

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 286TTFC6031

Catalog No: E817A

30 HP General Purpose Motor, 3 phase, 1800 RPM, 575 V, 286T Frame, TEFC
General Purpose Motors



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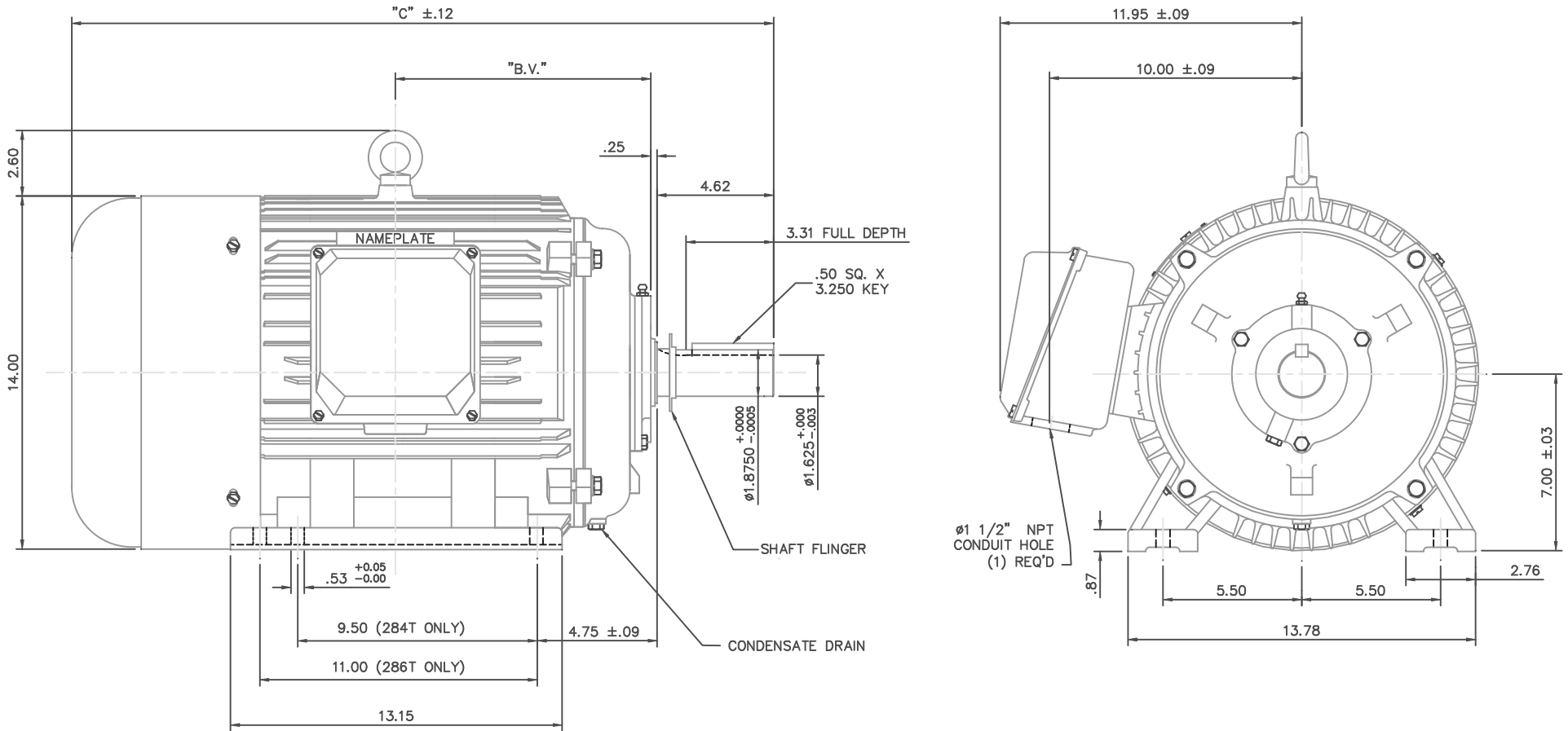
Nameplate Specifications

Output HP	30 Hp	Output KW	22.4 kW
Frequency	60 Hz	Voltage	575 V
Current	28.0 A	Speed	1780 rpm
Service Factor	1.15	Phase	3
Efficiency	94.1 %	Power Factor	85
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Frame	286T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6309
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.052 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	27.83 in
Shaft Diameter	1.875 in	Shaft Extension	4.62 in
Assembly/Box Mounting	F1/F2 Capable		
Outline Drawing	16953960LN-286T	Connection Drawing	00519001ME

