



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: **SSPE12-18-56C,**

60 Hz

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MOTOR INFORMATION

HP	1/2
RPM	1800
Phase	3
Frequency	60
Voltage	230/460
Frame Size	56C
Enclosure	TEFC
Degree of Protection	IP69K
Service Factor	1.15
Poles	4
Full Load	1745
Speed	F
Temperature Class	80°C
NEMA Code Letter	R
Duty Cycle	S1
Slip	3.06%
NEMA Design	B
Moment of Inertia	0.069 lb.ft.^2
Locked Rotor Time	12 seconds
(Hot) Sound Pressure	60 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%		78.5	
%	0.7175	75%	0.6
50%		2	
		71.0 %	0.5
		2	

TORQUE

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

AMPERAGE INFORMATION

	230V	460
Full Load Amps	V	
Locked Rotor	1.6	0.8
Amps No Load	20	10
Current Usable at 208V	1.36	2 0.68

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	30 lbs.



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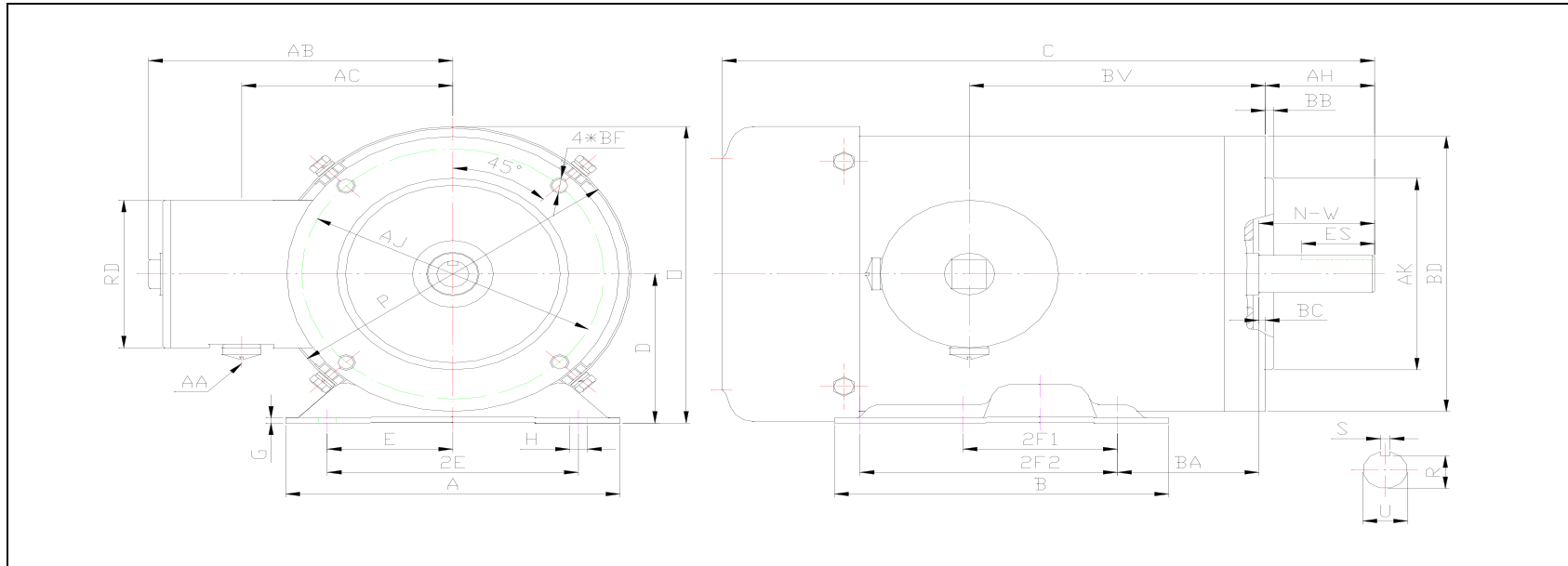
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MOTOR DRAWING

Premium Efficiency Motor: **SSPE12-18-56C**



DIMENSION - INCHES

MOUNTING					A	B	C	D	G	P	O	T	AB
E	2F1	2F2	H	BA									
2.44	3	N/A	1.22*0.34	2.75	6.5	5	11.59	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	4.75

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:

SSPE12-18-56C

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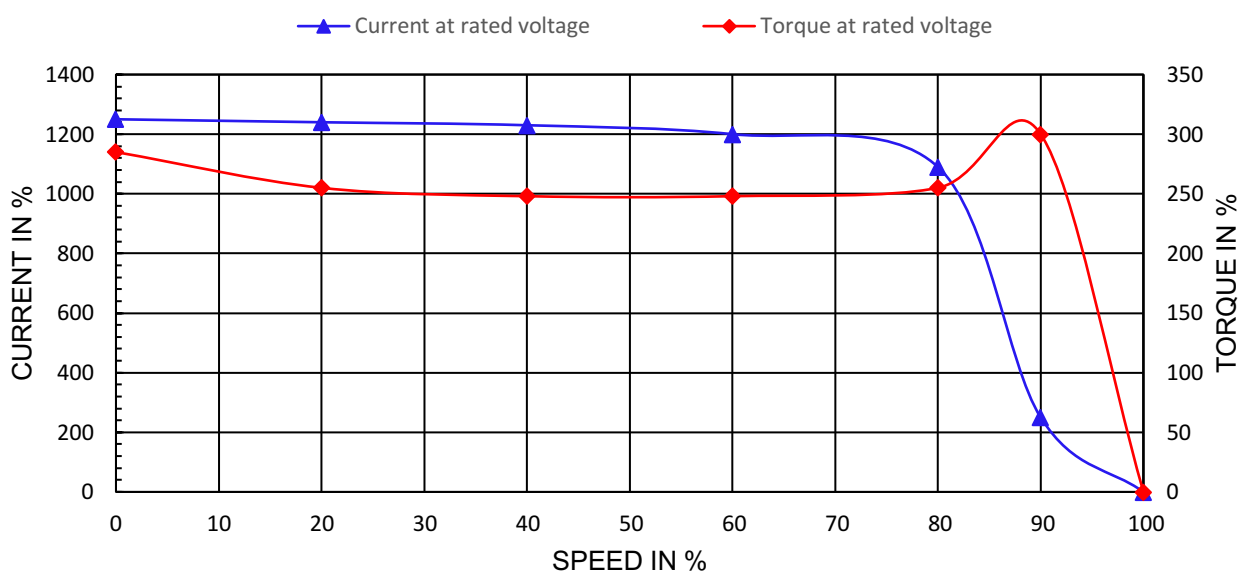
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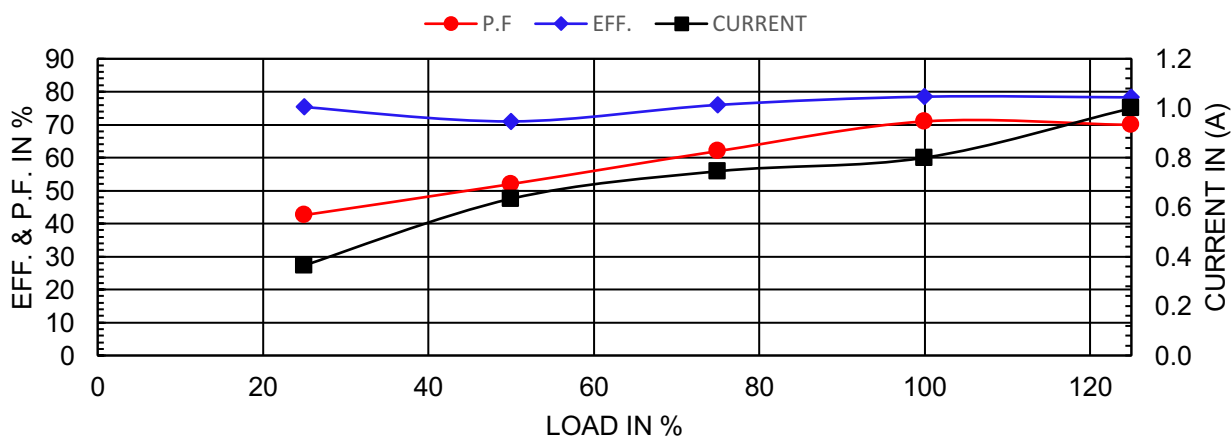
Motor Type	SSPE		FL Speed	1745	
Output Rating	1/2		LRT (%FLT)	285	460 volt FLA 0.8
(HP) Full Load	1.5	lb.ft	BDT (%FLT)	300	230 volt FLA 1.6
Torque Rotor	0.069	lb-ft^2			

Wk^2

SPEED VS TORQUE & CURRENT CURVE



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



NAMEPLATE / WIRING

Premium Efficiency Motor: **SSPE12-18-56C**



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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.			

Model	SSPE12-18-56C	FRAME	56C	LB/WT	30 lbs.
Hz	60	S.F.	1.15	Hz	50
HP	1/2	RPM	1745	HP	1/3
VOLTS	230/460	VOLTS	190/380		
AMPS	1.6/0.8	AMPS	1.6/0.8		
CODE	R	P.F.	0.71	CODE	P
EFF	78.5%	MIN	71%	IE3 -	
	73.5% BRG DE	6205			
	2RS BRG				
ODE	6205 2RS				