



DATA SHEET

Premium Efficiency Motor: **PEWWE10-18-215TC**

60 Hz

Document Generated: 14-Oct-2024
Document ID:

Customer:

MOTOR INFORMATION	
HP	10
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	230/460 V
Frame Size	215TC
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.25
Poles	4
Full Load Speed	1760
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	H
Duty Cycle	S1 / Continuous
Slip	2.22%
NEMA Design	B
Moment of Inertia	0.75 lb.ft.^2
Locked Rotor Time (Hot)	13 seconds
Sound Pressure Level	64 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	F1
Rotation	Bi-Directional
Area of Classification	Class 1 Division 2 Groups A,B,C,D T3C(160°C)
Inverter Rating	10:1 CT / 20:1 VT PWM Type
Standard	NEMA MG-1
Approvals	CSA-US, CE

EFFICIENCY/POWER FACTOR		
LOAD	EFF	P. F.
100%	91.7 %	0.84
75%	91.9 %	0.79
50%	91.6 %	0.69

TORQUE		
FULL LOAD	LRT	BDT
29.8 lb.ft.	170 %	280
%		

AMPERAGE INFORMATION		
	230V	460V
Full Load Amps	24.3A	12.2
Locked Rotor Amps	A	
No Load Current	162A	81A
Usable at 208V 10A 26.9A 5A		

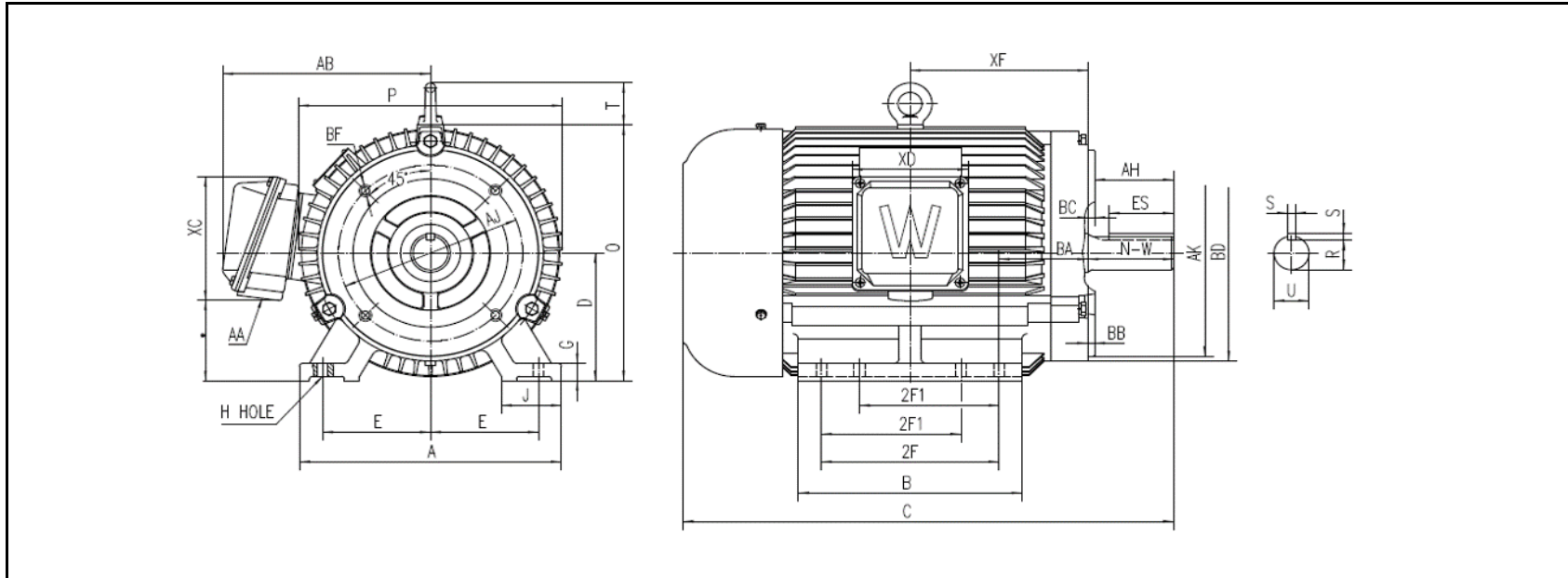
BEARING INFORMATION	
DE Bearing	6308ZZ C3
ODE Bearing Grease Ty	6207ZZ
pe DE Regreasing	C3
Interval	--
ODE Regreasing Interval	- Hours
	- Hours

