

# DATA SHEET

Premium Efficiency Motor: **LAM300-12-449T**

**60 Hz**

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



Document Generated: 8-Sep-2023  
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Customer:

MOTOR INFORMATION	
HP	300
RPM	1200
Phase	3
Frequency	60Hz
Voltage	460
Frame Size	447/9T
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.15
Poles	6
Full Load Speed	1190
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	G
Duty Cycle	S1 / Continuous
Slip	0.83%
NEMA Design	B
Moment of Inertia	150 lb.ft.^2
Locked Rotor Time (Hot)	12 seconds
Sound Pressure Level	100 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 %	0.85
75%	96.1 %	0.83
50%	95.7 %	0.75

TORQUE		
FULL LOAD	LRT	BDT
1305 lb.ft.	208 %	302 %

AMPERAGE INFORMATION		
	230V	460V
Full Load Amps	--A	336.8A
Locked Rotor Amps	--A	2349A
No Load Current	--A	113.3A
Usable at 208V		-- A

BEARING INFORMATION	
DE Bearing	NU320 C3
ODE Bearing	6316 C3
Grease Type	Mobil Polyrex EM
DE Regreasing Interval	2400 Hours
ODE Regreasing Interval	3600 Hours
Grease Quantity	51g/33g

ADDITIONAL DATA	
F2 Suitable	Yes
Shaft Material	4140
Connection Diagram	6 Lead Delta
Approximate Weight	2765 lbs.

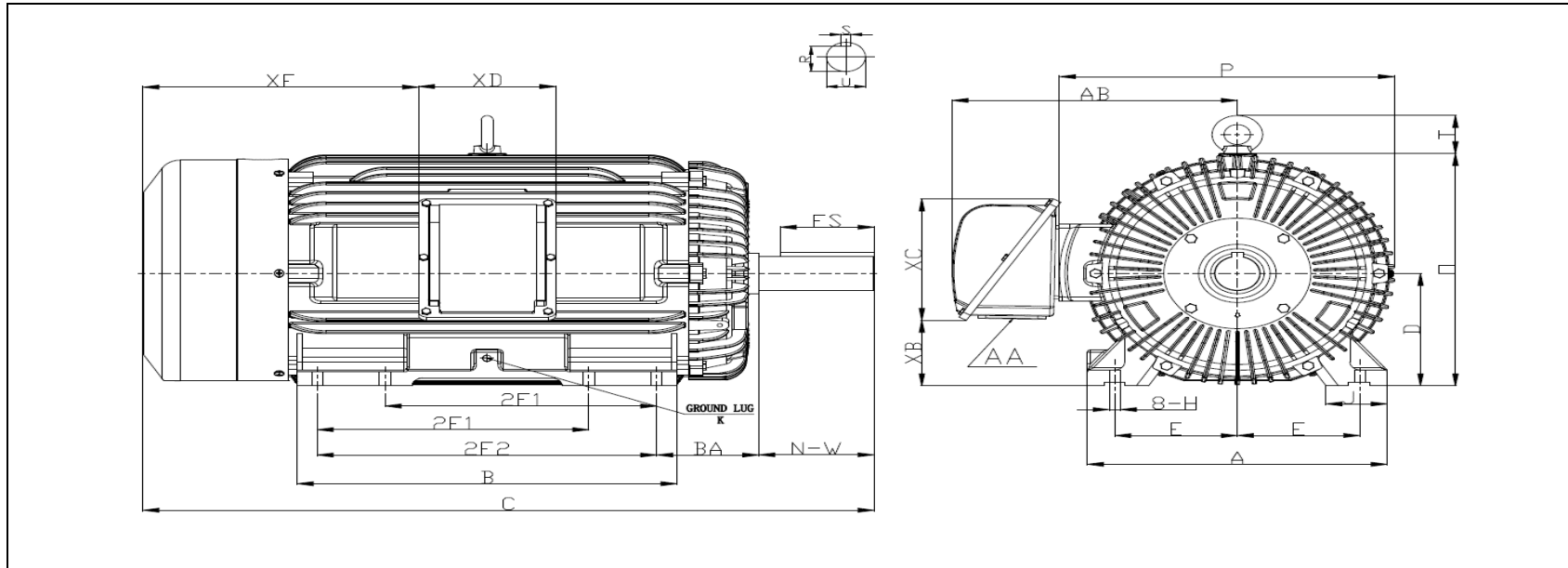
# MOTOR DRAWING

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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	25.8	23.8	4.06	23.4

