



Electrical Helper.org
For All Your Electric Needs Since 1928
411 N Platte Ave. York, NE. 68467

AC-DC MOTORS :: SALES & SERVICE
REWINDING :: CUSTOM CONTROL PANEL

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DATA SHEET

Premium Efficiency Motor: **SSPE7.5-18-213TCRD,**

60 Hz

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Customer:

MOTOR INFORMATION

HP	7.5
RPM	1800
Phase	3
Frequency	60
Voltage	230/460
Frame Size	213TC
Enclosure	TEFC
Degree of Protection	IP69K
Service Factor	1.15
Poles	4
Full Load Speed	1755
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	H
Duty Cycle	S1
Slip	2.50%
NEMA Design	B
Moment of Inertia	0.927 lb.ft.^2
Locked Rotor Time (Hot)	12 seconds
Sound Pressure Level	69 dB(A)
Number of Starts	12
Max Ambient Temperature	40° C
Max Elevation	1000 m.a.s.l (3300 f.a.s.l)
Mounting	C-Face Round Body
Rotation	Bidirectional
Area of Classification	Class 1 Division 2 Gr. A,B,C,D - T3
Inverter Rating	6:1 CT/20:1 VT - T3
Standard	NEMA MG1, UL1004
Approvals	CSA,UL,CE

EFFICIENCY/POWER FACTOR

LOAD	EFF	P. F.
100%	91.7 %	0.83
75%	92.0 %	0.75
50%	90.0 %	0.65

TORQUE

FULL LOAD	LRT	BDT
22 lb.ft.	225 %	270 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	18.6	9.3
Locked Rotor Amps	127	63.5
No Load Current	9.4	4.7
Usable at 208V		20

BEARING INFORMATION

DE Bearing	6308 2RS
ODE Bearing	6208 2RS
Grease Type	Mobil Polyrex EM

ADDITIONAL DATA

F2 Suitable	No
Shaft Material	304 Stainless Steel
Connection Diagram	9 Lead 2Y/Y
Approximate Weight	178.5 lbs.



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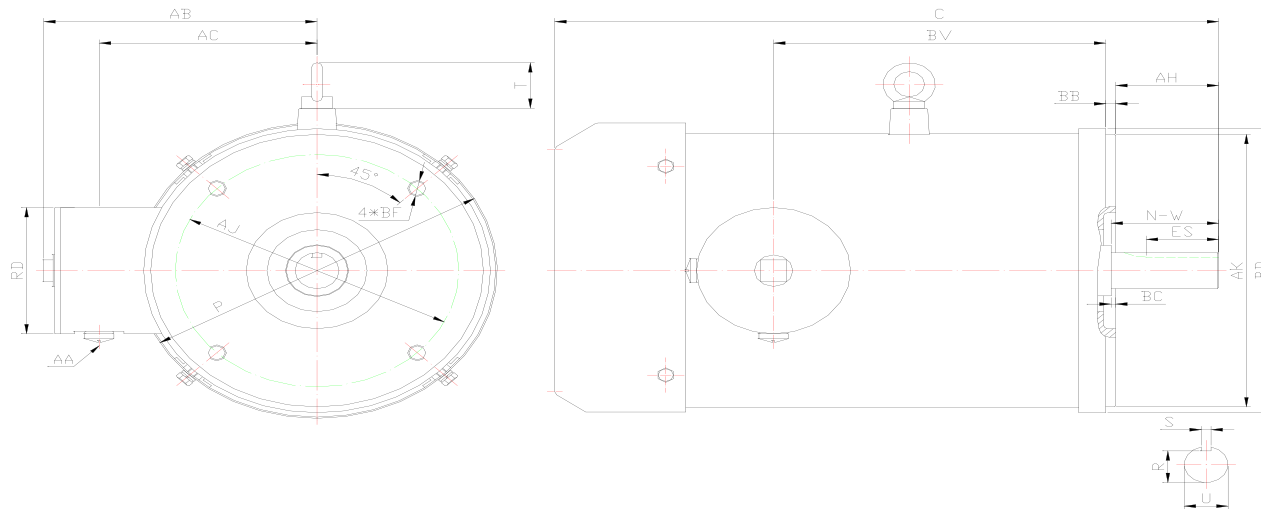
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MOTOR DRAWING

