

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 286TSTGCD6501

Catalog No: E563A

Hazardous Duty® Explosion Proof Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
3600 & 3000 RPM, 286TS Frame, EPFC



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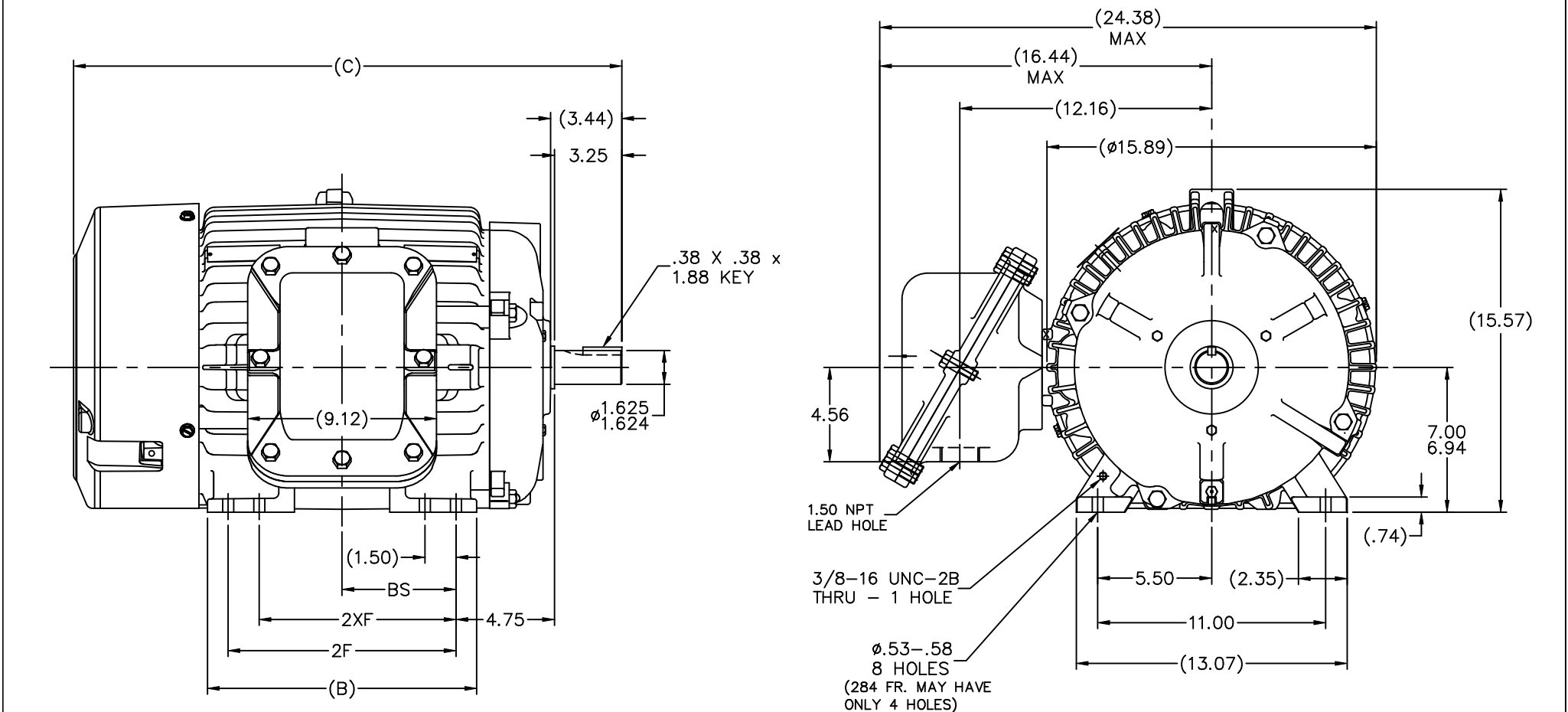
Nameplate Specifications

Phase	3	Output HP	30 & 25 Hp
Output KW	22.4 & 18.7 kW	Voltage	230/460 & 190/380 V
Speed	3550 & 2945 rpm	Service Factor	1.00 & 1.00
Frame	286TS	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	91.7 & 91 %
Ambient Temperature	50 °C	Frequency	60 & 50 Hz
Current	68.5/34 & 69.5/34.5 A	Power Factor	89.2
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6210
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Number of Speeds	1	Hazardous Location	DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C

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	Shaft Diameter	1.625 in
Assembly/Box Mounting	F1 ONLY	Inverter Load	CONSTANT 10:1
Connection Drawing	EE7308AD	Outline Drawing	SS311004-1425

