

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 284TTFNA6876

Catalog No: E483

15 HP Severe Duty Motor, 3 phase, 1200 RPM, 230/460 V, 284T Frame, TEFC
Severe Duty Motors



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RegalRexnord

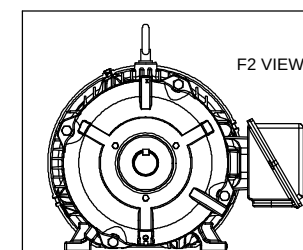
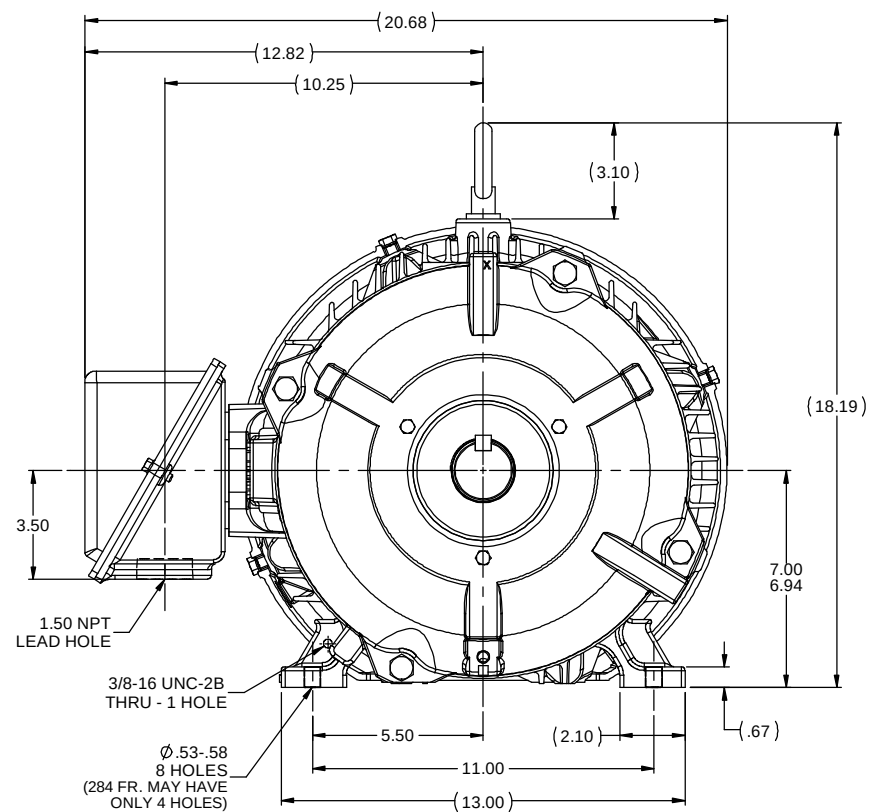
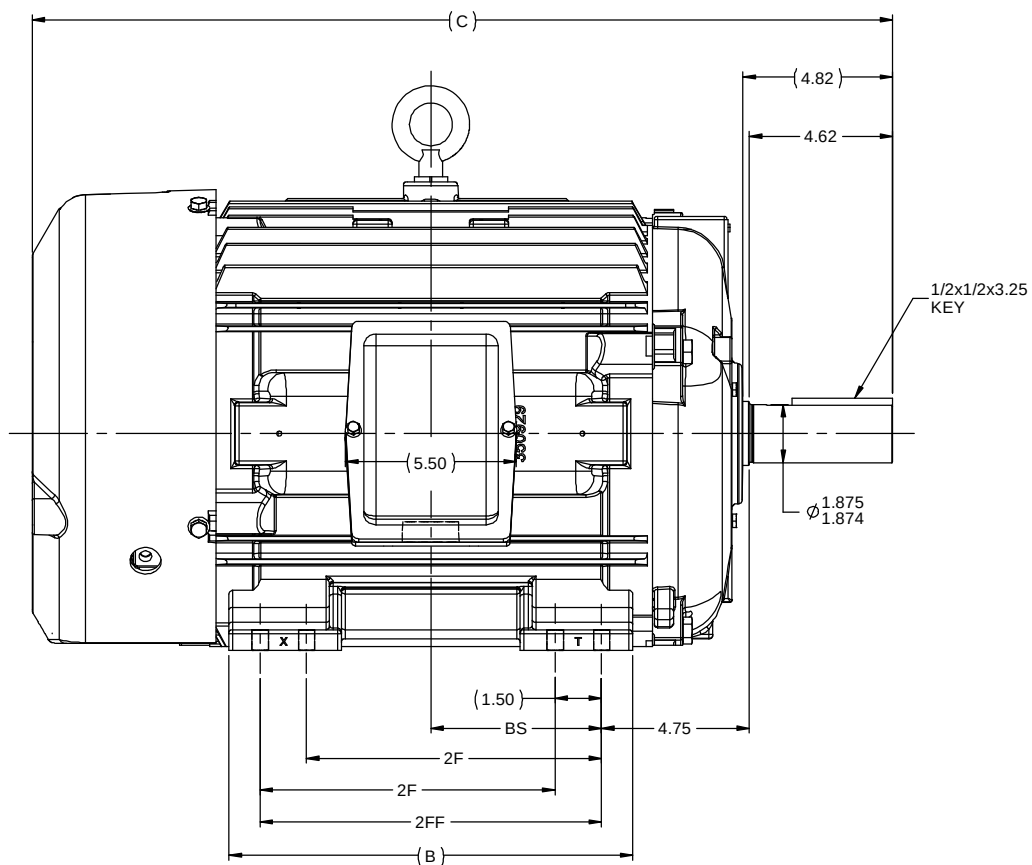
Nameplate Specifications

