

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 112MTFC4576

Catalog No: R323

Cast Iron Motor, 3 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM, 112M Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E

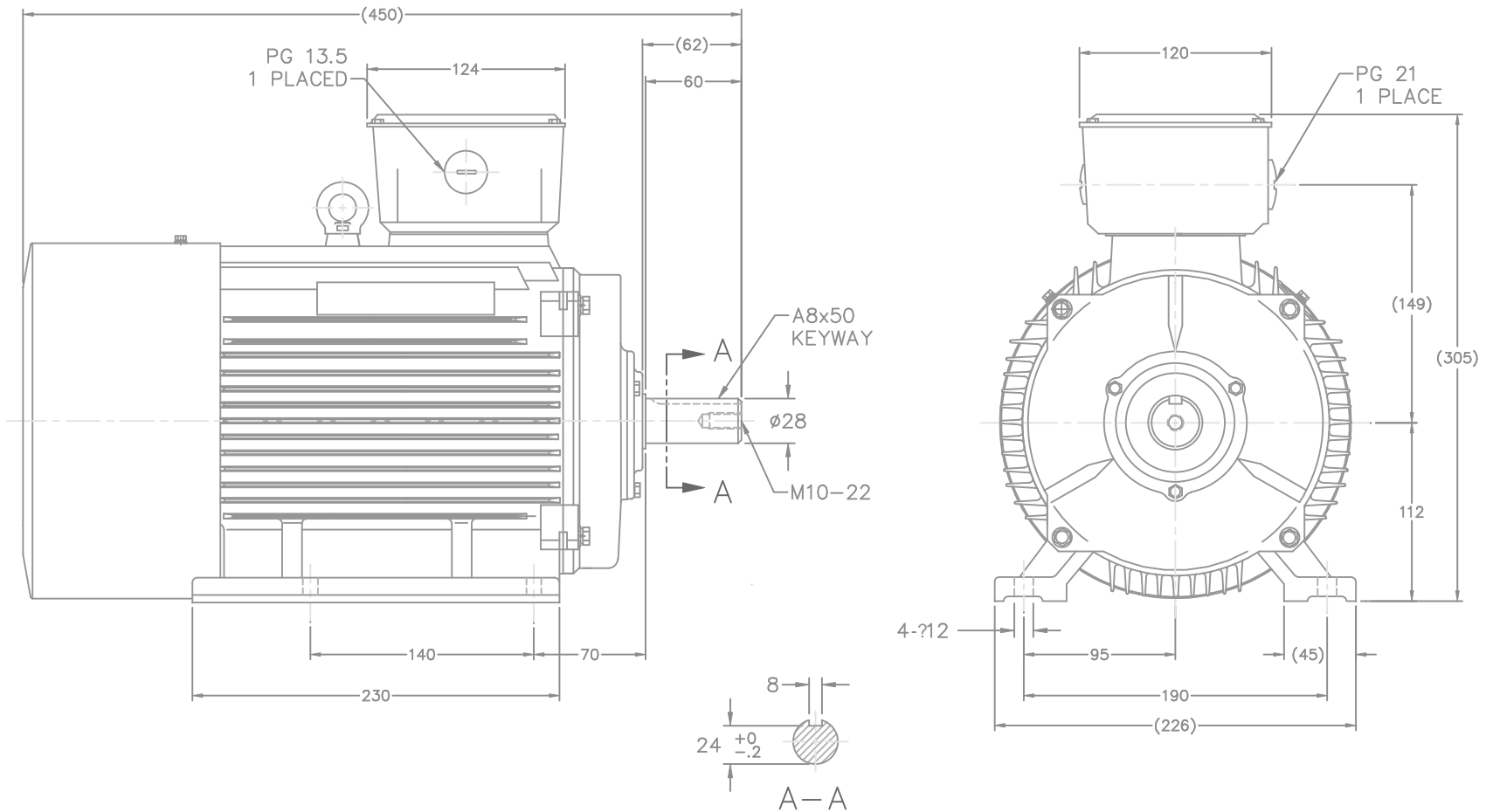
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	3 & 3 Hp
Output KW	2.2 & 2.2 kW	Voltage	230/460 & 200/400 V
Speed	1180 & 975 rpm	Service Factor	1.15 & 1.0
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	88.5 & 87.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	8.4/4.2 & 9.6/4.8 A	Power Factor	75
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6306
UL	No	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

