

PRODUCT INFORMATION PACKET

Model No: 286TTFC6081

Catalog No: E008

20 HP General Purpose Motor, 3 phase, 1200 RPM, 575 V, 286T Frame, TEFC
General Purpose Motors



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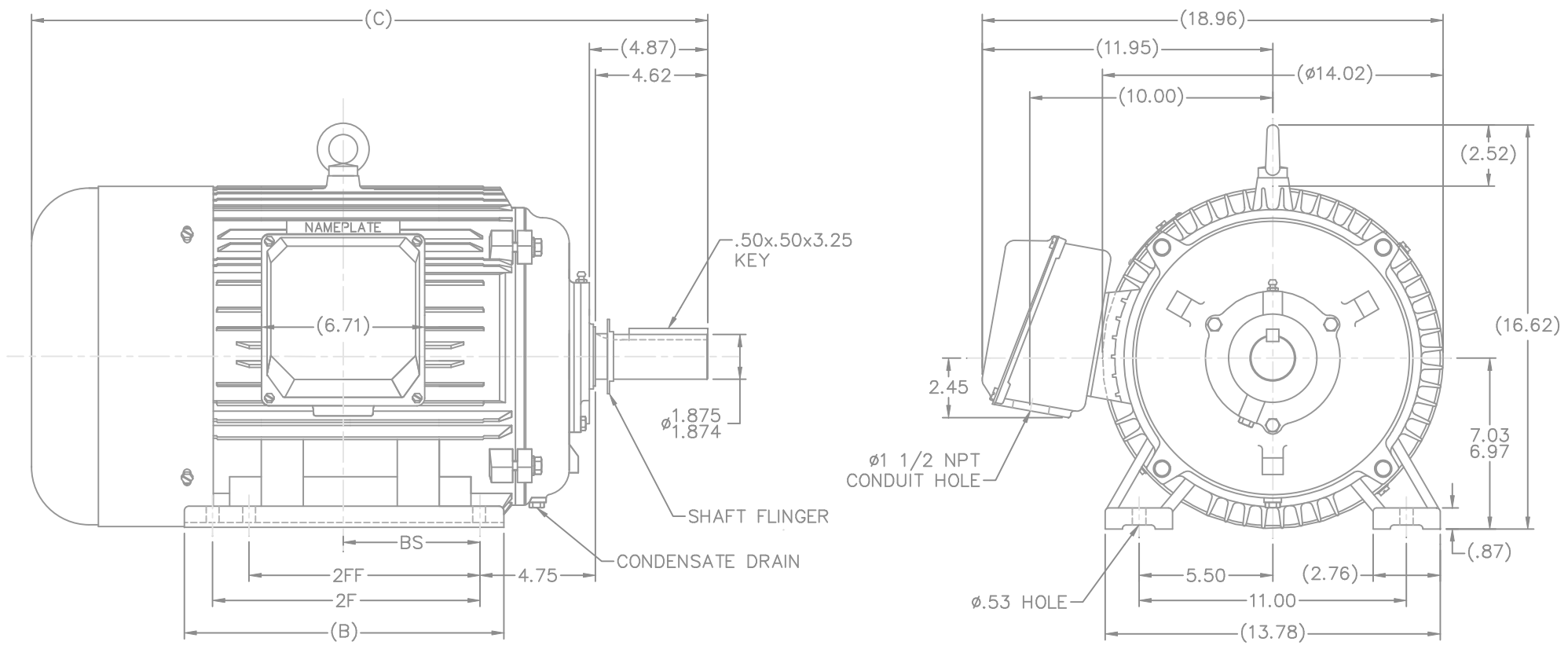
Nameplate Specifications

Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	575 V
Current	21.0 A	Speed	1185 rpm
Service Factor	1.15	Phase	3
Efficiency	92.4 %	Power Factor	75
Duty	Continuous	Insulation Class	F
Design Code	N (IEC)	KVA Code	G
Frame	286T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6308
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
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	4.87 in	Assembly/Box Mounting	F1/F2 Capable
Connection Drawing	005190.01ME	Outline Drawing	16953960ME-286T

