

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 225MTFC6526

Catalog No: R501

Globetrotter® IEC Cast Iron Motor, 60 & 50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V,
1800 & 1500 RPM, 225M 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

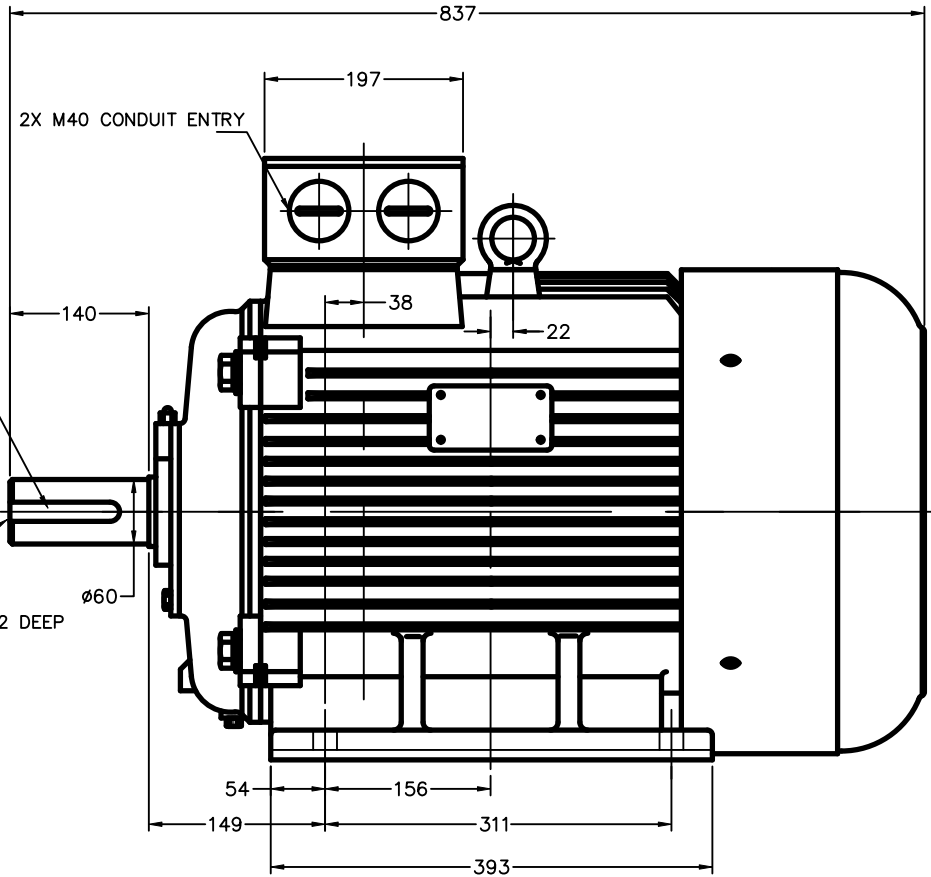
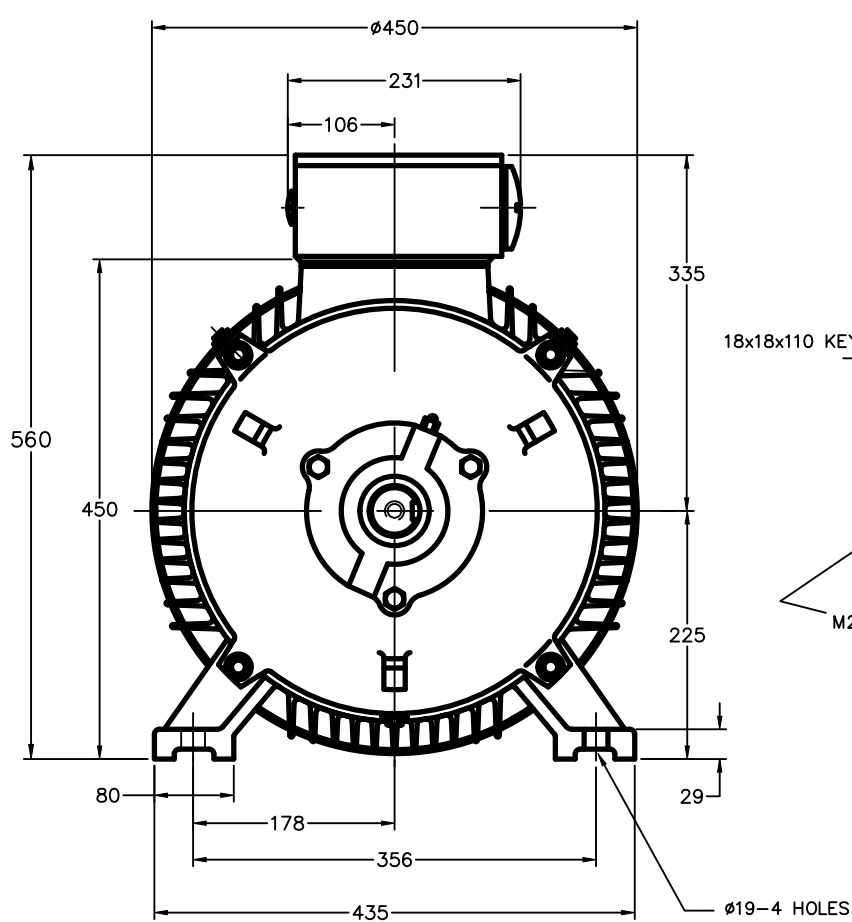
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	60 & 50 Hp
Output KW	45.0 & 37.0 kW	Voltage	230/460 & 200/400 V
Speed	1786 & 1486 rpm	Service Factor	1.15 & 1.15
Frame	225M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95 & 94.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	138/69 & 135/67.5 A	Power Factor	85.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213
UL	Recognized	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start & Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.06 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	32.95 in
Shaft Diameter	2.333 in	Shaft Extension	5.5 in
Assembly/Box Mounting	F3		
Outline Drawing	SS622330	Connection Drawing	00417201ME



