

# PRODUCT INFORMATION PACKET

marathon®  
Motors

Model No: 365TTFS16592

Catalog No: E402A

XRI®-SD Severe Duty Motor, 50 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 365T Frame, TEFC



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RegalRexnord

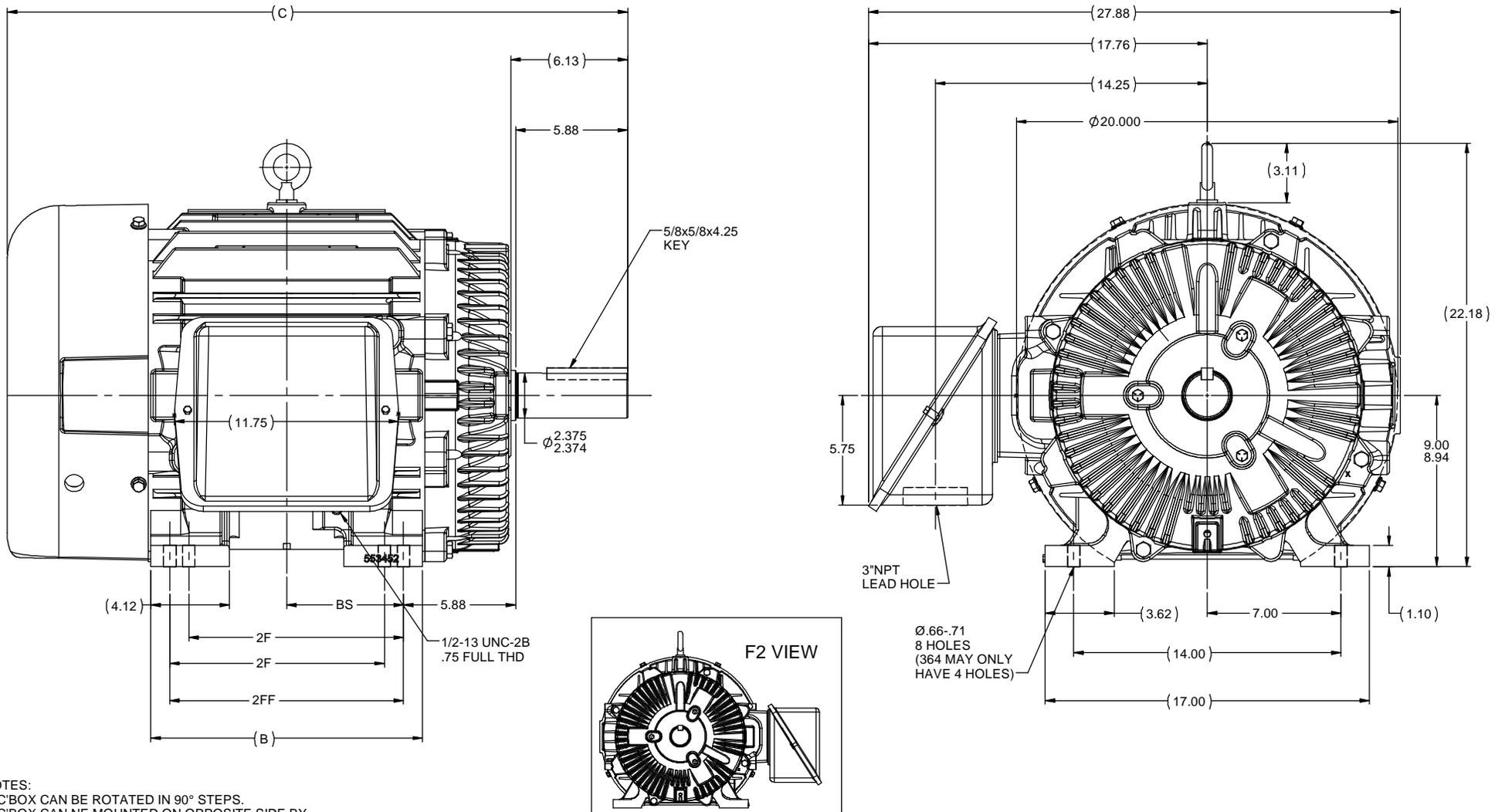
### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>50 Hp</b>
Output KW	<b>37.0 kW</b>	Voltage	<b>575 V</b>
Speed	<b>1182 rpm</b>	Service Factor	<b>1.15</b>
Frame	<b>365T</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>94.5 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 Hz</b>
Current	<b>49.0 A</b>	Power Factor	<b>80.5</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>G</b>
Drive End Bearing Size	<b>6314</b>	Opp Drive End Bearing Size	<b>6312</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>54</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>6</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.12 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>T</b>	Overall Length	<b>32.51 in</b>
Frame Length	<b>14.50 in</b>	Shaft Diameter	<b>2.375 in</b>
Shaft Extension	<b>6.12 in</b>	Assembly/Box Mounting	<b>F1/F2 Capable</b>
Inverter Load	<b>CONSTANT 2:1</b>		
Connection Drawing	<b>A-EE7300</b>	Outline Drawing	<b>B-SS508590-1450</b>

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- NOTES:  
 1. C'BOX CAN BE ROTATED IN 90° STEPS.  
 2. C'BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.  
 3. NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.

