

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 225STFC6526

Catalog No: R349A

Globetrotter® IEC Cast Iron Motor, 50 & 40 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V,
1800 & 1500 RPM, 225S Frame, TEFC



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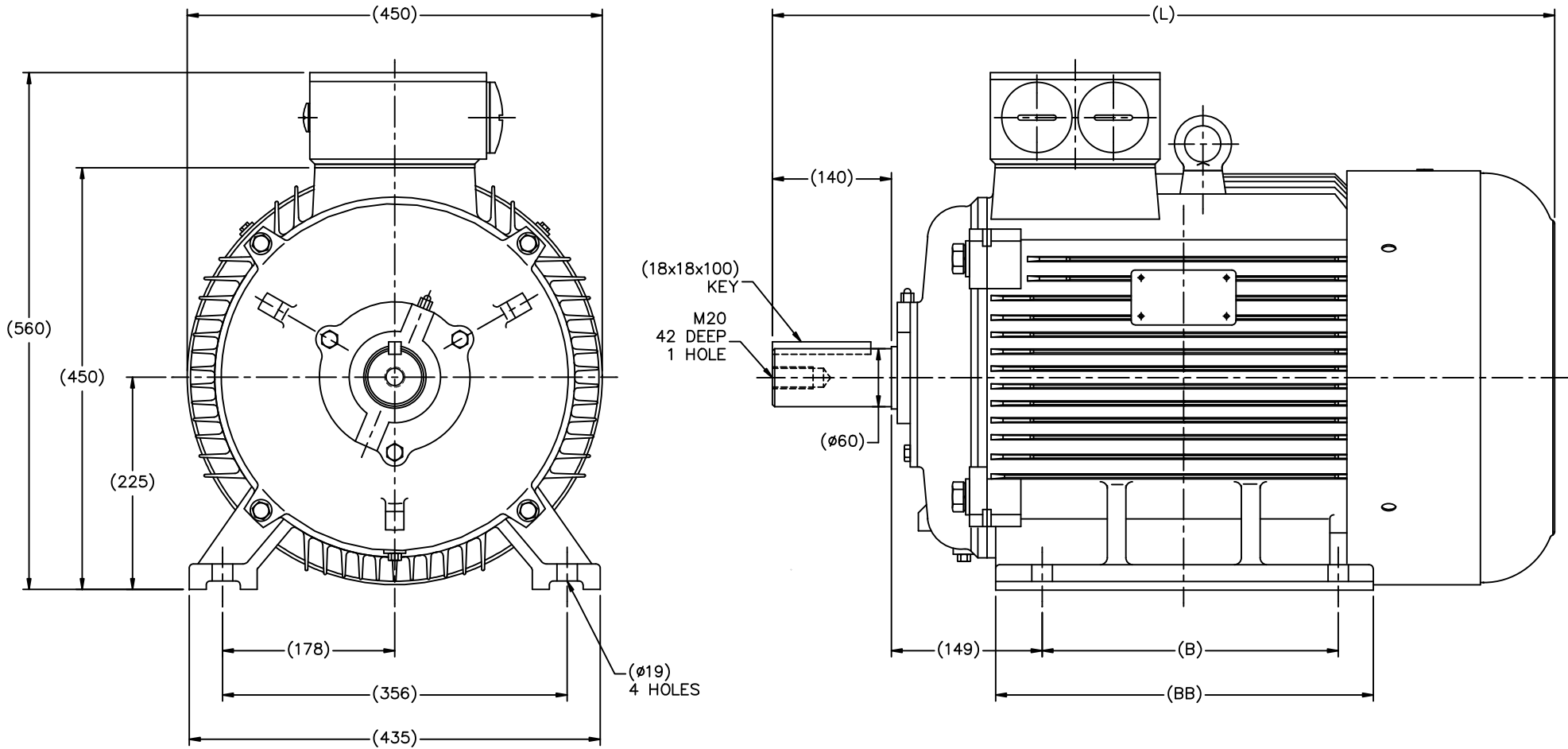
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	50 & 40 Hp
Output KW	37.0 & 30.0 kW	Voltage	230/460 & 200/400 V
Speed	1785 & rpm	Service Factor	1.15 & 1.15
Frame	225S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.5 & 94.1 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	118/59 & 111/55.5 A	Power Factor	84
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
UL	No	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
Mounting	Rigid Base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	IEC
Overall Length	31.96 in	Shaft Diameter	2.166 in
Shaft Extension	5.51 in	Assembly/Box Mounting	F3
Inverter Load	CONSTANT 10:1		
Connection Drawing	004172-01ME	Outline Drawing	B-SS622241



