



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
Kelly MacMillan
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DATA SHEET

Premium Efficiency Motor: **SSPE15-36-254TCRD,**

60 Hz

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Customer:

MOTOR INFORMATION

HP	15
RPM	3600
Phase	3
Frequency	60
Voltage	230/460
Frame Size	254TC
Enclosure	TEFC
Degree of Protection	IP69K
Service Factor	1.15
Poles	2
Full Load	3540
Speed	F
Temperature Class	80°C
NEMA Code Letter	G
Duty Cycle	S1
Slip	1.67%
NEMA Design	B
Moment of Inertia	0.94 lb.ft.^2
Locked Rotor Time	12 seconds
(Hot) Sound Pressure	74 dB(A)
Number of Starts	10
Max Ambient Temperature	40° C
Max Elevation	1000 m.a.s.l (3300 f.a.s.l)
Mounting	F1
Rotation	Bidirectional
Area of Classification	Div.2 Class I, Gr. A,B,C&D T2B
Inverter Rating	10:1 CT/20:1 VT
Standard	NEMA MG1,
Approvals	UL1004 CSA,UL,CE

EFFICIENCY/POWER

FACTOR	LOAD EFF	P. F.
100%	91.0	
%	0.975 %	0.8
50%	5	
	90.0 %	0.7
	6	

TORQUE

FULL LOAD	LRT	BD
72 lb.ft.	200 %	260 %

AMPERAGE INFORMATION

	230V	460
Full Load Amps	V	
Locked Rotor	37	18.
Amps No Load	5	4.5
Current Usable at 208V	232	116
	9	40

BEARING INFORMATION

DE Bearing	6309 2RS
ODE	6309 2RS
Bearing	Mobil Polyrex
Grease Type	EM

ADDITIONAL DATA

F2 Suitable	No
Shaft Material	304 Stainless Steel
Connection Diagram	12 Lead 2Δ/Δ
Approximate Weight	361 lbs.



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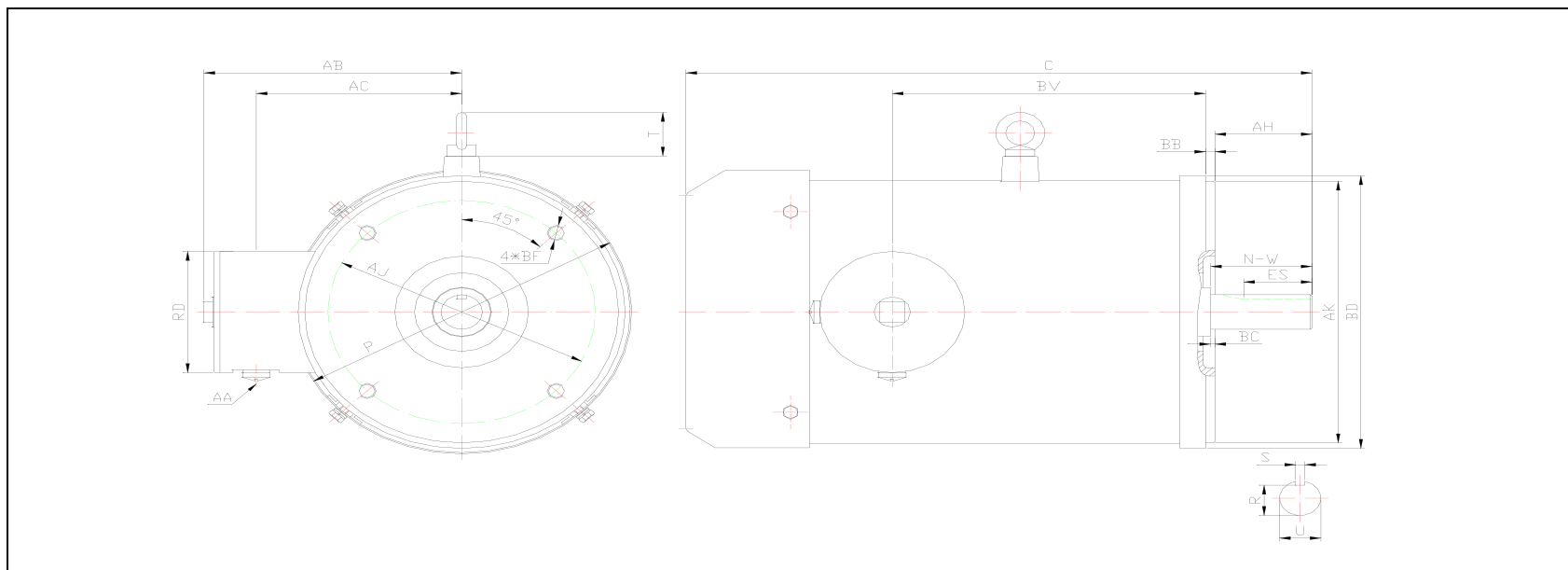
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MOTOR DRAWING

Premium Efficiency Motor: **SSPE15-36-254TCRD**



DIMENSION - INCHES

FLANGE MOUNTING						C	P	T	AB
AK	BD	AJ	BF	BB	BC				
8.5	11.72	7.25	4*1/2-13	0.25	0.25	23.2	12.7	2.1	8.9

SHAFT & KEY					
S	ES	R	N-W	U	AH
0.375	2.91	1.416	4	1.625	3.75

TERMINAL BOX				
AA	AB	AC	RD	BV
3/4 NPT	8.9	7.25	5.12	12.65



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PERFORMANCE CURVES

Premium Efficiency Motor:

SSPE15-36-254TCRD

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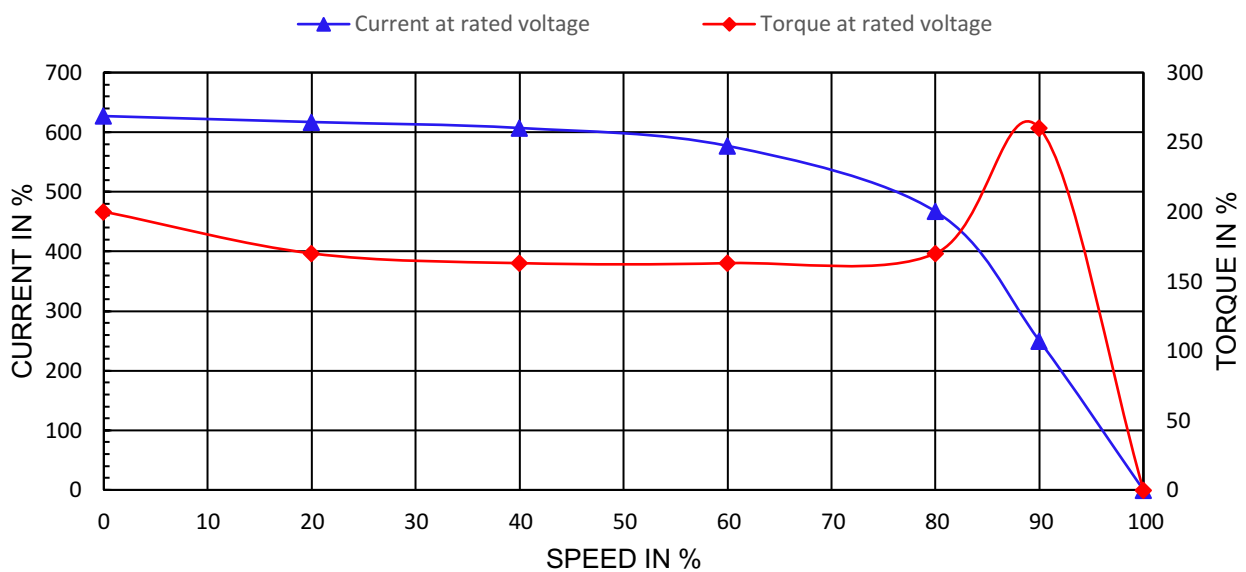
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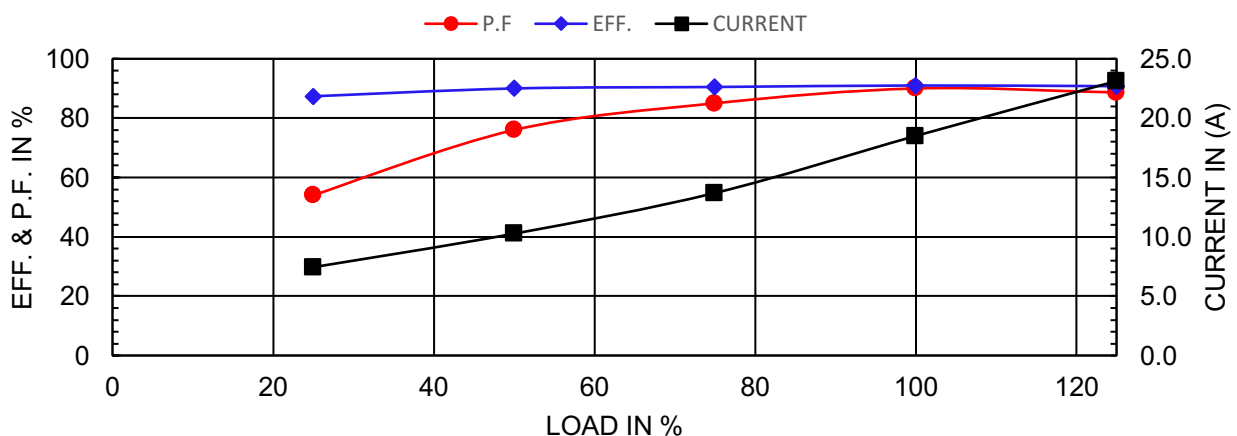
Motor Type	SSPE				
Output Rating	15		FL Speed	3540	
(HP) Full Load	22	lb.ft	LRT (%FLT)	200	460 volt FLA 18.5
Torque Rotor	0.94	lb-ft^2	BDT (%FLT)	260	230 volt FLA 37

Wk^2

SPEED VS TORQUE & CURRENT CURVE



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





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NAMEPLATE / WIRING

Premium Efficiency Motor:

SSPE15-36-254TCRD

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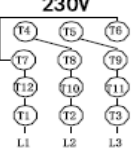
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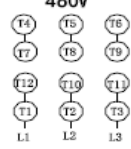
SAMPLE NAMEPLATE DATA

 THREE PHASE AC INDUCTION MOTOR INVERTER DUTY 20:1 VT 10:1 CT					
Model .		FRAME		IP 69K	LB/WT
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	MIN	IE3 -		NO.	
    CC082A					

230V



460V



Model	SSPE15-36-254TCRD			FRAME	254TC	LB/WT	361
lbs. Hz	60	S.F.	1.15	Hz	50	S.F.	1.15
HP	15	RPM	3540	HP	10	RPM	2950
VOLTS 230/460				VOLTS 190/380			
AMPS 37/18.5				AMPS 30.0/15.0			
CODE	G	P.F.	0.9	CODE	J	P.F.	0.82
EFF	91%	MIN	90%	IE3 - 90.1%			
BRG DE 6309 2RS							
BRG ODE 6309							
2RS							