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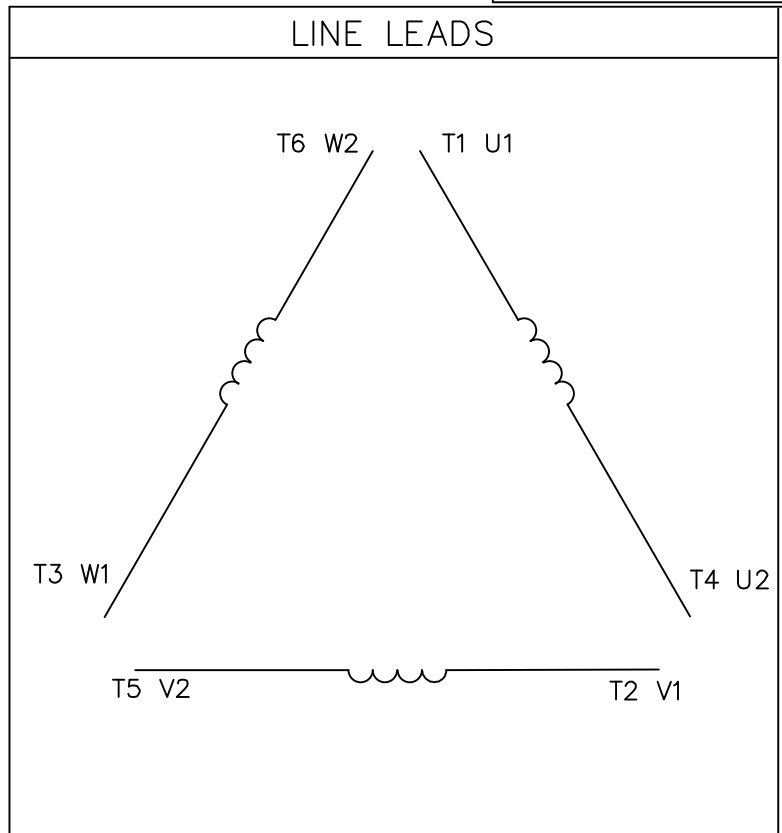
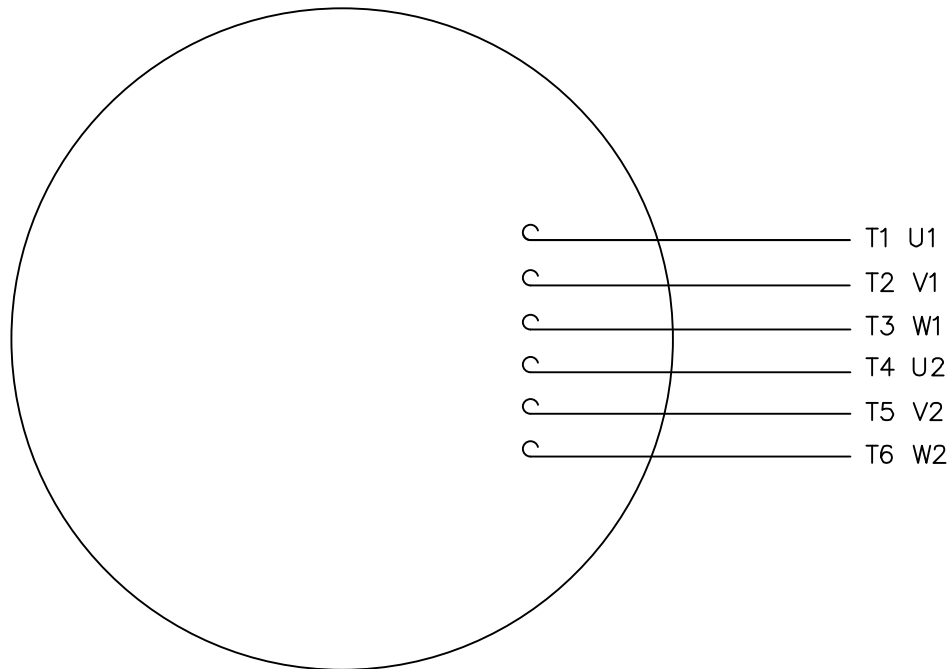
NOTE: 286T HAS 6 MTG. HOLES, USING 284T AND 286T LOCATIONS

