

PRODUCT INFORMATION PACKET

Model No: 286TSTGN6501

Catalog No: E563

Hazardous Duty® Explosion Proof Motor, 30 HP, 3 Ph, 60 Hz, 230/460 V, 3600 RPM, 286TS Frame, EPFC



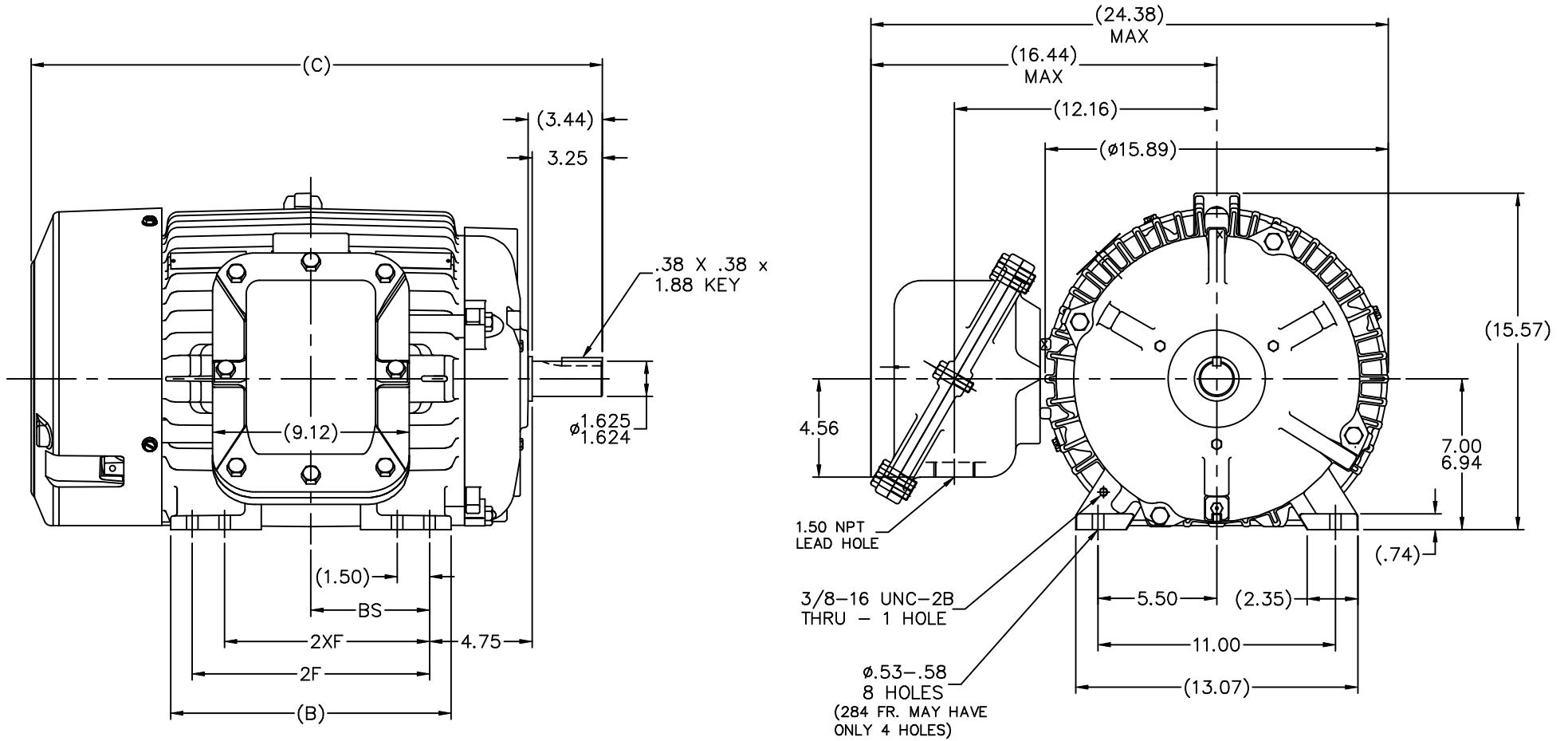
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Nameplate Specifications

Output HP	30 Hp	Output KW	22.4 kW
Frequency	60 Hz	Voltage	230/460 V
Current	67.0/33.5 A	Speed	3555 rpm
Service Factor	1.15	Phase	3
Efficiency	93 %	Power Factor	89.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	286TS	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6210
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Hazardous Location	EXP PROOF CL I GR C&D CL II GR F&G T3B	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.3 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	26.47 in
Frame Length	14.25 in	Shaft Diameter	1.625 in
Shaft Extension	3.44 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 10:1		
Outline Drawing	B-SS311004-1425	Connection Drawing	A-EE7308AD

