

**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 PANELKelly MacMillan
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DATA SHEET

Premium Efficiency Motor: **FM12-18-56C****60 Hz**

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Customer:

MOTOR INFORMATION

HP	1/2
RPM	1800
Phase	1
Frequency	60 Hz
Voltage	115/230
Frame Size	56C
Enclosure	TEFC
Degree of Protection	IP54
Service Factor	1.15
Poles	4
Full Load Speed	1725
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	N
Duty Cycle	S1 / Continuous
Slip	4.17%
Max Ambient Temperature	40°C
Max Elevation	1000 m.a.s.l (3300 f.a.s.l)
Mounting	F1
Rotation	Bi-Directional
Mounting Type	C-Face with Feet
Standard	NEMA MG-1
Approvals	CSA, CE
Overload	Manual Overload

EFFICIENCY/POWER FACTOR

LOAD	EFF	P. F.
100%	67.6 %	66.1
75%	65.0 %	57.2
50%	59.6 %	45.2

TORQUE

FULL LOAD	LRT	BDT
1.51 lb.ft.	430 %	245 %

AMPERAGE INFORMATION

	115V	230V
Full Load Amps	7.2	3.6
Locked Rotor Amps	44.8	22.4
No Load Current	5.53	2.765

BEARING INFORMATION

DE Bearing	6203 2RS
ODE Bearing	6203 2RS

CAPACITOR INFORMATION

Start Capacitor	(1)400uF/165V
Run Capacitor	--

ADDITIONAL DATA

F2 Suitable	No
Shaft Material	1045 Carbon Steel
Connection Diagram	115/230V - 6 Lead
Approximate Weight	25 lbs.

MOTOR DRAWING

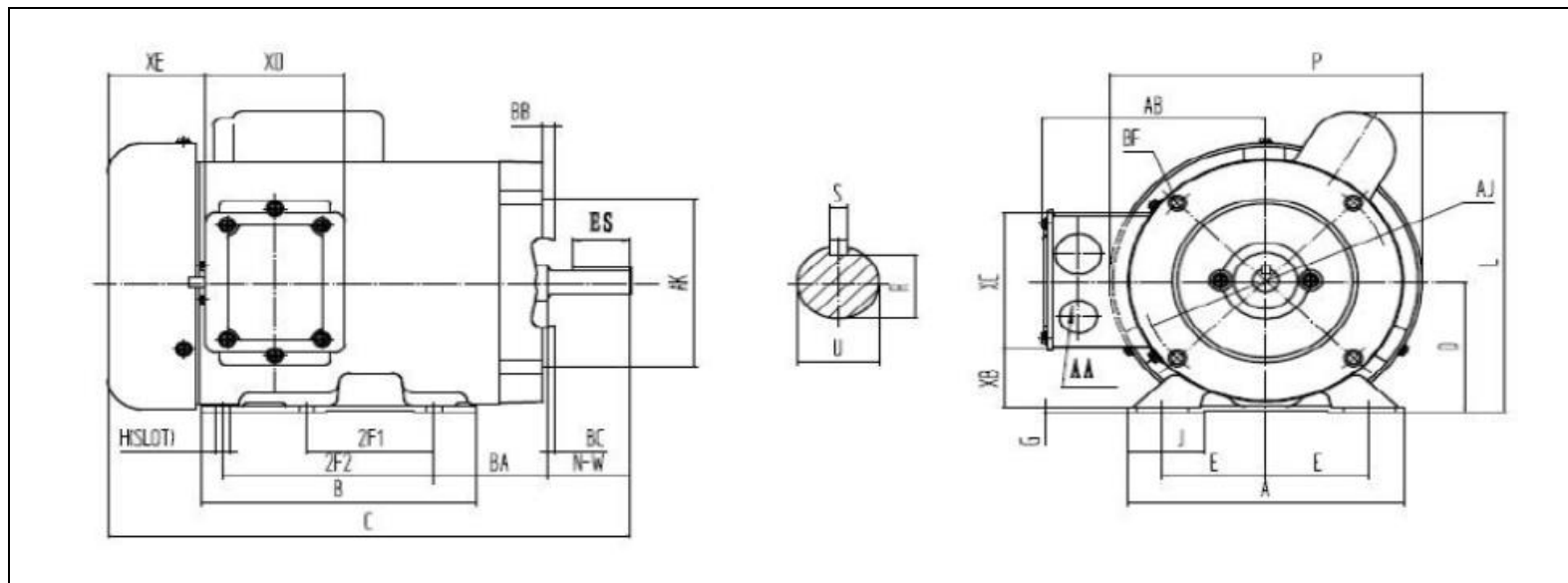
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DIMENSION - INCHES

MOUNTING					A	B	C	D	G	L	P	AB	J
E	2F1	2F2	H	BA									
2.44	3	5	0.34	2.75	6.54	6.54	11.9	3.5	0.12	8.2	7.3	5.2	1.65

SHAFT & KEY				
R	ES	S	U	NW
0.517	1.41	0.188	0.625	1.88

TERMINAL BOX				
XB	XC	XD	XE	AA
1.65	3.7	3.2	2.15	2-0.88/2-1.109

FLANGE				
AK	AJ	BF	BB	BC
4.5	5.875	3/8-16	0.16	-0.19



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NAMEPLATE / WIRING

Premium Efficiency Motor: **FM12-18-56C**

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SAMPLE NAMEPLATE DATA

		WorldWide Electric Corporation		SINGLE PHASE INDUSTRIAL DUTY MOTOR			
MODEL	FRAME	LOW VOLTAGE		HIGH VOLTAGE		MADE IN CHINA	
Hz	ENCL.	BLACK(P1) — LINE1	BLACK(P1) — LINE1	BROWN(P2) — INS	BROWN(P2) — INS		
HP	PH	BROWN(P2) — INS	ORANGE(T3) — INS	ORANGE(T3) — INS	RED(T8) — INS		
RPM	DUTY	ORANGE(T3) — INS	RED(T8) — INS	RED(T8) — INS	WHITE(T2) — INS		
VOLTS	CODE	RED(T8) — INS	WHITE(T2) — INS	WHITE(T2) — INS	YELLOW(T4) — LINE2		
AMPS	INS.	WHITE(T2) — INS	YELLOW(T4) — LINE2	YELLOW(T4) — LINE2	BLACK(T5) — LINE2		
S.F.	DES.	YELLOW(T4) — LINE2	BLACK(T5) — LINE2	BLACK(T5) — LINE2			
SFA.	LB/WT	BLACK(T5) — LINE2					
MAX. AMB.	DE/ODE BRG.						
SERIAL NO. xxxxxxxxxx Date Code xx/xxxx		ACCEPTABLE FOR FIELD WIRING ROTATION CCW-OPE TO REVERSE EITHER VOLTAGE INTERCHANGE BLACK (T5) AND RED (T8) LEADS THERMALLY PROTECTED : MANUAL					

Model	FM12-18-56C	Frame	56C
Hz	60 Hz	Encl	TEFC
HP	1/2	PH	1
RPM	1725	DUTY	CONT
Voltage	115/230	Code	N
Amps	7.2/3.6	Ins Cl	F
S.F.	1.15	IP	IP54
SFA.	7.6/3.8	DES.	N
DE Brng	6203 2RS	WT:	25 lbs.
ODE Brng	6203 2RS	MAX. AMB.	40°C