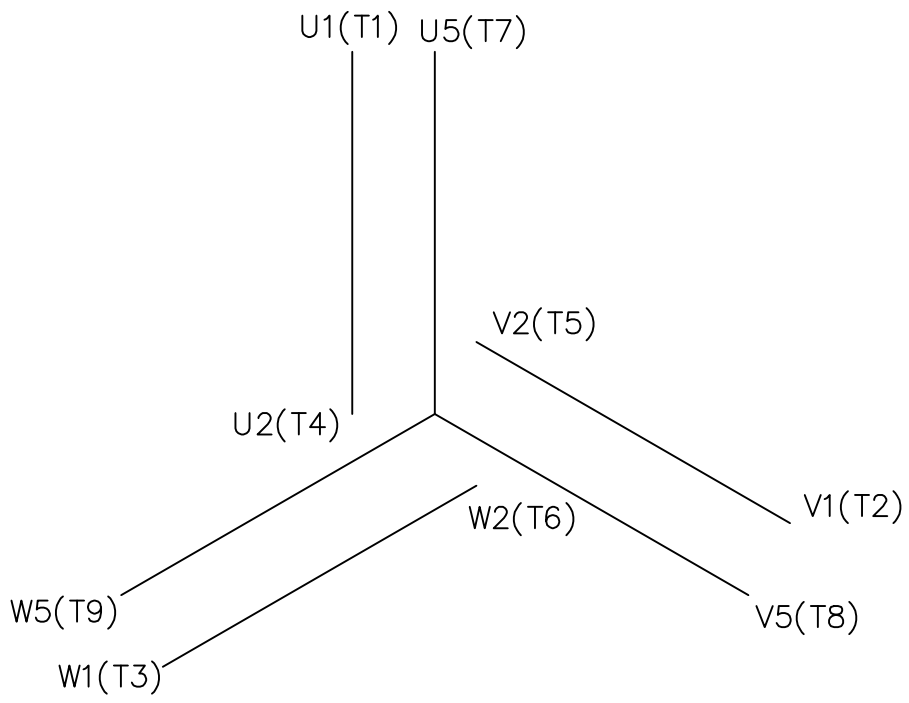
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	3.606 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Overall Length	17.71 in
Shaft Diameter	1.110 in	Shaft Extension	2.44 in
Assembly/Box Mounting	F3		
Outline Drawing	B-SS620004-100ME	Connection Drawing	005465.01ME



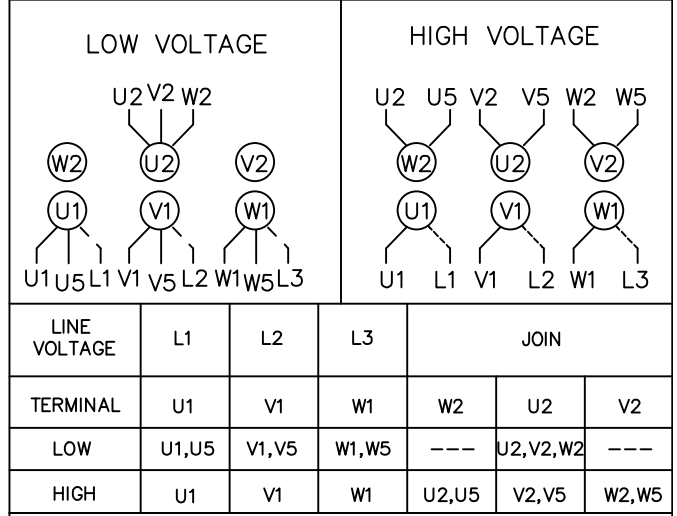
ALL DIMENSIONS TO BE REF. DIMENSION.

		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN CTD 08-04-2004					
		DEC.	INCHES			CHK	ML 08-04-2004				
		.X	$\pm .1$	TITLE OUTLINE - IEC 112M FR.		APPD	SB 08-04-2004				
		.XX	$\pm .03$			SCALE	3=8				
		.XXX	$\pm .005$			REF					
1	ADDED SHAFT DETAIL AND FOOT HOLE DIM'S CN 38637	DRS	11-22-2004	ML	.XXXX	$\pm .0005$	MAT'L				
NO.	REVISION	BY & DATE		CHK	ANG	$\pm 7'30"$	FINISH				
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	CAD FILE ss620004		SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST	WA		B	SS620004	1		1

