PRODUCT INFORMATION PACKET



Model No: 254TTGCD6531 Catalog No: E503A

Hazardous Duty® Explosion Proof Motor, 15 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 254T Frame, EPFC



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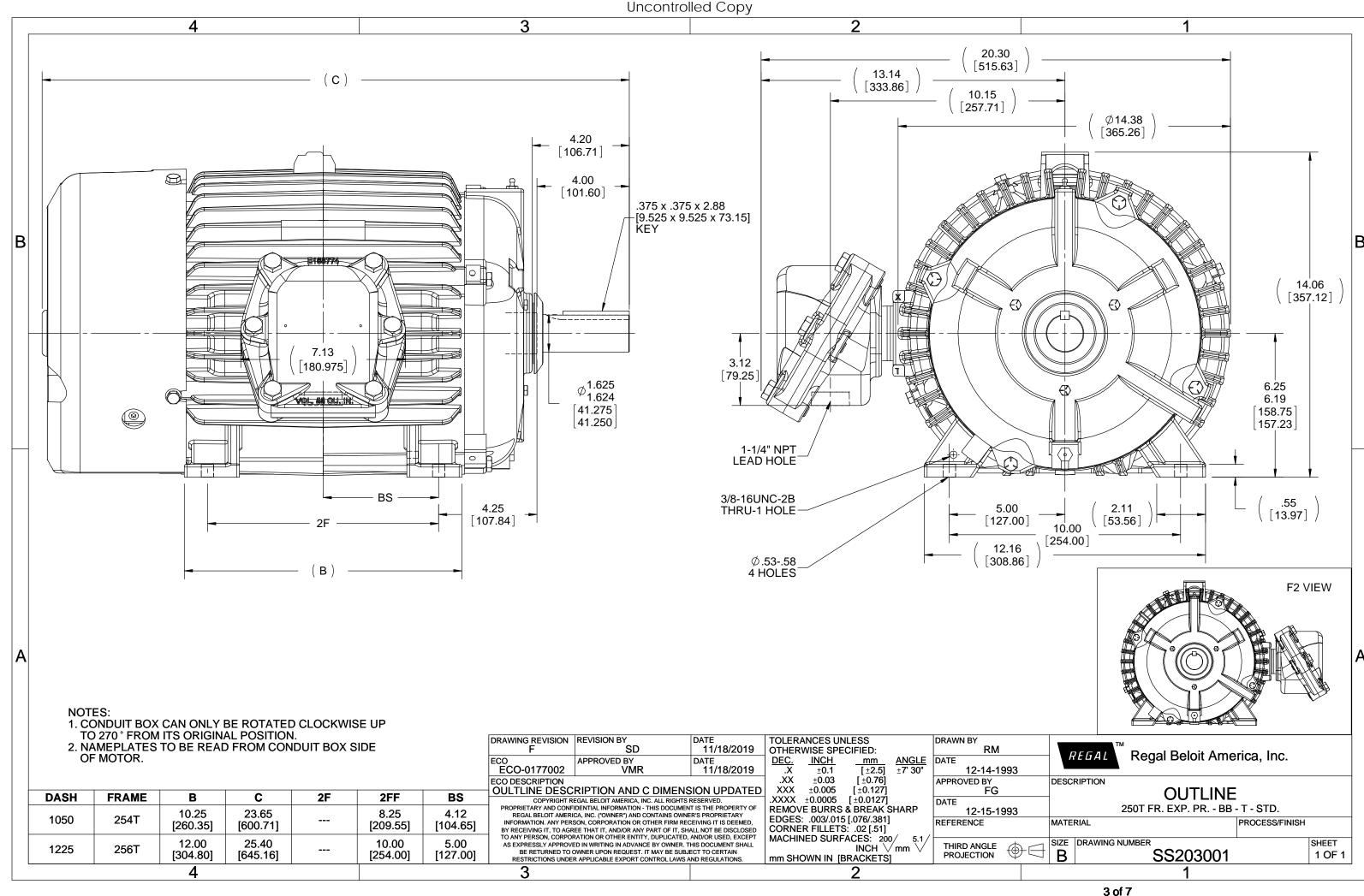
Nameplate Specifications