Output HP	15 Hp	Output KW	11.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	41.0/20.4 A	Speed	1178 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Power Factor	75
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	284T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6210
UL	Recognized	CSA	Y
CE	Y	IP Code	54
Number of Speeds	1		

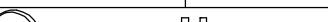
Technical Specifications

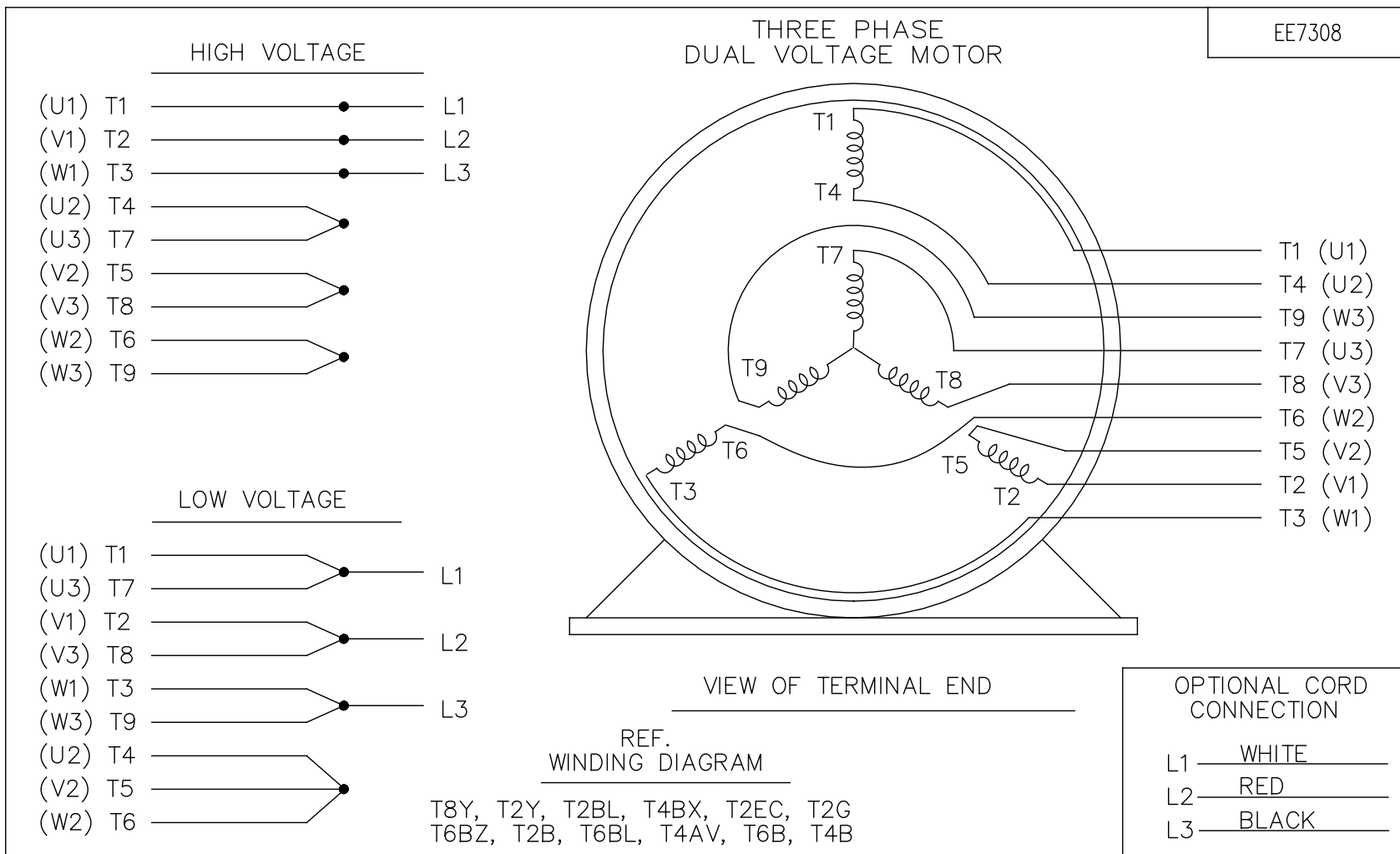
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.5026 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	26.21 in
Frame Length	12.75 in	Shaft Diameter	1.875 in
Shaft Extension	4.82 in	Assembly/Box Mounting	F1/F2 Capable
Connection Drawing	A-EE7308	Outline Drawing	B-SS311057-1275