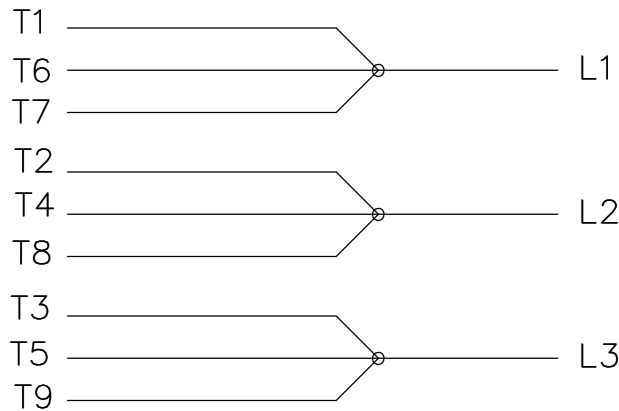


- NOTES:
 1. BOX CAN ONLY BE ROTATED CLOCKWISE UP TO 270° FROM ITS ORIGINAL POSITION.
 2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

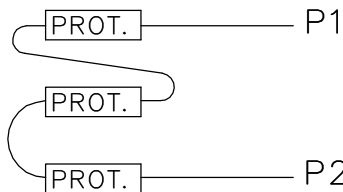
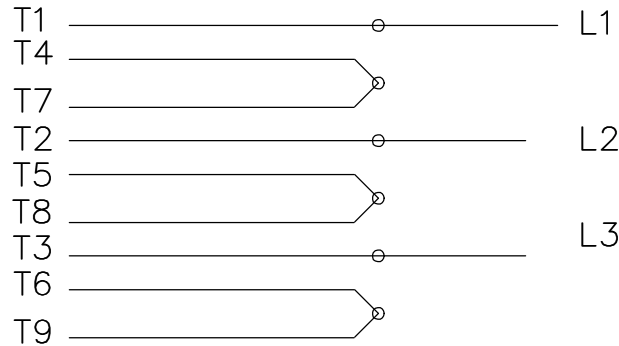
DASH	FRAME	B	C	2F	2XF	BS
1275	284TS	12.50	24.97	9.50		4.75
1425	286TS	13.00	26.47	11.00	9.50	5.50

				TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN DA 03-12-1999	
NO.	REVISION	BY & DATE	CHK	ANG	FINISH	TITLE OUTLINE - EXP.PR. - TGN 280TS FR. - BB - STD - 12.50 LAM.		CHK	ML 04-14-1999
4	REDRAWN IN AUTOCAD	TAT 07-06-2004	ML	DEC.	INCHES	.X	±.1	APPD	SW 04-14-1999
3	REV'D 'C' BOX GEOMETRY PER CAST. CHANGE CN 29010	DRS 01-31-2000				.XX	±.03	SCALE	7-32
2	REVISED 'C' DIMENSION FOR C.I. FAN GUARD REVISED CONDUIT BOX CN 2400-235	DA 07-12-1999				.XXX	±.005	REF	
1	NEW DRAWING - DES/DEV	DA 04-14-1999				.XXXX	±.0005	FMF	
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 ss311004		SIZE	DRAWING NO. PAGE OF		PREV	REV.
		DIST	LB-BR		B	SS311004		4	

