



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: **SSPE1-18-56CRD,**

60 Hz

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Customer:

MOTOR INFORMATION

HP	1
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	N
Duty Cycle	S1
Slip	2.78%
NEMA Design	B
Moment of Inertia	0.1 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%		85.5	
%	0.75	78.5%	0.6
50%		74.0 %	0.4

TORQUE

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

AMPERAGE INFORMATION

	230V	460
Full Load Amps	V	
Locked Rotor	2.8	1.4
Amps No Load	30	15
Current Usable at 208V	2.5	3 1.25

BEARING INFORMATION

DE Bearing	6205 2RS
ODE	6205 2RS
Bearing	Mobil Polyrex

Grease Type 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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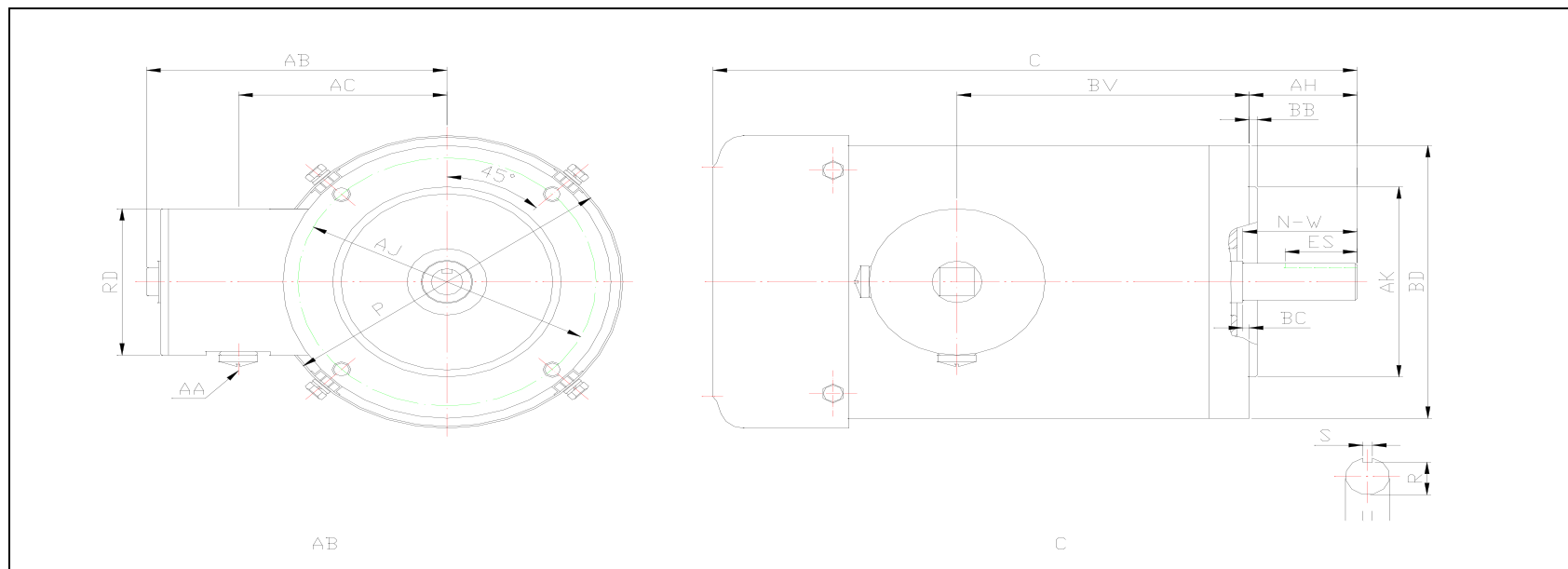
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MOTOR DRAWING

Premium Efficiency Motor: **SSPE1-18-56CRD**



DIMENSION - INCHES

FLANGE MOUNTING						C	P	T	AB
AK	BD	AJ	BF	BB	BC				
4.5	6.45	5.875	4*3/8-16	0.16	-0.19	12.57	6.95	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



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PERFORMANCE CURVES

Premium Efficiency Motor:

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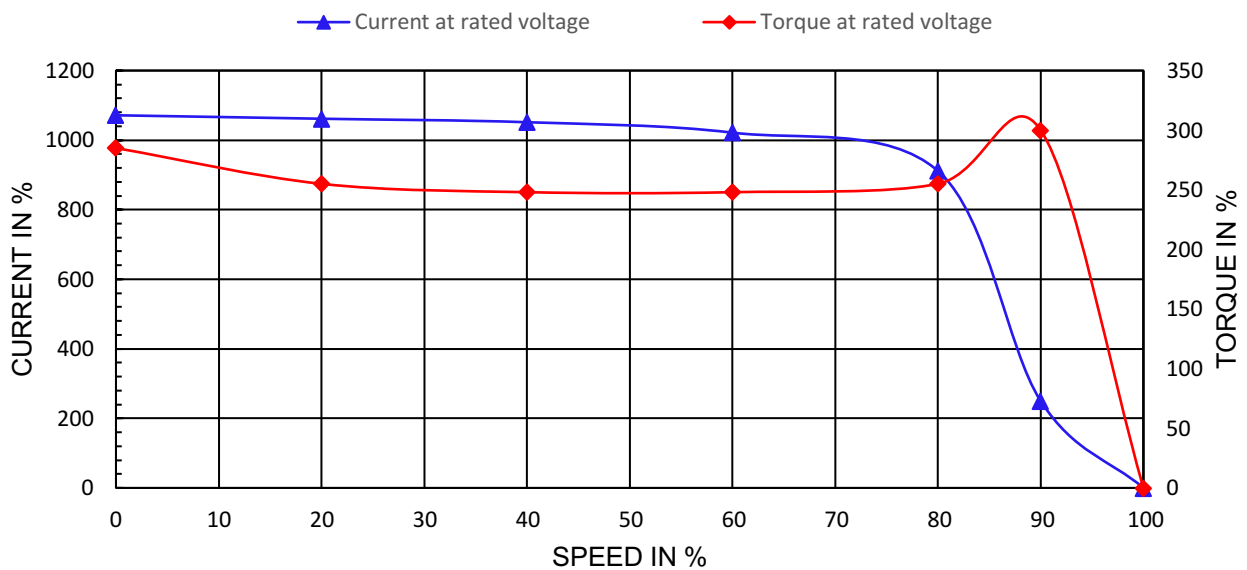
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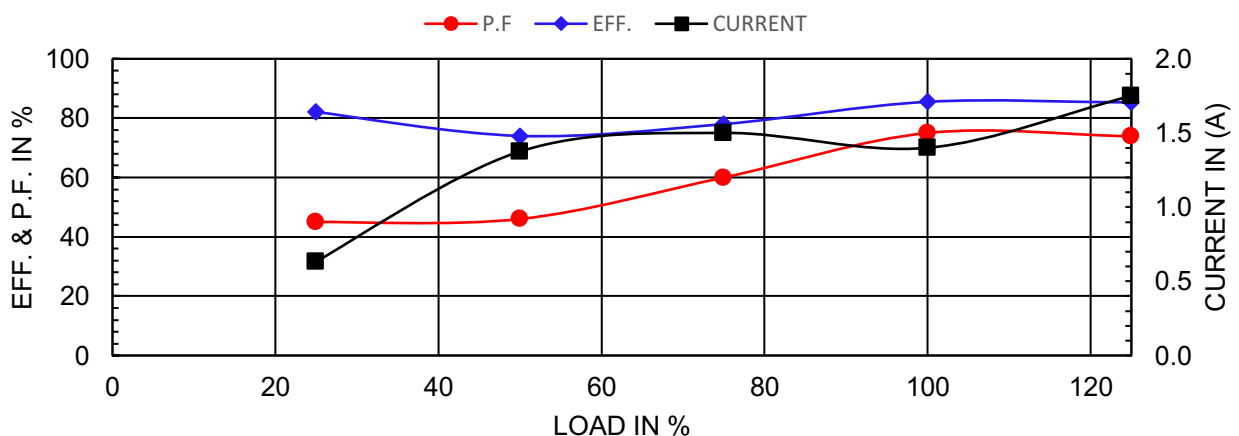
Motor Type	SSPE		FL Speed	1750	
Output Rating	1		LRT (%FLT)	285	460 volt FLA 1.4
(HP) Full Load	3	lb.ft	BDT (%FLT)	300	230 volt FLA 2.8
Torque Rotor	0.1	lb-ft^2			

Wk^2

SPEED VS TORQUE & CURRENT CURVE



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





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NAMEPLATE / WIRING

Premium Efficiency Motor:

SSPE1-18-56CRD

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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 502259 US		E517327	
CC082A							

Model	SSPE1-18-56CRD			FRAME	56C	LB/WT	35 lbs.
Hz	60	S.F.	1.15	Hz	50	S.F.	1.15
HP	1	RPM	1750	HP	3/4	RPM	1460
VOLTS		230/460		VOLTS		190/380	
AMPS		2.8/1.4		AMPS		3/1.5	
CODE	N	P.F.	0.75	CODE	N	P.F.	0.68
EFF	85.5%	MIN	74%	IE3 -			
80.8% BRG DE		6205 2RS					
BRG ODE		6205					
2RS							