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

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

GROUND LUG
M12

# PERFORMANCE CURVES

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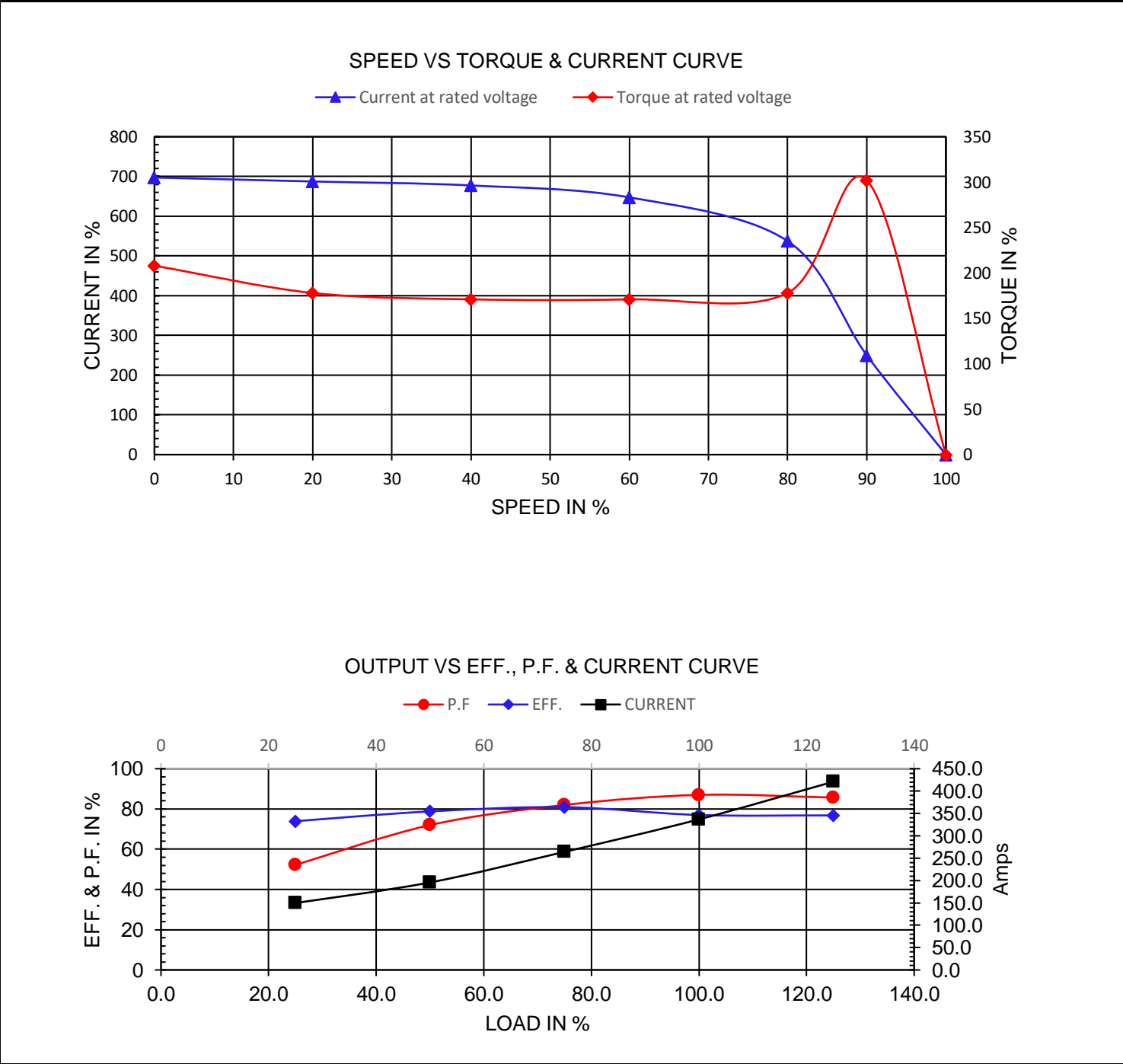
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Motor Type	AEH3		FL Speed	1190	
Output Rating (HP)	300		LRT (%FLT)	208	460 volt FLA 336.8
Full Load Torque	1305 lb.ft		BDT (%FLT)	302	230 volt FLA --
Rotor Wk^2	150 lb-ft^2				



# NAMEPLATE / WIRING

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## SAMPLE NAMEPLATE DATA

		<b>THREE PHASE SEVERE DUTY MOTOR IEEE45</b>								
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 :					
CC306B			<b>LOUIS ALLIS</b> A WORLDWIDE ELECTRIC COMPANY					UL certified Class I, Division II, Groups A,B,C,D T3B		

<b>Model:</b>	LAM300-12-449T	<b>Encl:</b>	TEFC	<b>Type:</b>	AEH3		
<b>HP:</b>	300	<b>Poles</b>	6	<b>FR:</b>	447/9T	<b>IP:</b>	55
<b>Hz:</b>	60	<b>CODE:</b>	G	<b>Hz</b>	50	<b>HP:</b>	250
<b>Volts:</b>	460	<b>P.F:</b>	0.85	<b>Volts:</b>	380	<b>Design:</b>	B
<b>Amps:</b>	336.8	<b>Eff:</b>	0.958	<b>Amps</b>	335	<b>DE BRG:</b>	NU320 C3
<b>RPM:</b>	1190	<b>S.F:</b>	1.15	<b>RPM</b>	990	<b>ODE BRG:</b>	6316 C3
				<b>S.F:</b>	1.00	<b>WT:</b>	2765 lbs.