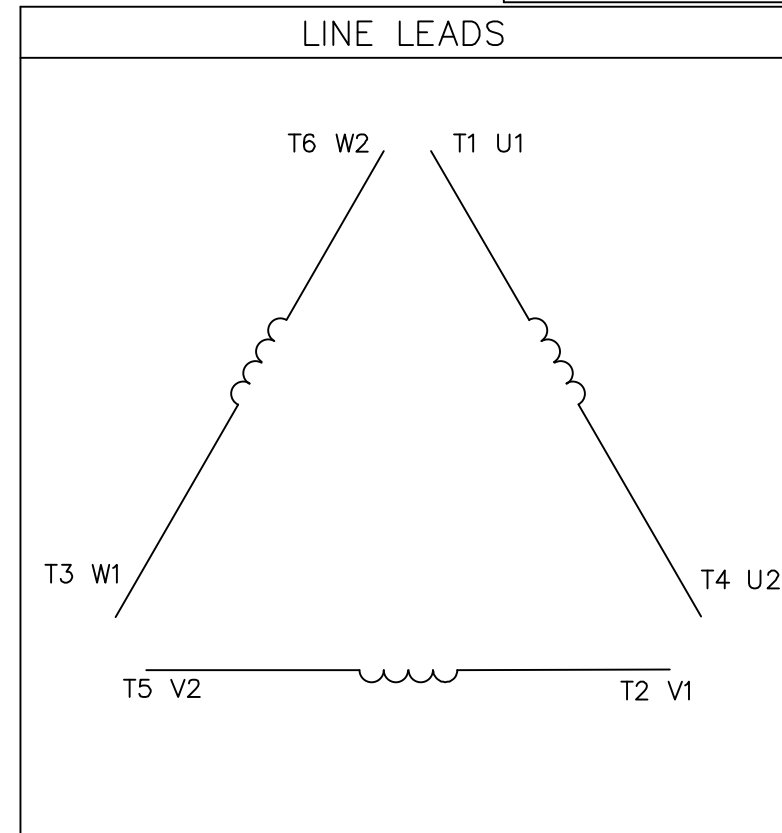
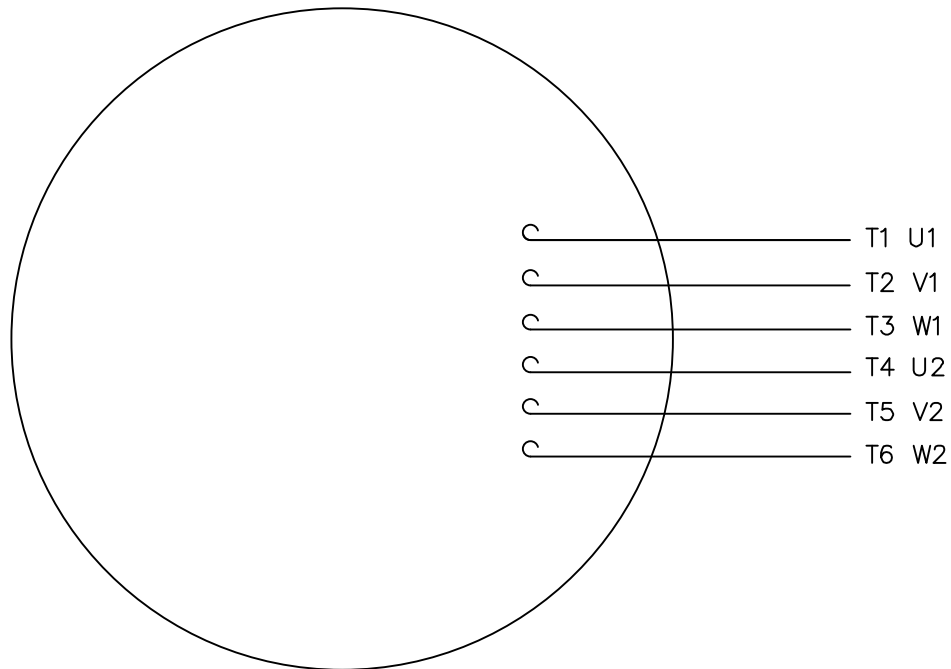
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NOTE: 286T HAS 6 MTG. HOLES, USING 284T AND 286T LOCATIONS

FRAME DESIGN	"C"	"BV"
284T	26.26	9.65
286T	27.83	10.43

			TOLERANCES UNLESS SPECIFIED		Lincoln MOTORS		DRAWN CJK 07/016/01			
			DEC.	INCHES			CHK			
			.X	±.1			APPD			
			.XX	±.03	TITLE		SCALE	1=4		
02	REDRAWN TO CURRENT CAD STANDARDS	CJK 11/1/01	.XXX	±.005	OUTLINE-280T FRAME, TEFC-RIGID NEW CONDUIT BOX		REF			
01	ADDED HOLE FOR 286T BASE	JJK 07/13/99	.XXXX	±.0005	MAT'L		FMF			
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	16953960LN	SIZE	DRAWING NO.	REV.
					DIST		B	169539-60LN	02	