DASH	FRAME	C	B	BS	2F	2FF
1248	284T	26.26	11.61	4.90	--	9.50
1398	286T	27.83	13.11	5.68	11.00	9.50

		TOLERANCES UNLESS SPECIFIED		DRAWN TJB 05-29-2003	
		DEC.	INCHES	CHK	ML 05-29-2003
		.X	±.1	APPD	GK 05-29-2003
		.XX	±.03	SCALE	1=4
		.XXX	±.005	REF	
		.XXXX	±.0005	FMF	
		CHK	ANG ±7'30"	PREV	
1 NEW DRAWING		TJB 05-29-2003		RFP CAD FILE 16953960me	
NO. REVISION		BY & DATE		SIZE	DRAWING NO. PAGE OF REV.
		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		B	169539-60ME 1
		DIST WA			



TITLE OUTLINE - RIGID
280T FR. - TEFC



	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	APPD TEM 05/07/82	
03	ADDED IEC DESIGNATIONS	MOL	04/27/12	.XX	±.01
02	REMOVED OBSOLETE STATUS	KJH	06/28/99	.XXX	±.005
01	REDRAWN ON CAD	DBT	05/30/97	.XXXX	±.0005
NO.	REVISION	BY & DATE	CHK	ANG	±1/2'
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		00519001ME
		DIST	SIZE		DRAWING NO.
			A		005190-01ME
			REV.		03



TITLE EXTERNAL WIRING DIAGRAM
STAR START - DELTA RUN
MAT'L. Y-CONNECTED START - DELTA CONNECTED RUN
FINISH SINGLE VOLTAGE

Data Sheet

Date: 6/19/2017

286TFC6081

Customer: _____



Attention: _____

Submittal

Submitted by: FAREEDA DUDEKULA

Data @ 575 V

Motor Load Data

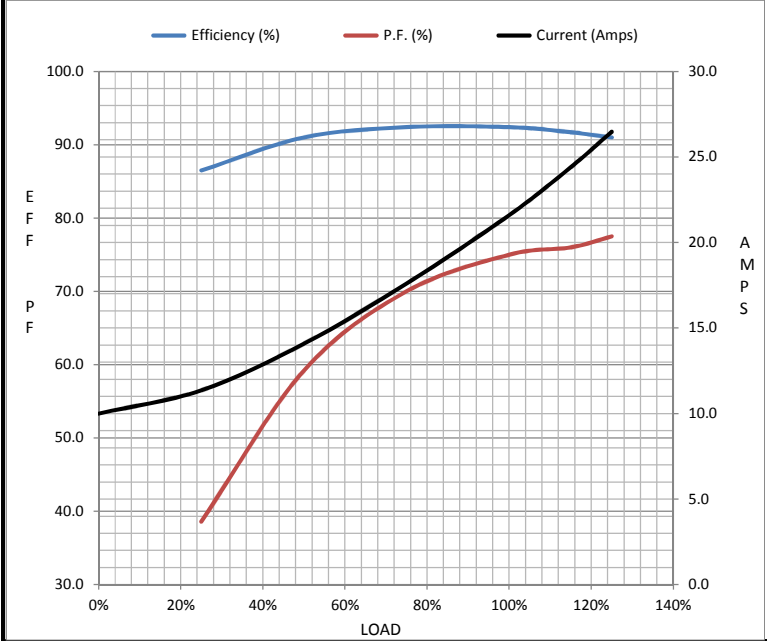
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	10.0	11.4	14.1	17.6	21.6	24.4	26.5	116
Torque (ft-lb)	0.00	22.0	45.0	67.0	88.0	103	112	142
RPM	1200	1197	1192	1190	1185	1,180	1180	0
Efficiency (%)		86.5	91.0	92.4	92.4	91.7	91.0	
P.F. (%)	5.1	38.6	59.2	70.0	75.0	76.0	77.5	0.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	850	1110	1185	1200
Current (Amps)	116	108	79.2	21.6	10.0
Torque (ft-lb)	142	123	230	88.0	0.00

Information Block

HP	20.0			
Sync. RPM	1200			
Frame	286			
Enclosure	TEFC			
Construction	TFC			
Voltage	575 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	6.6 Lb-Ft ²			
Ref Wdg	T14506013 FR			
Sound Pressure @ 1M	56 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	16953960ME			
Conn. Diag	005190.01ME			
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

