## PRODUCT INFORMATION PACKET



Model No: 254TTGN16524 Catalog No: C307B

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

3600 & 3000 RPM, 254TC Frame, EPFC



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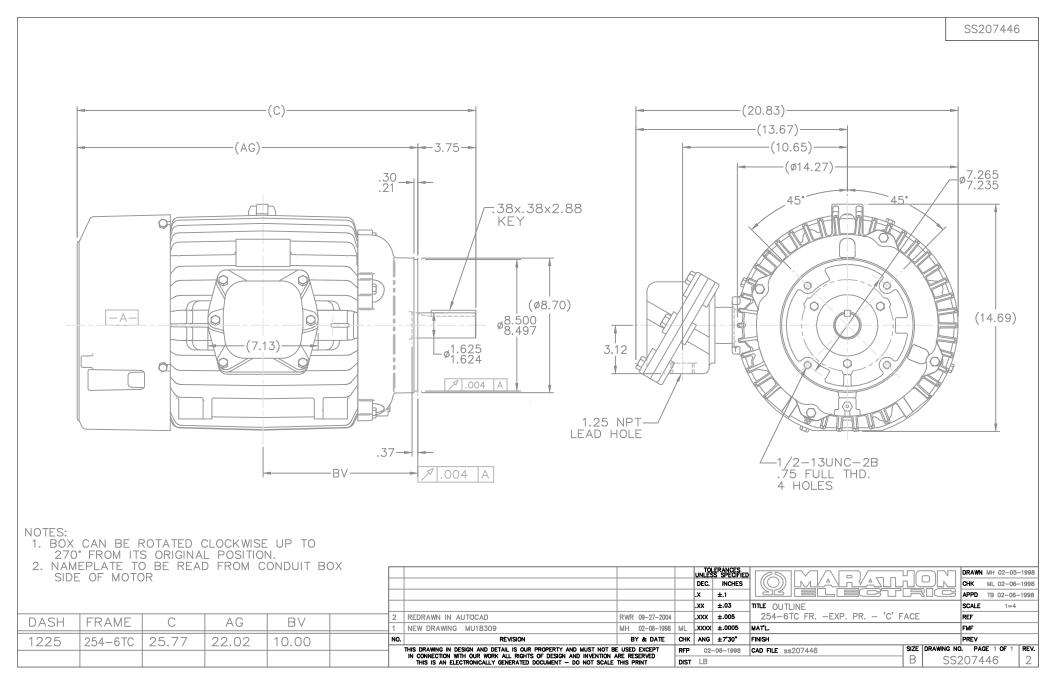
## Nameplate Specifications

Phase	3	Output HP	15 & 10 Hp
Output KW	11.2 & 7.5 kW	Voltage	230/460 & 190/380 V
Speed	3535 & 2950 rpm	Service Factor	1.0 & 1.0
Frame	254TC	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	91 & 90.2 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	36/18 & 30/15 A	Power Factor	86
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	EXP PROOF CL I GR C&D CL II GR F&G T3B

## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.66 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	Т	Overall Length	25.77 in
Frame Length	12.25 in	Shaft Diameter	1.625 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 2:1		
Outline Drawing	B-SS207446-1225	Connection Drawing	A-EE7308T

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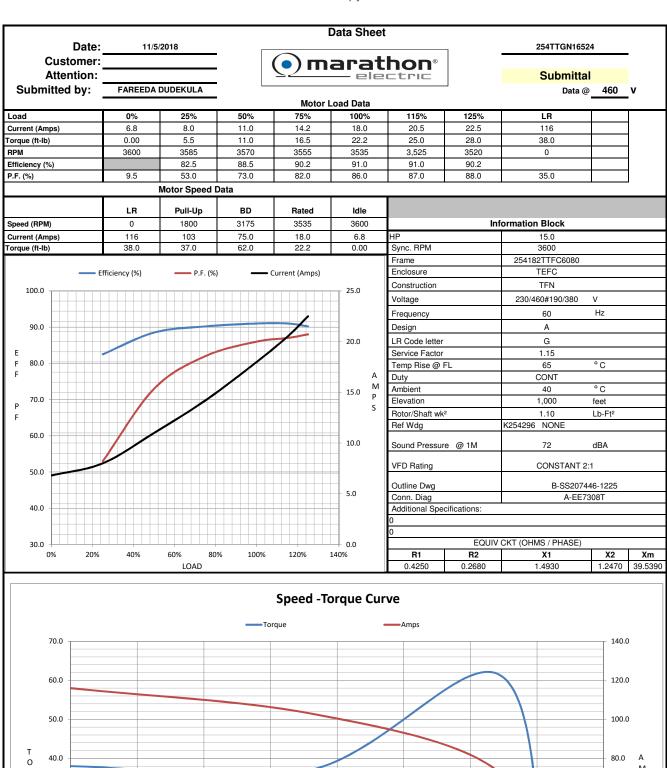


