



WORLDWIDE ELECTRIC MOTOR DATA SHEET

EP20-18-256TC



HORSEPOWER	20		
RPM / POLES	1800 / 4		
VOLTAGE / PHASE	230 / 460 V / 3		
FRAME	256TC		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP55		
FREQUENCY	60 HZ Suitable For 50 HZ Operation With 1.0 SF		
FULL LOAD SPEED	1750 RPM		
SERVICE FACTOR	1.25 SF at 40° C / 1.0 SF at 55° C		
INSULATION CLASS	F		
FULL LOAD AMPS; 230 / 460	47.94 / 23.97 A		
LOCKED ROTOR AMPS (STARTING); 230 / 460	290 / 145 A		
NO LOAD CURRENT	17.14 / 8.57 A		
NEMA CODE LETTER	G		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100%	93.8%	0.85
	75%	93.0%	0.84
	50%	91.1%	0.81
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	60.0 lb.ft.	200%	250%
SLIP	1.70%		
NEMA DESIGN	B		
MOMENT OF INERTIA	4.09 lb.ft.²		
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	6309		
ODE BEARING	6308		
GREASE TYPE	Mobil Polyrex EM		
MOUNTING	F1 (F2 Suitable)		
ROTATION	Bi-Directional		
APPROXIMATE WEIGHT	436 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		

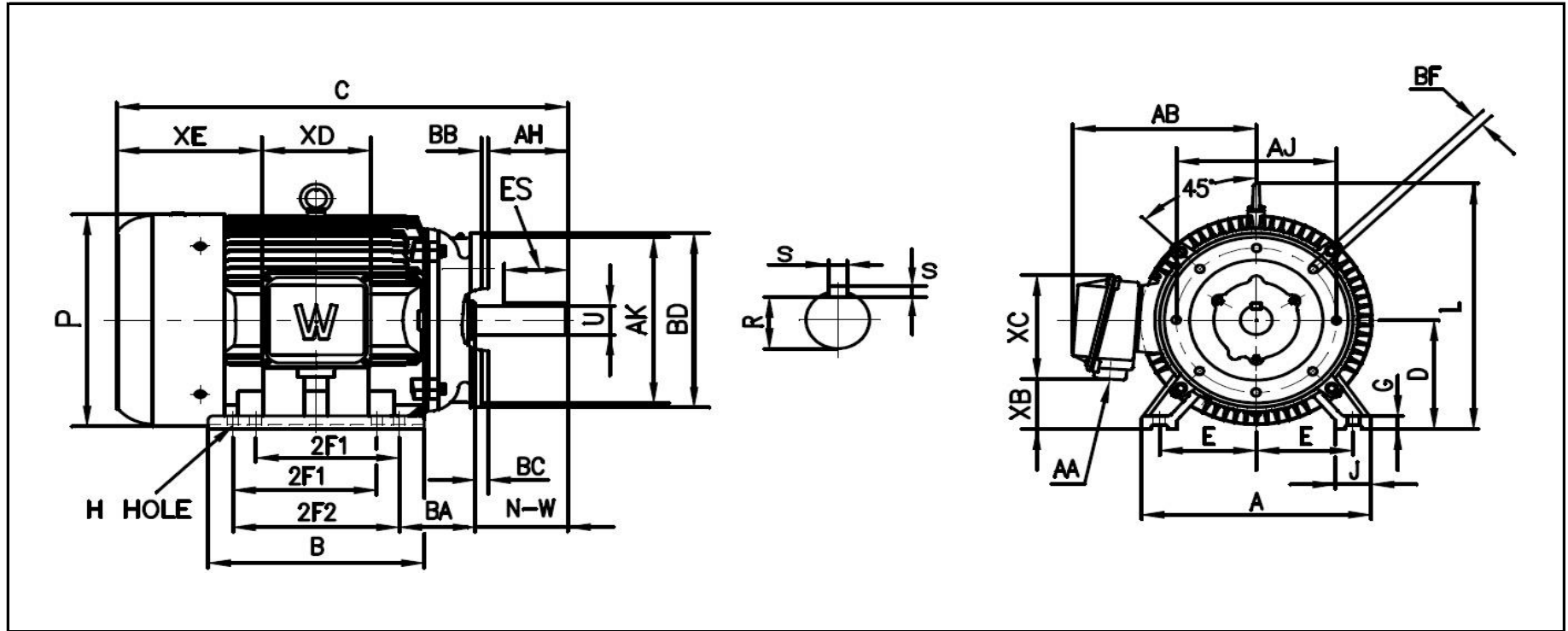


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WORLDWIDE ELECTRIC MOTOR DRAWING

