

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 286TTGN16577
Catalog No: E507
20,1200,EPFC,286T,3/60/230/460
Explosion Proof



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REGAL[®]



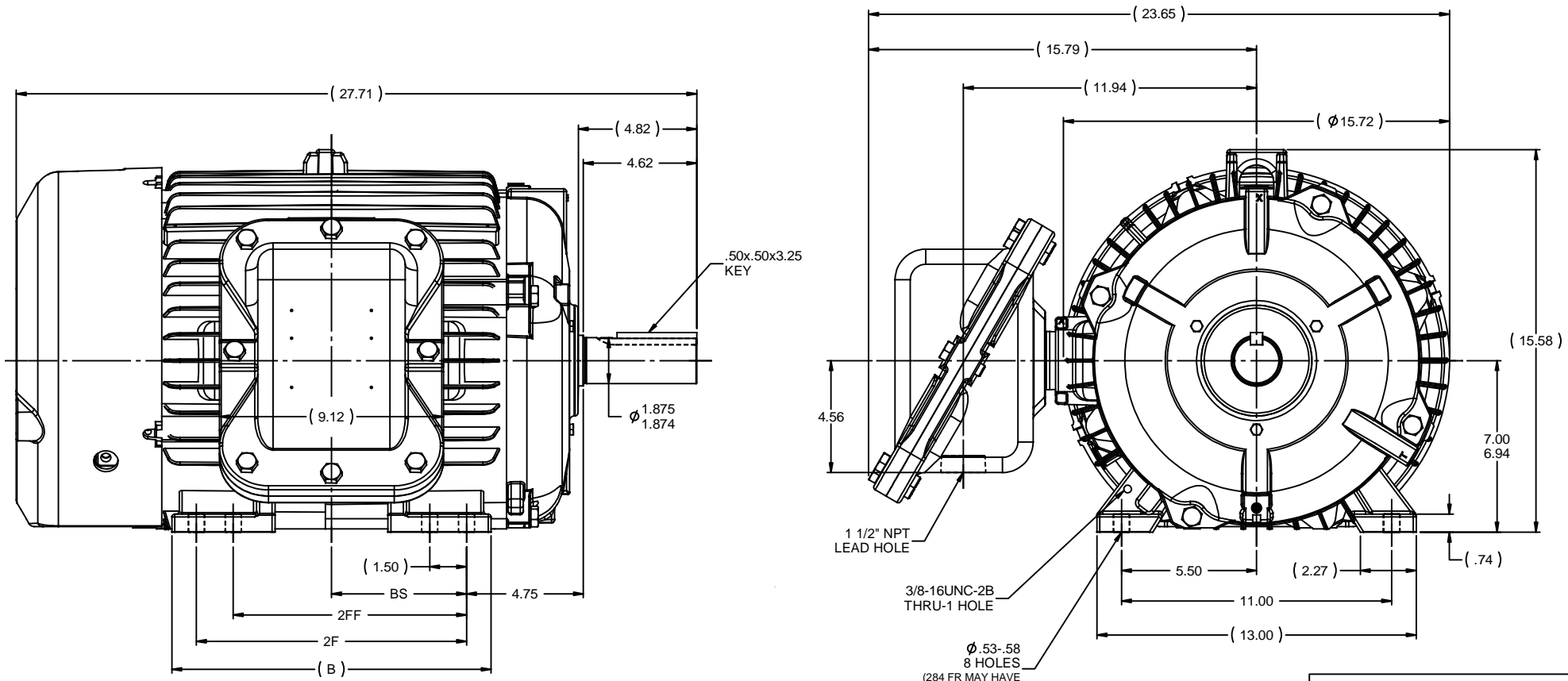
Nameplate Specifications

Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	230/460 V
Current	53.5/26.8 A	Speed	1175 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	286T
Enclosure	Explosion Proof Fan cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6311
Opp Drive End Bearing Size	6210	UL	No
CSA	N	CE	N
IP Code	54		

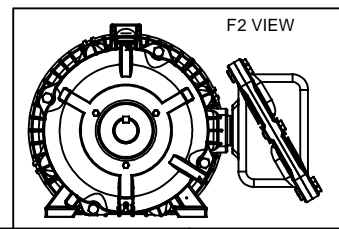
Technical Specifications

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	27.71 in	Frame Length	14.25 in
Shaft Diameter	1.875 in	Shaft Extension	4.82 in
Assembly/Box Mounting	F1 Only		
Outline Drawing	B-SS311106-1425	Connection Diagram	A-EE7308AD