	L1	L2	L3	JOIN
START (WYE)	T1 U1	T2 V1	T3 U2	(T4,T5,T6) (U2,V2,W2)
RUN (DELTA)	(T1,T6) (U1,W2)	(T2,T4) (V1,U2)	(T3,T5) (W1,V2)	

				TOLERANCES UNLESS SPECIFIED				DRAWN PG 05/07/82		
				DEC.	INCHES			CHK		
				.X	±.1	TITLE EXTERNAL WIRING DIAGRAM STAR START - DELTA RUN MAT'L. Y-CONNECTED START - DELTA CONNECTED RUN FINISH SINGLE VOLTAGE		APPD TEM 05/07/82		
03	ADDED IEC DESIGNATIONS	MOL 04/27/12	.XX	±.01	SCALE 1=1					
02	REMOVED OBSOLETE STATUS	KJH 06/28/99	.XXX	±.005	REF					
01	REDRAWN ON CAD	DBT 05/30/97	.XXXX	±.0005	PREV					
NO.	REVISION	BY & DATE	CHK	ANG	±1/2'	CAD FILE 00519001ME		SIZE A	DRAWING NO. 005190-01ME	REV. 03

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RFP
DIST

Data Sheet

Date: 29-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



286TTC6031

Submittal

Data @ 575 V

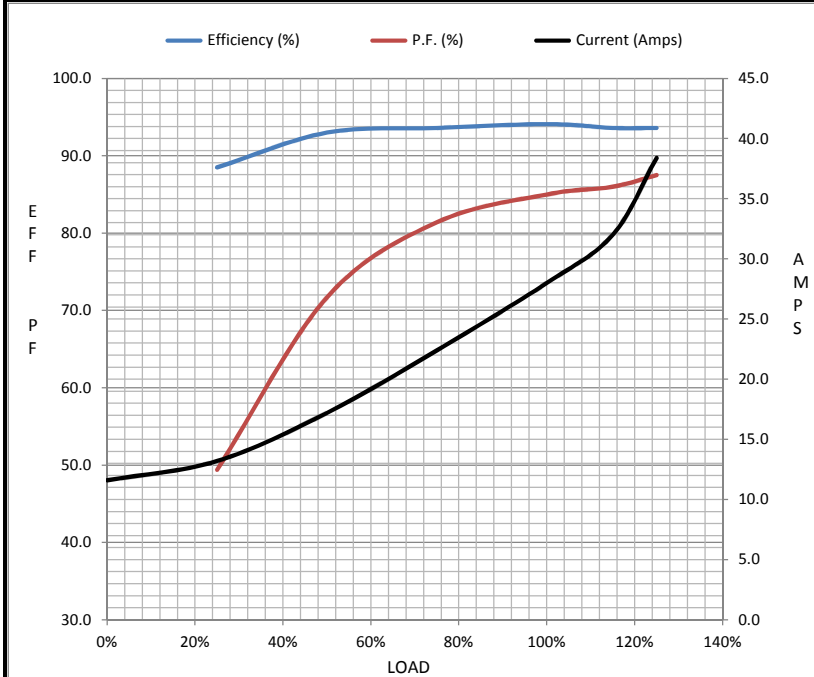
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	11.6	13.2	17.2	22.4	28.0	32.0	38.4	192
Torque (ft-lb)	0.00	21.9	44.1	66.4	89.0	103	112	172
RPM	1800	1792	1783	1775	1770	1,767	1762	0
Efficiency (%)		88.5	93.0	93.6	94.1	93.6	93.6	
P.F. (%)	5.7	49.4	71.7	81.4	85.0	86.0	87.5	0.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1770	1800
Current (Amps)	192	172	120	28.0	11.6
Torque (ft-lb)	172	155	247	89.0	0.00

Information Block				
HP	30.0			
Sync. RPM	1800			
Frame	286			
Enclosure	TEFC			
Construction	TFC			
Voltage	575 V			
Frequency	60 Hz			
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	46 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	4.7 Lb-Ft ²			
Ref Wdg	T14504006 NONE			
Sound Pressure @ 1M	75 dBA			
VFD Rating	NONE			
Outline Dwg	169539.60LN			
Conn. Diag	5190.01ME			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed - Torque Curve