EP-256TC



DIMENSIONS - INCHES

MOUNTING					A	B	C	D	G	J	P	L	AB	AH	BC
E	2F1	2F2	H	BA											
5	8.25	10	0.53	4.25	12.25	12.36	25.196	6.25	0.866	2.4	13.03	15.1	10.9	3.75	0.25

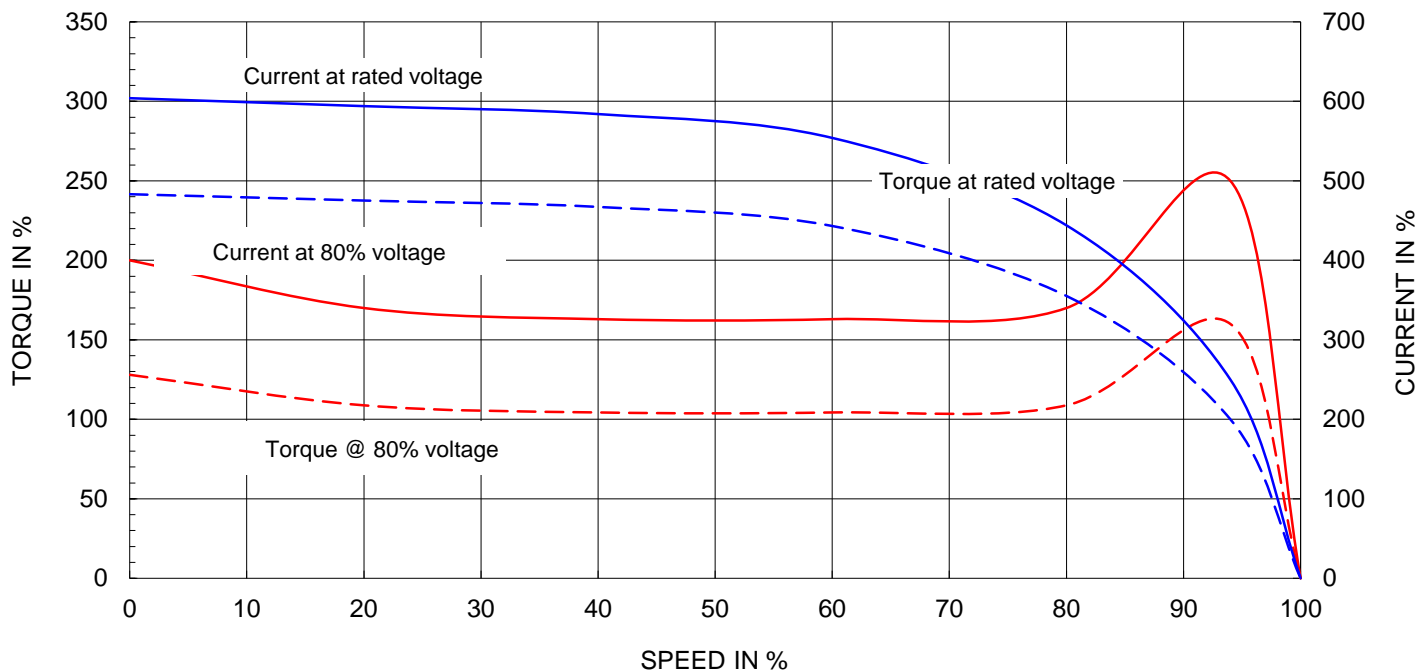
KEY		KEYSET	FLANGE				SHAFT		TERMINAL BOX					
S	ES	R	AK	AJ	BF	BB	BD	N-W	U	AA	XB	XC	XD	XE
0.375	2.91	1.416	8.5	7.25	1/2-13	0.25	10	4	1.625	1.5	3	7.2	6.3	8.66



Motor Performance Curves

Motor type:	EPIC				
Output rating (HP)	20	FL Speed:	1750		
Full Load Torque :	60 lb.ft	LRT (% FLT):	200	460 volt FLA:	24.0
Rotor Wk ² :	4.09 lb-ft ²	BDT (% FLT):	250	230 volt FLA:	47.9

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

