## PRODUCT INFORMATION PACKET

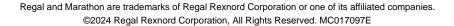


Model No: 254TTGCD6531 Catalog No: E503A

Hazardous Duty® Explosion Proof Motor, 15 & 10 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,

1800 & 1500 RPM, 254T Frame, EPFC







Product Information Packet: Model No: 254TTGCD6531, Catalog No:E503A Hazardous Duty® Explosion Proof Motor, 15 & 10 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 254T Frame, EPFC



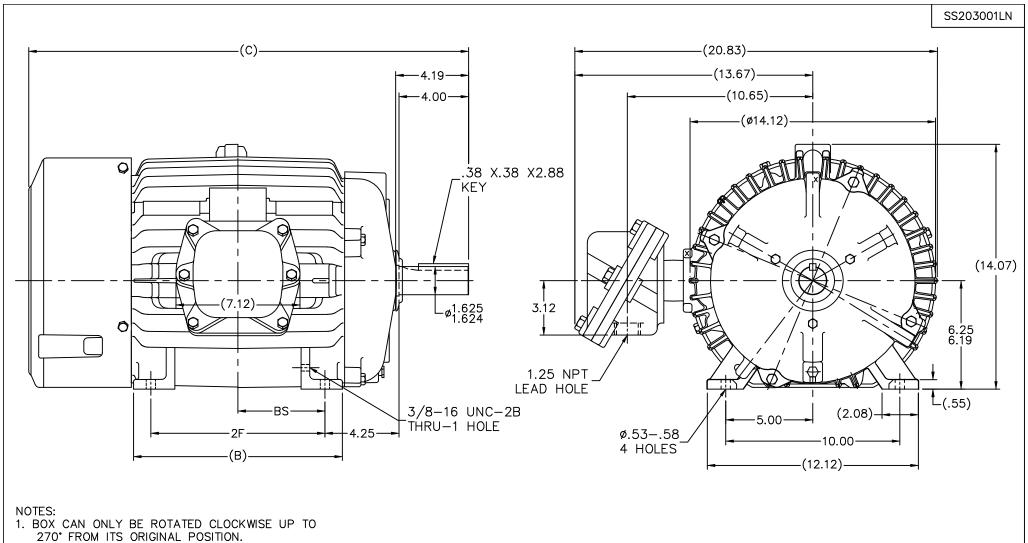
## Nameplate Specifications

Phase	3	Output HP	15 & 10 Hp
Output KW	11.2 & 7.5 kW	Voltage	230/460 & 190/380 V
Speed	1770 & 1475 rpm	Service Factor	1.00 & 1.00
Frame	254T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	92.4 & 91.8 %
Ambient Temperature	50 °C	Frequency	60 & 50 Hz
Current	36.5/18.4 & 31/15.5 A	Power Factor	83
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	G
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6210
UL	UL Listed And CSA Certified	CSA	Υ
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	4	Rotation	Reversible
Resistance Main	.713 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	Т	Shaft Diameter	1.625 in
Assembly/Box Mounting	F1 ONLY	Inverter Load	CONSTANT 10:1
Connection Drawing	EE7308AD	Outline Drawing	SS203001-1050

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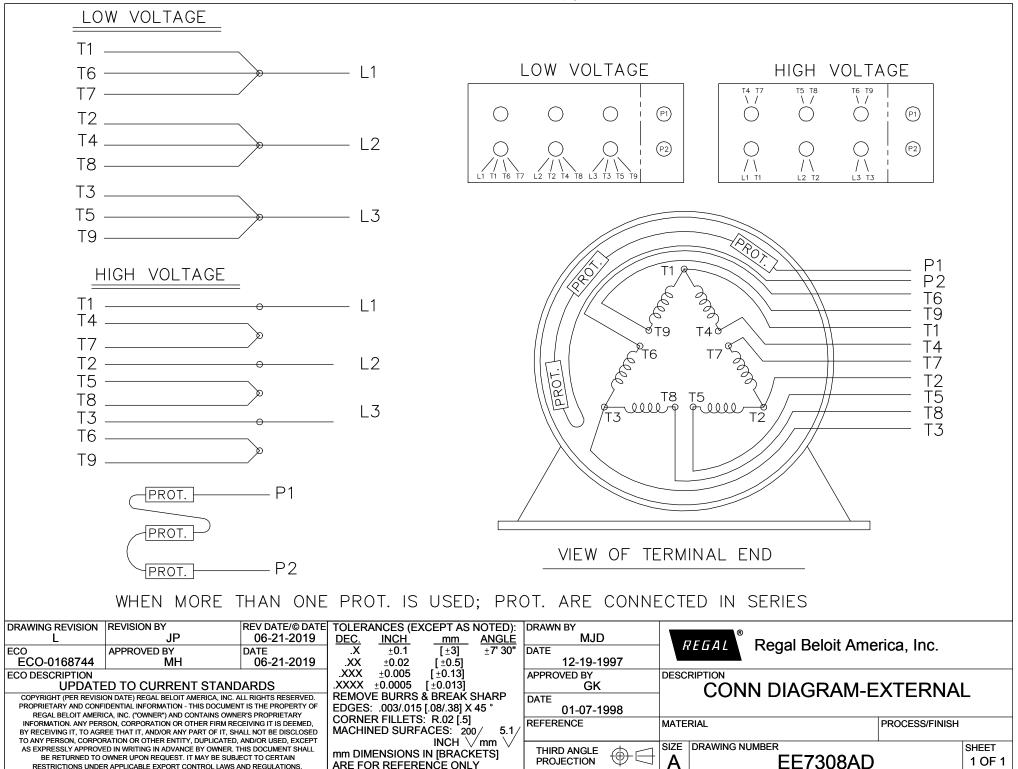


