



**Electrical Helper.org**  
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AC-DC MOTORS :: SALES & SERVICE  
 REWINDING :: CUSTOM CONTROL PANEL  
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# DATA SHEET

Premium Efficiency Motor: **FM2-18-56HZC**

**60 Hz**

Document Generated: 31-Mar-2023

Document ID:

Customer:

## MOTOR INFORMATION

HP	2
RPM	1800
Phase	1
Frequency	60 Hz
Voltage	115/230
Frame Size	56HZC
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	M
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%	78.7 %	82
75%	78.5 %	74.4
50%	74.8 %	61.6

## TORQUE

FULL LOAD	LRT	BDT
6.13 lb.ft.	305 %	235 %

## AMPERAGE INFORMATION

	115V	230V
Full Load Amps	19.6	9.8
Locked Rotor Amps	145.3	72.6
No Load Current	16.85	8.425

## BEARING INFORMATION

DE Bearing	6203 2RS
ODE Bearing	6203 2RS

## CAPACITOR INFORMATION

Start Capacitor	(1)800uF/165V
Run Capacitor	(1)40uF/250V

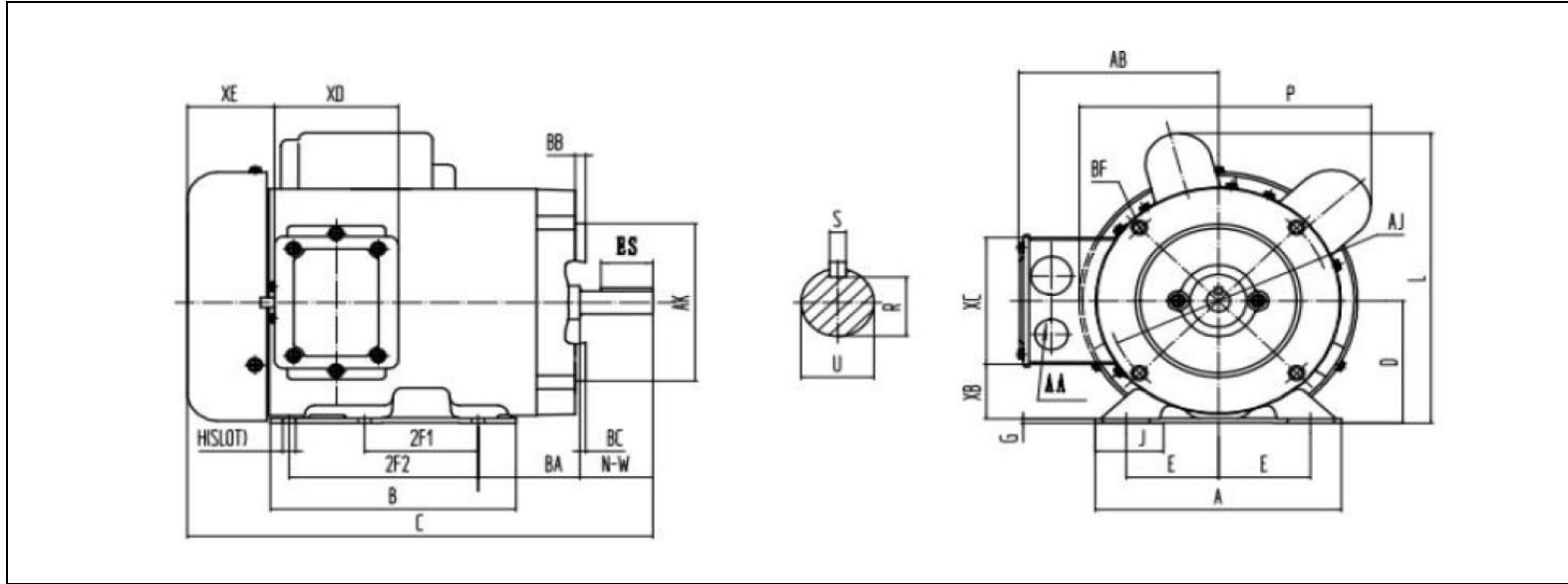
## ADDITIONAL DATA

F2 Suitable	No
Shaft Material	1045 Carbon Steel
Connection Diagram	115/230V - 6 Lead
Approximate Weight	44.5 lbs.



# MOTOR DRAWING

Premium Efficiency Motor: **FM2-18-56HZC**



## 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	14.4	3.5	0.12	8.7	8.2	5.2	1.65

SHAFT & KEY				
R	ES	S	U	NW
0.517	1.41	0.188	0.875	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





# NAMEPLATE / WIRING

Premium Efficiency Motor: **FM2-18-56HZC**

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## SAMPLE NAMEPLATE DATA

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

<b>Model</b>	FM2-18-56HZC	<b>Frame</b>	56HZC
<b>Hz</b>	60 Hz	<b>Encl</b>	TEFC
<b>HP</b>	2	<b>PH</b>	1
<b>RPM</b>	1725	<b>DUTY</b>	CONT
<b>Voltage</b>	115/230	<b>Code</b>	M
<b>Amps</b>	19.6/9.8	<b>Ins Cl</b>	F
<b>S.F.</b>	1.15	<b>IP</b>	IP54
<b>SFA.</b>	22.8/11.4	<b>DES.</b>	L
<b>DE Brng</b>	6203 2RS	<b>WT:</b>	44.5 lbs.
<b>ODE Brng</b>	6203 2RS	<b>MAX. AMB.</b>	40°C