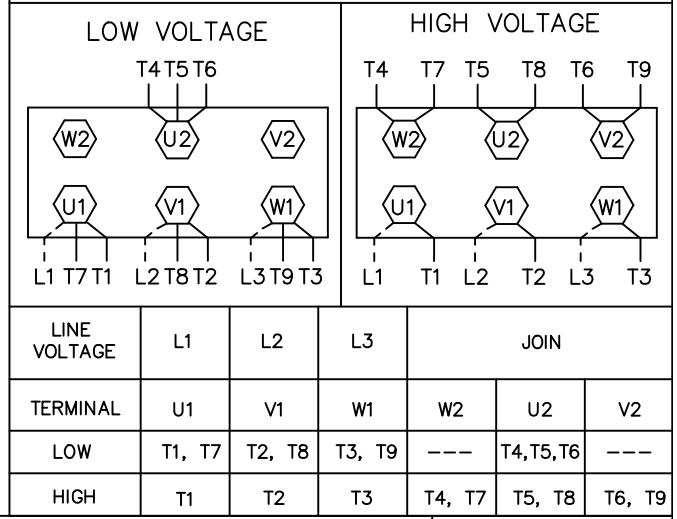


REF. DECAL (IEC) 080644
REF. DECAL (NEMA) 080446

IEC MARKINGS



NEMA MARKINGS



				TOLERANCES UNLESS SPECIFIED			DRAWN JGO 3/10/04			
				DEC.	INCHES		CHK SB 02-17-2010			
				.X	±.1		APPD MJS 02-17-2010			
				.XX	±.01		SCALE 1=1			
				.XXX	±.005		REF			
				.XXXX	±.0005	MAT'L. IEC/NEMA MARKINGS		FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2'	FINISH	PREV			
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	02-17-2010	CAD FILE	00546501ME	SIZE A	DRAWING NO. 005465ME-01	REV.
				DIST						

CERTIFICATION DATA SHEET

Model#: 112MTFC4576 AA **WINDING#:** 112MTFC4576 NONE 3
CONN. DIAGRAM: 005465.01ME **ASSEMBLY:** F3
OUTLINE: B-SS620004-100ME

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&3	2.24&2.24	1200	1180&975	112M	TEFC	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#200/ 400	8.4/4.2&9.6/4. 8	LINE OR INVERTER	CONTINUOU S	F7	1.15/1.0	40	3300

FULL LOAD EFF: 88.5&87.5	3/4 LOAD EFF: 88.5	1/2 LOAD EFF: 86.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 75&77	3/4 LOAD PF: 68	1/2 LOAD PF: 55.5	84	SQ CAGE INV RATED	4.8 / 2.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
13.4 LB-FT	66.4 / 33.2	33.9 LB-FT 253	48.2 LB-FT 360	25

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
52 dBA	62 dBA	0 LB-FT^2	- LB-FT^2	15 SEC.	2	0 LBS.

***** SUPPLEMENTAL INFORMATION *****

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	STANDARD IEC	NONE	NONE	AISI 1045 (C-240)	CAST IRON
6306	6306						

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

*
N
O
T
E
S
*

DATE: 06/22/2017 04:27:26 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

112MTFC4576

Date: 12/12/2018
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



Submittal

Data @ 460 V

Motor Load Data

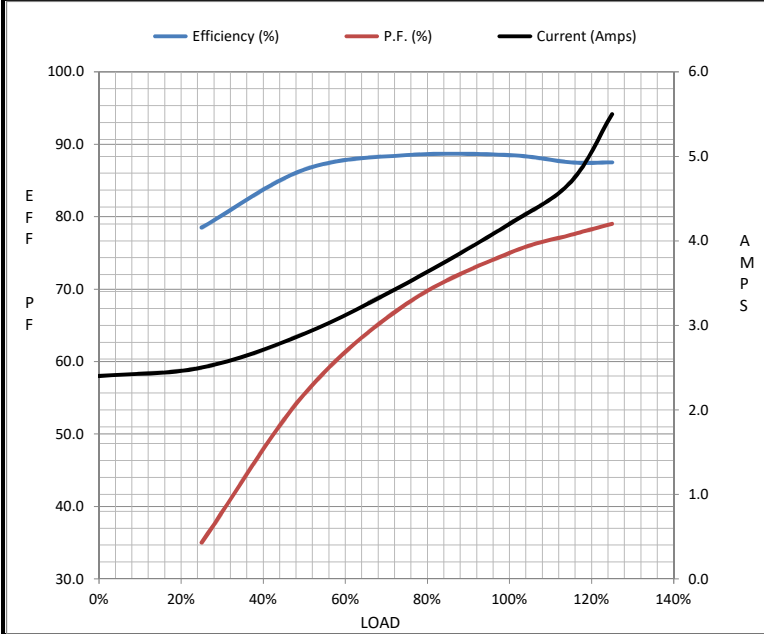
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	2.40	2.50	2.90	3.5	4.2	4.7	5.5	33.2
Torque (ft-lb)	0.00	3.3	6.6	10.0	13.4	15.4	16.8	33.9
RPM	1200	1195	1190	1185	1180	1,175	1173	0
Efficiency (%)		78.5	86.5	88.5	88.5	87.5	87.5	
P.F. (%)	7.0	35.0	55.5	68.0	75.0	77.5	79.0	46.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	400	1020	1180	1200
Current (Amps)	33.2	29.5	19.8	4.2	2.40
Torque (ft-lb)	33.9	25.0	48.2	13.4	0.00

Information Block

HP	3.0			
Sync. RPM	1200			
Frame	112			
Enclosure	TEFC			
Construction	TFC			
Voltage	230/460#200/400 V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	25 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.00 Lb-Ft ²			
Ref Wdg	112MTFC4576 NONE			
Sound Pressure @ 1M	52 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	B-SS620004-100ME			
Conn. Diag	005465.01ME			
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