DRAWING NOT TO SCALE

TOLERANCES:
 .X = ±2.5
 .XX = ±.76
 .XXX = ±.127
 .XXXX = ±.0127
 ANG. = ±7'30"

DRAWING REVISION E	REVISION BY SP	REV. DATE / © DATE 04/13/2022
REQUEST NUMBER CR-0008319	APPROVED BY SP	DATE 04/13/2022
REQUEST NUMBER DESCRIPTION DRAWING UPDATED TO ADD MISSING DIMENSIONS		
<small>COPYRIGHT (PER REVISION DATED) REGAL BELLOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELLOIT AMERICA, INC. COMPANY AND CONTAINS COMPANY'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small>		

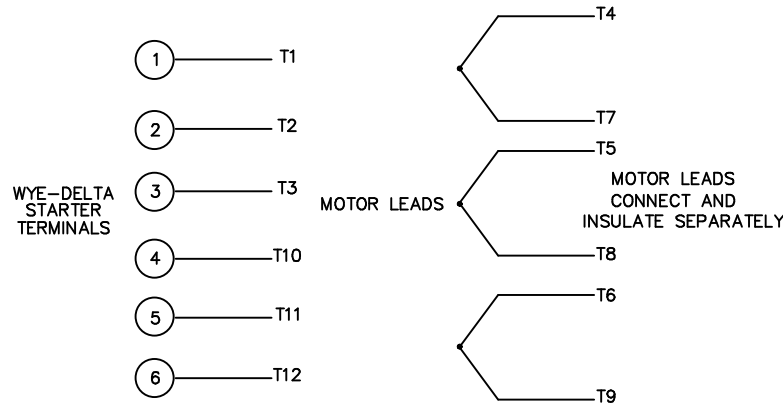
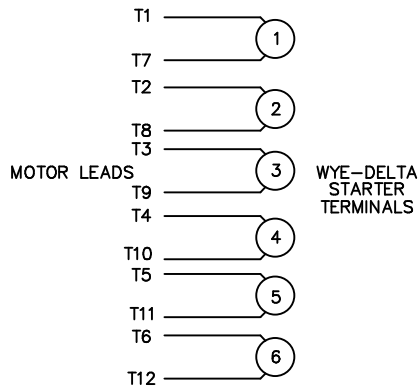
PRIMARY DIMENSIONS ARE mm
 INCH DIMENSIONS IN [BRACKETS]
 ARE FOR REFERENCE ONLY

