marathon®

General Purpose Motors

Model No: 112MTFC6511
Catalog No: R324A

General Purpose Motor, 5.50 & 4 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 RPM, 112M Frame, TEFC

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Product Information Packet: Model No: 112MTFC6511, Catalog No: R324A General Purpose Motor, 5.50 & 4 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 RPM, 112M Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**5.50 & 4 Hp**
Output KW	**4.1 & 3.0 kW**	Voltage	**230/460 & 200/400 V**
Speed	**3510 & 2930 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**112M**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**89.5 & 90.2 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**12.6/6.3 & 10.8/5.4 A**
Power Factor	**91**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**J**	Drive End Bearing Size	**6206**
Opp Drive End Bearing Size	**6205**	UL	**Recognized**
CSA	**N**	CE	**Y**
IP Code	**54**	Number of Speeds	**1**

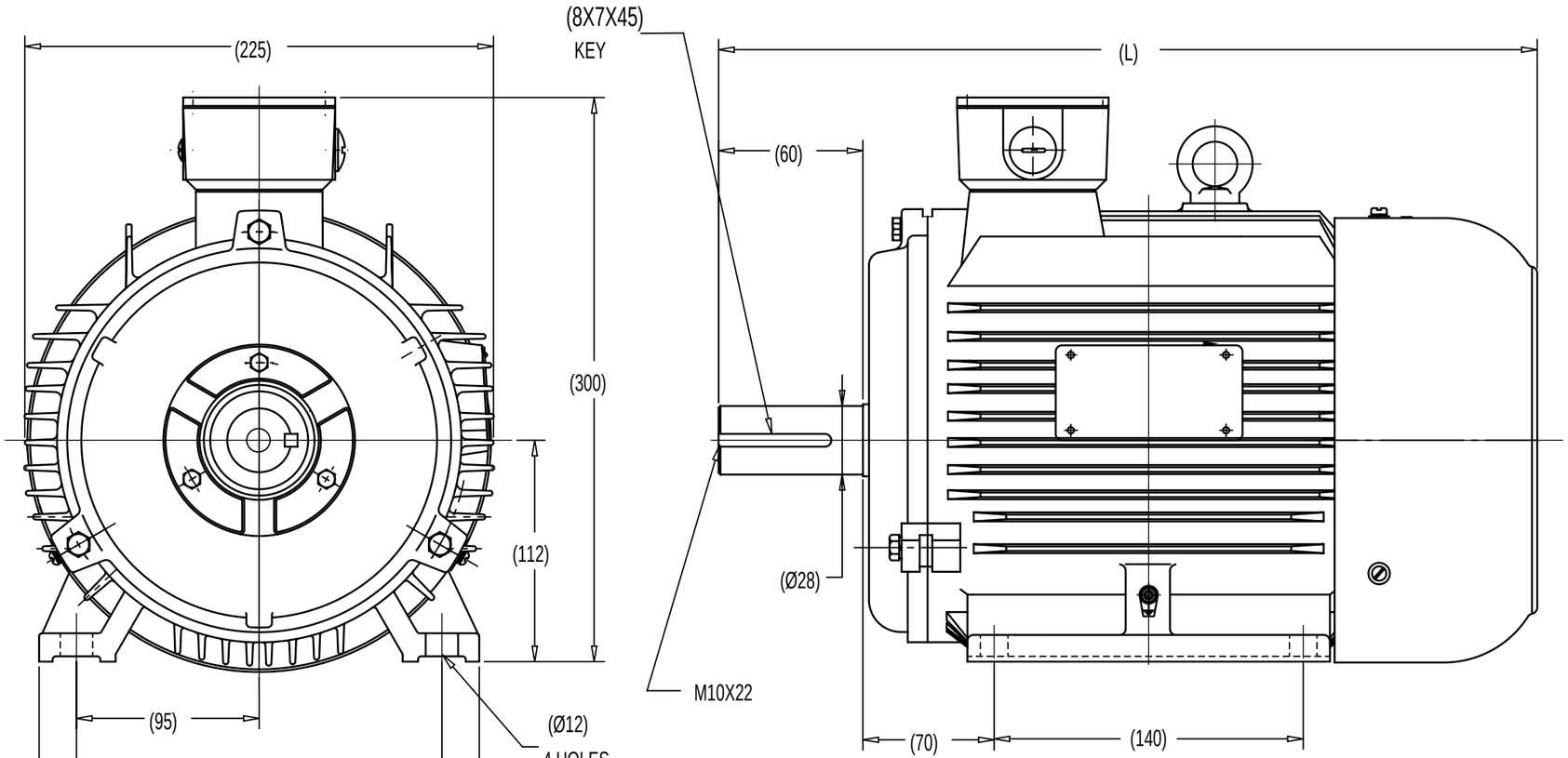
Technical Specifications

Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**0 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**IEC**	Overall Length	**18.42 in**
Shaft Diameter	**1 1/9 in**	Shaft Extension	**2.36 in**
Assembly/Box Mounting	**F3**	Inverter Load	**Constant 20:1**

