



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: **SSPE34-12-143TCRD,**

60 Hz

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Customer:

MOTOR INFORMATION

HP	3/4
RPM	1200
Phase	3
Frequency	60
Voltage	230/460
Frame Size	143TC
Enclosure	TEFC
Degree of Protection	IP69K
Service Factor	1.15
Poles	6
Full Load	1155
Speed	F
Temperature Class	80°C
NEMA Code Letter	P
Duty Cycle	S1
Slip	3.75%
NEMA Design	B
Moment of Inertia	0.103 lb.ft.^2
Locked Rotor Time	12 seconds
(Hot) Sound Pressure	55 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%	81.5	
%	0.6575%	0.5
50%	8	
	71.0 %	0.5

TORQUE

FULL LOAD	LRT	BD
7.3 lb.ft.	255 %	280 %

AMPERAGE INFORMATION

	230V	460
Full Load Amps	V	
Locked Rotor	3.7	1.8
Amps No Load	5	
Current Usable at 208V	2.5	1.2
	5	
	1.7	0.8

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	34 lbs.

MOTOR DRAWING

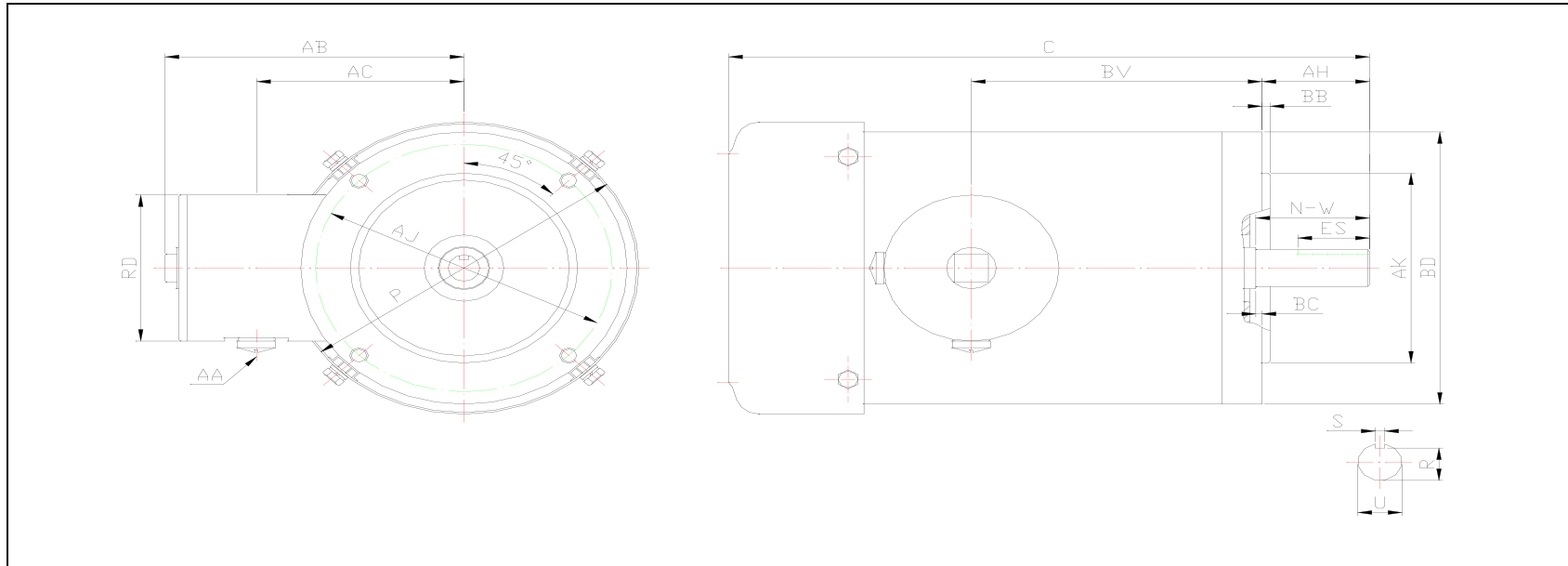
Premium Efficiency Motor: **SSPE34-12-143TCRD**



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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	0.12	12.63	6.95	N/A	5.95

SHAFT & KEY					
S	ES	R	N-W	U	AH
0.188	1.41	0.771	1.88	0.875	2.12

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:

SSPE34-12-143TCRD

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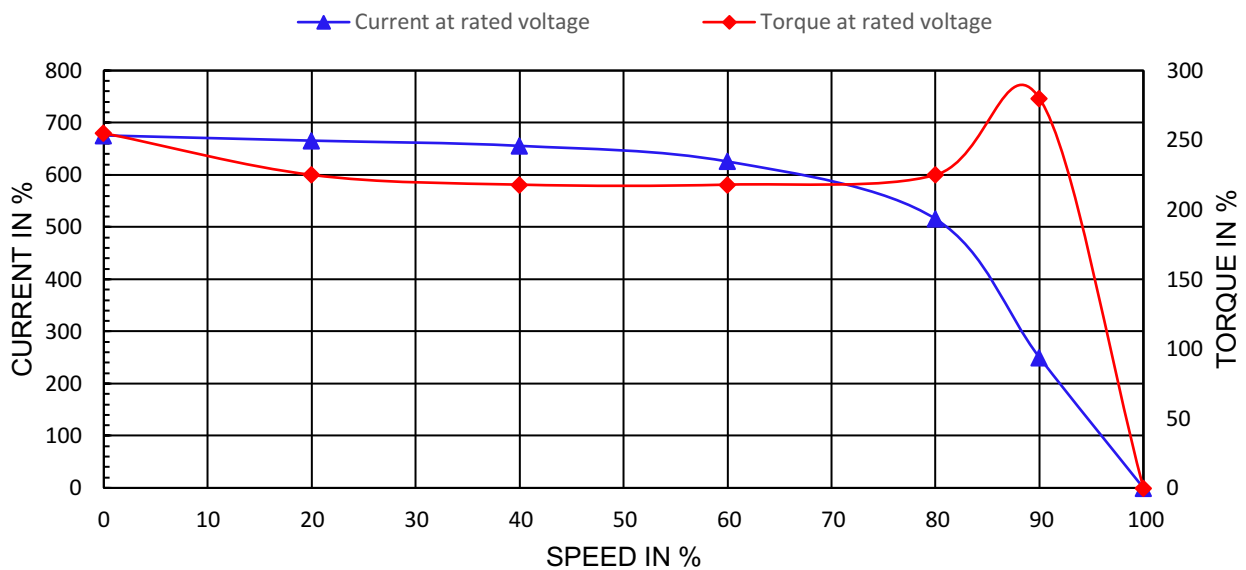
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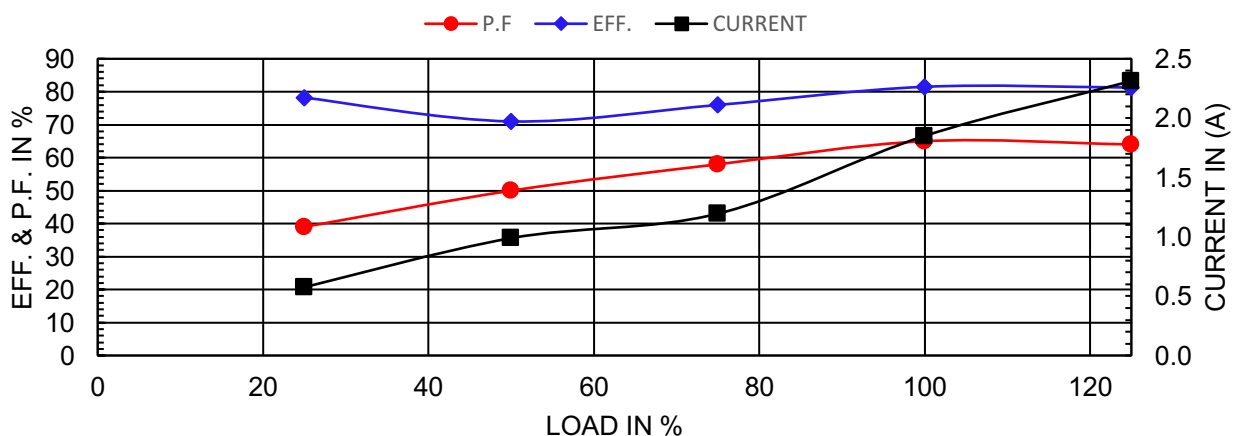
Motor Type	SSPE		FL Speed	1155	
Output Rating	3/4		LRT (%FLT)	255	460 volt FLA 1.85
(HP) Full Load	3.3	lb.ft	BDT (%FLT)	280	230 volt FLA 3.7
Torque Rotor	0.103	lb-ft^2			

Wk^2

SPEED VS TORQUE & CURRENT CURVE



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





NAMEPLATE / WIRING

Premium Efficiency Motor:

SSPE34-12-143TCRD

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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	SSPE34-12-143TCRD			FRAME	143TC	LB/WT	34
lbs. Hz	60	S.F.	1.15	Hz	50	S.F.	1.15
HP	3/4	RPM	1155	HP	1/2	RPM	960
VOLTS		230/460		VOLTS		190/380	
AMPS		3.7/1.85		AMPS		2.8/1.4	
CODE	P	P.F.	0.65	CODE	N	P.F.	0.53
EFF	81.5%	MIN	71%	IE3 -			
73.5% BRG DE 6205 2RS							
BRG ODE 6205							
2RS							