CUSTOM ORDER # CONN. DI OUTLINE WINDING	: AGRAM: :	A-EE7308 B-SS2074	•	NONE	CEI		ratho electi	FIC SHE  CUSTO  EFFERENCE  CUSTON	ET  DMER P.O. #:  EE MODEL #:  CAT #:  MER PART #:  MOUNTING:	PH. 715-675  254TTGN165  C	I 54401-8003 -3311 DATA VOLTS:	460	!	
SPEED:				Т	YPICAL	. мото	R PERFO	RMANC	E DATA					
HP	KW	SYN	C RPM	FL R	RPM FRAME		RAME	ENCLOSURE		TYPE	KVA CODE		DESIGN	
15	11.2	36	600	350	35	2	254TC TEFC		EFC	TFN G			В	
PH	HZ	VO	LTS	AM	-		RT TYPE		UTY	INSL	S.F.	AMB	ELEV.	
3	60/50	230/460	#190/380	36/18&	30/15	LINE OF	RINVERTER	C	ONT	F	1.15	40	3300	
	F.L. EFF	91.0	1	3/4 LD EFF	90.2		1/2   D EEE	88.5	GTD EFF		ELECT. TY	DE		
	F.L. PF	86.0		3/4 LD EFF	82.0	1/2 LD EFF 1/2 LD PF		73.0	90.2		SQ CAGE INV			
		00.0	-1	0,12211	02.0			70.0 30.2		1 OQ OAGE HAV HATED				
F.L. T	ORQUE	LI	R AMPS @	460 V		L.R. TORQUE		B.D. TORQU	QUE F.L. RISE (° (		(°C)			
22.2	LB-FT		116		38.0	LB-FT	171%	62.0	LB-FT	279%	65			
	3 FT.	BO	WER	ROTOR	2 W/V2	MAYI	OAD WIZ2	CAFE	TALL TIME	CTAD	TC/HOUD	мото	D WCT	
72	dBA	81	dBA	1.10	LB-FT <sup>2</sup>	MAX. LOAD WK <sup>2</sup> 22 LB-FT <sup>2</sup>		SAFE STALL TIME 20 SEC.		STARTS/HOUR 2		MOTOR WGT 290 LB.		
12	UDA	01	UDA	` 1.10			LD 1 1	20	OLO.			230	ILD.	
							NTAL INFO							
DE BBA	KET TYPE	-	RACKET YPE	MOUNT TYPE	_	TOR TATION	SEVERE DUTY		ARDOUS CATION	DRIP COVER	SCREENS	D.	INT	
	ACE		NDARD	ROUND		ONTAL			R C&D CL II GI		NONE		ENAMEL)	
	RINGS	GRI	EASE	SHAFT	T TYPE SPECIAL DE		CIAL DE	SPECIAL ODE		SHAFT	MATERIAL	FRAME N	MATERIAL	
DE	ODE	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		V	SPECIAL DE		OI LOIAL ODL		OTAL MATERIAL		THAIL MATERIAL	
6309	6210	POLY	REX EM	Т	T NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON			
0000	OLIO			l		I						l.		
THERMOSTATS PROTECTORS		WDG RTD's		BRG RTD's		THERMISTORS		CONTROL		SPACE HEATERS				
TSTA	TS (N/C)	N	IOT	NOI	NE	N	IONE	N	IONE	F	ALSE	N	IA .	
D4 /-	hmo/nh\	D0 /-1	hmo/nb\	V4 /=!	no/nb\	V0 /-	hmo/nb\	V /	ahma/nb\	VIDDAT	ION (in/cas)	F1 /	OAT	
R1 (ohms/ph) R2 0.425			hms/ph) 268	X1 (ohms/ph) 1.493		X2 (ohms/ph) 1.247		Xm (ohms/ph) 39.539		VIBRATION (in/sec) 0.080		FLOAT ODE		
	0	0.		1.4		'	7/		500			. 0		
N O T										ER TORQUE: EED RANGE:	CONSTANT 2:1 NONE			
S *									ENCODER: NONE NONE			NONE	PPR	
PREPARED BY: FAREEDA DUDEKULA  DATE: 11/5/2018					BRAKE: NONE   NONE   NONE   FT-LB: NA   VOLTAGE: NONE   HZ:									

FORM: 3531 REV\_4 2/27/06

UL: NONE

HZ:



Q

U

30.0

20.0

10.0

0.0

0

500

1000

1500

2000

2500

3000

3500

М

S

60.0

40.0

20.0

0.0

4000

## 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 254TTGN16524 (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:

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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

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