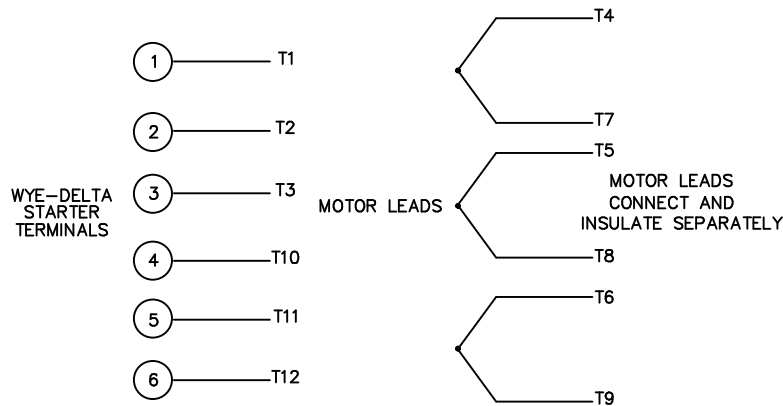
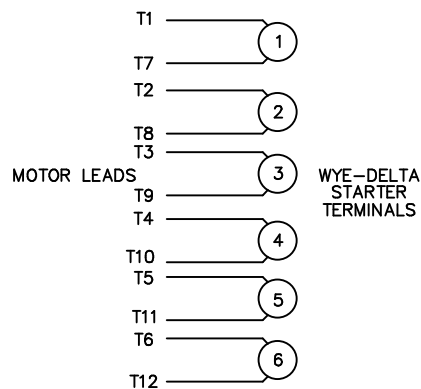
DF225S	193331.60	812	368	286
DF225M	193329.60	837	393	311
FRAME	PART #	L	BB	B

		TOLERANCES UNLESS SPECIFIED				DRAWN MSG 11-17-2010	
		DEC.	METRIC			CHK MJS 11-18-2010	
		.X	±2.5	TITLE OUTLINE - IEC PREMIUM		APPD SB 11-18-2010	
		.XX	±.76	DF225S, M-4, 6		SCALE 1=4	
		.XXX	±.127	MAT'L		REF	
		.XXXX	±.0127	FINISH		FMF HEBEI	
NO.	REVISION	BY & DATE	CHK ANG	±7'30"	RFP 11-18-2010	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						SIZE	DRAWING NO. PAGE OF REV.
						B	SS622241

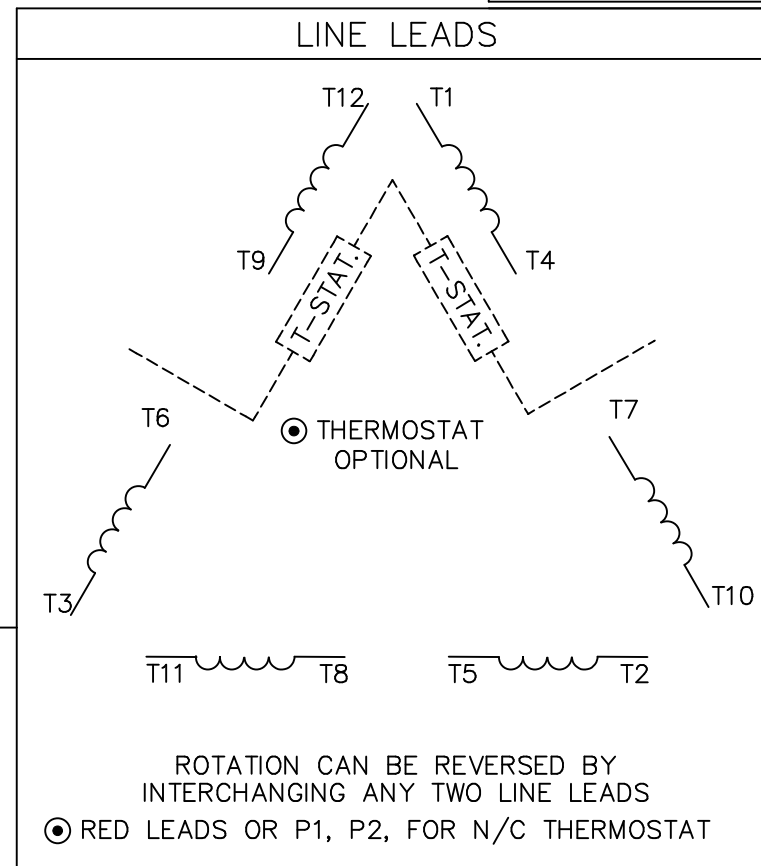
WYE - DELTA STARTING USEABLE ON 2, 4 AND 6 POLE MOTORS.

