

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 213TTFS6594

Catalog No: E471

3 HP Severe Duty Motor, 3 phase, 1200 RPM, 230/460 V, 213T Frame, TEFC
Severe Duty Motors



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RegalRexnord

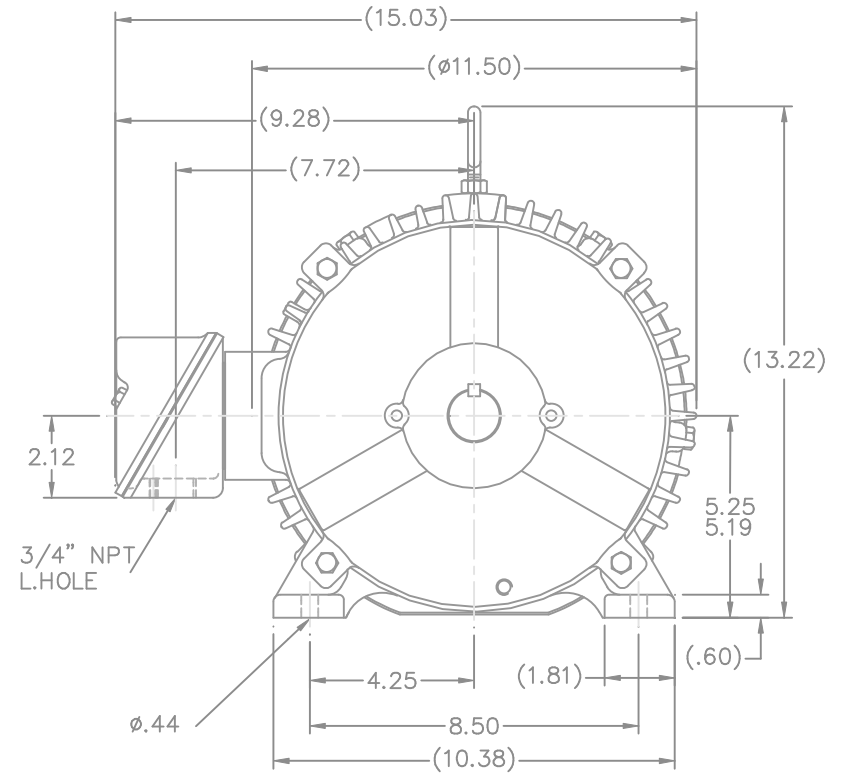
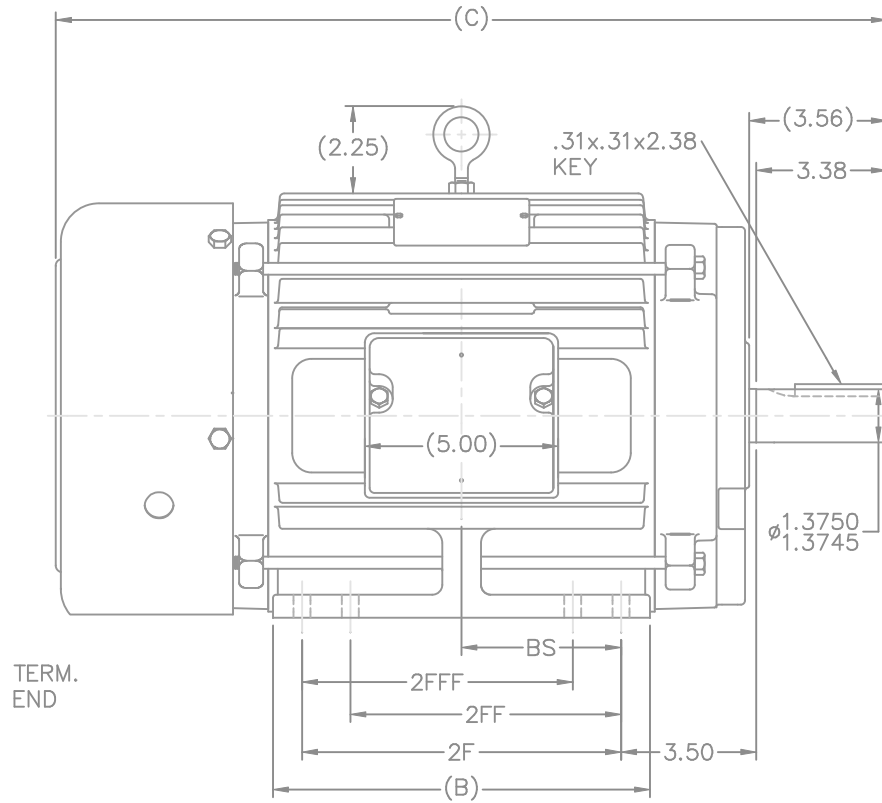
Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	8.8/4.4 A	Speed	1170 rpm
Service Factor	1.15	Phase	3
Efficiency	89.5 %	Power Factor	70
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Frame	213T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6307	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	54
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	2.785 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	18.22 in
Frame Length	7.25 in	Shaft Diameter	1.375 in
Shaft Extension	3.56 in	Assembly/Box Mounting	F1/F2 Capable
Connection Drawing	A-EE7308	Outline Drawing	B-SS84236-725

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DASH	FRAME	B	2F	2FF	2FFF	BS	FOOT HOLE QTY.	MOUNTING	C CAST FAN GUARD	C STEEL FAN GUARD
725	213T	7.00	5.50	—	—	2.75	4	F1 OR F2	18.22	18.74
875	215T	8.50	7.00	—	—	3.50	4	F1 OR F2	19.72	20.24
875	213/5T	8.50	7.00	5.50	5.50	3.50	8	F1 OR F2	19.72	20.24
1000	213T	9.75	8.25	5.50	5.50	4.12	8	F1 OR F2	20.97	21.49
1000	215T	9.75	8.25	7.00	7.00	4.12	8	F1 OR F2	20.97	21.49

