



# WORLDWIDE ELECTRIC MOTOR DATA SHEET

## PEWWE20-18-256TC



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	1765 RPM		
SERVICE FACTOR	1.25		
INSULATION CLASS	F		
FULL LOAD AMPS; 230 / 460	47.4 / 23.7 A (Usable On 208V At 52.4 A)		
LOCKED ROTOR AMPS (STARTING); 230 / 460	290 / 145 A		
NO LOAD CURRENT	18 / 9 A		
NEMA CODE LETTER	G		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	93.0%	0.85
	75 %	93.2%	0.82
	50 %	92.9%	0.72
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	59.5 lb.ft.	180%	250%
SLIP	1.94 %		
NEMA DESIGN	B		
MOMENT OF INERTIA	2.23 lb.ft. <sup>2</sup>		
MAX. TIME LOCKED ROTOR (Hot)	22 Seconds		
SOUND PRESSURE LEVEL	68 dB (A)		
MAX. AMBIENT TEMPERATURE	40° C		
MAX. ELEVATION	3300 Ft.		
TEMPERATURE RISE (At Full Load)	80° C		
DE BEARING	6309 C3		
ODE BEARING	6209 C3		
REGREASING INT. - DE BEARING	5000 Hours		
REGREASING INT. - ODE BEARING	5000 Hours		
GREASE TYPE	SKF LGHP 2		
MOUNTING	F1 (F2 Suitable)		
ROTATION	Bi-Directional		
SHAFT MATERIAL	1045 Carbon Steel		
INVERTER RATING	10:1 CT / 20:1 VT PWM Type		
CONNECTION DIAGRAM	230 / 460 V - 9 Lead Δ		
AREA CLASSIFICATION	Class I, Division 2, Groups A, B, C, D		
APPROXIMATE WEIGHT	304 lbs.		



