



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: **SSPE3-18-145TC,**

60 Hz

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MOTOR INFORMATION

HP	3
RPM	1800
Phase	3
Frequency	60
Voltage	230/460
Frame Size	145TC
Enclosure	TEFC
Degree of Protection	IP69K
Service Factor	1.15
Poles	4
Full Load	1750
Speed	F
Temperature Class	80°C
NEMA Code Letter	K
Duty Cycle	S1
Slip	2.78%
NEMA Design	B
Moment of Inertia	0.253 lb.ft.^2
Locked Rotor Time	12 seconds
(Hot) Sound Pressure	64 dB(A)
Number of Starts	12
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%		89.5	
%	0.8	89.6 %	0.7
50%		4	
		88.2 %	0.6

TORQUE

FULL LOAD	LRT	BD
8.8 lb.ft.	270 %	310 %

AMPERAGE INFORMATION

	230V	460
Full Load Amps	V	
Locked Rotor	8.2	4.1
Amps No Load	64	32
Current Usable at 208V	4	9

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	65 lbs.



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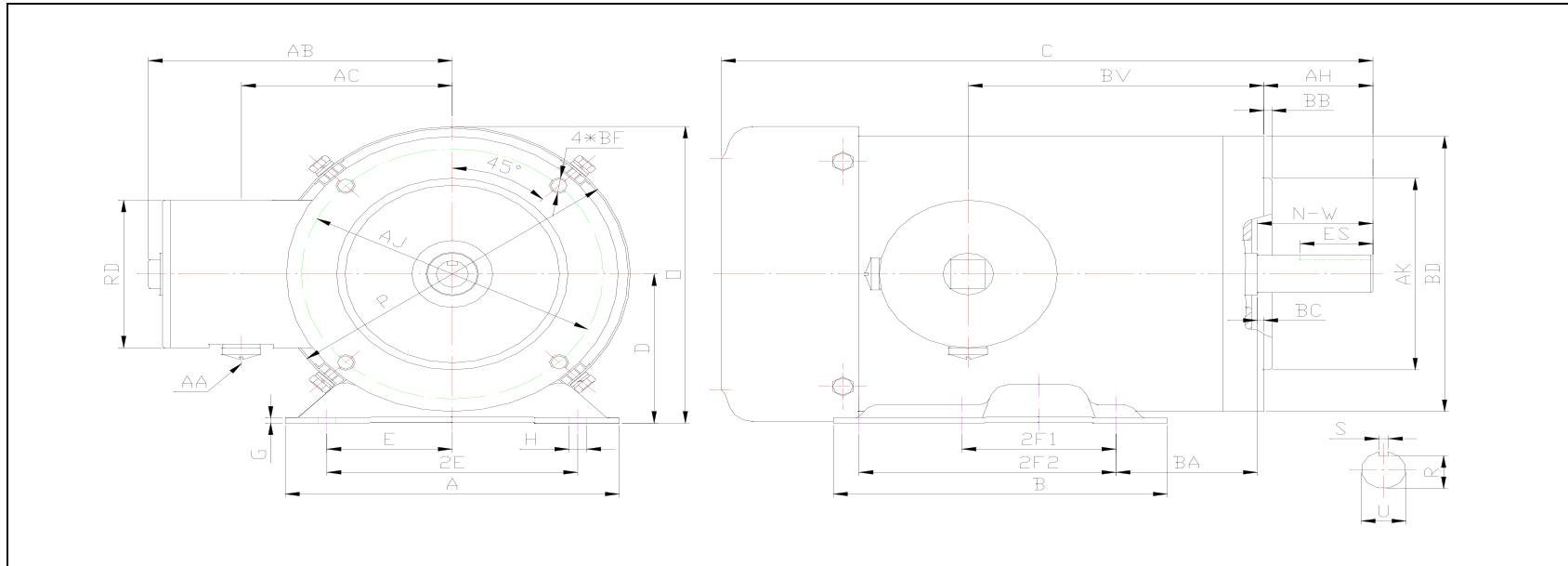
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MOTOR DRAWING

Premium Efficiency Motor: **SSPE3-18-145TC**



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



PERFORMANCE CURVES

Premium Efficiency Motor:

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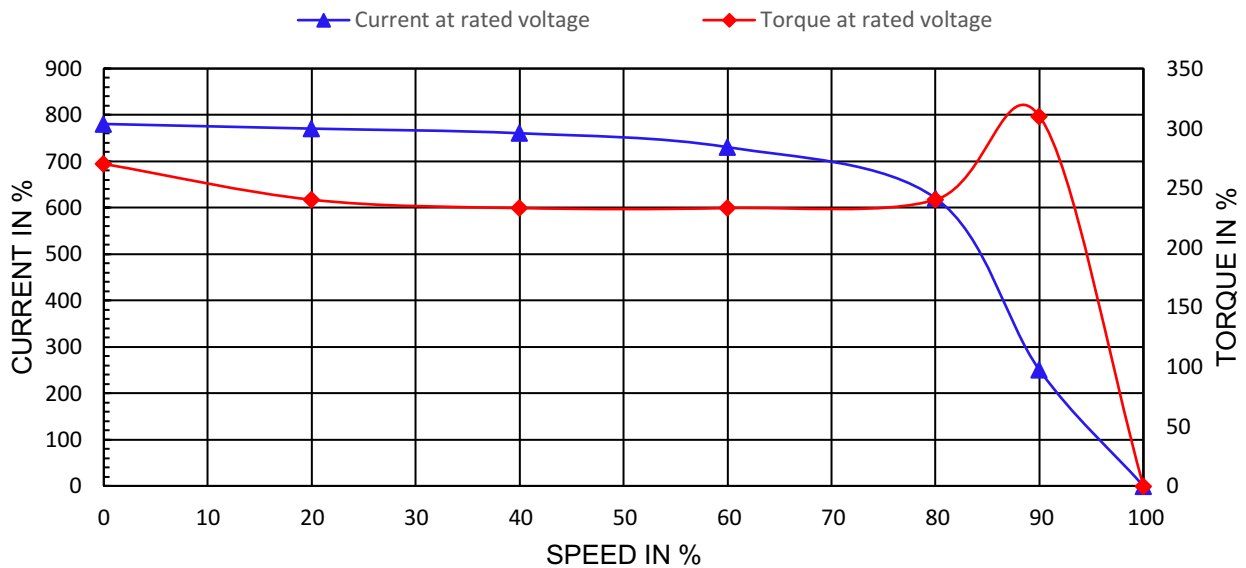
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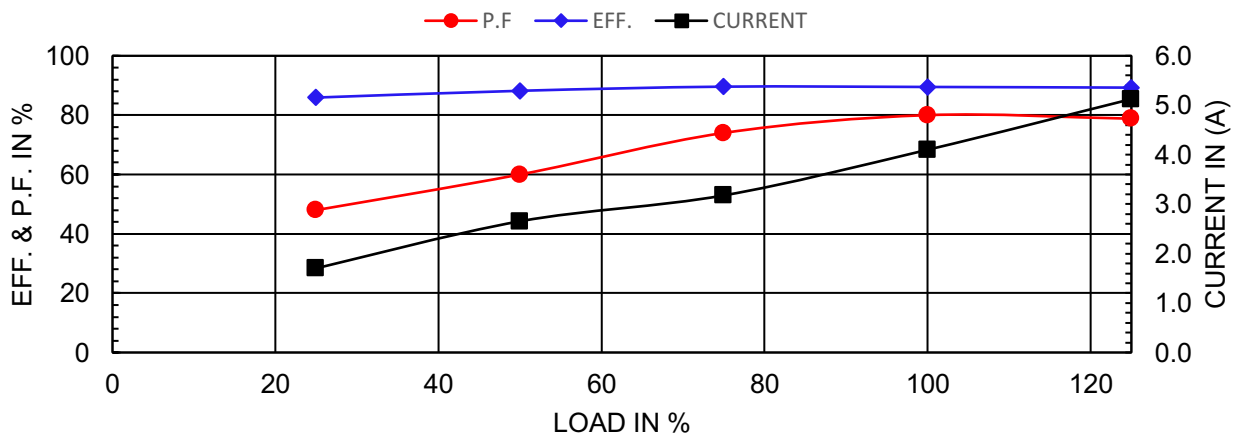
Motor Type	SSPE		FL Speed	1750	
Output Rating	3		LRT (%FLT)	270	460 volt FLA 4.1
(HP) Full Load	8.8	lb.ft	BDT (%FLT)	310	230 volt FLA 8.2
Torque Rotor	0.253	lb-ft^2			

Wk^2

SPEED VS TORQUE & CURRENT CURVE



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





NAMEPLATE / WIRING

Premium Efficiency Motor: **SSPE3-18-145TC**

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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		230V 460V
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.			
				C 602259 US		E517327	

Model	SSPE3-18-145TC			FRAME	145TC		LB/WT	65 lbs.	
Hz	60	S.F.	1.15	Hz	50		S.F.	1.15	
HP	3	RPM	1750	HP		2	RPM	1470	
VOLTS		230/460		VOLTS		190/38			
AMPS		8.2/4.1		AMPS		0			
CODE	K	P.F.	0.8	CODE	6.6		B.B.	0.78	
EFF	89.5%	MIN	88.2%	IE3 -					
85.3% BRG DE 6308									
2RS BRG									
ODE 6306 2RS									