NOTES:

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

13	REMOVED NOTE "SEE TABLE FOR HOLE QTY."	RDH 11-18-2003	ML	UNLESS SPECIFIED	TOLERANCES		DRAWN RM 1-11-1993 CHK ML 1-12-1993 APPD GK 1-12-1993 SCALE 5=16 REF FMF PREV
12	-875'S FOOT HOLE QTY'S. WERE SWITCHED CN37323	ERH 10-21-2003	ML	DEC.	INCHES		
11	REVISED TABLE TO CLARIFY MOUNTINGS CN37301	TAT 9-28-2003	ML	.X	±.1		
10	CORRECTED CONDUIT BOX VIEWS CN28426	BLR 1-5-2000	.XX	±.03			
9	REVISED CONDUIT BOX CN28426	BLR 1-4-2000	.XXX	±.005		TITLE OUTLINE	
8	REVISED DASH TABLE AND FOOT HOLE DIM.	MRB 3-26-1999	.XXXX	±.0005		MAT'L	
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	
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						DIST LB	
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						REV.	13



				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN RM 11/20/1990				
5	CHG TO REGAL LOGO	SL 09/10/2015	AB	DEC.	INCHES		CHK ML 11/21/1990				
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1		APPD SAS 04/24/2003				
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		SCALE 1=1				
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005	TITLE CONNECTION DIAGRAM 3Ø — DUAL VOLTAGE MOTOR	REF				
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		FMF				
NO.	REVISION	BY & DATE	CHK	ANG	±7"30"	FINISH	PREV				
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			DIST WP				A	EE7308			5

CERTIFICATION DATA SHEET

Model#: 213TTFS6594 BP
CONN. DIAGRAM: A-EE7308
OUTLINE: B-SS84236-725

WINDING#: K213660 NONE 6
ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3	2.24	1200	1170	213T	TEFC	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	8.8/4.4	LINE OR INVERTER	CONTINUOU S	F3	1.15	40	3300

FULL LOAD EFF: 89.5	3/4 LOAD EFF: 89.5	1/2 LOAD EFF: 87.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 70	3/4 LOAD PF: 62	1/2 LOAD PF: 49.5	88.5	SQ CAGE INV RATED	5 / 2.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
13.5 LB-FT	64 / 32	34 LB-FT 252	47.5 LB-FT 352	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
55 dBA	65 dBA	0.8 LB-FT^2	90 LB-FT^2	25 SEC.	2	160 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	DIVISION 2 T2B	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6307	6206	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	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

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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 - FT-LB NONE V NONE Hz

DATE: 06/21/2017 11:03:04 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 29-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA

213TTF56594



Submittal

Data @ 460 V

Motor Load Data

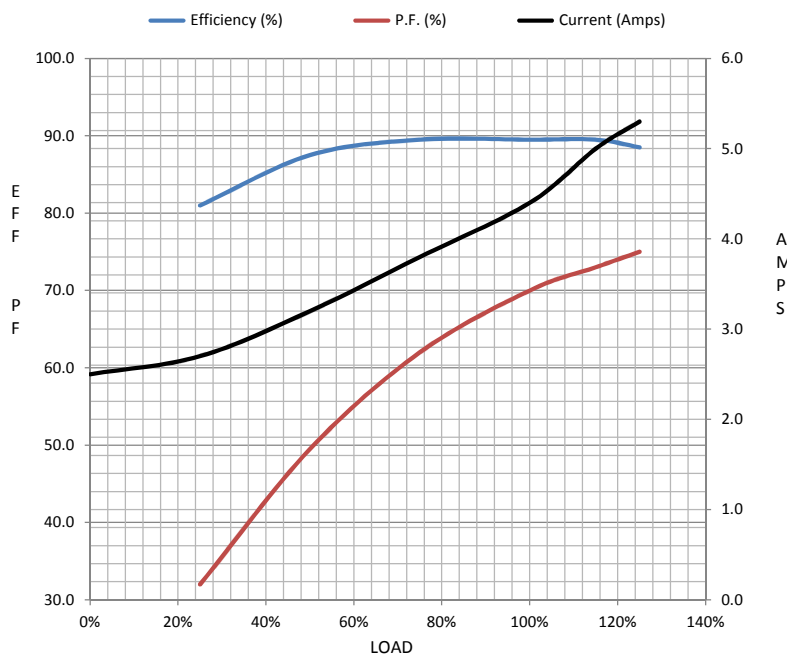
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.50	2.70	3.2	3.8	4.4	5.0	5.3	32.0	
Torque (ft-lb)	0.00	3.3	6.7	10.0	13.5	15.5	17.0	34.0	
RPM	1200	1194	1186	1180	1170	1,168	1166	0	
Efficiency (%)		81.0	87.5	89.5	89.5	89.5	88.5		
P.F. (%)	6.0	32.0	49.5	62.0	70.0	73.0	75.0	40.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1025	1170	1200
Current (Amps)	32.0	28.0	20.0	4.4	2.50
Torque (ft-lb)	34.0	32.0	47.5	13.5	0.00

Information Block

HP	3.0			
Sync. RPM	1200			
Frame	213			
Enclosure	TEFC			
Construction	TFN			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	35 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.80 Lb-Ft ²			
Ref Wdg	K213660 NONE			
Sound Pressure @ 1M	55 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	B-SS84236-725			
Conn. Diag	A-EE7308			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.6270	1.5890	6.7630	7.7850	95.0630



Speed -Torque Curve

