

**Electrical Helper.org**For All Your Electric Needs Since 1928
411 N Platte Ave. York, NE. 68467AC-DC MOTORS :: SALES & SERVICE
REWINDING :: CUSTOM CONTROL PANELKelly MacMillan
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ELECTRIC CORPORATION

DATA SHEET

Premium Efficiency Motor: **SSPE20-36-256TCRD,****60 Hz**Document Generated: 22-Feb-2023
Document ID:

Customer:

MOTOR INFORMATION

HP	20
RPM	3600
Phase	3
Frequency	60
Voltage	230/460
Frame Size	256TC
Enclosure	TEFC
Degree of Protection	IP69K
Service Factor	1.15
Poles	2
Full Load	3540
Speed	F
Temperature Class	80°C
NEMA Code Letter	G
Duty Cycle	S1
Slip	1.67%
NEMA Design	B
Moment of Inertia	1.19 lb.ft.^2
Locked Rotor Time	12 seconds
(Hot) Sound Pressure	74 dB(A)
Number of Starts	10
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%		91.0	
%	0.975	50 %	0.8
50%		5	
		90.0 %	0.7
		6	

TORQUE

FULL LOAD	LRT	BDT
29.3 lb.ft.	200 %	250
%		

AMPERAGE INFORMATION

	230V	460
Full Load Amps	V	
Locked Rotor	46	23
Amps No Load	290	145
Current Usable at 208V	10	50 5

BEARING INFORMATION

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

ADDITIONAL DATA

F2 Suitable	No
Shaft Material	304 Stainless Steel
Connection Diagram	12 Lead 2Δ/Δ
Approximate Weight	420 lbs.



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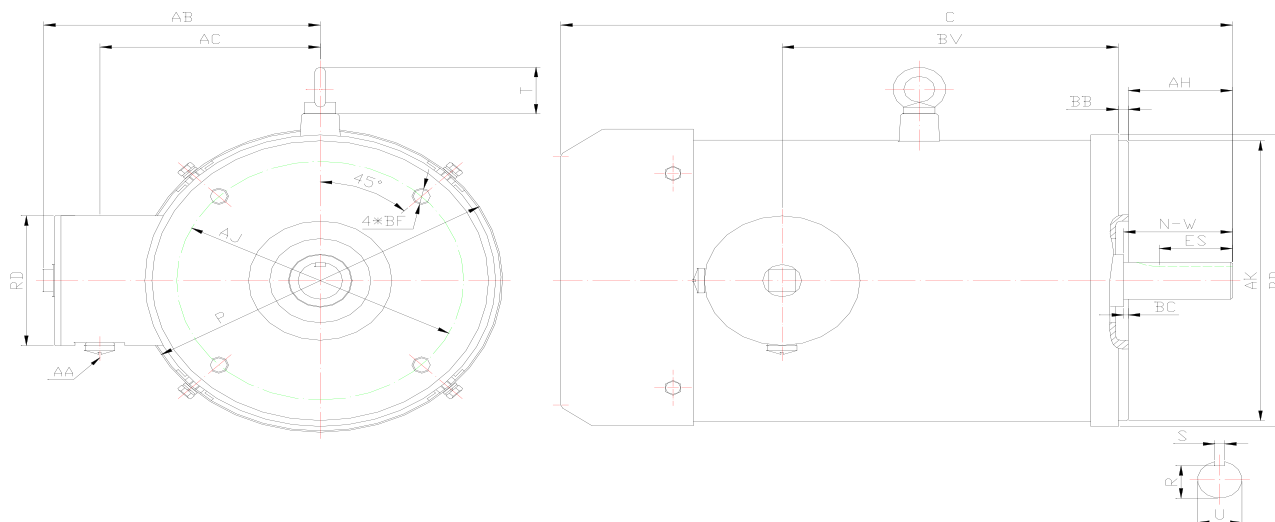
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MOTOR DRAWING

Premium Efficiency Motor: **SSPE20-36-256TCRD**



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	24.8	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



PERFORMANCE CURVES

Premium Efficiency Motor:

SSPE20-36-256TCRD

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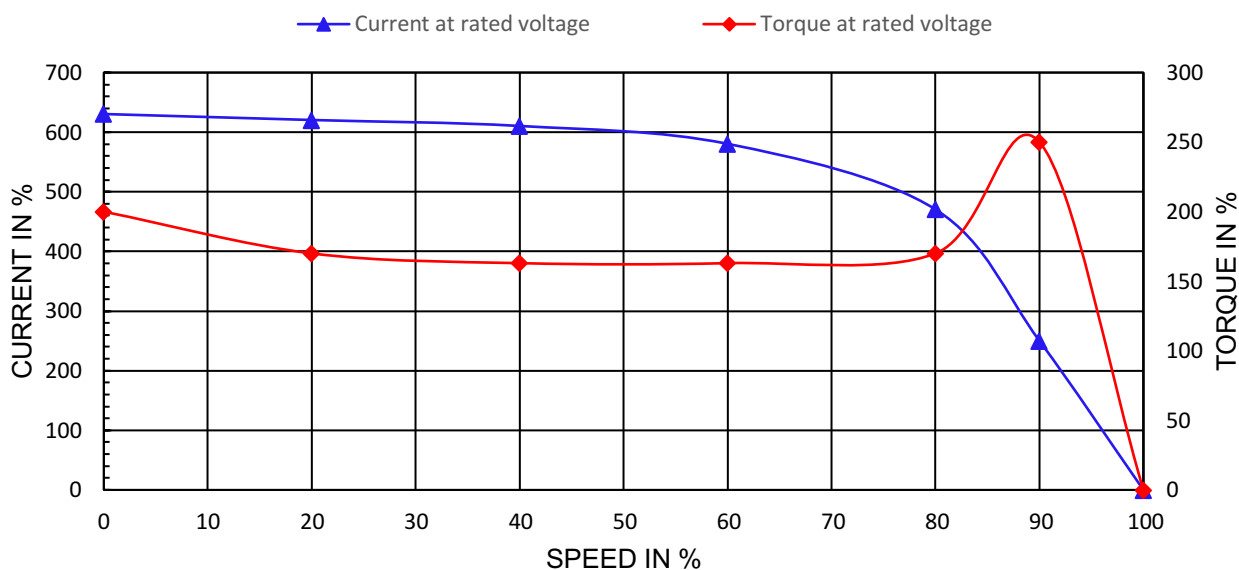
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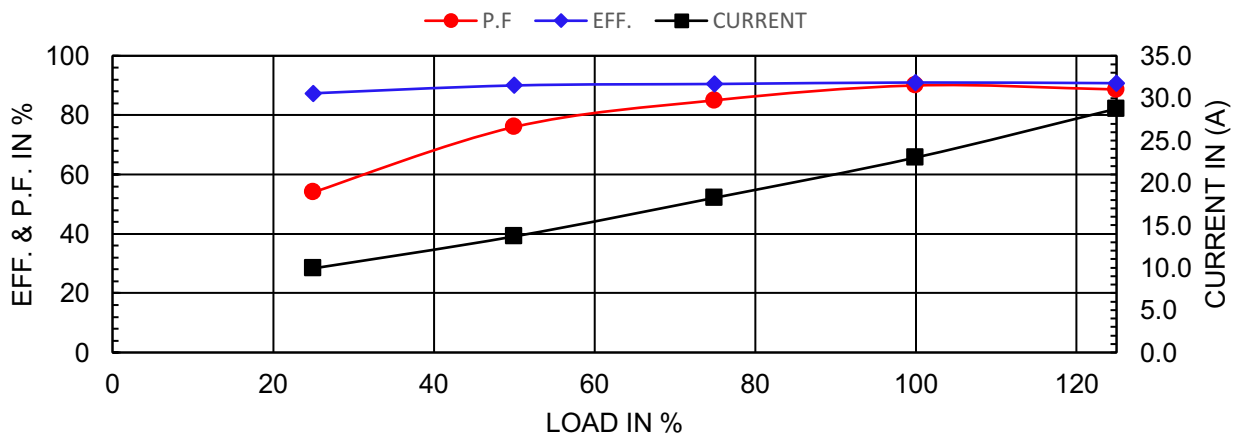
Motor Type	SSPE		FL Speed	3540	
Output Rating	20		LRT (%FLT)	200	460 volt FLA 23
(HP) Full Load	29.3	lb.ft	BDT (%FLT)	250	230 volt FLA 46
Torque Rotor	1.19	lb-ft^2			

Wk^2

SPEED VS TORQUE & CURRENT CURVE



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





NAMEPLATE / WIRING

Premium Efficiency Motor:

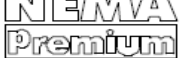
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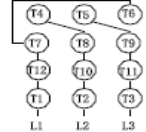
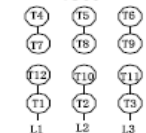
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SAMPLE NAMEPLATE DATA

	THREE PHASE AC INDUCTION MOTOR INVERTER DUTY 20:1 VT 10:1 CT	
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Model I.		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		
AMP		AMP		BRG DE		
CODE	P. F.	CODE	P. F.	BRG ODE		460V 
EFF MIN		IE3 -		NO.		









CC082A

Model SSPE20-36-256TCRD				FRAME 256TC		LB/WT 420	
lbs. Hz 60		S.F. 1.15		Hz 50		S.F. 1.15	
HP 20		RPM 3540		HP 15		RPM 2945	
VOLTS 230/460				VOLTS 190/38			
AMPS 46/23				AMPS 0 42/21			
CODE G		P.F. 0.9		CODE J		P.F. 0.87	
EFF 91%		MIN 90%		IE3 - 91.2%			
BRG DE 6309 2RS							
BRG ODE 6309							
2RS							