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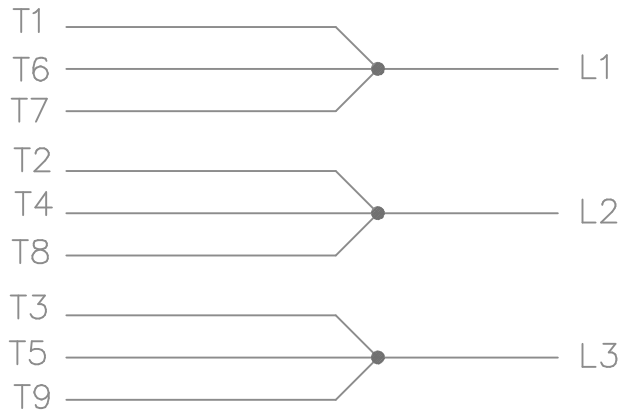
- NOTES:
1. CONDUIT BOX CAN ONLY BE ROTATED CLOCKWISE UP TO 270° FROM ITS ORIGINAL POSITION.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°. THIS MODIFICATION CAN BE PERFORMED ONLY BY THE ORIGINAL EQUIPMENT MANUFACTURER OR BY A FACILITY THAT IS COVERED UNDER UNDERWRITERS LABORATORIES INC. CATEGORY PTKQ, TITLED "MOTORS AND GENERATORS, REBUILT FOR USE IN HAZARDOUS LOCATIONS".
 3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.



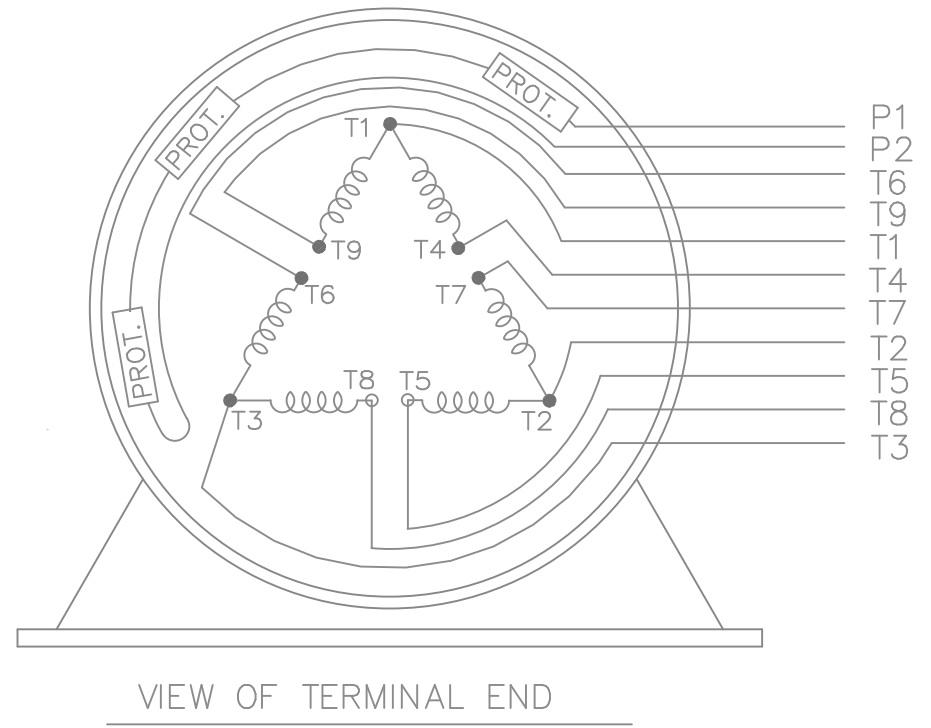
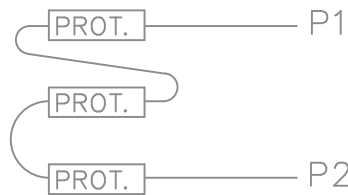
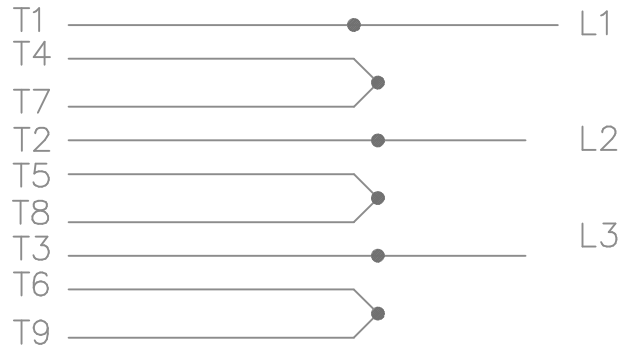
DASH	FRAME	B	C	BS	2F	2FF
1275	284T	12.50	26.21	4.75	9.50	---
1425	284/6T	13.00	27.71	5.50	11.00	9.50