Drawings

Connection Drawing	**005010.01**	Outline Drawing	**B-SS622368-193306**

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PART NO.	FRAME	L
193306.60	C20-112M-2	410
193307.60	C20-112M1-4	
193302.60	C20-112M1-6	468

DRAWING NOT TO SCALE

DRAWING REVISION: G	REVISION BY: SV	REV DATE/© DATE: 09/07/2026
REQUEST NUMBER: CR-0027601	APPROVED BY: RMS	DATE: 09/07/2026
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED		

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TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±7' 30"
.XX	±0.03	[±0.8]	
.XXX	±0.005	[±0.13]	
.XXXX	±0.0005	[±0.013]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45°
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY: MOL	marathon™
DATE: 04-12-2012	
APPROVED BY: SB	DESCRIPTION: OUTLINE IEC 112M - 2,4,6 - TEFC
DATE: 04-12-2012	
REFERENCE	MATERIAL / PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: SS622368 / SHEET: 1 OF 1

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Data Sheet

Date: 11/27/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

112MTFC6511

Submittal

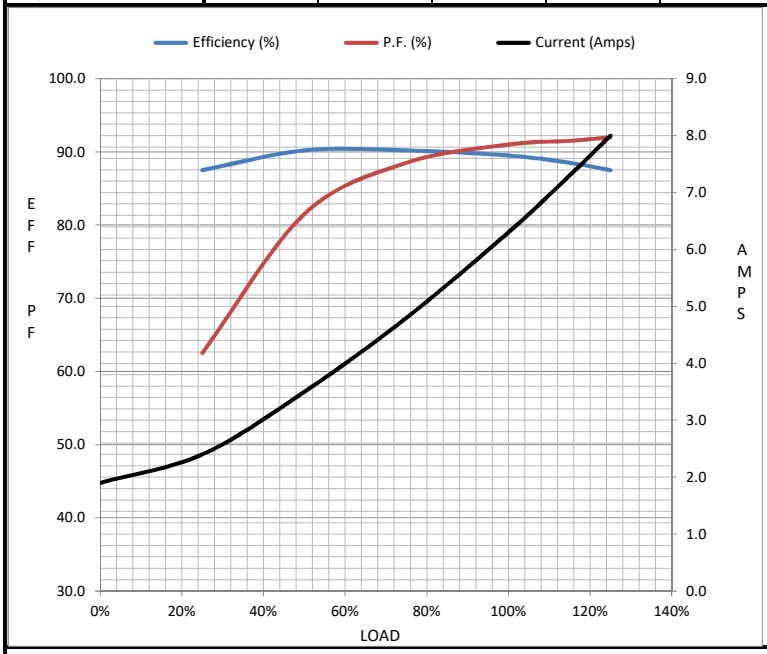
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.90	2.40	3.5	4.8	6.3	7.3	8.0	50.5	
Torque (ft-lb)	0.00	2.00	4.1	6.1	8.2	9.5	10.4	17.7	
RPM	3600	3580	3560	3535	3510	3,495	3485	0	
Efficiency (%)		87.5	90.2	90.2	89.5	88.5	87.5		
P.F. (%)	8.5	62.5	81.5	88.5	91.0	91.5	92.0	55.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	2930	3510	3600
Current (Amps)	50.5	44.5	29.5	6.3	1.90
Torque (ft-lb)	17.7	19.9	26.4	8.2	0.00