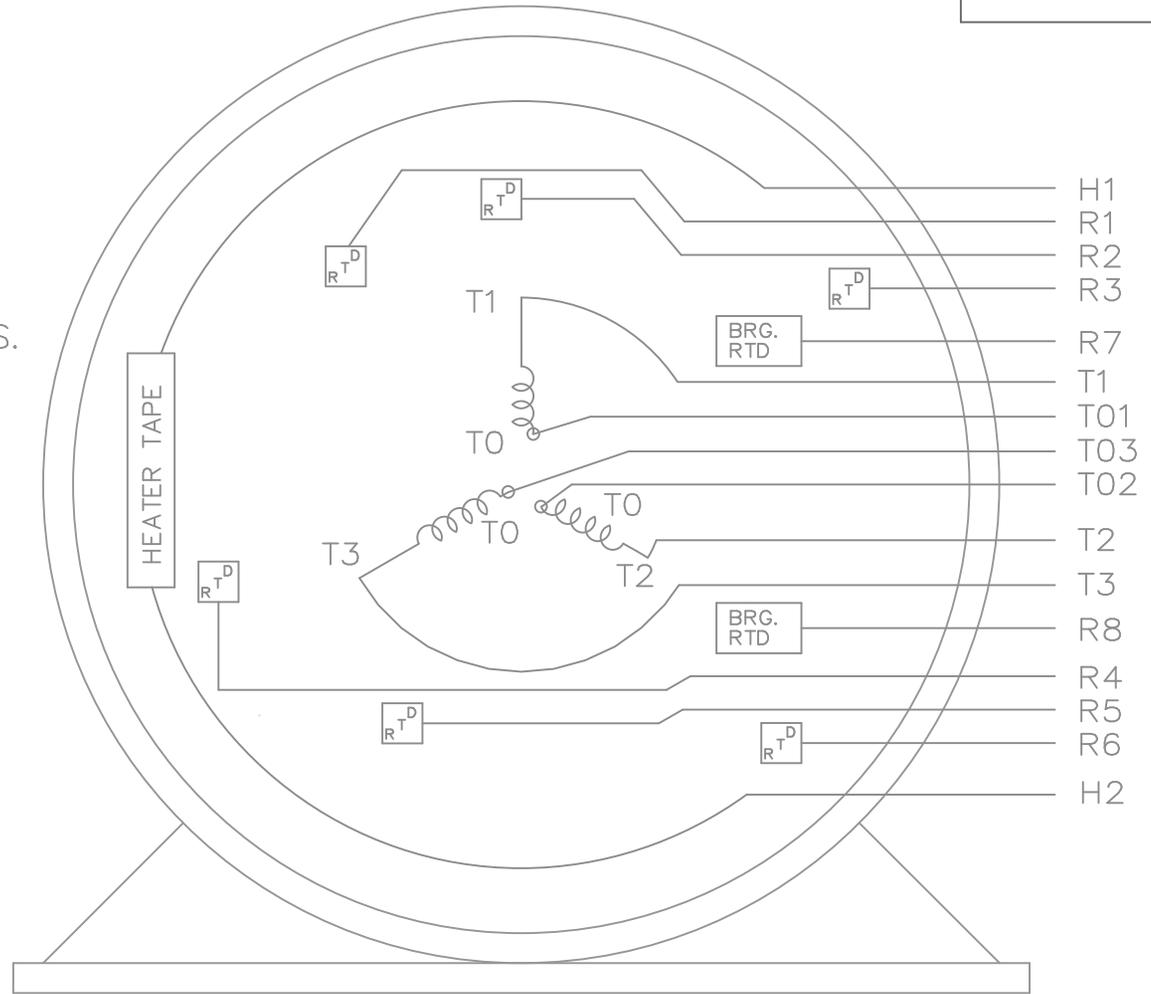
DASH	FRAME	B	C	2F	2FF	BS
1350	364T	13.25	31.50	11.25	-----	5.62
1450	365T	14.25	32.50	11.25	12.25	6.12

		TOLERANCES UNLESS SPECIFIED		Lincoln Motors		DRAWN TLB 04-29-1998	
		DEC	INCHES			CHK	FG 04-28-1998
7	UPDATED TO SOLIDWORKS	CJR 2-22-2012	DJK X ±.1			APPR	NL 04-29-1998
6	REDRAWN IN AUTOCAD	TAT 6-29-2004	ML XX ±.03	TITLE OUTLINE		SCALE	1:5
5	REVISED C'BOX CN 244390	MRB 09-09-1999	XXX ±.005	360T FR.-TEFC-TAPPED LEAD HOLE		REF	
4	REDRAWN ON CADD	TLB 4-29-1998	XXXX ±.0005	MATL		FMF	
NO	REVISION	BY & DATE	CHK	ANG	±730"	FINISH	PAGE OF
	THIRD ANGLE PROJECTION		RFP	PREV		SIZE	DRAWING NO
			NETWORK FILE NAME	SS508590LN		<b>B</b>	<b>SS508590LN</b>
							REV
							<b>7</b>

