



# WORLDWIDE ELECTRIC MOTOR DATA SHEET

## EP125-18-444TC



HORSEPOWER	125		
RPM / POLES	1800 / 4		
VOLTAGE / PHASE	230 / 460 V / 3		
FRAME	444TC		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP55		
FREQUENCY	60 HZ Suitable For 50 HZ Operation With 1.0 SF		
FULL LOAD SPEED	1790 RPM		
SERVICE FACTOR	1.25 SF at 40° C / 1.0 SF at 55° C		
INSULATION CLASS	F		
FULL LOAD AMPS; 230 / 460	285.2 / 142.6 A		
LOCKED ROTOR AMPS (STARTING); 230 / 460	1816 / 908 A		
NO LOAD CURRENT	94.54 / 47.27 A		
NEMA CODE LETTER	G		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100%	95.4%	0.86
	75%	95.2%	0.85
	50%	93.8%	0.80
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	367.0 lb.ft.	170%	250%
SLIP	0.56%		
NEMA DESIGN	B		
MOMENT OF INERTIA	65.1 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	6318		
ODE BEARING	6314		
GREASE TYPE	Mobil Polyrex EM		
MOUNTING	F1 (F2 Suitable)		
ROTATION	Bi-Directional		
APPROXIMATE WEIGHT	1609 lbs.		
AREA CLASSIFICATION	Class I, Division 2, Groups A, B, C, D		
INVERTER RATING	10:1 CT / 20:1 VT PWM Type		
SPECIFICATION - In Accordance With	NEMA, CSA		



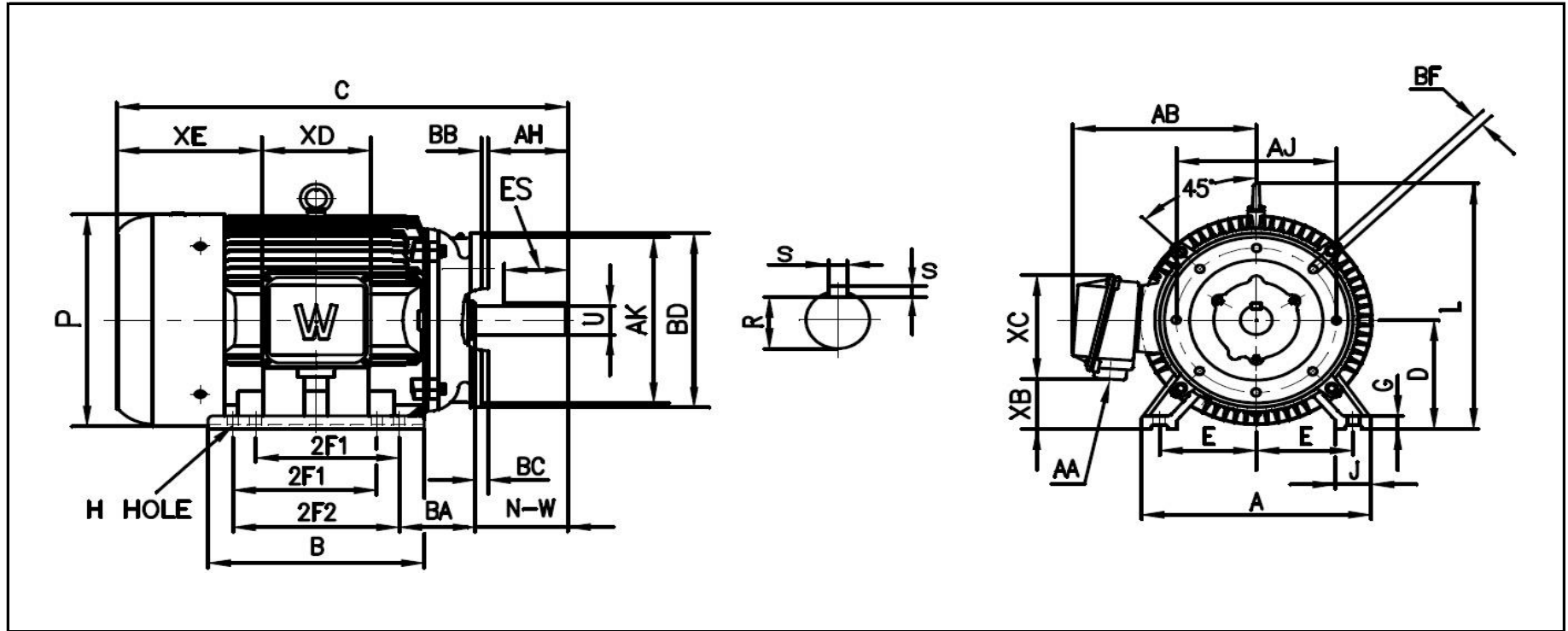
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MARCH 10, 2015