Premium Efficiency Motor: **SSPE7.5-18-213TCRD**



DIMENSION - INCHES

FLANGE MOUNTING						C	P	T	AB
AK	BD	AJ	BF	BB	BC				
8.5	10.08	7.25	4*1/2-13	0.25	0.25	20.7	10.7	1.75	7.85

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

TERMINAL BOX				
AA	AB	AC	RD	BV
1/2" NPT	7.85	6.41	3.95	11.15



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PERFORMANCE CURVES

Premium Efficiency Motor: **SSPE7.5-18-213TCRD**

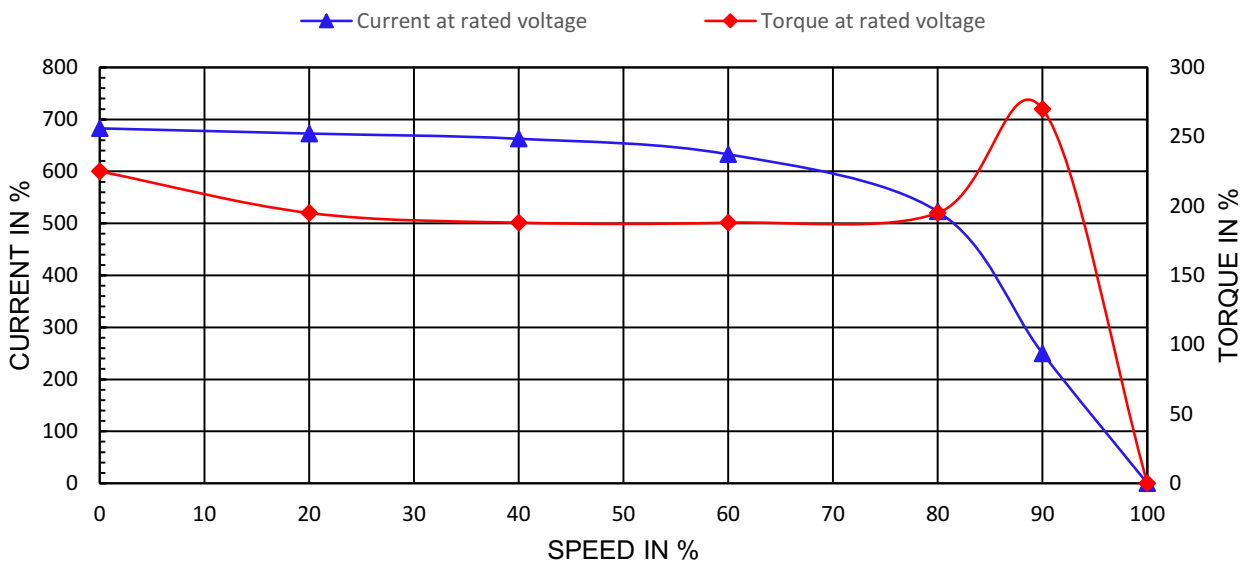
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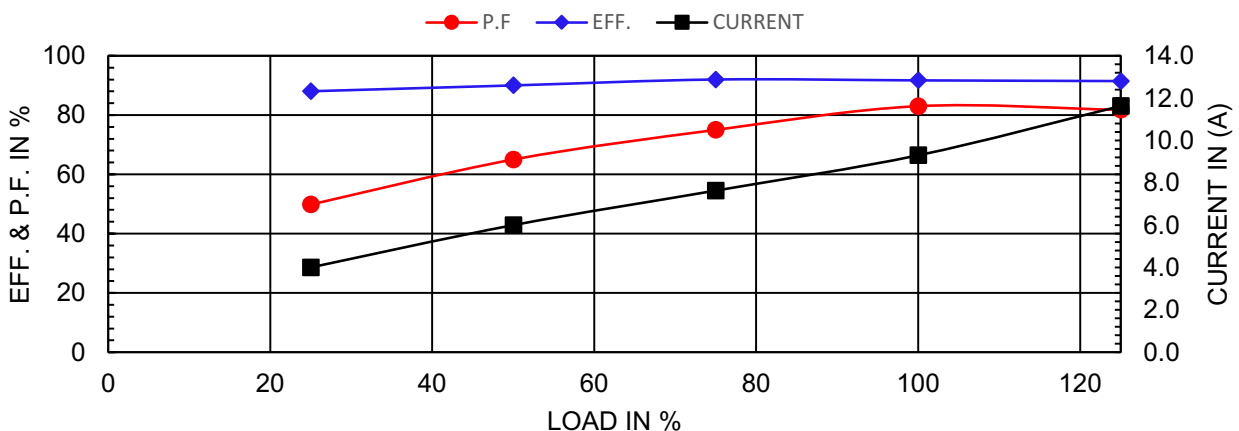
Customer:

Motor Type	SSPE		FL Speed	1755	
Output Rating (HP)	7.5		LRT (%FLT)	225	
Full Load Torque	22	lb.ft	460 volt FLA	9.3	
Rotor Wk^2	0.927	lb-ft^2	230 volt FLA	18.6	
			BDT (%FLT)	270	

SPEED VS TORQUE & CURRENT CURVE



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



NAMEPLATE / WIRING

Premium Efficiency Motor:

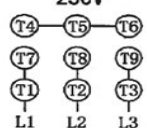
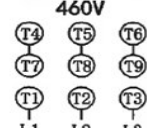
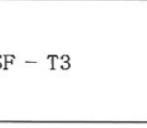
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SAMPLE NAMEPLATE DATA

THREE PHASE AC INDUCTION MOTOR									
								CC082A 	
Model.		FRAME		IP 69K		LB/WT		230V	
Hz 60	S. F. 1. 15	Hz 50	S. F. 1. 15	ENCL. TEFC		AMB. 40°C			
HP	RPM	HP	RPM	DUTY CONT		INS. F			
VOLTS 230/460		VOLTS 190/380		NEMA DES. B					
AMP		AMP		BRG DE					
CODE	P. F.	CODE	P. F.	BRG ODE					
EFF 8	MIN	IE3 -		NO.					
CSA Certified CLASS 1 DIV. 2, Gr A, B, C, D - T3 For Use on PWM:CT 10-60Hz , VT 3-60Hz - 1.00 SF - T3 Worldwide Electric Corporation - Fairport, NY									

Model	SSPE7.5-18-213TCRD			FRAME	213TC	LB/WT	178.5 lbs.
Hz	60	S.F.	1.15	Hz	50	S.F.	1.15
HP	7.5	RPM	1755	HP	5	RPM	1470
VOLTS		230/460		VOLTS		190/380	
AMPS		18.6/9.3		AMPS		15/7.5	
CODE	H	P.F.	0.83	CODE	J	P.F.	0.80
EFF	91.7%	MIN	90%	IE3 - 88.6%			
BRG DE		6308 2RS					
BRG ODE		6208 2RS					