PRODUCT INFORMATION PACKET

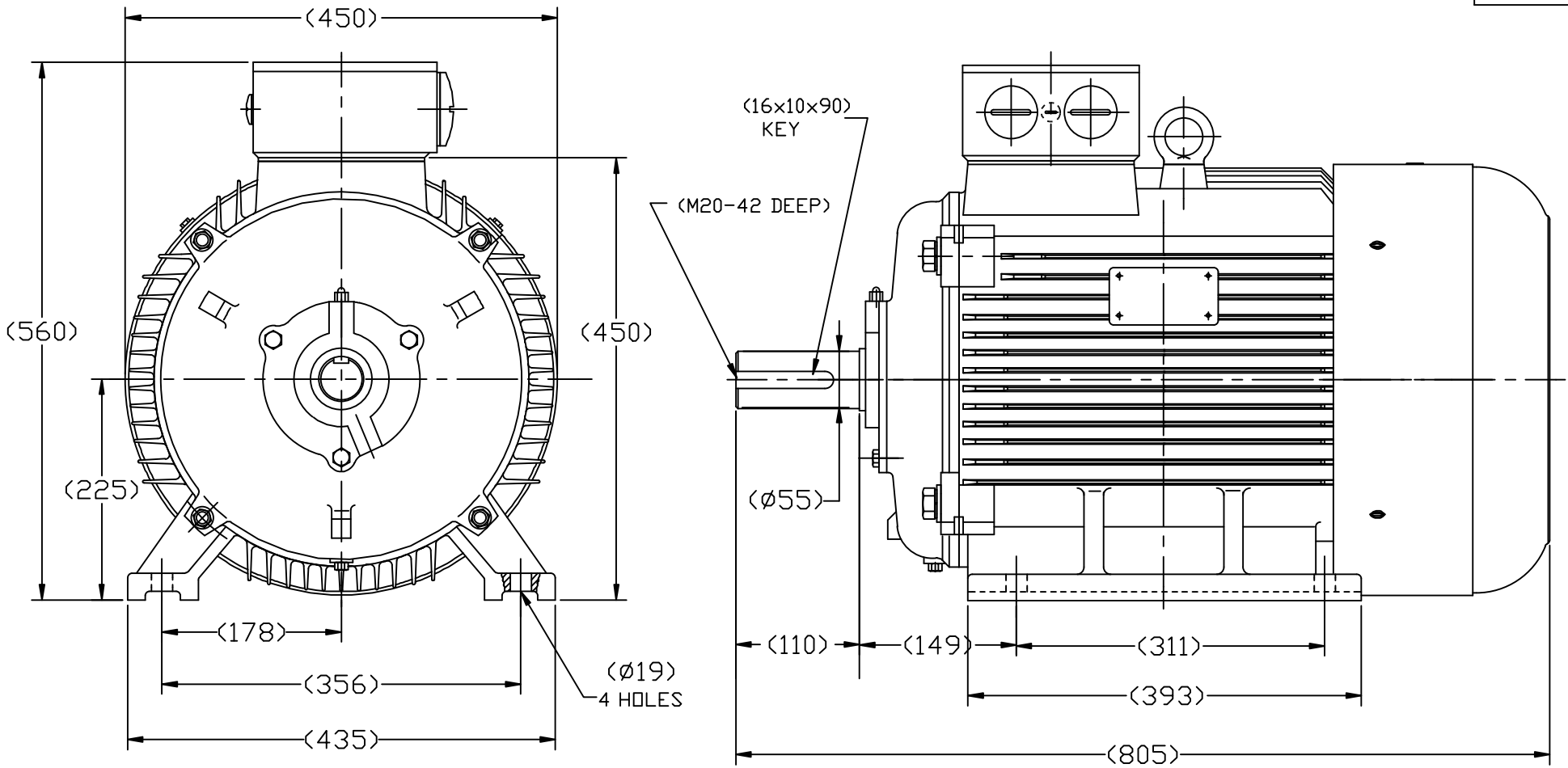
Model No: 225MTFC6501
Catalog No: R500
Globetrotter® IEC Cast Iron Motor, 60 & 50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM, 225M Frame, TEFC

Nameplate Specifications

Phase	3	Output HP	60 & 50 Hp
Output KW	45.0 & 37.0 kW	Voltage	230/460 & 200/400 V
Speed	3572 & 2970 rpm	Service Factor	1.15 & 1.15
Frame	225M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.1 & 93.6 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	134/67 & 134/67 A	Power Factor	88.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6213	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	2	Rotation	Reversible
Resistance Main	.0732 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	31.69 in
Shaft Diameter	2.333 in	Shaft Extension	4.33 in
Assembly/Box Mounting	F3		
Connection Drawing	004172.03ME	Outline Drawing	SS622377