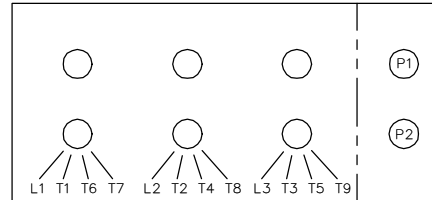
LOW VOLTAGE



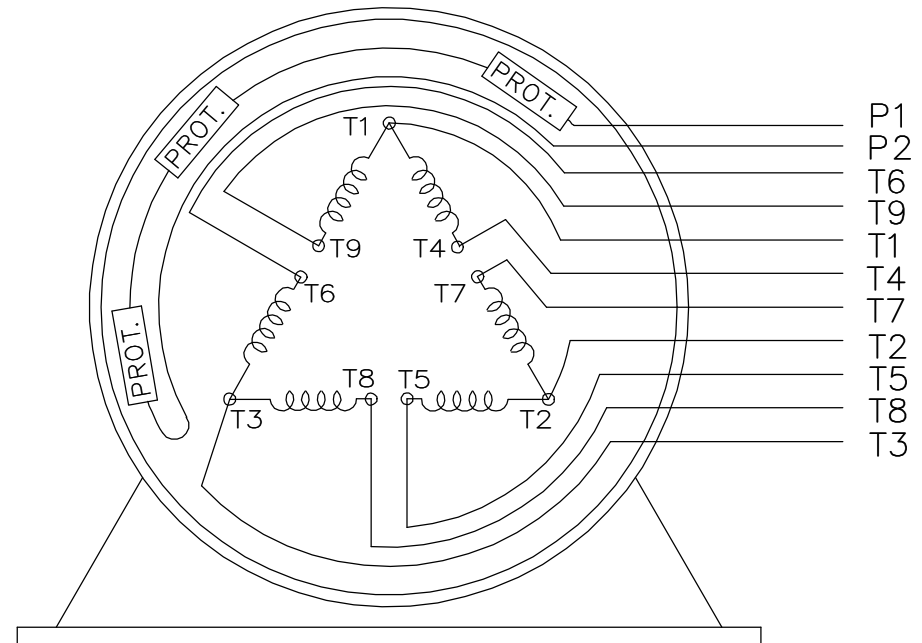
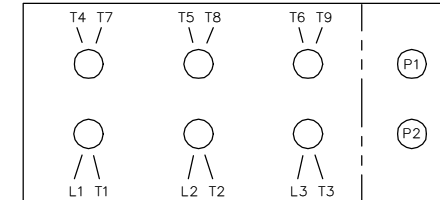
HIGH VOLTAGE



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

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

DRAWING REVISION L	REVISION BY JP	REV DATE/© DATE 06-21-2019	TOLERANCES (EXCEPT AS NOTED): DEC. INCH mm ANGLE .X ±0.1 [±3] ±7' 30" .XX ±0.02 [±0.5] .XXX ±0.005 [±0.13] .XXXX ±0.0005 [±0.013]	DRAWN BY MJD	Regal Beloit America, Inc.	
ECO ECO-0168744	APPROVED BY MH	DATE 06-21-2019		DATE 12-19-1997		
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45° CORNER FILLETS: R.02 [.5] MACHINED SURFACES: 200/ 5.1 INCH/mm	APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL	
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			SIZE A	DRAWING NUMBER EE7308AD	SHEET 1 OF 1	

** Subject to change without notice.

Data Sheet

Date: 6/16/2017

286TSTGN6501

Customer: _____
 Attention: _____
 Submitted by: EARL BABBITTS



Submittal

Data @ 460 V

Motor Load Data

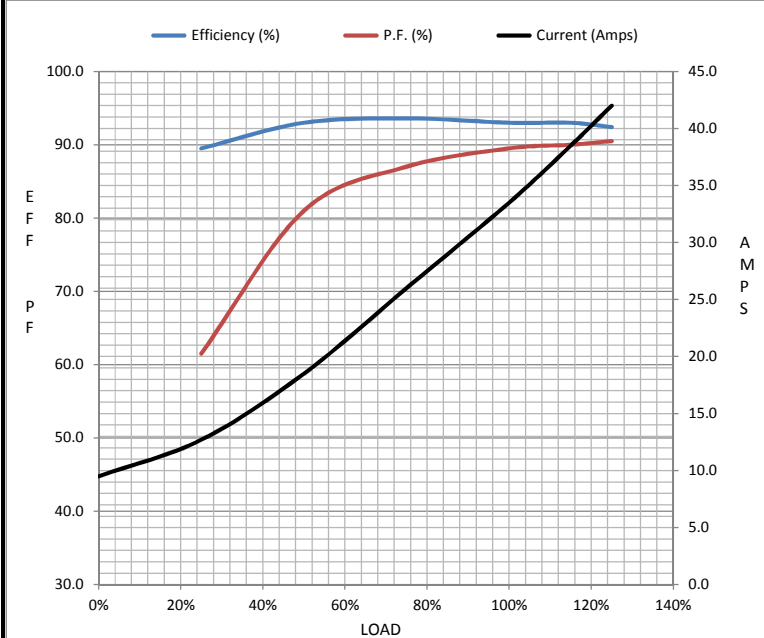
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	9.5	12.7	18.5	26.0	33.5	38.5	42.0	217
Torque (ft-lb)	0.00	11.0	22.0	33.0	44.5	51.0	56.0	63.0
RPM	3600	3590	3578	3565	3555	3,547	3542	0
Efficiency (%)		89.5	93.0	93.6	93.0	93.0	92.4	
P.F. (%)	6.5	61.5	81.0	87.0	89.5	90.0	90.5	32.0