# WORLDWIDE ELECTRIC MOTOR DRAWING

## EP-444TC



DIMENSIONS - INCHES

MOUNTING					A	B	C	D	G	J	P	L	AB	AH	BC
E	2F1	2F2	H	BA											
9	14.5	---	0.81	7.5	22	18.5	43.7	11	1.38	3.35	22.13	26.43	18.93	8.25	0.25

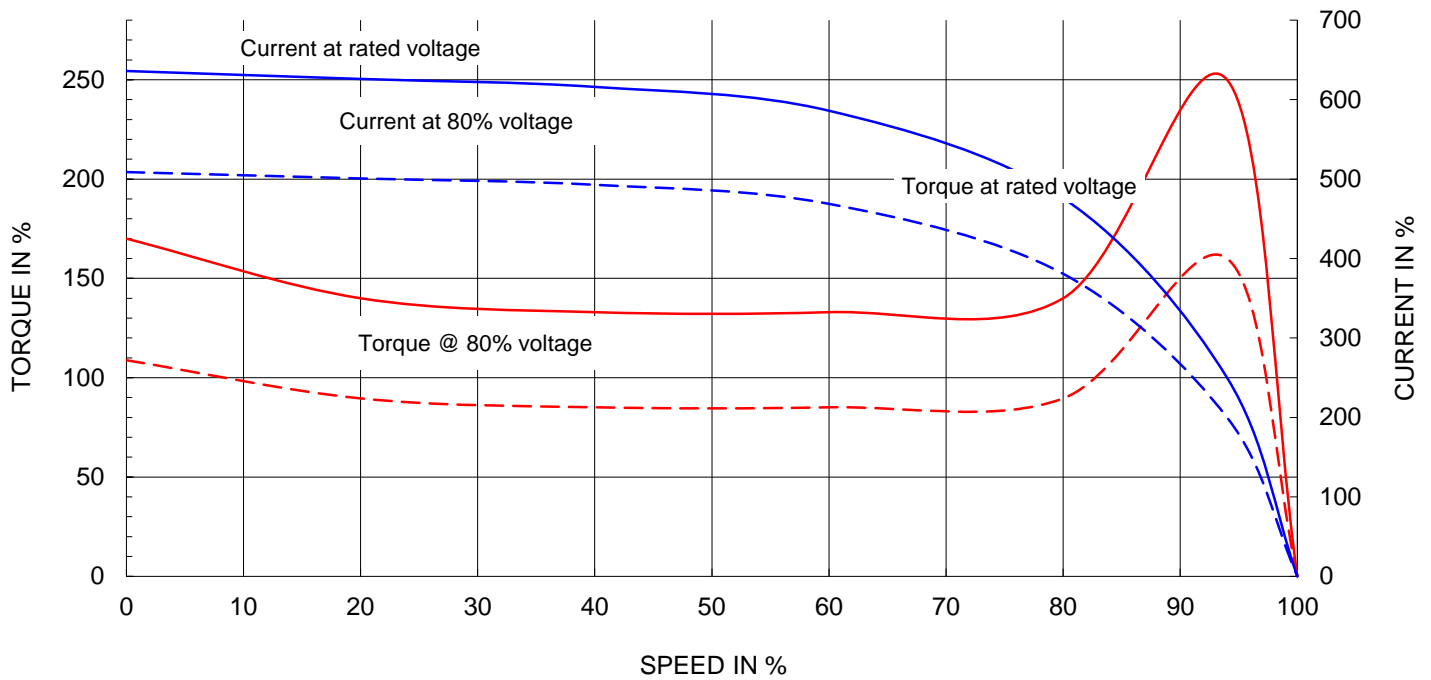
KEY		KEYSET	FLANGE				SHAFT		TERMINAL BOX					
S	ES	R	AK	AJ	BF	BB	BD	N-W	U	AA	XB	XC	XD	XE
0.875	6.91	2.88	16	14	5/8-11	0.25	17.71	8.5	3.375	2 x 3	5.67	11.73	11.34	13.39



# Motor Performance Curves

Motor type:	EPIC				
Output rating (HP)	125	FL Speed:	1790		
Full Load Torque :	367 lb.ft	LRT (% FLT):	170	460 volt FLA:	142.6
Rotor Wk <sup>2</sup> :	65.1 lb-ft <sup>2</sup>	BDT (% FLT):	250	230 volt FLA:	285.2

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

