



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: **SSPE2-12-184TC,**

60 Hz

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MOTOR INFORMATION

HP	2
RPM	1200
Phase	3
Frequency	60
Voltage	230/460
Frame Size	184TC
Enclosure	TEFC
Degree of Protection	IP69K
Service Factor	1.15
Poles	6
Full Load	1175
Speed	F
Temperature Class	80°C
NEMA Code Letter	L
Duty Cycle	S1
Slip	2.08%
NEMA Design	B
Moment of Inertia	0.61 lb.ft.^2
Locked Rotor Time	12 seconds
(Hot) Sound Pressure	57 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%		88.5	
%	0.718	75%	0.6
50%		5	
		77.0 %	0.5
		7	

TORQUE

FULL LOAD	LRT	BD
8.8 lb.ft.	255 %	270 %

AMPERAGE INFORMATION

	230V	460
Full Load Amps	V	
Locked Rotor	6.1	3.05
Amps No Load	50	25
Current Usable at 208V	3.8	1.9
	7	

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	98 lbs.



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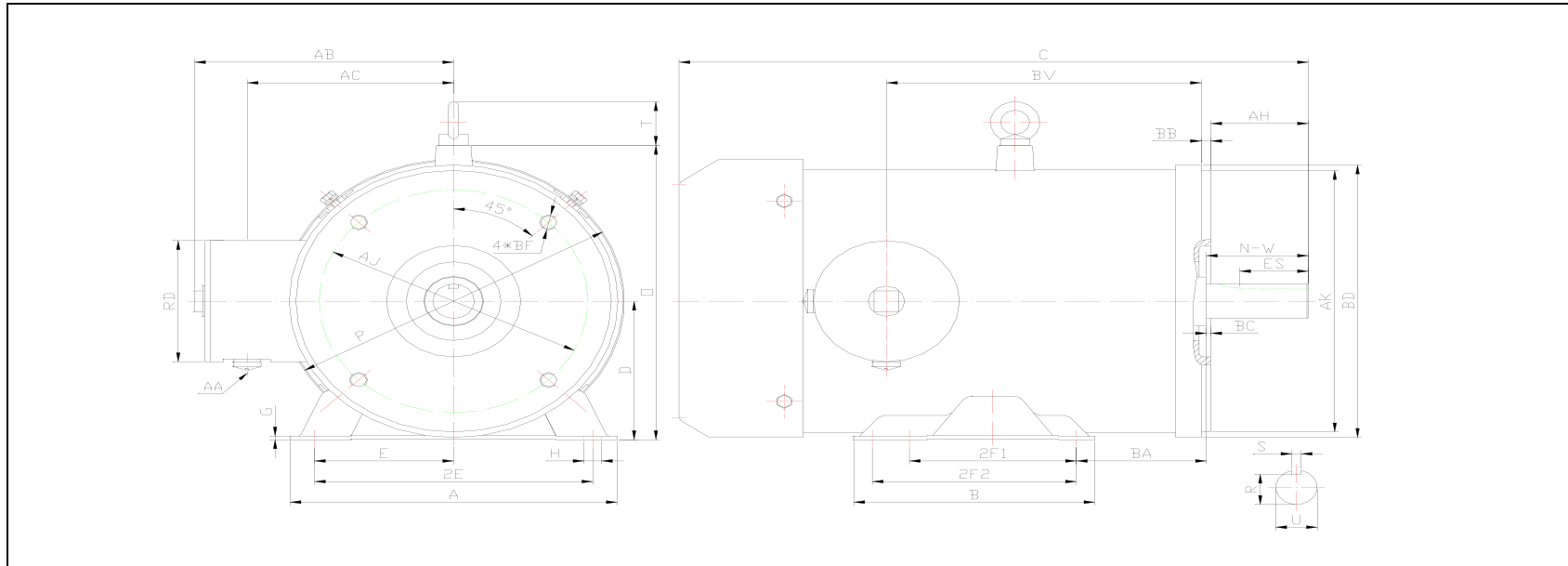
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MOTOR DRAWING

Premium Efficiency Motor: **SSPE2-12-184TC**



DIMENSION - INCHES

MOUNTING					A	B	C	D	G	P	O	T	AB
E	2F1	2F2	H	BA									
3.75	4.5	5.5	0.71*0.47	3.5	8.8	6.5	17	4.5	0.118	9.25	9.55	1.45	7

SHAFT & KEY					
S	ES	R	N-W	U	AH
0.25	1.78	0.986	2.75	1.125	2.62

TERMINAL BOX				
AA	AB	AC	RD	BV
1/2 NPT	7	5.55	3.95	8.5

FLANGE					
AK	BD	AJ	BF	BB	BC
8.5	8.85	7.25	4*1/2-13	0.25	0.12



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PERFORMANCE CURVES

Premium Efficiency Motor:

SSPE2-12-184TC

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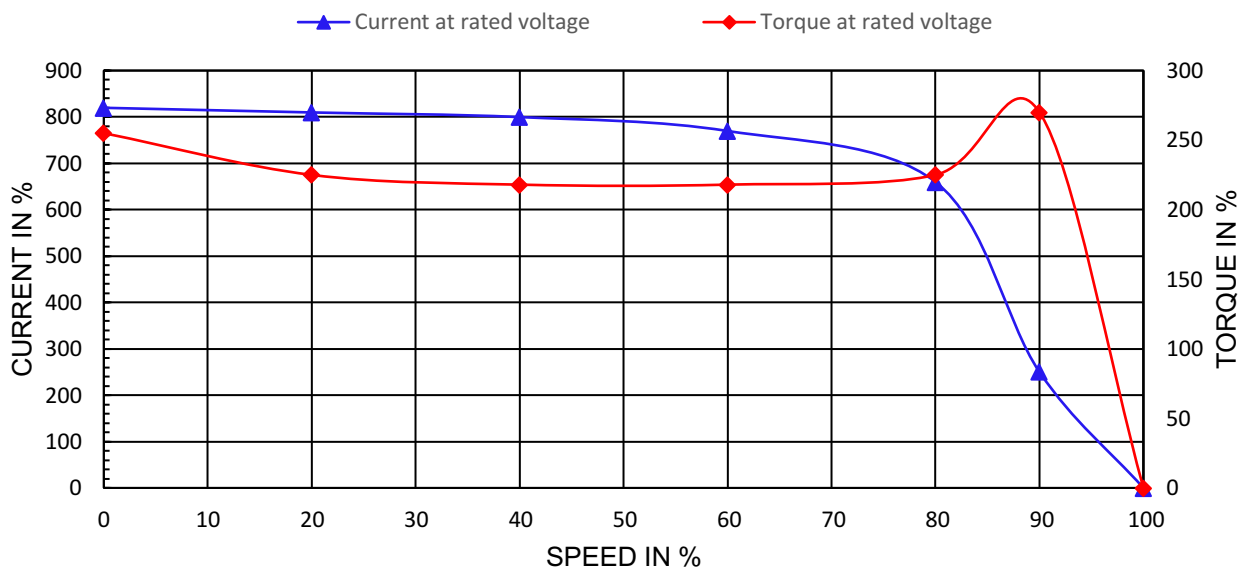
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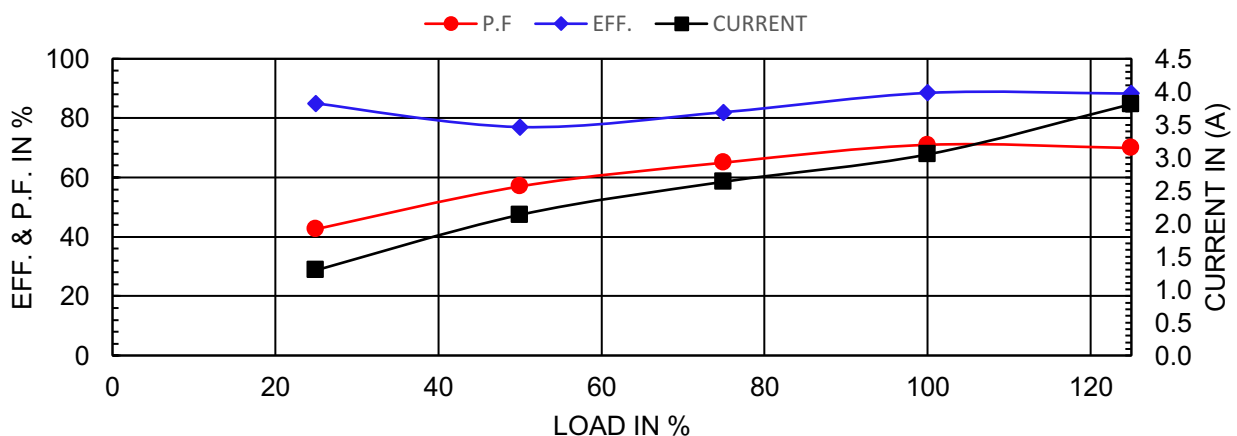
Motor Type	SSPE		FL Speed	1175	
Output Rating	2		LRT (%FLT)	255	460 volt FLA 3.05
(HP) Full Load	8.8	lb.ft	BDT (%FLT)	270	230 volt FLA 6.1
Torque Rotor	0.61	lb-ft^2			

Wk^2

SPEED VS TORQUE & CURRENT CURVE



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





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NAMEPLATE / WIRING

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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					

Model	SSPE2-12-184TC			FRAME	184TC	LB/WT	98 lbs.
Hz	60	S.F.	1.15	Hz	50	S.F.	1.15
HP	2	RPM	1175	HP	1 1/2	RPM	980
VOLTS 230/460				VOLTS 190/38			
AMPS 6.1/3.05				AMPS 0			
CODE	L	P.F.	0.71	CODE	56/2.8		0.73
EFF	88.5%	MIN	77%	IE3 -			
81% BRG DE 6308							
2RS BRG							
ODE 6306 2RS							