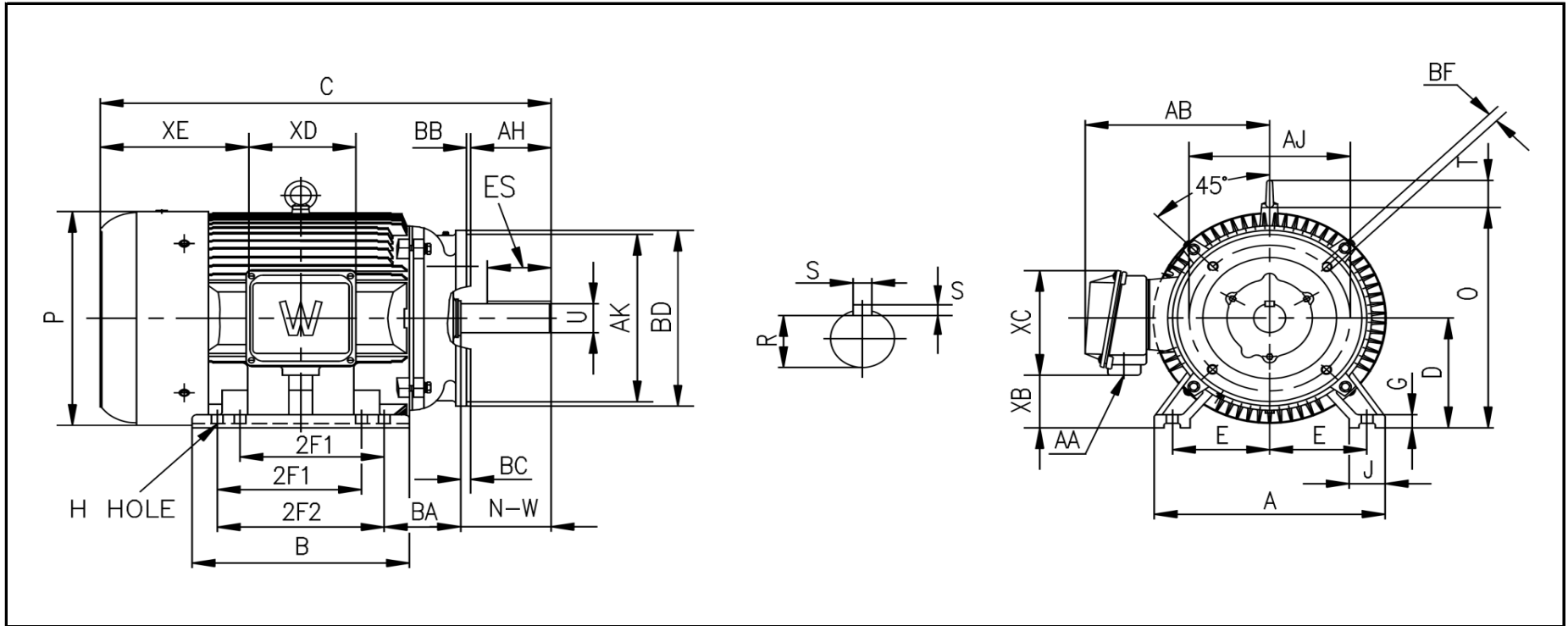
CC006A





# WORLDWIDE ELECTRIC MOTOR DRAWING

## PEWWE-256TC



**DIMENSIONS - INCHES**

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F2	H	BA										
5	8.25	10	0.53	4.25	12.5	12	25.3	6.25	0.79	2.4	12.6	12.9	2.05	10.5

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	7.4	6.3	8.9

REVISED - 08/11/17

# PERFORMANCE CURVES

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



Premium Efficiency Motor:

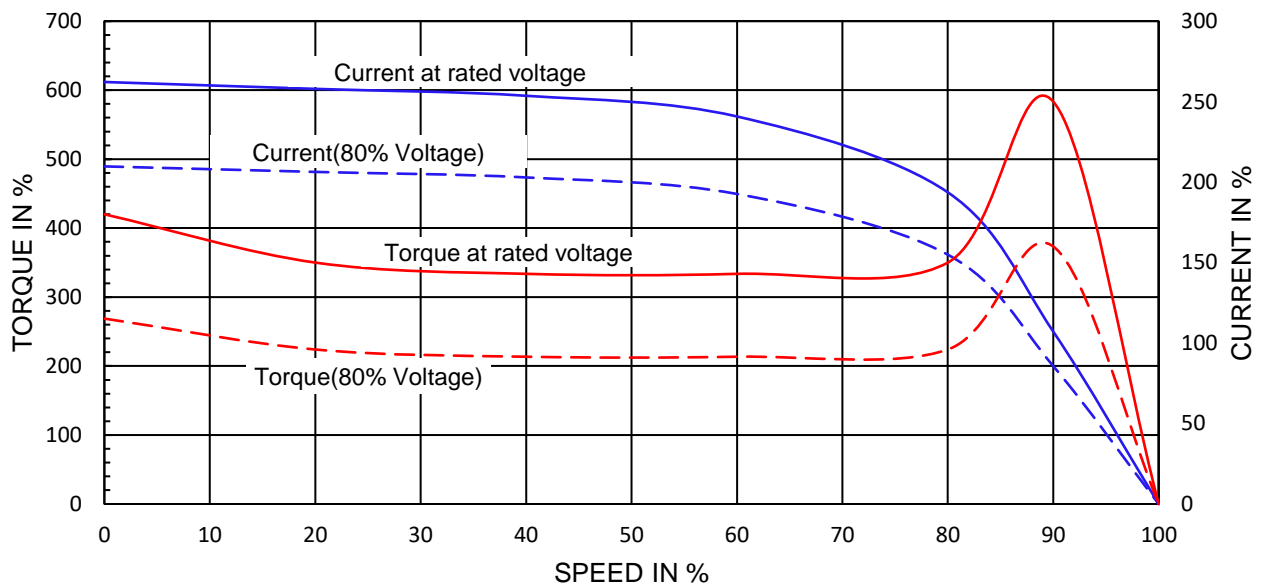
**PEWWE20-18-256TC**

Document Generated: 25-Jun-2020  
Document ID:

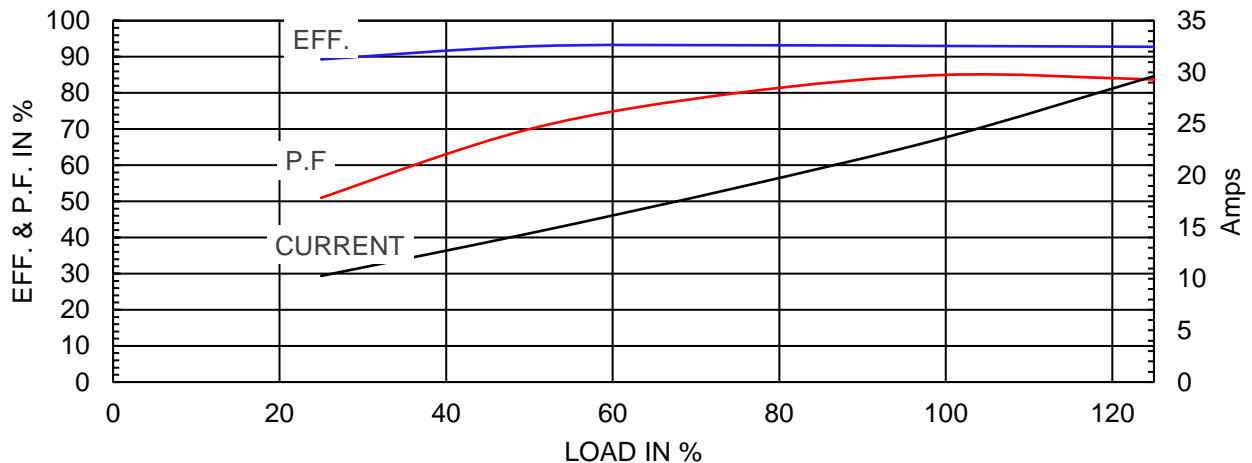
Customer:

Motor Type	PEWWE		FL Speed	1765	
Output Rating (HP)	20		LRT (%FLT)	180	460 volt FLA 23.7
Full Load Torque	59.5	lb.ft	BDT (%FLT)	250	230 volt FLA 47.4A
Rotor Wk <sup>2</sup>	1.94	lb-ft <sup>2</sup>			

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F. & CURRENT CURVE



# NAMEPLATE / WIRING

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



Premium Efficiency Motor: **PEWWE20-18-256TC**

Document Generated: 26-Sep-2019  
Document ID:

Customer:

## SAMPLE NAMEPLATE DATA

		<b>PREMIUM EFFICIENCY</b> <b>3-PHASE INDUCTION MOTOR</b>				CC006A ISO9001	259277 
<b>Model</b>	PEWWE20-18-256TC		<b>Ser No.</b>	ZP			<b>Low Voltage</b> 6 4 5 7 8 9 1 2 3 L1 L2 L3 <b>High Voltage</b> 4 5 6 7 8 9 1 2 3 L1 L2 L3
<b>HP</b>	20	<b>S.F.</b>	1.25	<b>Type</b>	Encl TEFC IP55		
<b>Frame</b>	256TC	<b>P.F.</b>	0.85	<b>Ins Cl</b>	Rating 40°C Amb Cont		
<b>Voltage</b>	230/460	<b>Hz</b>	60 Hz	<b>Design</b>	DE Brng 6309 C3		
<b>Amps</b>	47.4A /23.7A	<b>RPM</b>	1765	<b>Code</b>	ODE Brng 6209 C3		
<b>Nom. Eff.</b>	FL 93.0%	3/4	93.2%	230/460V		Date	
Usable on 208V network at 52 Amps 1.0SF		Class I DIV. 2 Groups A B C D		Amb.40°C	T3C(160°C)		
10:1 CT 20:1 VT PWM VFD 1.0SF		Class I Zone 2 IIC		Amb.55°C	T3A(180°C)		
50Hz 20 HP 200/400 V 55.9 / 28.0 A 1460 rpm S.F1.0							
<b>WorldWide Electric Corporation</b>							