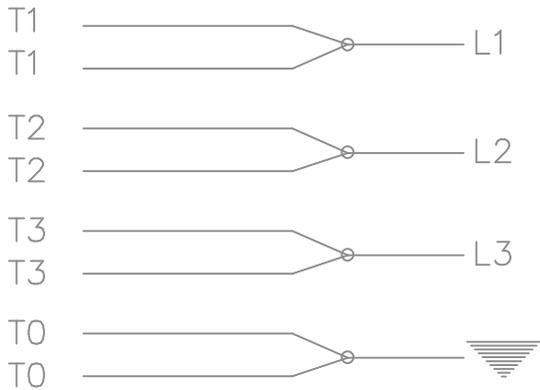
THREE PHASE – SINGLE VOLTAGE  
MOTOR OR INDUCTION GENERATOR  
WITH 6 STATOR RTD'S MARKED R1  
THRU R6, 2 BRG. RTD'S MARKED  
R7 AND R8, AND 2 HEATER LEADS  
MARKED H1 AND H2

NOTE:  
WHEN MORE THAN ONE HEATER IS USED  
HEATERS MUST BE CONNECTED IN SERIES.

TO REVERSE ROTATION:  
INTERCHANGE ANY TWO LINE  
LEAD CONNECTIONS



IF MOTOR HAS MULTIPLE  
T'S PER LEAD CONNECT  
TOGETHER LIKE T'S



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN KL 10-09-2001				
				DEC.	INCHES		CHK	DJK 10-09-2001			
				.X	±.1	TITLE CONNECTION DIAGRAM – EXTERNAL	APPD EAB 10-09-2001				
				.XX	±.02		SCALE 1=1				
2	REDRAWN IN AUTOCAD	TAT 08-02-2004	ML	.XXX	±.005		REF				
1	NEW DRAWING	MU38688 KL 10-09-2001		.XXXX	±.0005		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	CAD FILE ee7300hu		SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST			A	EE7300HU			2

Data Sheet

Date: 9/16/2024  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: VESHNU G



365TTFS16592

Submittal

Data @ 575 V

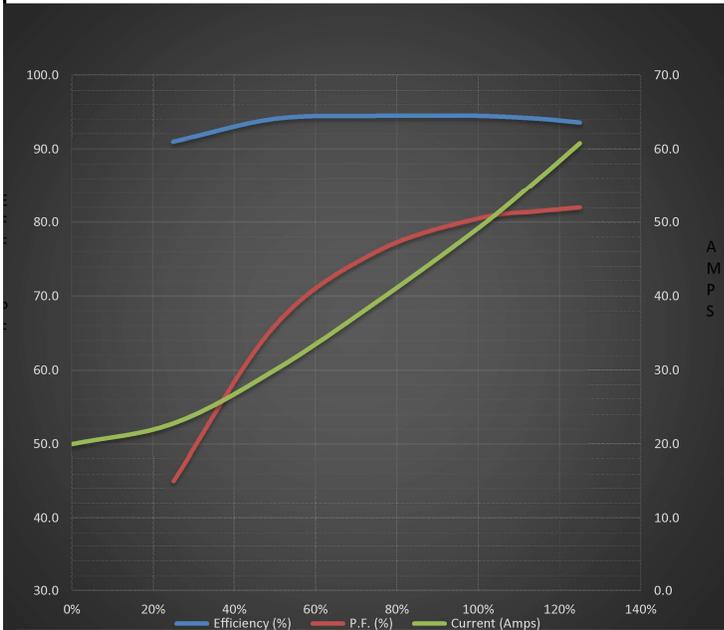
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	20.0	22.8	30.0	39.2	49.2	56.0	60.8	290
Torque (ft-lb)	-	55.0	110	166	222	256	280	445
RPM	1200	1195	1192	1188	1182	1,178	1175	0
Efficiency (%)		91.0	94.1	94.5	94.5	94.1	93.6	
P.F. (%)	4.0	45.0	66.0	76.0	80.5	81.5	82.0	34.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1125	1182	1200
Current (Amps)	290	260	180	49.2	20.0
Torque (ft-lb)	445	425	625	222	0.00

Information Block				
HP	50.0			
Sync. RPM	1200			
Frame	365			
Enclosure	TEFC			
Construction	TFS			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	70 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	3,300 feet			
Rotor/Shaft wk <sup>2</sup>	17.2 Lb-Ft <sup>2</sup>			
Ref Wdg	T367601 NONE			
Sound Pressure @ 1M	58 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS508590-1450			
Conn. Diag	A-EE7300			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1240	0.1110	0.6470	1.0540	15.6100



Speed - Torque Curve