2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

(B-SS203004)

				•	
DASH	FRAME	В	С	2F	BS
1050	254T	10.25	23.52	8.25	4.12
1225	256T	12.00	25.27	10.00	5.00

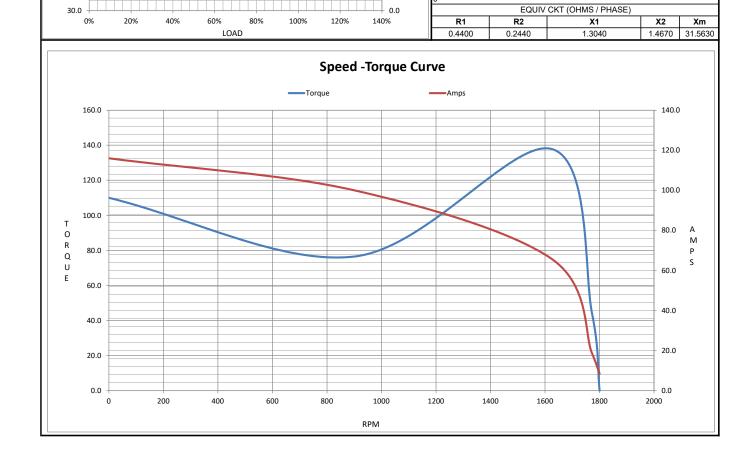
					UNLES	ERANCES S SPECIFIED	//fmea/m			DRAWN 1	JB 04-04	-2000
Γ					DEC.	INCHES	WOTORS			СНК	ML 04-04	-2000
					.x	±.1	2070			APPD	TB 04-04-	-2000
					.xx	±.03	TITLE OUTLINE - EXP.PR			SCALE	9=32	į
					.xxx	±.005	250T FR BB - TS - STD.			REF		
Γ	1	NEW DRAWING MU29933	TJB 04-06-2000	ML	.xxxx	±.0005	MAT'L.			FMF		
Γ	NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH			PREV		
Γ		THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE		RFP	04-	-04-2000	CAD FILE SS203001LN	SIZE	DRAWING NO			REV.
		IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION / THIS IS AN ELECTRONICALLY GENERATED DOCUMENT — DO NOT SCALE		DIST	LB			В	SS20	0300°	1LN	1



RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

				ma	ara	athon® Motors		DAT	P.O. BOX : WAUSAU, PH. 715-6	WI 54401-8003		
					CEI	RTIFICATION DATAS	HEET					
CUSTOM				-				MER P.O. #:	05.4770.05	20504		
ORDER # CONN. DI		EE7308AD		-			REFERENC	E MODEL #: CAT #:	254 I I GCL	E503A		
OUTLINE:		SS203001-1050					CUSTO	MER PART#:		LJUJA		
WINDING		HA31604019	NONE	2				MOUNTING:	F1 ONLY			-
SPEED:				_	TVD10 41	MOTOR REPEORM	NOE D					
			l		PICAL	. MOTOR PERFORMA						
HP	KW	SYNC RPM	PM FL RPM FRAME		FRAME	ENC	LOSURE	TYPE	KVA CODE		DESIGN	
15	11.2	1800		1772		254T	E	PFC	TFC	G		В
PH	HZ	VOLTS		MPS		START TYPE		UTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	37.5/18	3.8&31/15.4		ACROSS THE LINE		ONT	F	1.15	50	3300
	F.L. EFF	92.4	3/4 LD EFF	92.4		1/2 LD EFF	91.7	GTD EFF		ELECT.	TYPE	
	F.L. PF		3/4 LD PF			1/2 LD PF	65.5	91.7		SQ CAGE II		
					•			•	•			
	TORQUE	LR AMPS @	460 V			TORQUE		B.D. TORQUE		F.L. RISE (° C)		
44.5	LB-FT	116		110	LB-FT	247%	138	LB-FT	310%	55		
SOUND	PRESSURE @ 3 FT.	SOUND POWER	ROT	OR WK <sup>2</sup>		MAX. LOAD WK <sup>2</sup>	SAFE S	TALL TIME		STARTS/HOUR	APROX.	MOTOR WGT
65	dBA	74 dBA	2.40	LB-FT <sup>2</sup>	110	LB-FT <sup>2</sup>	20	SEC.		2	400	LB.
			•		*** 01	IDDI EMENTAL INCODMA						
-			MOUNT		Su	IPPLEMENTAL INFORMA		ARDOUS	DRIP			
	RACKET TYPE				R ORIENTATION SEVERE DUTY		LOCATION		COVER SCREENS		PAINT	
S	TANDARD	STANDARD	RIGID	HORIZO	NTAL	PREMIUM SEVERE DUTY	PROOF CL	I GR CD CL II	II NO NONE		BLUE - RAL 5003 (EPOXY)	
<b>├</b>	EARINGS											
DE	ODE	GREASE	SHA	FT TYPE		SPECIAL DE	SPEC	IAL ODE	SHA	AFT MATERIAL	FR	AME MATERIAL
BALL	BALL	POLYREX EM		Т		NONE	NONE		1045 HOT ROLLED (C-204)		CAST IRON	
6309	6210					-						
<b>-</b>												
THE	RMOSTATS	PROTECTORS	WD	G RTD's		BRG RTD's	THER	MISTORS		CONTROL	SPAC	CE HEATERS
TS	TATS (N/C)	NOT	N	IONE		NONE	N	IONE		FALSE		NA
		T == / / / / /				Wa / 1 / 1 \					1	
R1	(ohms/ph) 0.44	R2 (ohms/ph) 0.244		hms/ph) 1.304		X2 (ohms/ph) 1.467		hms/ph) 1.563	v	0.080		FLOAT ODE
	0.11	0.211				1.101		1.000		0.000		052
*												
N								INVERTER				
0 T							'	NV. HP SPEE	D RANGE:	NONE		
Ė								ENCODER:	NONE			
s								NONE				
*								NONE			NONE	PPR
1								BRAKE:				
	PREPARED BY: DATE:	7/26/2022						NON FT-LB:	NE	NONE NA		
1	DATE:	1/20/2022						VOLTAGE:		NA NONE		HZ:
FORM: 3	531 REV_4	2/27/06					UL:		- ALL BRAN	IDS-UL LISTED AND CSA CE	RTIFIED D	

					ata Sheet	t				
Date: 7/27/2022 Customer:								254TTGCD653	11	
				nai	tar	hon	®			
Attention:						Motors Submitt				
Submitted by:			_							
Submitted by.				Motor	oad Data			Data @	V	
Load	0%	25%	50%	75%	100%	115%	125%	LR		
Current (Amps)	8.5	9.5	11.8	15.0	18.8	21.0	22.8	116		
orque (ft-lb)	0.00	11.0	22.0	33.5	44.5	51.5	56.0	110		
RPM	1800	1792	1785	1780	1772	1.768	1762	0		
Efficiency (%)		87.5	91.7	92.4	92.4	92.4	91.7			
P.F. (%)	5.0	42.5	65.5	76.5	83.0	83.5	84.0	41.0		
		Motor Speed D	ata					•		
	LR	Pull-Up	BD	Rated	ldle					
Speed (RPM)	0	900	1622	1772	1800	1	nformation Block			
Current (Amps)	116	100	66.0	18.8	8.5	HP		15.0		
orque (ft-lb)	110	76.5	138	44.5	0.00	Sync. RPM	1800			
						Frame		254		
— Ef	ficiency (%)	— P.F. (%)	—	Current (Amps)		Enclosure		EPFC		
100.0					<b>—</b> 25.0	Construction		TFC		
200.0						Voltage		230/460#190/380	V	
					-	Frequency		60	Hz	
90.0						Design		В		
					20.0	LR Code letter		G		
E					-	Service Factor		1.0		
F 80.0					=	Temp Rise @ F	L	55	°C	
F					A	Duty		CONT		
					15.0 M	Ambient		40	°C	
					13.0 P	Elevation		3,300	feet	
70.0						D 1 (OL 6 12		2.40	Lb-Ft <sup>2</sup>	
P 70.0						Rotor/Shaft wk		2.70		
P F						Rotor/Snart wk		HA31604019 NONE		
P	1				10.0				dBA	
F 60.0	1				10.0	Ref Wdg		HA31604019 NONE	dBA	
P F	1				10.0	Ref Wdg Sound Pressure VFD Rating		HA31604019 NONE 65	dBA	
F 60.0	1				10.0	Ref Wdg Sound Pressure		HA31604019 NONE 65		



## CERTIFICATE OF COMPLIANCE

Certificate Number
Report Reference

20220311- E12044 E12044-19950413

**Issue Date** 

2022-MARCH-11

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 254TTGCD6531 (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

https://iq.ulprospector.com for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up 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.

Bambles

Bruce Mahrenholz, Director North American Certification Program

UL LLC

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