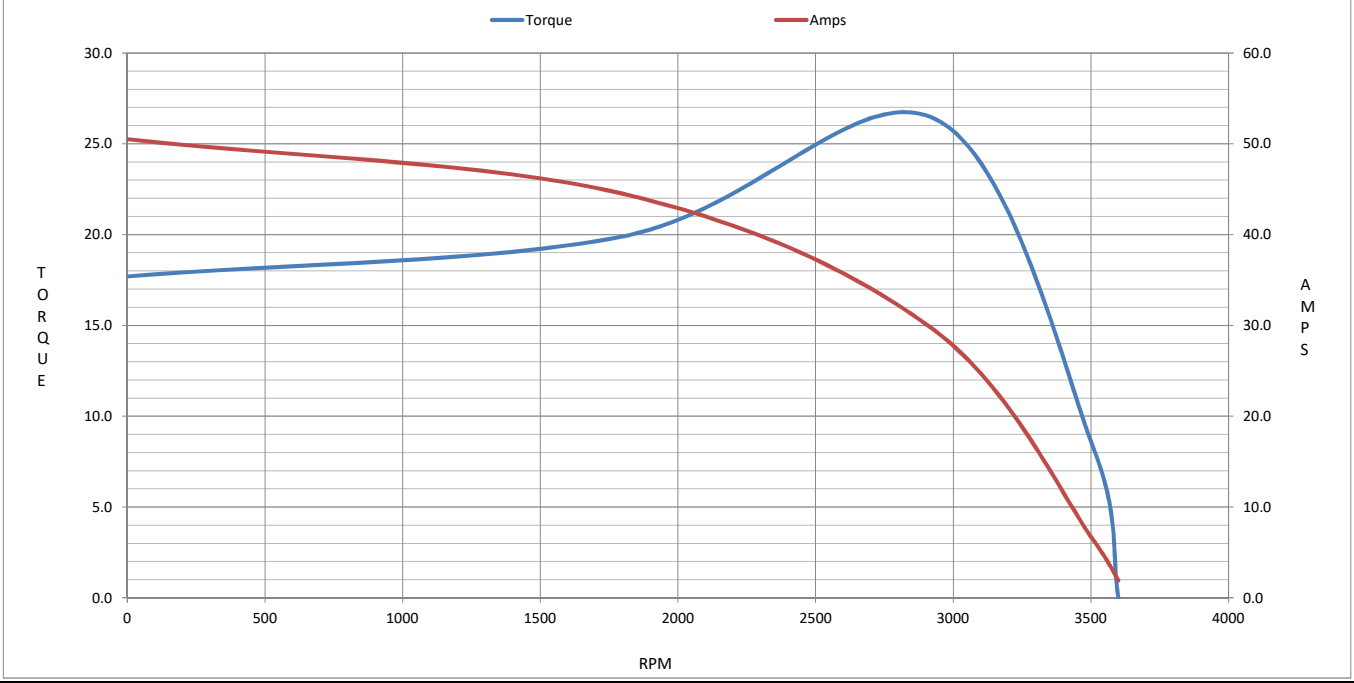
Information Block

HP	5.5	
Sync. RPM	3600	
Frame	112	
Enclosure	TEFC	
Construction	TFS	
Voltage	230/460#200/400	V
Frequency	60	Hz
Design	B	
LR Code letter	J	
Service Factor	1.15	
Temp Rise @ FL	64	°C
Duty	CONT	
Ambient	40	°C
Elevation	1,000	feet
Rotor/Shaft wk²	0.12	Lb-Ft²
Ref Wdg	T08702012 NONE	
Sound Pressure @ 1M	45	dBA
VFD Rating	CONSTANT 20:1	
Outline Dwg	B-SS622368	
Conn. Diag	005010.01	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	112MTFC6511 AA	**WINDING#:**	T08702012 NONE 3
CONN. DIAGRAM:	005010.01	**ASSEMBLY:**	F3
OUTLINE:	B-SS622368		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5 1/2&4	4.1&2.98	3600	3510&2930	112M	TEFC	J	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#200/400	12.6/6.3&10.8/5.4	LINE OR INVERTER	CONTINUOUS	F2	1.15/1.15	40	3300

FULL LOAD EFF: 88.5&90.2	3/4 LOAD EFF: 90.2	1/2 LOAD EFF: 90.2	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 91&90.5	3/4 LOAD PF: 88.5	1/2 LOAD PF: 81.5	87.5	SQ CAGE INV RATED	3.8 / 1.9

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
8.2 LB-FT	101 / 50.5	17.7 LB-FT 215	26.4 LB-FT 322	64

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
44.5 dBA	54.5 dBA	0.12 LB-FT^2	- LB-FT^2	15 SEC.	2	110 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6206	BALL 6205	POLYREX EM	STANDARD IEC	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 20:1
INV. HP SPEED RANGE: 1.5 X BASE SPEED

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

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