LOW VOLTAGE CONNECTION

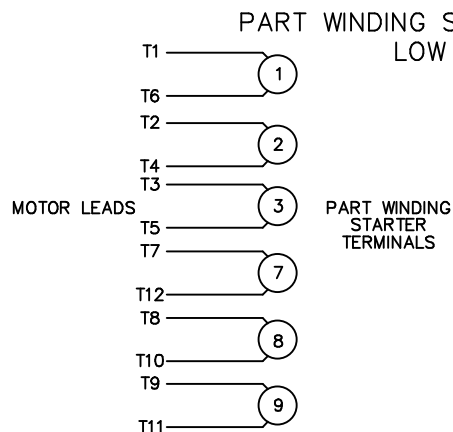
HIGH VOLTAGE CONNECTION



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



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



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.

	ACROSS THE LINE START & RUN			JOIN & INSULATE SEPARATELY
	LINE 1	LINE 2	LINE 3	
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	

				TOLERANCES UNLESS SPECIFIED			DRAWN RJW 07-19-2007
				DEC.	INCHES		CHK ML 07-19-2007
				.X	±.1		APPD GK 07-19-2007
				.XX	±.02		SCALE 1=1
				.XXX	±.005		REF MU61151
				.XXXX	±.0005	MAT'L.	FMF
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	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	07-19-2007	CAD FILE	004172-01ME	SIZE A
			DIST	LB			DRAWING NO. 004172-01ME
							PAGE 1 OF 1
							REV.

** Subject to change without notice.

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



225STFC6526

Submittal

Data @ 460 V

Motor Load Data

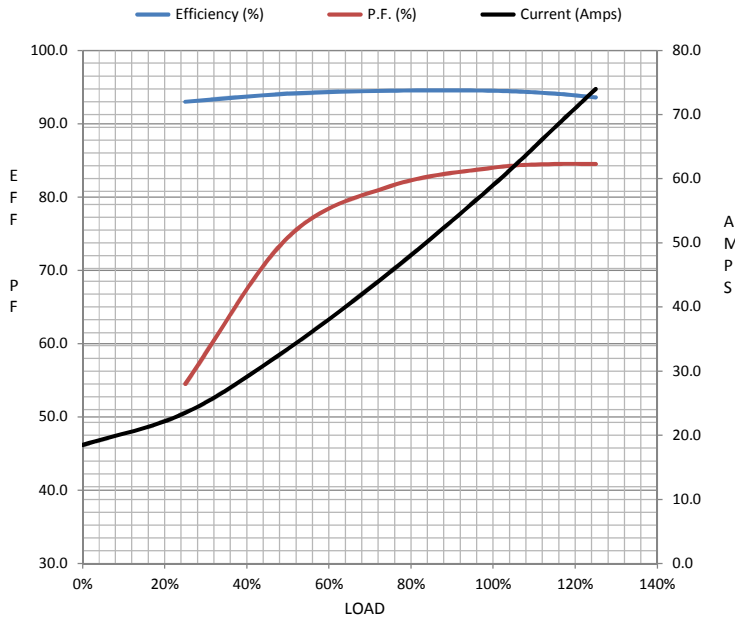
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	18.5	23.5	33.5	45.5	59.0	68.0	74.0	355
Torque (ft-lb)	0.00	36.5	73.0	110	147	170	185	221
RPM	1800	1796	1794	1790	1785	1,780	1779	0
Efficiency (%)		93.0	94.1	94.5	94.5	94.1	93.6	
P.F. (%)	5.5	54.5	74.5	81.5	84.0	84.5	84.5	30.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1730	1785	1800
Current (Amps)	355	316	216	59.0	18.5
Torque (ft-lb)	221	173	406	147	0.00

Information Block

HP	50.0			
Sync. RPM	1800			
Frame	225			
Enclosure	TEFC			
Construction	TFC			
Voltage	30/460#200/401V			
Frequency	60 Hz			
Design	B			
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	T18304023 NONE			
Sound Pressure @ 1M	57 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	B-SS622241			
Conn. Diag	4172.01ME			
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