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- NOTES:
1. CONDUIT BOX CAN BE ROTATED UP TO 270 ° FROM ITS ORIGINAL POSITION.
 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.

					TOLERANCES UNLESS SPECIFIED			DRAWN CAV 10-18-2000		
					DEC	INCHES		CHK ML 10-18-2000		
4	UPDATED TO NEW FRAME DESIGN	MU106205	MSG 08-22-2012	MSG	x	±.1		APPR BW 10-18-2000		
3	REDRAWN IN AUTOCAD - NO CHANGE		TAT 06-29-2004	ML	xx	±.03				
2	ADDED NOTE 3	MU35810	DAH 02-06-2001	ML	xxx	±.005	TITLE OUTLINE - TEFC - TGN 280T FR. - BB - STD - 12.50 LAM.	SCALE 1:4		
1	NEW DRAWING	MU34031	MSG 08-23-2012	ML	xxxx	±.0005		REF		
							MATL	FMF MU34031		
NO	REVISION		BY & DATE	CHK	ANG	±1/2°	FINISH	PAGE OF		
	THIRD ANGLE PROJECTION			RFP	10-18-2000		PREV	SIZE B	DRAWING NO SS311057	REV 4
					NETWORK FILE NAME		SS311057			



				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				
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 ee7308		SIZE	DRAWING NO.	PAGE	OF	REV.
			DIST WP				A	EE7308			5

CERTIFICATION DATA SHEET

Model#: 284TTFNA6876 AD
 CONN. DIAGRAM: A-EE7308
 OUTLINE: B-SS311057-1275

WINDING#: 284658 NONE 6
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
15	11.2	1200	1178	284T	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	41/20.4	LINE OR INVERTER	CONTINUOUS	F3	1.15	40	3300

FULL LOAD EFF: 91.7	3/4 LOAD EFF: 91.7	1/2 LOAD EFF: 91	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 75	3/4 LOAD PF: 69	1/2 LOAD PF: 57.5	91	SQ CAGE INV RATED	20 / 10

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
66.9 LB-FT	232 / 116	120 LB-FT 179	205 LB-FT 306	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
56 dBA	66 dBA	4.1 LB-FT^2	280 LB-FT^2	20 SEC.	2	460 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						
6311	6210	POLYREX EM	T	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

* N O T E S *	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					
	NONE FT-LB		NONE V		NONE Hz	

DATE: 06/21/2017 10:35:49 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/19/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



284TTFNA6876

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	10.0	11.0	13.5	16.5	20.4	23.5	24.5	116	
Torque (ft-lb)	0.00	16.5	33.0	50.0	66.9	77.0	84.0	120	
RPM	1200	1194	1190	1184	1178	1,174	1172	0	
Efficiency (%)		87.5	91.0	91.7	91.7	91.0	91.0		
P.F. (%)	5.1	37.0	57.5	69.0	75.0	77.0	78.0	35.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block				
Speed (RPM)	0	700	1085	1178	1200	HP	15.0			
Current (Amps)	116	110	75.0	20.4	10.0	Sync. RPM	1200			
Torque (ft-lb)	120	115	205	66.9	0.00	Frame	284			
— Efficiency (%) — P.F. (%) — Current (Amps) EFFICIENCY (%) P.F. (%) CURRENT (AMPS) LOAD						Enclosure	TEFC			
						Construction	TFN			
						Voltage	230/460 V			
						Frequency	60 Hz			
						Design	B			
						LR Code letter	G			
						Service Factor	1.15			
						Temp Rise @ FL	55 °C			
						Duty	CONT			
						Ambient	40 °C			
						Elevation	1,000 feet			
						Rotor/Shaft wk ²	4.1 Lb-Ft ²			
						Ref Wdg	284658 NONE			
						Sound Pressure @ 1M	56 dBA			
						VFD Rating	CONSTANT 20:1			
						Outline Dwg	B-SS311057-1275			
						Conn. Diag	A-EE7308			
Additional Specifications:										
0										
0										
EQUIV CKT (OHMS / PHASE)										
R1		R2		X1		X2		Xm		
0.3580		0.3580		1.8640		2.0430		28.8150		

Speed -Torque Curve