ADDITIONAL DATA	
F2 Suitable	No
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 9 Lead
Approximate Weight	Δ
	179 lbs.



MOTOR DRAWING

Premium Efficiency Motor: **PEWWE10-18-215TC**



DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F	H	BA										
4.25	5.5	7	0.41	3.5	10.315	8.819	19.319	5.25	0.709	2.362	10.389	10.526	1.732	8.178

SHAFT & KEY					
S	ES	R	N-W	AH	U
0.312	2.41	1.201	3.38	3.12	1.375

TERMINAL BOX				
AA	XB	XC	XD	XF
1	3.296	5.098	4.567	7.002

FLANGE					
AJ	AK	BB	BD	BF	BC
7.25	8.5	0.25	8.898	1/2-13	0.25



PERFORMANCE CURVES

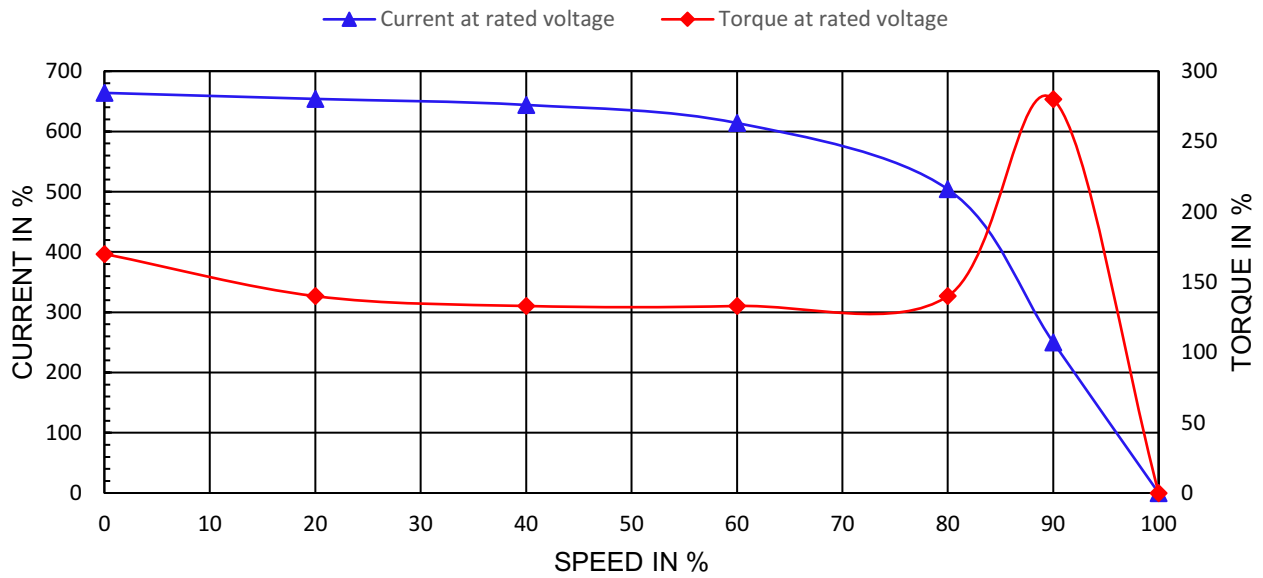
Premium Efficiency Motor: **PEWWE10-18-215TC**

Document Generated: 14-Oct-2024
 Document ID:

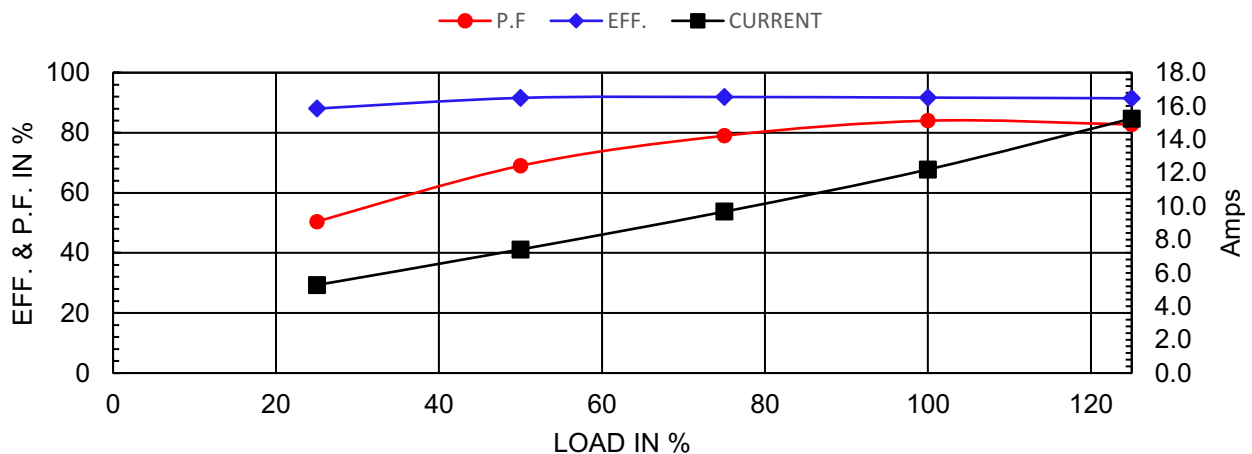
Customer:

Motor Type	PEWWE		FL Speed	1760	
Output Rating (HP)	10		LRT (%FLT)	170	460 volt FLA 12.2
Full Load Torque	29.8	lb.ft	BDT (%FLT)	280	230 volt FLA 24.3
Rotor Wk^2	0.75	lb-ft^2			

SPEED VS TORQUE & CURRENT CURVE



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





NAMEPLATE / WIRING

Premium Efficiency Motor: **PEWWE10-18-215TC**

Document Generated: 14-Oct-2024
 Document ID:

Customer:

SAMPLE NAMEPLATE DATA

		NEMA Premium		3-PHASE INDUCTION MOTOR		259277			
Model		Ser No.		Low Voltage		50Hz			
HP	S.F.	Rating	°C Amb Cont		6	4	5	1.0SF	
Frame	P.F.	IP	Encl	7		8	9	HP	
Voltage	Hz	Code	Type	1		2	3	%	
Amps	RPM	Ins Cl	Design	L1		L2	L3	V	
Nom.Eff.	FL	% 3/4	%	10:1 CT	20:1 VT	PWM	VFD	1.0SF	A
Class I DIV. 2 Groups A B C D		Amb.40°C	T3C(160°C)	4		5	6	rpm	
Class I Zone 2 IIC		Amb.55°C	T3A(180°C)	7		8	9		
Date		Grease type:		DE Brng		ODE Brng			
WorldWide Electric Corporation									

Model	PEWWE10-18-215TC								
HP	10	S.F.	1.25	IP	IP55	Encl	TEFC		
Frame	215TC	P.F.	0.84	Code	H	Type			
Voltage	230/460 V	Hz	60 Hz	Ins Cl	F	Ambient	40°C		
Amps	24.3/12.2	RPM	1760	Design	B	DE Brng	6308ZZ C3		
Nom.Eff.	FL	91.7%	3/4	91.9%	ODE Brng	6207ZZ C3			
Class 1 Division 2 Groups A,B,C,D				T3C(160°C)	Grease type: --				
50Hz									
10 HP		200/400 V		28.9/14.A		1455 rpm			
Eff. 88.7%									