



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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WorldWide
ELECTRIC CORPORATION



DATA SHEET

Premium Efficiency Motor: **SSPE3-36-145TC,**

60 Hz

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MOTOR INFORMATION

HP	3
RPM	3600
Phase	3
Frequency	60
Voltage	230/460
Frame Size	145TC
Enclosure	TEFC
Degree of Protection	IP69K
Service Factor	1.15
Poles	2
Full Load	3500
Speed	F
Temperature Class	80°C
NEMA Code Letter	K
Duty Cycle	S1
Slip	2.78%
NEMA Design	B
Moment of Inertia	0.125 lb.ft.^2
Locked Rotor Time	12 seconds
(Hot) Sound Pressure	78 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%		86.5	
%	0.918	75.5%	0.8
50%		7	
		85.0%	0.7
		7	

TORQUE

FULL LOAD	LRT	BD
4.4 lb.ft.	250 %	300 %

AMPERAGE INFORMATION

	230V	460
Full Load Amps	V	
Locked Rotor	7.2	3.
Amps No Load	6	
Current Usable at 208V	64	32
	2.8	1.

BEARING INFORMATION

DE Bearing	6308 2RS
ODE Bearing	6306 2RS
Grease Type	Mobil Polyrex
	EM

ADDITIONAL DATA

F2 Suitable	No
Shaft Material	304 Stainless Steel
Connection Diagram	9 Lead 2Y/Y
Approximate Weight	60 lbs.

MOTOR DRAWING

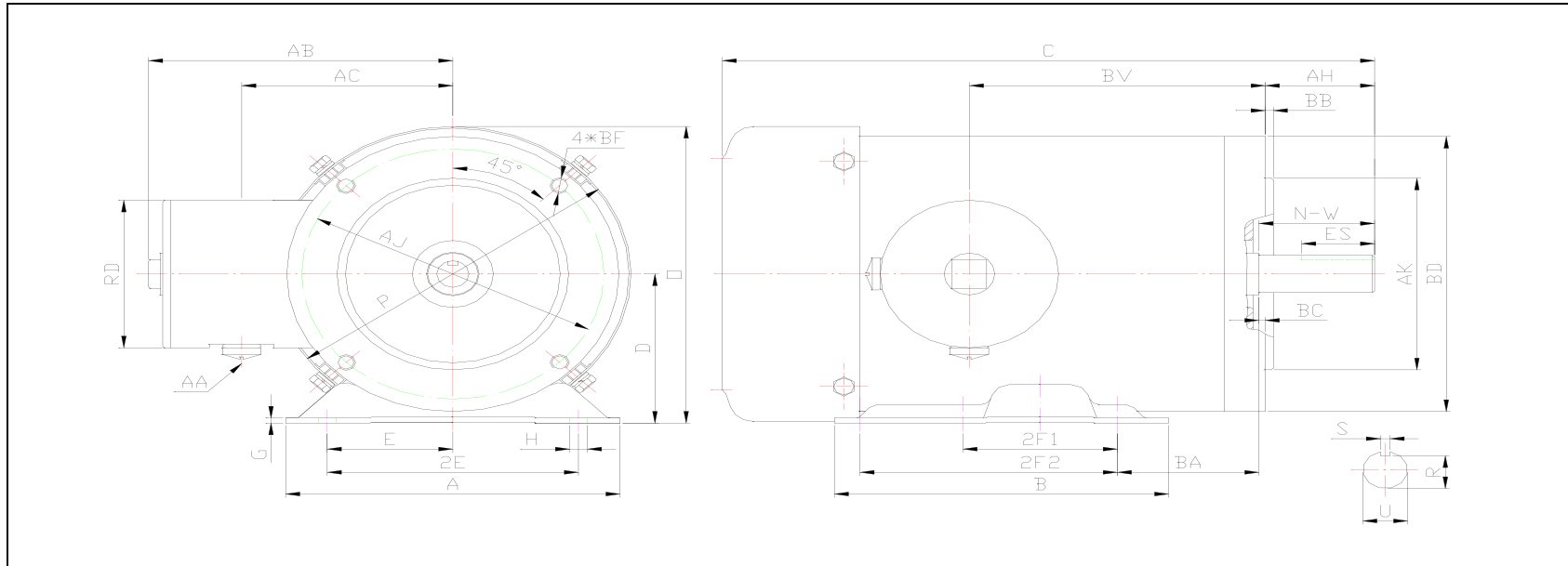
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DIMENSION - INCHES

MOUNTING					A	B	C	D	G	P	O	T	AB
E	2F1	2F2	H	BA									
2.75	3	5	1.22*0.34	2.75	6.5	6.5	12.63	3.5	0.118	6.95	6.98	N/A	5.95

SHAFT & KEY					
S	ES	R	N-W	U	AH
0.188	1.41	0.771	2.25	0.875	2.12

TERMINAL BOX				
AA	AB	AC	RD	BV
1/2 NPT	5.95	4.5	3.45	5.75

FLANGE					
AK	BD	AJ	BF	BB	BC
4.5	6.45	5.875	4*3/8-16	0.16	0.12



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PERFORMANCE CURVES

Premium Efficiency Motor:

SSPE3-36-145TC

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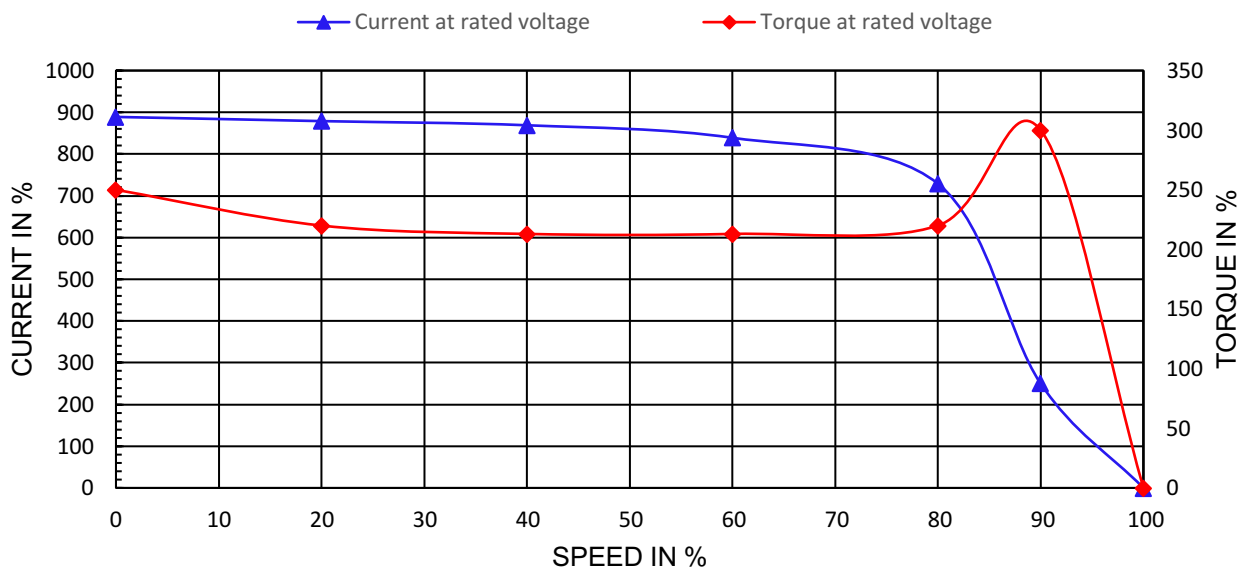
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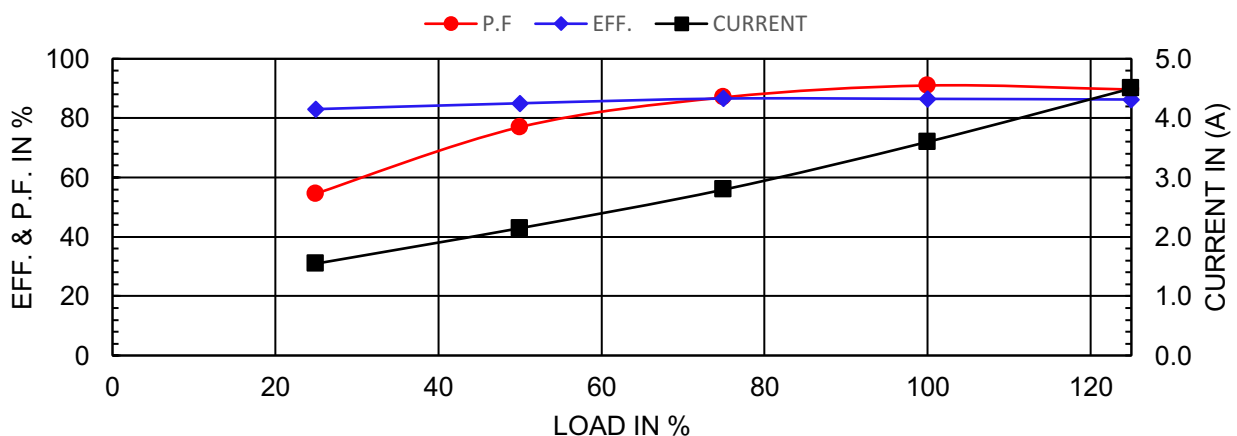
Motor Type	SSPE		FL Speed	3500	
Output Rating	3		LRT (%FLT)	250	460 volt FLA 3.6
(HP) Full Load	4.4	lb.ft	BDT (%FLT)	300	230 volt FLA 7.2
Torque Rotor	0.125	lb-ft^2			

Wk^2

SPEED VS TORQUE & CURRENT CURVE



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





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NAMEPLATE / WIRING

Premium Efficiency Motor: **SSPE3-36-145TC**

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SAMPLE NAMEPLATE DATA

		THREE PHASE AC INDUCTION MOTOR				NEMA®	
		INVERTER DUTY 20:1 VT 10:1 CT				Premium	
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.			
				602259		E517327	

Model	SSPE3-36-145TC			FRAME	145TC		LB/WT	60 lbs.	
Hz	60	S.F.	1.15	Hz	50		S.F.	1.15	
HP	3	RPM	3500	HP		2	RPM	2940	
VOLTS		230/460		VOLTS		190/38			
AMPS		7.2/3.6		AMPS		0			
CODE	K	P.F.	0.91	CODE	6.6		B.B.	0.80	
EFF	86.5%	MIN	85%	IE3 -		84.2%			
BRG DE		6308							
2RS BRG									
ODE		6306 2RS							