



# WORLDWIDE ELECTRIC MOTOR DATA SHEET



## EP40-18-324T

HORSEPOWER	40		
RPM / POLES	1800 / 4		
VOLTAGE / PHASE	230 / 460 V / 3		
FRAME	324T		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP55		
FREQUENCY	60 HZ Suitable For 50 HZ Operation With 1.0 SF		
FULL LOAD SPEED	1780 RPM		
SERVICE FACTOR	1.25 SF at 40° C / 1.0 SF at 55° C		
INSULATION CLASS	F		
FULL LOAD AMPS; 230 / 460	94.76 / 47.38 A		
LOCKED ROTOR AMPS (STARTING); 230 / 460	580 / 290 A		
NO LOAD CURRENT	29.6 / 14.8 A		
NEMA CODE LETTER	G		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100%	94.4%	0.85
	75%	94.1%	0.84
	50%	90.3%	0.81
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	118.0 lb.ft.	205%	250%
SLIP	1.11%		
NEMA DESIGN	B		
MOMENT OF INERTIA	9.0 lb.ft. <sup>2</sup>		
NUMBER OF STARTS (Hot / Cold)	2 Hot / 3 Cold		
MAX. AMBIENT TEMPERATURE	40° C at 1.25 SF / 55° C at 1.0 SF		
MAX. ELEVATION	3300 Ft. Above Sea Level		
TEMPERATURE RISE (At Full Load)	80° C		
DE BEARING	6312		
ODE BEARING	6312		
GREASE TYPE	Mobil Polyrex EM		
MOUNTING	F1 (F2 Suitable)		
ROTATION	Bi-Directional		
APPROXIMATE WEIGHT	684 lbs.		
AREA CLASSIFICATION	Class I, Division 2, Groups A, B, C, D		
TEMPERATURE CODE AT 40°C AMBIENT	T3C		
TEMPERATURE CODE AT 55°C AMBIENT	T3A		
INVERTER RATING	10:1 CT / 20:1 VT PWM Type		
SPECIFICATION - In Accordance With	NEMA, CSA		



**CC067A**





# WORLDWIDE ELECTRIC MOTOR DRAWING

## EP-324T



DIMENSIONS - INCHES

MOUNTING					A	B	C	D	G	J	P	L	AB
E	2F1	2F2	H	BA									
6.25	10.5	---	0.66	5.25	15.3	12.6	29.4	8	0.984	2.76	17.75	18.25	14.17

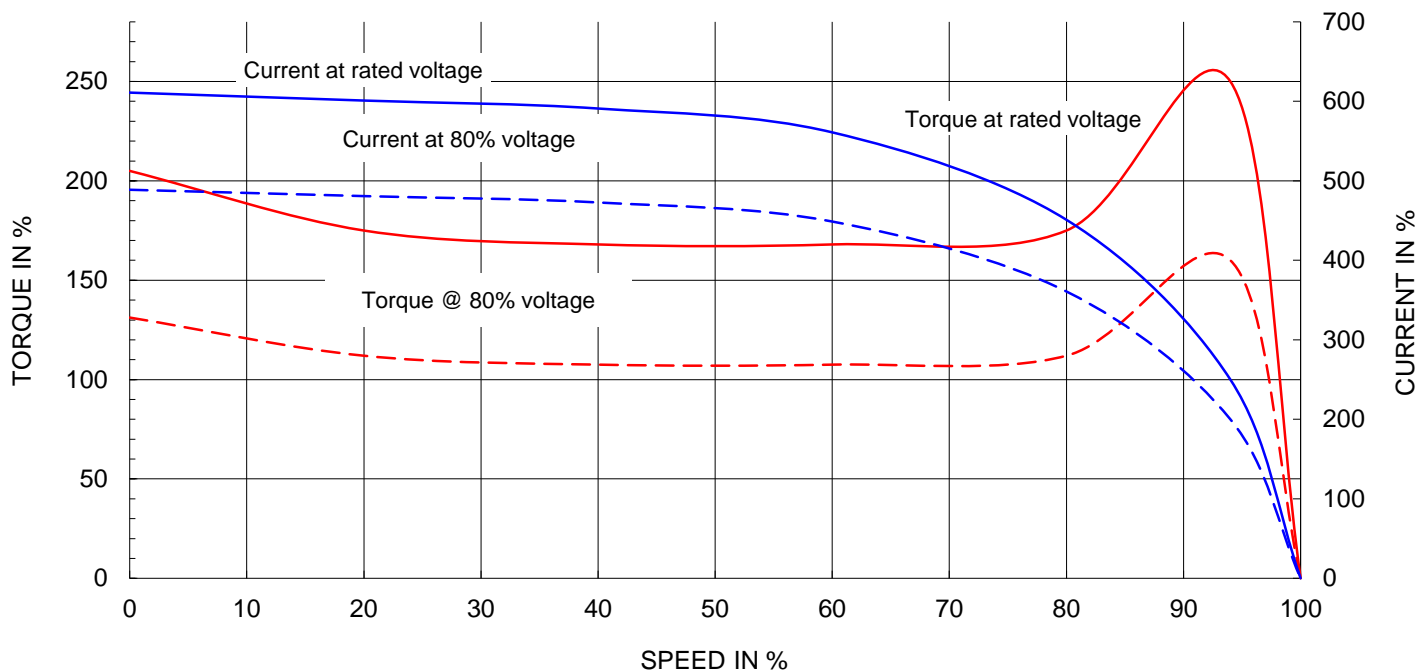
KEY		KEYSET	SHAFT		TERMINAL BOX				
S	ES	R	N-W	U	AA	XB	XC	XD	XE
0.5	3.91	1.845	5.25	2.125	3	2.6	10.55	8.98	9.68



# Motor Performance Curves

Motor type:	EPIC				
Output rating (HP)	40	FL Speed:	1780		
Full Load Torque :	118 lb.ft	LRT (% FLT):	205	460 volt FLA:	47.4
Rotor Wk^2:	9 lb-ft^2	BDT (% FLT):	250	230 volt FLA:	94.8

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