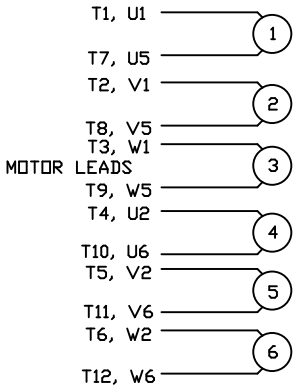


DRAWING MAY NOT BE TO SCALE

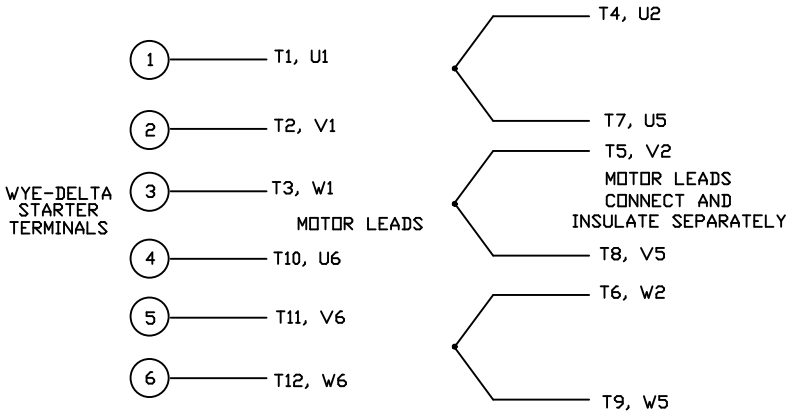
			TOLERANCES UNLESS SPECIFIED		REGAL REGAL-BELOIT CORPORATION			DRAWN	NDL 08-14-2012
			DEC.	INCHES				CHK	
			.X	±.1				APPD	
			.XX	±.03	TITLE	OUTLINE		SCALE	
			.XXX	±.005		DF225M-2,4R-PREMIUM		REF	R500,R501
			.XXXX	±.0005	MAT'L.			FMF	HEBEI
NO.	REVISION	BY & DATE	CHK	ANG ±1/2	FINISH			PREV	
THIS DRAWING 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		CAD FILE	SS622377	SIZE B	DRAWING NO. SS622377	REV.
			DIST						

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

LOW VOLTAGE CONNECTION

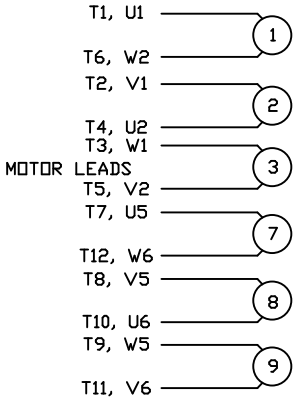


HIGH VOLTAGE CONNECTION



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

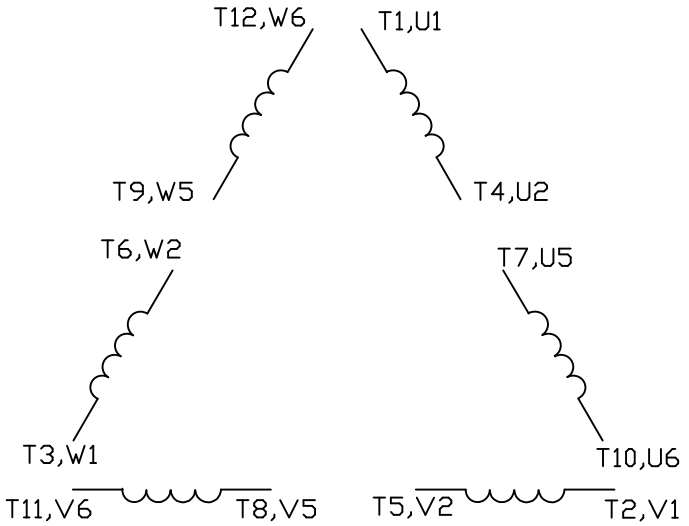
PART WINDING START USABLE ON 4 & 6 POLE MOTORS LOW VOLTAGE CONNECTION ONLY



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.

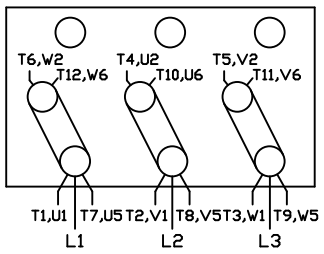
LINE LEADS



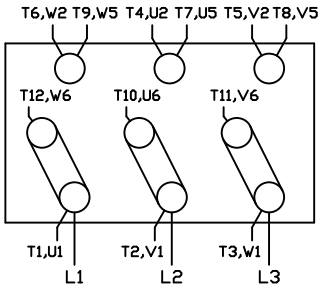
ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS

12 LEAD DELTA CONNECTION ACROSS THE LINE START
(FOR Y START DELTA RUN, REMOVE THE JUMPERS)

LOW VOLTAGE
(MUST BE REWIRED AS SHOWN)



