



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: **SSPE1.5-18-56C,**

60 Hz

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MOTOR INFORMATION

HP	1.5
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	1750
Speed	F
Temperature Class	80°C
NEMA Code Letter	M
Duty Cycle	S1
Slip	2.78%
NEMA Design	B
Moment of Inertia	0.138 lb.ft.^2
Locked Rotor Time	12 seconds
(Hot) Sound Pressure	61 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%	86.5	
%	0.7583%	0.6
50%	1	
	79.0 %	0.5

TORQUE

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

AMPERAGE INFORMATION

	230V	460
Full Load Amps	V	
Locked Rotor	4	2
Amps No Load	40	20
Current Usable at 208V	3.3	4
		1.65

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	42 lbs.



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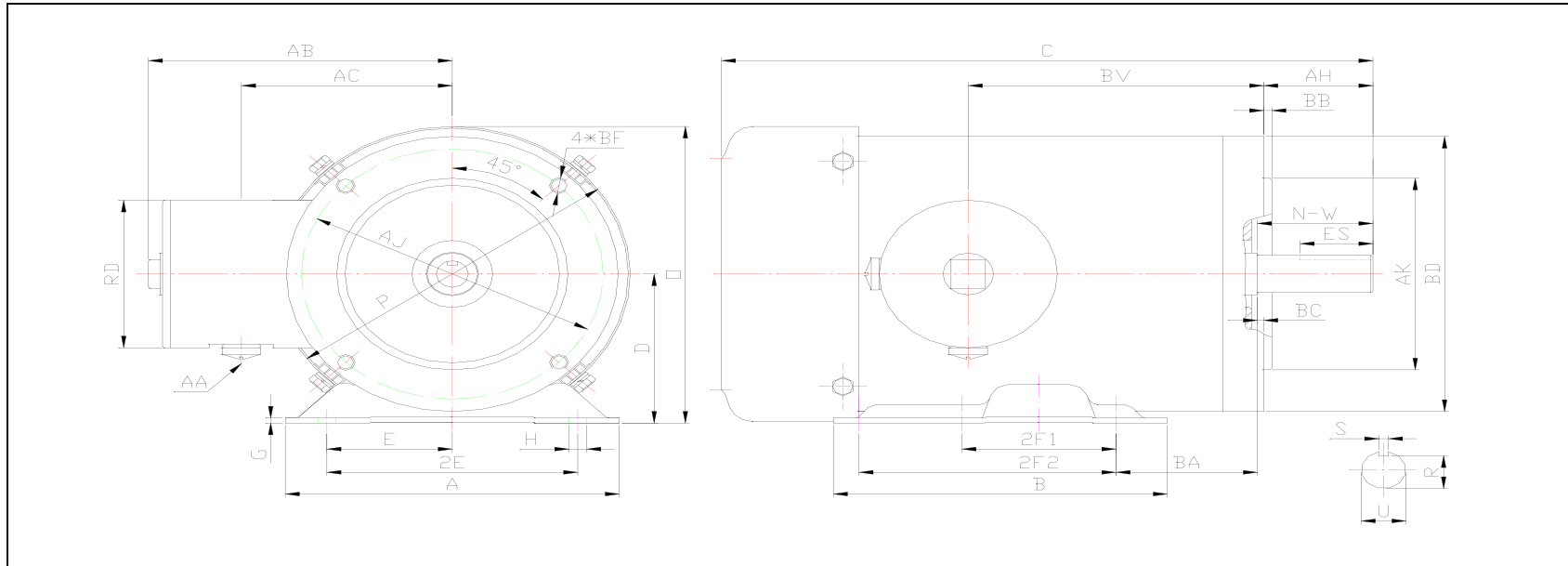
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MOTOR DRAWING

Premium Efficiency Motor: **SSPE1.5-18-56C**



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:

SSPE1.5-18-56C

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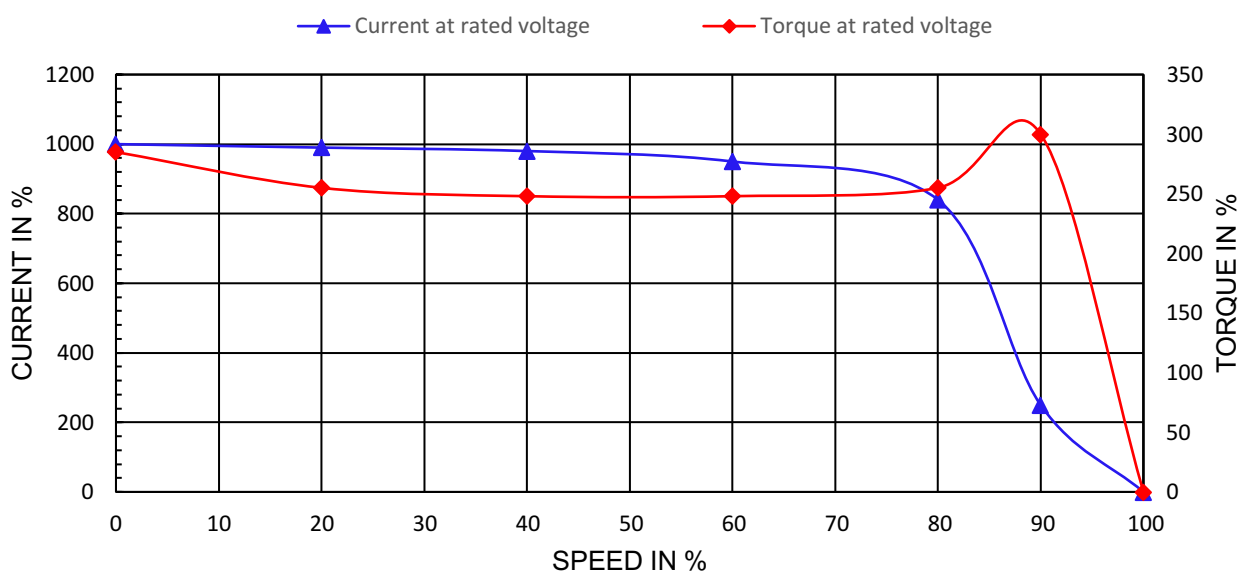
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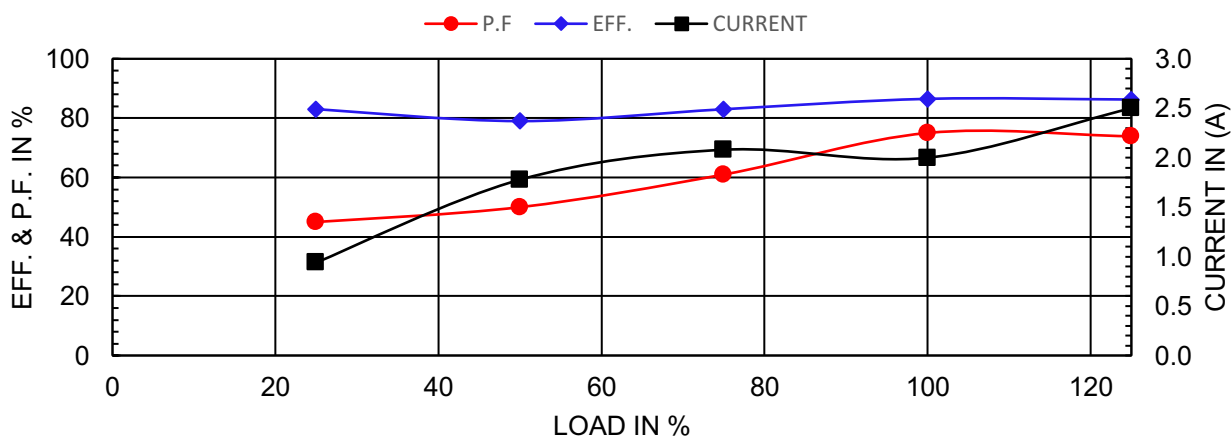
Motor Type	SSPE				
Output Rating	1.5		FL Speed	1750	
(HP) Full Load	4.4	lb.ft	LRT (%FLT)	285	460 volt FLA 2
Torque Rotor	0.138	lb-ft^2	BDT (%FLT)	300	230 volt FLA 4

Wk^2

SPEED VS TORQUE & CURRENT CURVE



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



NAMEPLATE / WIRING

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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
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		E517327	
CC082A							

Model	SSPE1.5-18-56C			FRAME	56C		LB/WT	42 lbs.	
Hz	60	S.F.	1.15	Hz	50		S.F.	1.15	
HP	1.5	RPM	1750	HP	1		RPM	1460	
VOLTS 230/460				VOLTS 190/38					
AMPS 4/2				AMPS 0					
CODE	M	P.F.	0.75	CODE	410/2.0		0.68		
EFF	86.5%	MIN	79%	IE3 -					
82.5% BRG DE 6205									
2RS BRG									
ODE 6205 2RS									