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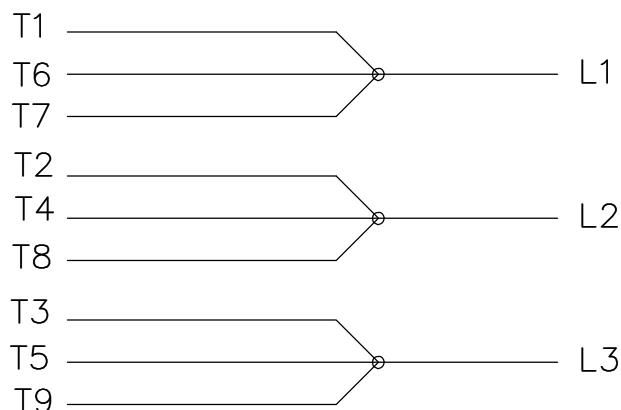
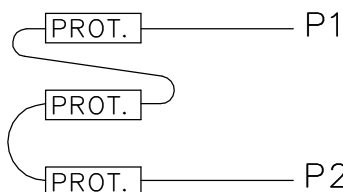
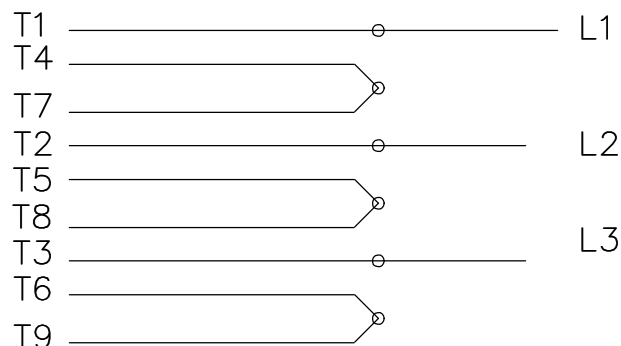
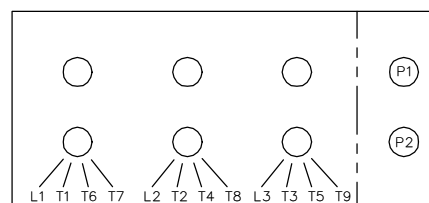
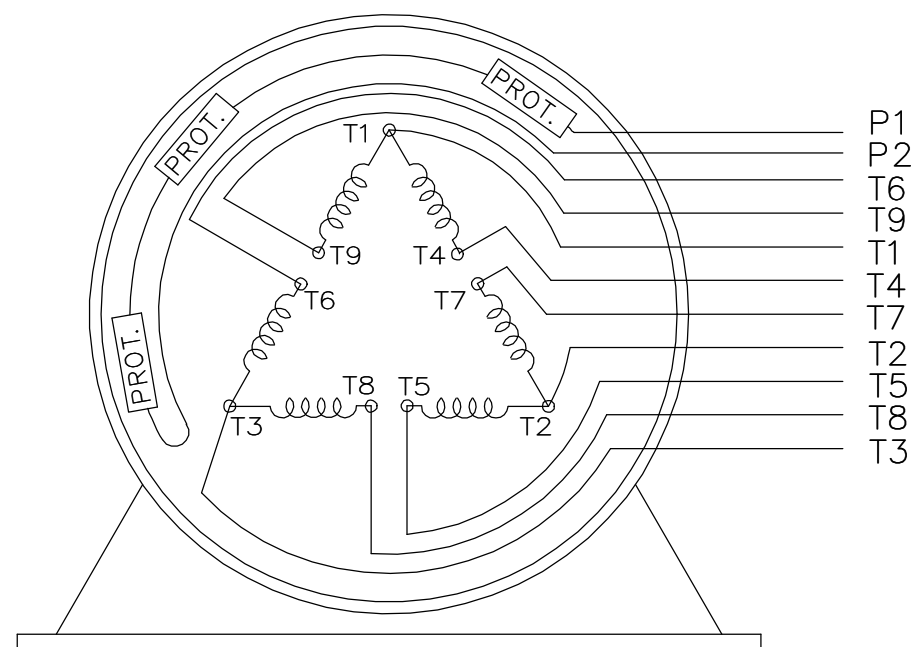
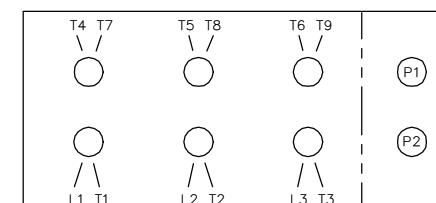


NOTES:

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

LOW VOLTAGEHIGH VOLTAGELOW VOLTAGEHIGH VOLTAGEVIEW 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):				DRAWN BY MJD	 Regal Beloit America, Inc.		
ECO ECO-0168744	APPROVED BY MH	DATE 06-21-2019	DEC. .X	INCH ±0.1	mm [±3]	ANGLE ±7° 30"	DATE 12-19-1997			
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS			.XX	±0.02	[±0.5]		APPROVED BY GK	CONN DIAGRAM-EXTERNAL		
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			.XXXX	±0.0005	[±0.013]		REFERENCE	MATERIAL		PROCESS/FINISH
			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45°				THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7308AD	SHEET 1 OF 1
			CORNER FILLETS: R.02 [.5]							
			MACHINED SURFACES: 200/ 5.1							
			INCH mm							
			mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY							



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7308AD
OUTLINE: SS311004-1425
WINDING: HA31802003 NONE 2
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 286TSTGCD6501
CAT #: E563A
CUSTOMER PART #:
MOUNTING: F1 ONLY
FAN: 504205B

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
30	22.4	3600	3550	286TS	EPFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	71/35.5&72/36	ACROSS THE LINE	CONT	F	1.00	50	3300

F.L. EFF	91.7	3/4 LD EFF	91.7	1/2 LD EFF	91.4	GTD EFF		ELECT. TYPE	
F.L. PF	86.5	3/4 LD PF	83.5	1/2 LD PF	75.5		91.0	SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
44.4 LB-FT	210	77.0 LB-FT 173%	107 LB-FT 241%	85

SOUND PRESSURE	SOUND	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	APPROX. MOTOR
75 dBA	84 dBA	2.65 LB-FT ²	35 LB-FT ²	20 SEC.	2	500 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C	NO	NONE	BLUE - RAL 5003 (EPOXY)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE BALL BALL 6311 6210	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.229	0.106	0.706	0.785	22.136	0.080	ODE

* N O T E S *		INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE ENCODER: NONE BRAKE: NONE NONE FT-LB: NA VOLTAGE: NONE HZ: UL: NO LETTER - ALL BRANDS-UL LISTED AND CSA CERTIFIED DIV. 1 XP MOTORS

PREPARED BY:	DATE: 8/22/2022	
FORM: 3531 REV. 4 2/27/06		