		TOLERANCES UNLESS SPECIFIED:				DRAWN	HLB 10/10/2002
		DEC	INCHES			CHK	ML 10/10/2002
		X	±.1	TITLE		APPR	DD 10/10/2002
		XX	±.03	OUTLINE - EXP.PR. - TGN		SCALE 1:4	
2		ADDED F2 VIEW	TJW 4/8/2011	CTO	XXX ±.005	REF	
1		NEW DRAWING MU43527	HLB 10/10/2002	DD	XXX ±.0005	MATL	
NO		REVISION	BY & DATE	CHK	ANG ±7'30"	PAGE OF	
		THIRD ANGLE PROJECTION		RFP	FINISH	SIZE	DRAWING NO
				NETWORK FILE NAME		B	SS311106
							REV
							2

LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

WHEN MORE THAN ONE PROT. IS USED; PROT. ARE CONNECTED IN SERIES

				TOLERANCES UNLESS SPECIFIED			DRAWN MJD 12-19-1997					
				DEC.	INCHES		CHK ML 01-07-1998					
				.X	±.1	APPD GK 01-07-1998						
				.XX	±.02	SCALE						
8	HIGH VOLT. SCHEMATIC WAS L1, L3 & L3	CN 32724	DRS 06-12-2004	ML	.XXX	±.005	REF					
7	REDRAWN ON CADD		MJD 01-07-1998		.XXXX	±.0005	FMF					
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	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 ee7308ad			SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST	WA-LB			A	EE7308AD			8

Data Sheet

Date: 19-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



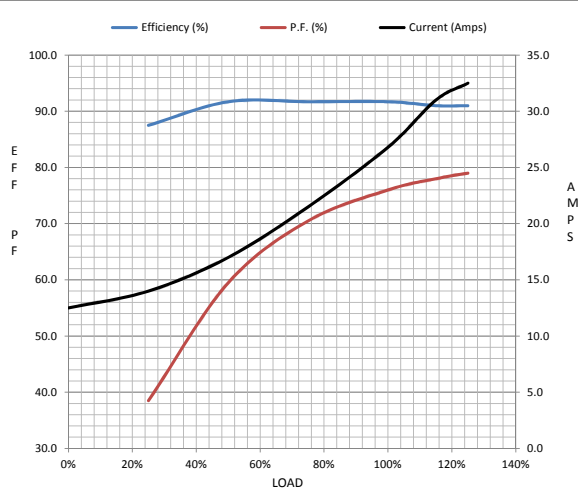
286TTGN16577

Submittal

Data @ 460 V

Motor Load Data									
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	12.5	14.0	17.0	21.5	26.8	31.0	32.5	145	
Torque (ft-lb)	0.00	22.0	44.0	66.5	89.0	103	112	157	
RPM	1200	1195	1190	1180	1175	1,170	1167	0	
Efficiency (%)		87.5	91.7	91.7	91.7	91.0	91.0		
P.F. (%)	20.5	38.5	59.5	70.5	76.0	78.0	79.0	36.0	

Motor Speed Data						Information Block	
	LR	Pull-Up	BD	Rated	Idle		
Speed (RPM)	0	600	1070	1175	1200	HP	20.0
Current (Amps)	145	135	93.5	26.8	12.5	Sync. RPM	1200
Torque (ft-lb)	157	152	238	89.0	0.00	Frame	286



Enclosure	TEFC			
Construction	TFN			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	60 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	4.8 Lb-FT²			
Ref Wdg	286654 NONE			
Sound Pressure @ 1M	56 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	B-SS311106-1425			
Conn. Diag	A-EE7308AD			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.2340	0.2470	1.2520	1.2730	19.2130

