of Inertia	386.9 lb.ft.^2
Locked Rotor Time (Hot)	12 seconds
Sound Pressure Level	103 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	Rigid
Rotation	Bi-Directional
Area of Classification	Class 1 Division 2 Groups A,B,C,D T3B
Inverter Rating	10:1 CT / 20:1 VT
Standard	NEMA MG-1
Approvals	UL, CE, IEEE45, ABS

EFFICIENCY/POWER FACTOR		
LOAD	EFF	P. F.
100%	95.8 %	0.86
75%	96.4 %	0.84
50%	96.3 %	0.78

TORQUE		
FULL LOAD	LRT	BDT
2207 lb.ft.	210 %	245 %

AMPERAGE INFORMATION		
	230V	460V
Full Load Amps	--A	564.1A
Locked Rotor Amps	--A	3637A
No Load Current	--A	180.9A
Usable at 208V		-- A

BEARING INFORMATION	
DE Bearing	NU324 C3
ODE Bearing	6319 C3
Grease Type	Mobil Polyrex EM
DE Regreasing Interval	2400 Hours
ODE Regreasing Interval	3600 Hours
Grease Quantity	72g/45g

ADDITIONAL DATA	
F2 Suitable	YES
Shaft Material	4140
Connection Diagram	6 Lead Delta
Approximate Weight	lbs.

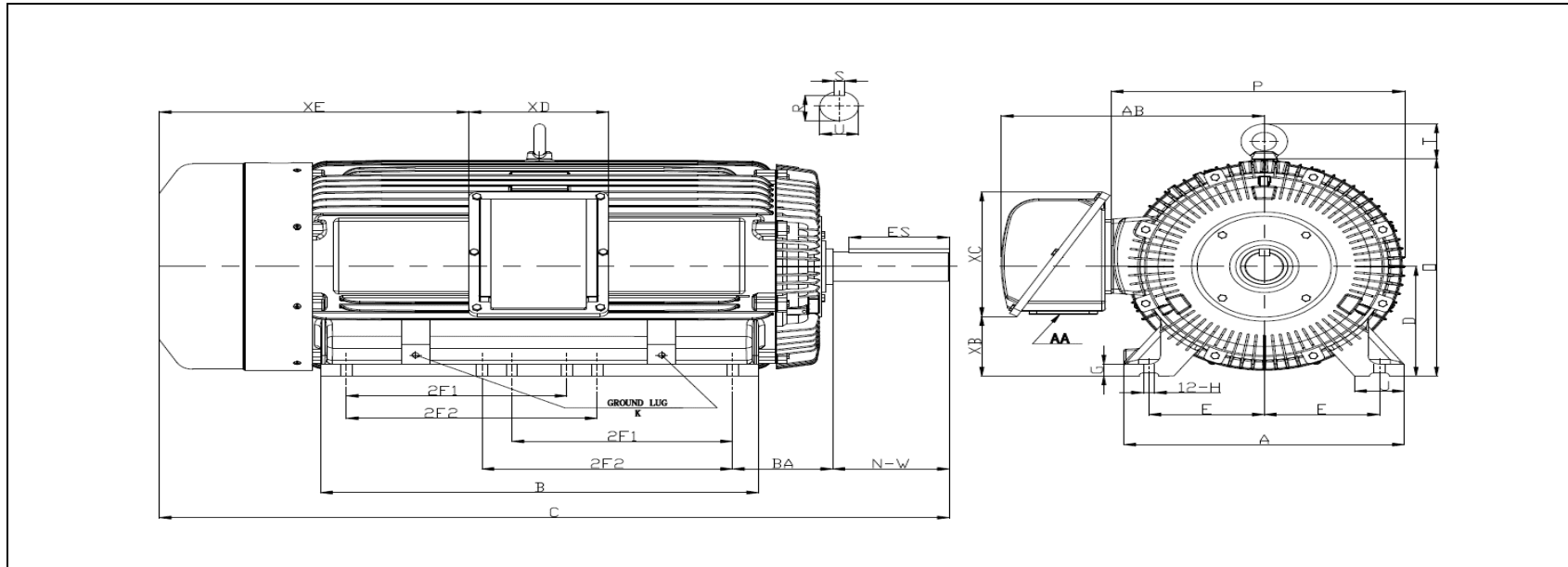
# MOTOR DRAWING

Premium Efficiency Motor: **LAM500-12-586/7**

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



## DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F2	H	BA										
11.5	22	25	1.125	10	28	43.7	78.8	14.5	2.05	5	29.72	28.86	4.66	23.9

SHAFT & KEY				
S	ES	R	N-W	U
1	10	3.309	11.625	3.875

TERMINAL BOX				
AA	XB	XC	XD	XE
2x3 NPT	5.3	16.2	13.9	30.9

GROUND LUG
M10

# PERFORMANCE CURVES

Premium Efficiency Motor:

**LAM500-12-586/7**

WorldWide Electric Corporation

1 (800) 808-2131

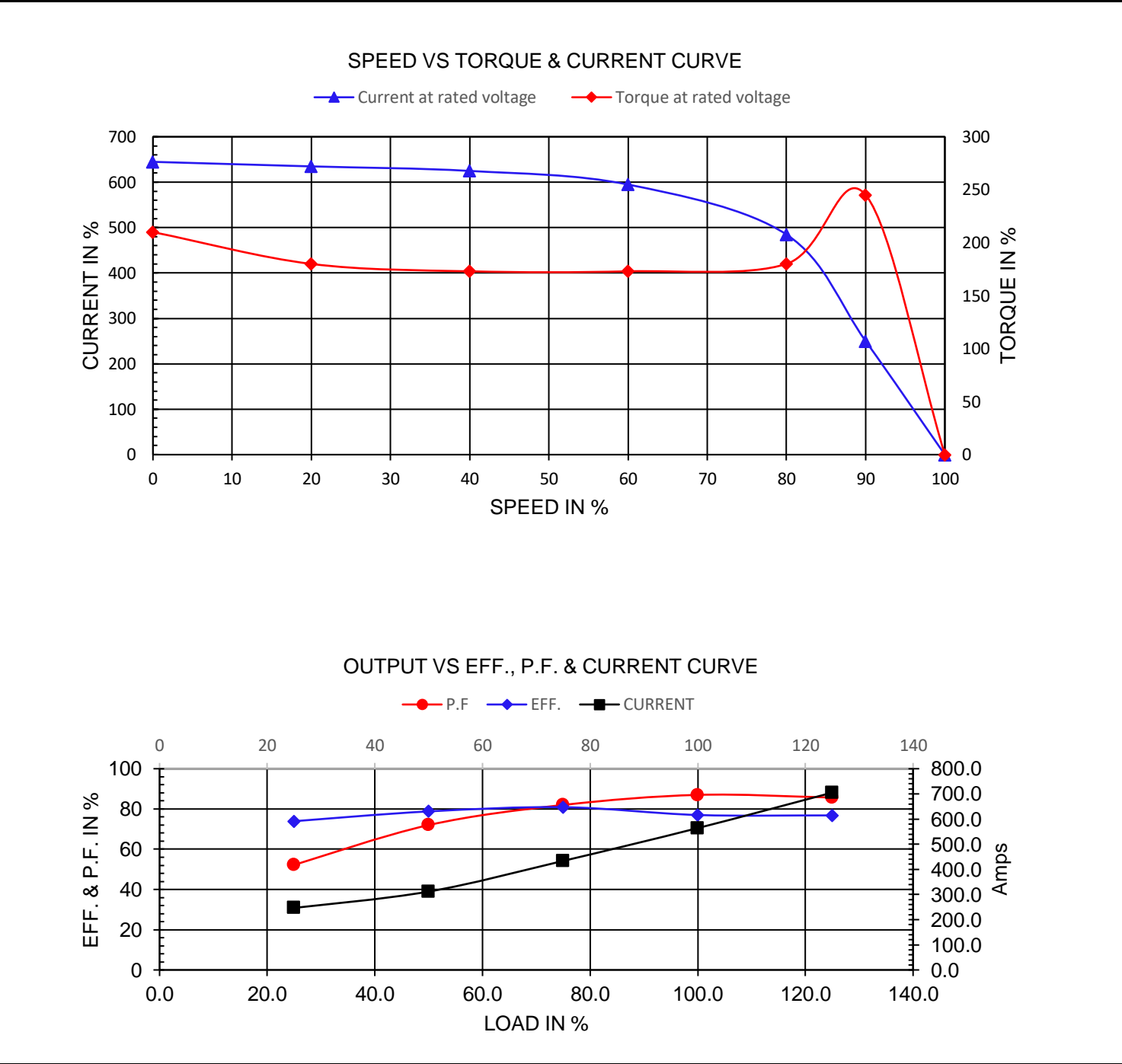
Worldwideelectric.net



Document Generated: 8-Sep-2023  
Document ID:

Customer:

Motor Type	AEH3		FL Speed	1195	
Output Rating (HP)	500		LRT (%FLT)	210	460 volt FLA 564.1
Full Load Torque	2207 lb.ft		BDT (%FLT)	245	230 volt FLA --
Rotor Wk <sup>2</sup>	386.9 lb-ft <sup>2</sup>				



# NAMEPLATE / WIRING

Premium Efficiency Motor: **LAM500-12-586/7**

WorldWide Electric Corporation

1 (800) 808-2131



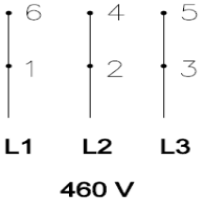


Worldwideelectric.net



Document Generated: 8-Sep-2023  
Document ID:

Customer:

## SAMPLE NAMEPLATE DATA

THREE PHASE SEVERE DUTY MOTOR I EEE45						 	
Model :		Encl :	Type :	SN :			
HP :	Poles :	FR:	Ins:	Duty: Cont	IP :		Max Amb 40°C
Hz :	CODE :		Hz :	HP :	Design :		
Volts :	P.F. :		Volts :	DE BRG :			
Amps :	Eff :		Amps :	ODE BRG :			
RPM :	S.F. :		RPM :	WT :			
			S.F. :	Date :			<b>460 V</b>  UL certified Class I, Division II, Groups A,B,C,D T3B
 LOUIS ALLIS <small>A WORLDWIDE ELECTRIC COMPANY</small>							

<b>Model:</b>	LAM500-12-586/7	<b>Encl:</b>	TEFC	<b>Type:</b>	AEH3		
<b>HP:</b>	500	<b>Poles</b>	6	<b>FR:</b>	586/7	<b>IP:</b>	55
<b>Hz:</b>	60	<b>CODE:</b>	G	<b>Hz</b>	50	<b>HP:</b>	450
<b>Volts:</b>	460	<b>P.F.:</b>	0.86	<b>Volts:</b>	380	<b>Design:</b>	B
<b>Amps:</b>	564.1	<b>Eff:</b>	0.958	<b>Amps</b>	615	<b>DE BRG:</b>	NU324 C3
<b>RPM:</b>	1195	<b>S.F.:</b>	1.15	<b>RPM</b>	990	<b>ODE BRG:</b>	6319 C3
				<b>S.F.:</b>	1.00	<b>WT:</b>	lbs.