



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: **SSPE1-36-56C,**

60 Hz

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MOTOR INFORMATION

HP	1
RPM	3600
Phase	3
Frequency	60
Voltage	230/460
Frame Size	56C
Enclosure	TEFC
Degree of Protection	IP69K
Service Factor	1.15
Poles	2
Full Load	3470
Speed	F
Temperature Class	80°C
NEMA Code Letter	N
Duty Cycle	S1
Slip	3.61%
NEMA Design	B
Moment of Inertia	0.054 lb.ft.^2
Locked Rotor Time	12 seconds
(Hot) Sound Pressure	76 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%	77.0	
%	0.9750 %	0.8
50%	6	
	74.0 %	0.7
	8	

TORQUE

FULL LOAD	LRT	BD
1.5 lb.ft.	285 %	300 %

AMPERAGE INFORMATION

	230V	460
Full Load Amps	V	
Locked Rotor	2.8	1.
Amps No Load	4	
Current Usable at 208V	30	15
	1.4	0.

BEARING INFORMATION

DE Bearing	6205 2RS
ODE Bearing	6205 2RS
Grease Type	Mobil Polyrex
	EM

ADDITIONAL DATA

F2 Suitable	No
Shaft Material	304 Stainless Steel
Connection Diagram	9 Lead 2Y/Y
Approximate Weight	35 lbs.



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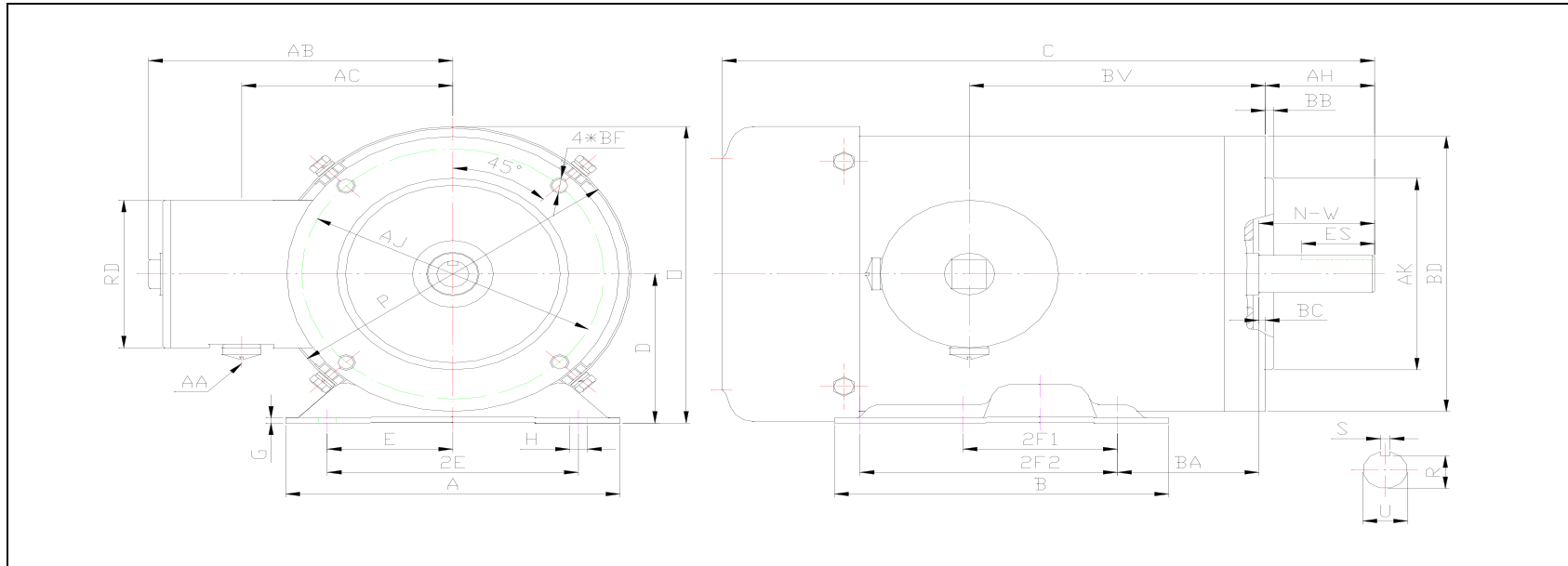
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MOTOR DRAWING

Premium Efficiency Motor: **SSPE1-36-56C**



DIMENSION - INCHES

MOUNTING					A	B	C	D	G	P	O	T	AB
E	2F1	2F2	H	BA									
2.44	3	5	1.22*0.34	2.75	6.5	6.5	12.57	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	0.517	1.88	0.625	2.06

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	-0.19



PERFORMANCE CURVES

Premium Efficiency Motor:

SSPE1-36-56C

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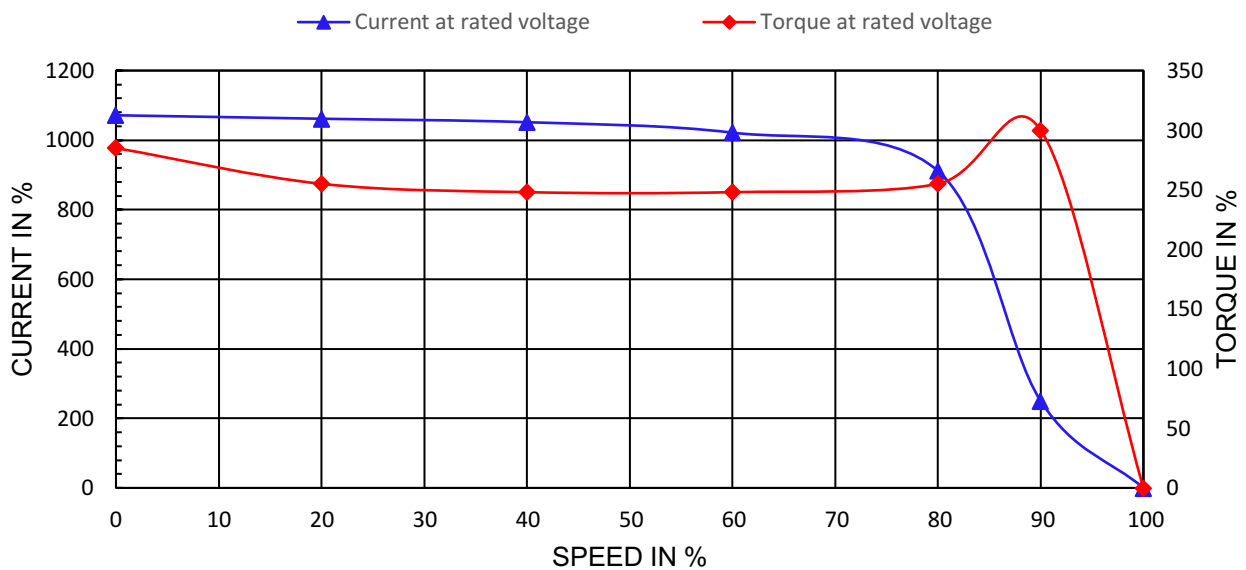
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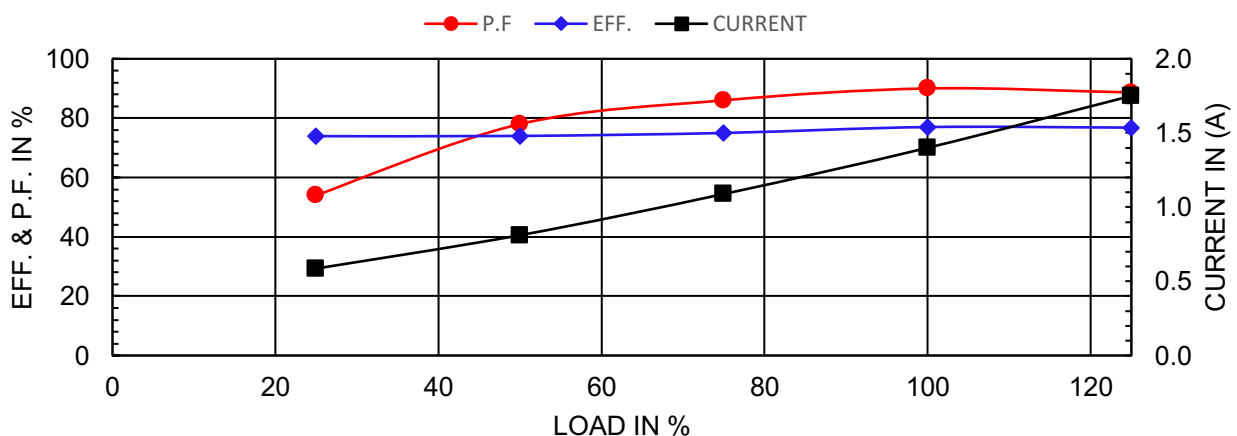
Motor Type	SSPE		FL Speed	3470	
Output Rating	1		LRT (%FLT)	285	460 volt FLA 1.4
(HP) Full Load	1.5	lb.ft	BDT (%FLT)	300	230 volt FLA 2.8
Torque Rotor	0.054	lb-ft^2			

Wk^2

SPEED VS TORQUE & CURRENT CURVE



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



NAMEPLATE / WIRING

Premium Efficiency Motor: **SSPE1-36-56C**



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SAMPLE NAMEPLATE DATA

		THREE PHASE AC INDUCTION MOTOR				NEMA® Premium	
		INVERTER DUTY 20:1 VT 10:1 CT					
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		460V 	
AMP		AMP		BRG DE			
CODE	P. F.	CODE	P. F.	BRG ODE			
EFF	MIN	IE3 -		NO.			
				C 502259 US		E 517327	
CC082A							

Model	SSPE1-36-56C			FRAME	56C	LB/WT	35 lbs.
Hz	60	S.F.	1.15	Hz	50	S.F.	1.15
HP	1	RPM	3470	HP	3/4	RPM	2890
VOLTS			230/460	VOLTS			190/380
AMPS			2.8/1.4	AMPS			2.5/1.2
CODE	N	P.F.	0.9	CODE	5 N	P.F.	0.85
EFF	77%	MIN	74%	IE3 - 77.8%			
BRG DE			6205				
2RS BRG							
ODE			6205 2RS				