

DATA SHEET

Premium Efficiency Motor: **SSPE15-18-254TCRD,**

60 Hz



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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Customer:

MOTOR INFORMATION

HP	15
RPM	1800
Phase	3
Frequency	60
Voltage	230/460
Frame Size	254TC
Enclosure	TEFC
Degree of Protection	IP69K
Service Factor	1.15
Poles	4
Full Load Speed	1765
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	G
Duty Cycle	S1
Slip	1.94%
NEMA Design	B
Moment of Inertia	1.8 lb.ft.^2
Locked Rotor Time (Hot)	12 seconds
Sound Pressure Level	69 dB(A)
Number of Starts	12
Max Ambient Temperature	40° C
Max Elevation	1000 m.a.s.l (3300 f.a.s.l)
Mounting	C-Face Round Body
Rotation	Bidirectional
Area of Classification	Class 1 Division 2 Gr. A,B,C,D - T3
Inverter Rating	4:1 CT/20:1 VT - T3
Standard	NEMA MG1, UL1004
Approvals	CSA,UL,CE

EFFICIENCY/POWER FACTOR

LOAD	EFF	P. F.
100%	92.4 %	0.85
75%	92.0 %	0.75
50%	91.5 %	0.62

TORQUE

FULL LOAD	LRT	BDT
44 lb.ft.	200 %	260 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	37	18.5
Locked Rotor Amps	232	116
No Load Current	16	8
Usable at 208V		40

BEARING INFORMATION

DE Bearing	6309 2RS
ODE Bearing	6309 2RS
Grease Type	Mobil Polyrex EM

ADDITIONAL DATA

F2 Suitable	No
Shaft Material	304 Stainless Steel
Connection Diagram	12 Lead 2Δ/Δ
Approximate Weight	368 lbs.

MOTOR DRAWING

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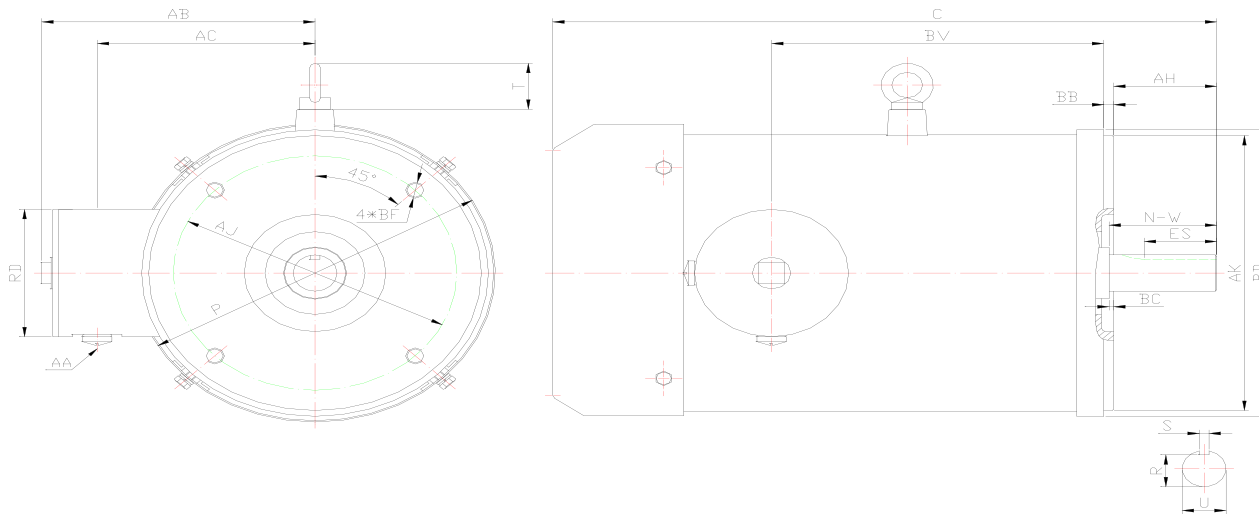
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DIMENSION - INCHES

FLANGE MOUNTING						C	P	T	AB
AK	BD	AJ	BF	BB	BC				
8.5	11.72	7.25	4*1/2-13	0.25	0.25	23.2	12.7	2.1	8.9

SHAFT & KEY					
S	ES	R	N-W	U	AH
0.375	2.91	1.416	4	1.625	3.75

TERMINAL BOX				
AA	AB	AC	RD	BV
3/4" NPT	8.9	7.25	5.12	12.65



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PERFORMANCE CURVES

Premium Efficiency Motor:

SSPE15-18-254TCRD

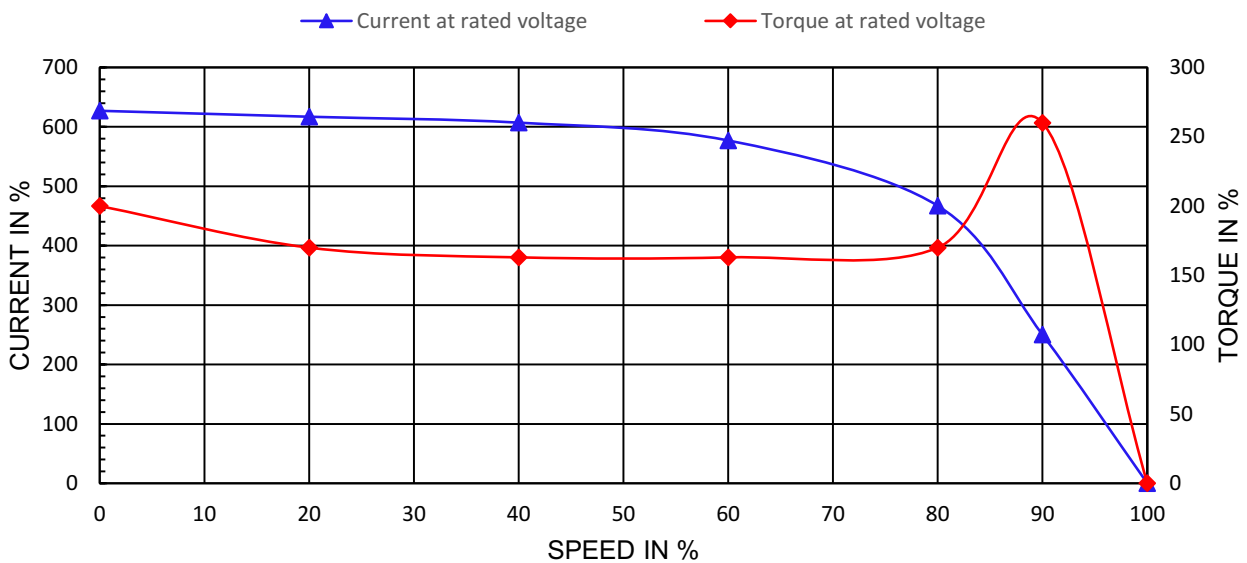
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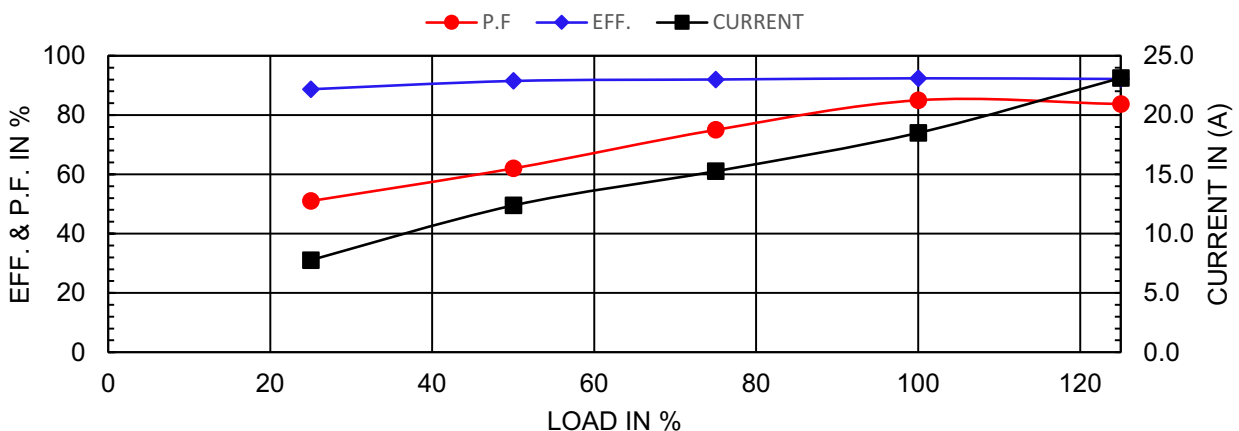
Customer:

Motor Type	SSPE		FL Speed	1765	
Output Rating (HP)	15		LRT (%FLT)	200	
Full Load Torque	44	lb.ft	460 volt FLA	18.5	
Rotor Wk^2	1.8	lb-ft^2	230 volt FLA	37	
			BDT (%FLT)	260	

SPEED VS TORQUE & CURRENT CURVE



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





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NAMEPLATE / WIRING

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SAMPLE NAMEPLATE DATA

THREE PHASE AC INDUCTION MOTOR									
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.					
CSA Certified CLASS 1 DIV. 2, Gr A, B, C, D - T3 For Use on PWM:CT 15-60Hz , VT 3-60Hz - 1.00 SF - T3 Worldwide Electric Corporation - Fairport, NY									

Model	SSPE15-18-254TCRD			FRAME	254TC	LB/WT	368 lbs.		
Hz	60	S.F.	1.15	Hz	50	S.F.	1.15		
HP	15	RPM	1765	HP	10	RPM	1470		
VOLTS		230/460		VOLTS		190/380			
AMPS		37/18.5		AMPS		30.0/15.0			
CODE	G	P.F.	0.85	CODE	J	P.F.	0.81		
EFF	92.4%	MIN	91.5%	IE3 -	90.4%				
BRG DE		6309 2RS							
BRG ODE		6309 2RS							