HIGH VOLTAGE
(FACTORY WIRED FOR HIGH VOLTAGE AS SHOWN)



				TOLERANCES UNLESS SPECIFIED			
				DEC.	INCHES		DRAWN CJW 08/28/02
				.X	±.1		CHK
				.XX	±.01	TITLE DELTA - WYE CONNECTION DIAGRAM IEC CAST IRON MOTORS	APPD
				.XXX	±.005		SCALE 1=1
				.XXXX	±.0005		REF
NO.	REVISION	BY & DATE	CHK	ANG	±1/2°	MAT'L.	FMF
						FINISH	PREV

RFP
DIST

CAD FILE 00417203ME

SIZE	DRAWING NO.	REV.
A	004172-03ME	

6/28/2007 3:22:33 PM -

CERTIFICATION DATA SHEET

Model#:	225MTFC6501 AA	**WINDING#:**	T18302028 NONE 1
CONN. DIAGRAM:	004172.03ME	**ASSEMBLY:**	F3
OUTLINE:	SS622377		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
60&50	45&37	3600	3572&2970	225M	TEFC	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#200/400	134/67&134/67	PWS & YDRUN OR INV	CONTINUOUS	F5	1.15/1.15	40	3300

FULL LOAD EFF: 94.1&93.6	3/4 LOAD EFF: 94.1	1/2 LOAD EFF: 93.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88.5&88	3/4 LOAD PF: 88	1/2 LOAD PF: 85	93	SQ CAGE INV RATED	28 / 14

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
88 LB-FT	830 / 415	155 LB-FT 175	210 LB-FT 238	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	0 LB-FT^2	- LB-FT^2	20 SEC.	2	- 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 6213	BALL 6213	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 10:1
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

* NOTES *

DATE: 06/23/2017 01:06:27 AM
FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 1/7/2019
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

225MTFC6501

Submittal

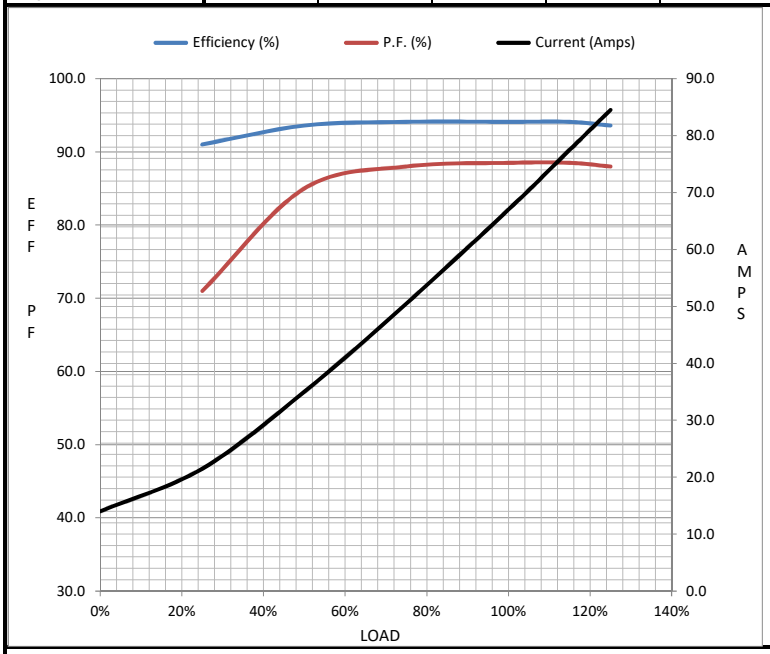
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	14.0	21.5	35.0	50.5	67.0	77.5	84.5	415	
Torque (ft-lb)	0.00	22.0	44.0	66.0	88.0	102	111	155	
RPM	3600	3595	3588	3580	3572	3,565	3562	0	
Efficiency (%)		91.0	93.6	94.1	94.1	94.1	93.6		
P.F. (%)	8.5	71.0	85.0	88.0	88.5	88.5	88.0	33.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3475	3572	3600
Current (Amps)	415	375	215	67.0	14.0
Torque (ft-lb)	155	125	210	88.0	0.00



Information Block

HP	60.0	
Sync. RPM	3600	
Frame	364	
Enclosure	TEFC	
Construction	TFS	
Voltage	230/460#200/400	V
Frequency	60	Hz
Design	B	
LR Code letter	F	
Service Factor	1.15	
Temp Rise @ FL	65	°C
Duty	CONT	
Ambient	40	°C
Elevation	3,300	feet
Rotor/Shaft wk²	0.00	Lb-Ft²
Ref Wdg	T18302028 NONE	
Sound Pressure @ 1M	999	dBA
VFD Rating	CONSTANT 10:1	
Outline Dwg	SS622377	
Conn. Diag	004172.03ME	
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