DRAWN BY MDL	 Regal Beloit America, Inc.		
DATE 12/01/2011			
APPROVED BY MDL	DESCRIPTION OUTLINE IEC-225M-4-TEFC		
DATE 12/01/2011	MATERIAL		
REFERENCE	PROCESS/FINISH		
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER SS622330	SHEET 1 OF 1

WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

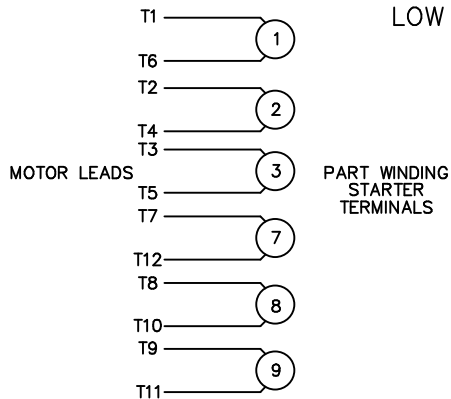
LOW VOLTAGE CONNECTION

HIGH VOLTAGE CONNECTION



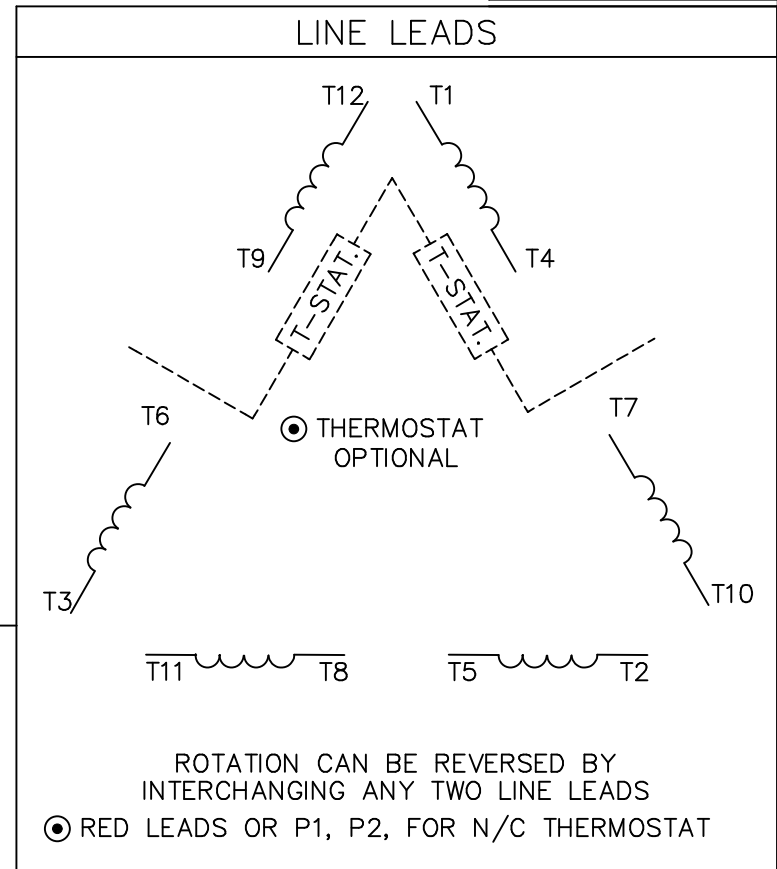
REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

PART WINDING START USABLE ON 4 & 6 POLE MOTORS
LOW VOLTAGE CONNECTION ONLY



REFER TO THE PART WINDING STARTER INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

REFER TO THE CUTLER - HAMMER OR EQUIV. FOR PROPER SELECTION OF OVERLOAD HEATER COILS.



ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS
● RED LEADS OR P1, P2, FOR N/C THERMOSTAT

ACROSS THE LINE START & RUN

	LINE 1	LINE 2	LINE 3	JOIN & INSULATE SEPARATELY
HIGH VOLT	T1, T12	T2, T10	T3, T11	(T4, T7) (T5, T8) (T6, T9)
LOW VOLT	T1, T6 T7, T12	T2, T4 T8, T10	T3, T5 T9, T11	

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED		FINISH
				DEC.	INCHES	
				.X	±.1	
03	REV'D LOW VOLTAGE CONN. LEADS PER ELEC.	BJB 06/07/00		.XX	±.01	
02	ADDED T-STAT. NOTES PER ELECTRICAL	KMM 06/02/98		.XXX	±.005	
01	REDRAWN TO CAD	DBT 06/02/97		.XXXX	±.0005	
				ANG	±1/2'	

MARATHON ELECTRIC

DRAWN WLW 09/08/77
 CHK RPB 09/12/77
 APPD JCW 09/12/77
 SCALE 1=1
 REF
 FMF
 PREV

TITLE DELTA - WYE CONNECTION DIAGRAM

CAD FILE 00417201ME SIZE A DRAWING NO. 004172-01ME REV. 03

** Subject to change without notice.

Data Sheet

Date: 6/29/2017

225MTFC6526

Customer: _____



Attention: _____

Submittal

Submitted by: FAREEDA DUDEKULA

Data @ 460 V

Motor Load Data

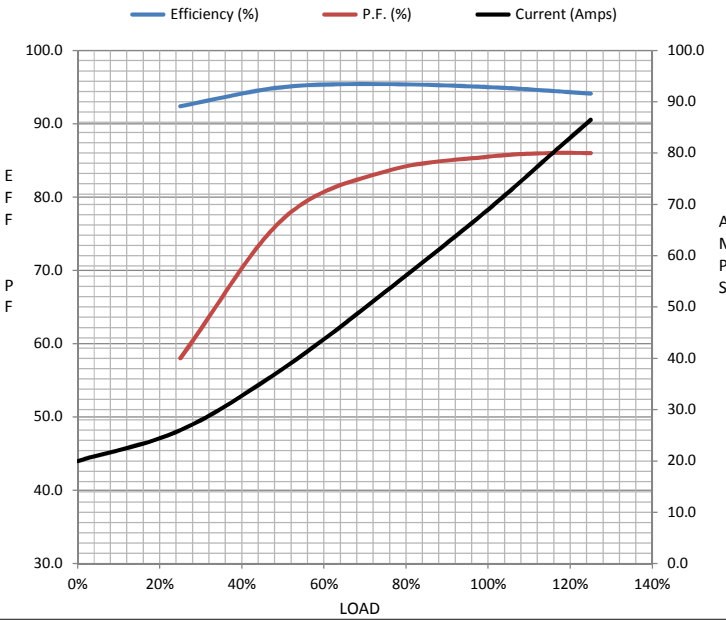
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	20.0	26.0	38.0	53.0	69.0	79.5	86.5	435
Torque (ft-lb)	0.00	44.0	88.0	132	176	203	221	300
RPM	1800	1798	1795	1790	1786	1,782	1780	0
Efficiency (%)		92.4	95.0	95.4	95.0	94.5	94.1	
P.F. (%)	5.0	58.0	77.0	83.5	85.5	86.0	86.0	31.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1735	1786	1800
Current (Amps)	435	400	250	69.0	20.0
Torque (ft-lb)	300	250	460	176	0.00

Information Block

HP	60.0			
Sync. RPM	1800			
Frame	364			
Enclosure	TEFC			
Construction	TFC			
Voltage	30/460#200/401V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.00 Lb-Ft ²			
Ref Wdg	T18304024 NONE			
Sound Pressure @ 1M	65 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	SS622330			
Conn. Diag	00417201ME			
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