Motor Speed Data

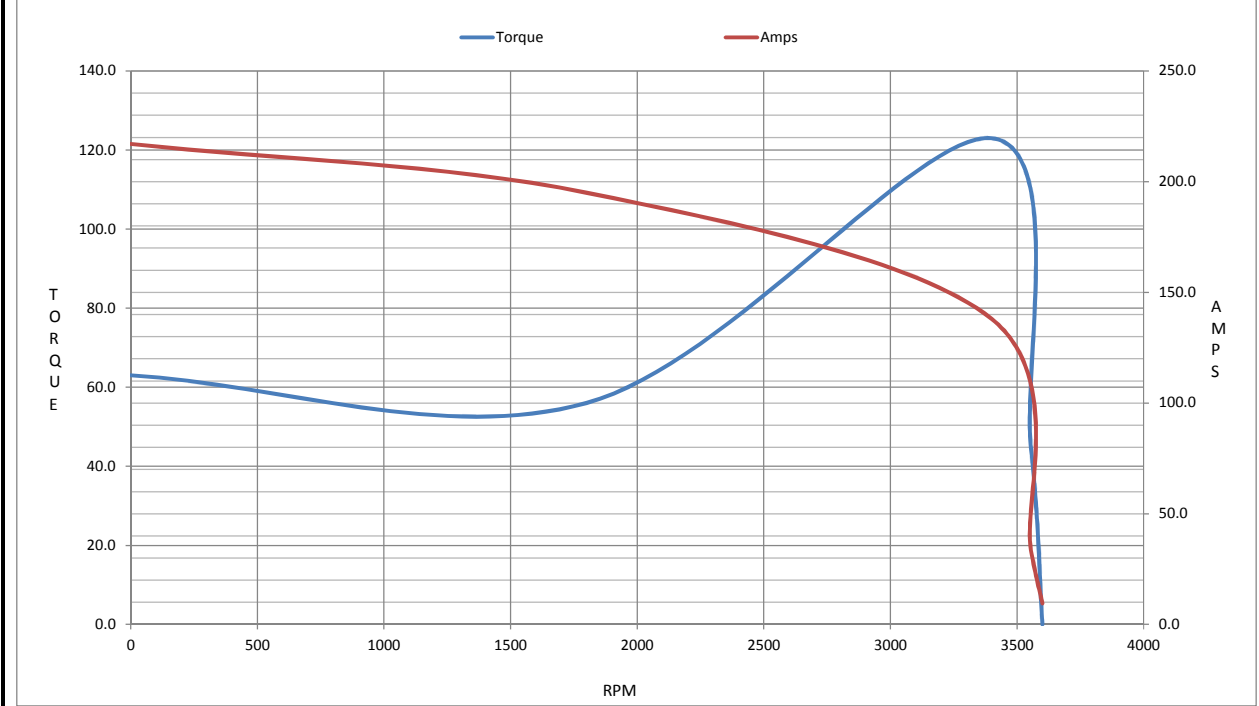
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3400	3555	3600
Current (Amps)	217	195	138	33.5	9.5
Torque (ft-lb)	63.0	56.0	123	44.5	0.00

Information Block

HP	30.0			
Sync. RPM	3600			
Frame	286			
Enclosure	TEFC			
Construction	TFN			
Voltage	30/460#190/381V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	2.70 Lb-Ft ²			
Ref Wdg	K2862155 NONE			
Sound Pressure @ 1M	72 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	B-SS311004-1425			
Conn. Diag	A-EE7308AD			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1970	0.1040	0.7940	0.6050	#####



Speed -Torque Curve



CERTIFICATE OF COMPLIANCE

Certificate Number 20220325- E12044
Report Reference E12044-19991213
Issue Date 2022-MARCH-25

Issued to: REGAL BELOIT AMERICA INC
1946 W COOK RD
FORT WAYNE IN 46818

Tradename: Marathon

**This certificate confirms that
representative samples of**

MOTORS FOR USE IN HAZARDOUS LOCATIONS
Electric motors for use in hazardous locations; Class I,
Groups C and D; Class II, Groups F and G; Inclusive of
Model Number 286TSTGN6501 (may have prefix and/or
suffix characters).

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 674 - Electric Motors and Generators for Use in Division
1 Hazardous (Classified) Locations,
CSA C22.2 No. 145, Electric Motors and Generators for
Use in Hazardous (Classified) Locations

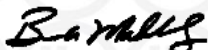
Additional Information: See the UL Online Certifications Directory at
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Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's
Follow-Up Services.

Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested
according to the current UL requirements.



Bruce Mahrenholz, Director North American Certification Program

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