

DATA SHEET

Premium Efficiency Motor: **SSPENV12-18-56CRD,**

60 Hz



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Customer:

MOTOR INFORMATION

HP	1/2
RPM	1800
Phase	3
Frequency	60
Voltage	230/460
Frame Size	56C
Enclosure	TENV
Degree of Protection	IP69K
Service Factor	1.15
Poles	4
Full Load Speed	1745
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	R
Duty Cycle	S1
Slip	3.06%
NEMA Design	B
Moment of Inertia	0.069 lb.ft.^2
Locked Rotor Time (Hot)	12 seconds
Sound Pressure Level	58 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	10:1 CT/20:1 VT - T3
Standard	NEMA MG1, UL1004
Approvals	CSA,UL,CE

EFFICIENCY/POWER FACTOR

LOAD	EFF	P. F.
100%	78.5 %	0.7
75%	76.0 %	0.60
50%	71.0 %	0.52

TORQUE

FULL LOAD	LRT	BDT
1.5 lb.ft.	285 %	300 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	1.6	0.8
Locked Rotor Amps	20	10
No Load Current	1.3	0.65
Usable at 208V	1.8	

BEARING INFORMATION

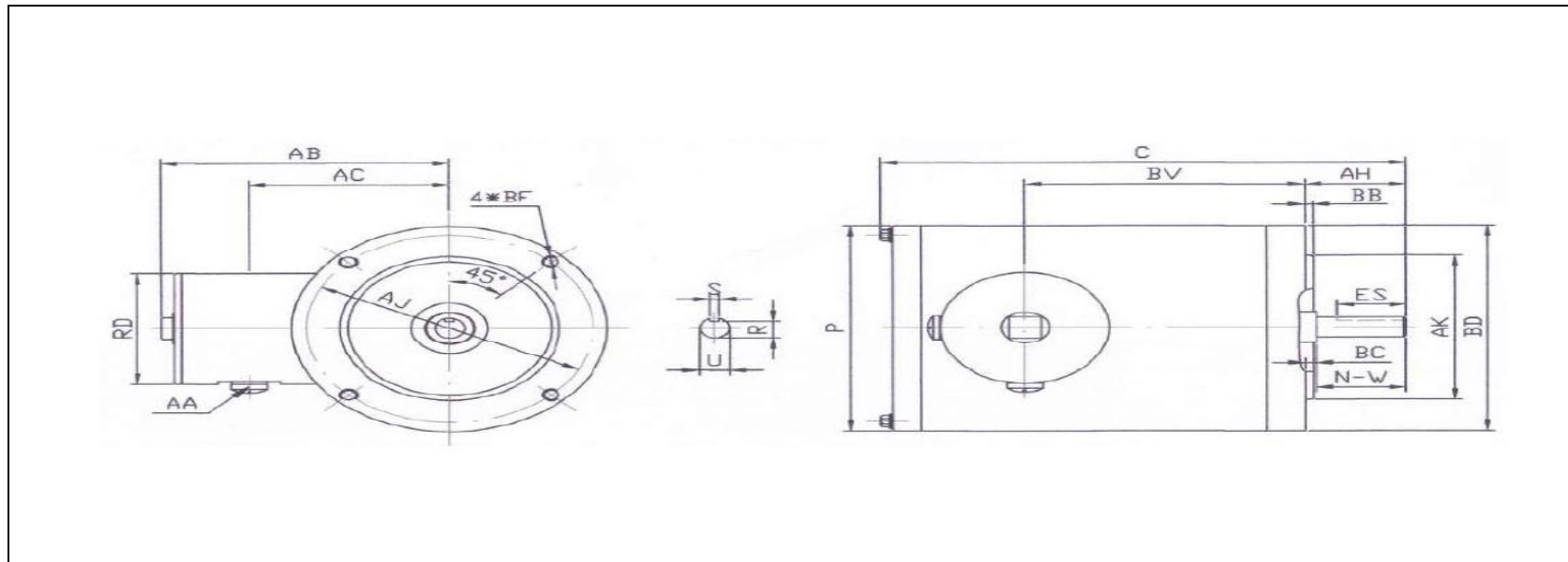
DE Bearing	6205 2RS
ODE Bearing	6205 2RS
Grease Type	Mobil Polyrex EM

ADDITIONAL DATA

F2 Suitable	No
Shaft Material	304 Stainless Steel
Connection Diagram	9 Lead 2Y/Y
Approximate Weight	30 lbs.

MOTOR DRAWING

Premium Efficiency Motor: **SSPENV12-18-56CRD**



DIMENSION - INCHES

FLANGE						C	P	AB	T
AK	BD	AJ	BF	BB	BC				
4.5	6.45	5.875	4*3/8-16	0.16	-0.19	9.8	6.45	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	AC	RD	BV
1/2" NPT	4.5	3.45	4.75

PERFORMANCE CURVES

Premium Efficiency Motor:

SSPENV12-18-56CRD

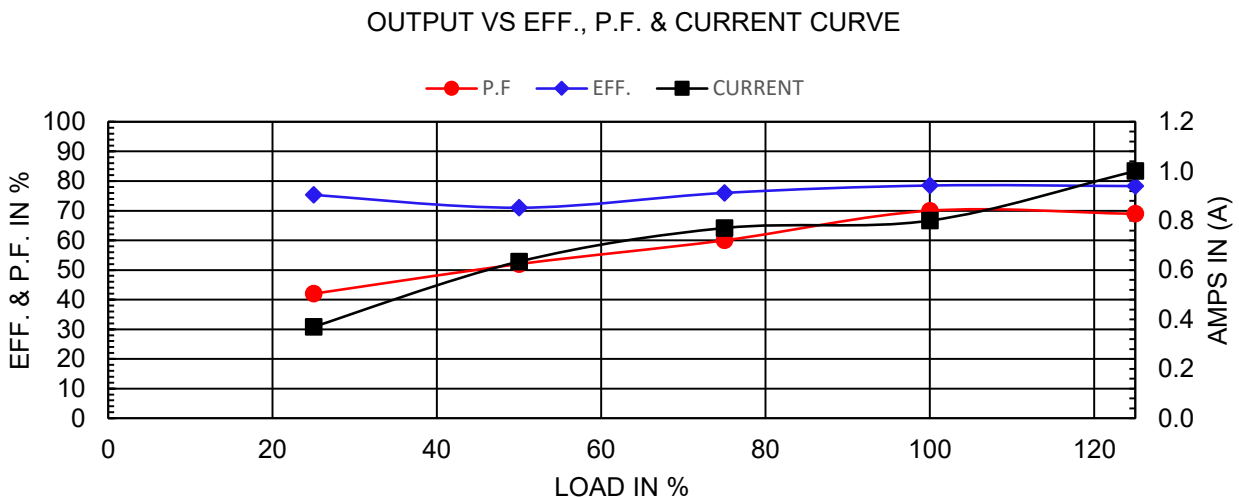
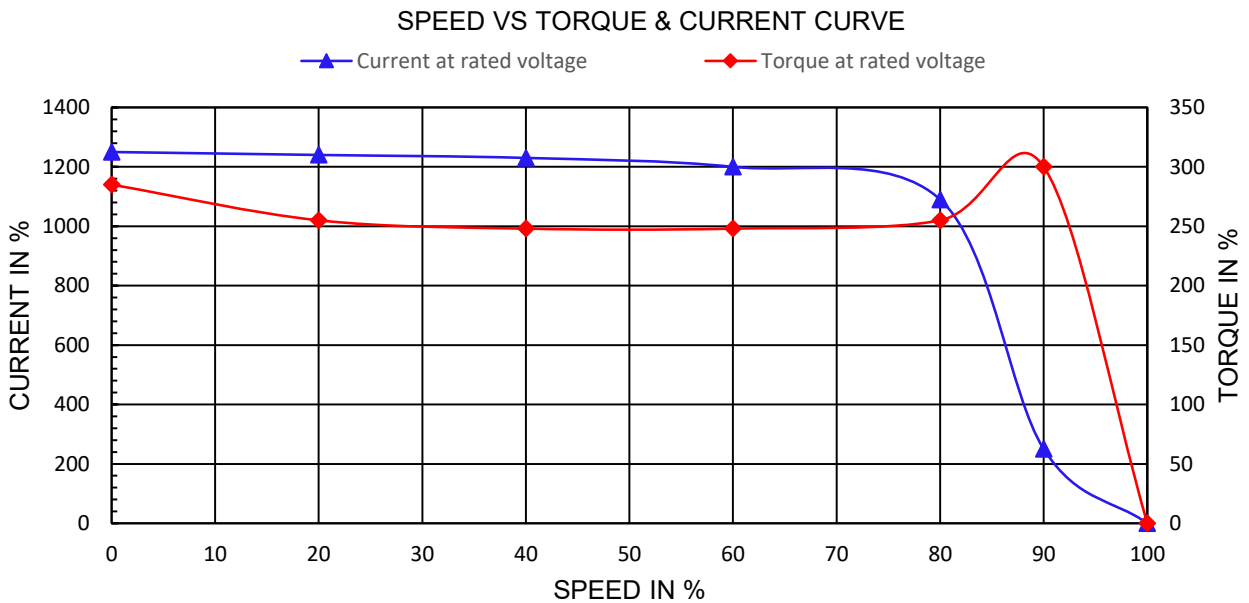


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Motor Type	SSPE		FL Speed	1745	
Output Rating (HP)	1/2		LRT (%FLT)	285	460 volt FLA 0.8
Full Load Torque	1.5	lb.ft	BDT (%FLT)	300	230 volt FLA 1.6
Rotor Wk^2	0.069	lb-ft^2			



NAMEPLATE / WIRING

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SAMPLE NAMEPLATE DATA

THREE PHASE AC INDUCTION MOTOR

CC082A

Model .		FRAME		IP 69K	LB/WT	230V		
Hz 60	S. F. 1. 15	Hz 50	S. F. 1. 15	ENCL. TEFC	AMB. 40°C	T4	T5	T6
HP	RPM	HP	RPM	DUTY CONT	INS. F	T7	T8	T9
VOLTS 230/460		VOLTS 190/380		NEMA DES. B		T1	T2	T3
AMP		AMP		BRG DE		L1	L2	L3
CODE	P. F.	CODE	P. F.	BRG ODE		460V		
EFF	MIN	IE3 -		NO.		T4	T5	T6
						T7	T8	T9
						T1	T2	T3
						L1	L2	L3

CSA Certified

CLASS 1 DIV. 2, Gr A, B, C, D - T3
For Use on PWM:CT 6-60Hz , VT 3-60Hz - 1.00 SF - T3
Worldwide Electric Corporation - Fairport, NY

Model	SSPENV12-18-56CRD			FRAME	56C	LB/WT	30 lbs.
Hz	60 S.F.		1.15	Hz	50 S.F.		1.15
HP	1/2 RPM		1745	HP	1/3 RPM		1450
VOLTS	230/460			VOLTS	190/380		
AMPS	1.6/0.8			AMPS	1.6/0.8		
CODE	R	P.F.	0.7	CODE	P	P.F.	0.64
EFF	78.5%	MIN	71%	IE3 -	73.5%		
BRG DE	6205 2RS						
BRG ODE	6205 2RS						