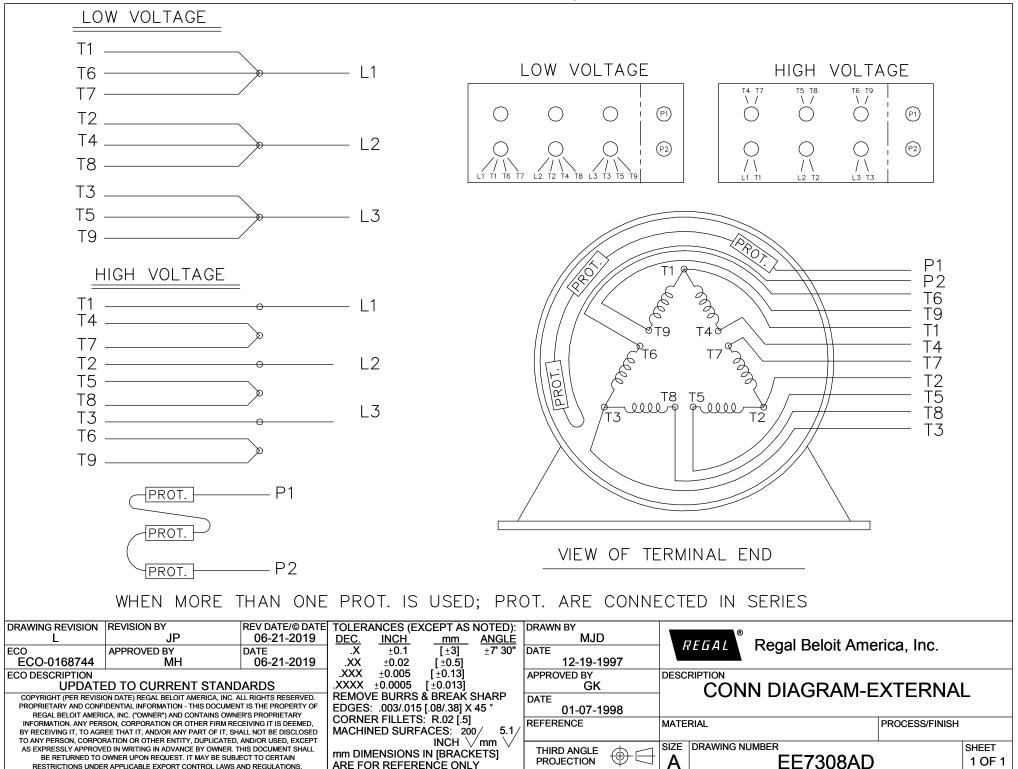
Output HP	15 Hp	Output KW	11.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	37.5/18.8 A	Speed	1772 rpm
Service Factor	1	Phase	3
Efficiency	92.4 %	Power Factor	82
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	G
Frame	254T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Ambient Temperature	50 ℃
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6210
UL	UL Listed And CSA Certified	CSA	Υ
CE	N	IP Code	54
Hazardous Location	DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.61 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		
Connection Drawing	EE7308AD	Outline Drawing	SS203001-1050

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RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

				ma	ara	athon*		DAT	PH. 715-6	WI 54401-8003		
					CEF	RTIFICATION DATA S	HEET					
CUSTOME	R:						custo	MER P.O. #:				
ORDER #:												
	AGRAM:									E503A		
			NONE	2								
				1	YPICAL	MOTOR PERFORMA	NCE DA	ATA				
НР	ĸw	SYNC RPM	FL	. RPM		FRAME	ENCL	.OSURE	TYPE	KVA CODE		DESIGN
15	11.2	1900		772		254T	EDEO		TEC	6		
CUSTOMER: ORDER #: CONN. DIAGRAM: EE7308AD OUTLINE: SS203001-1050 WINDING: HA31604019 NONE 2 TYPICAL MOTOR F HP KW SYNC RPM FL RPM FRAME 15 11.2 1800 1772 254T PH HZ VOLTS AMPS START TYP 3 60/50 230/460#190/380 37.5/18.8831/15.4 ACROSS THE F.L. EFF 92.4 3/4 LD EFF 92.4 F.L. PF 83.0 3/4 LD PF 76.5 F.L. TORQUE LR AMPS@ 460 V L.R. TORQUE 44.5 LB-FT 116 110 LB-FT 24 SOUND PRESSURE@3 FT. SOUND POWER ROTOR WK* MAX. LOAD W 44.5 LB-FT 116 110 LB-FT 24 SOUND PRESSURE@3 74 dBA 2.40 LB-FT² 110 LB-FT² *** SUPPLEMENT. DE BRACKET TYPE ODE BRACKET TYPE TYPE MOTOR ORIENTATION SEVER STANDARD RIGID HORIZONTAL PREMIUM SI BEARINGS BEARINGS GREASE SHAFT TYPE SPECIAL D BALL BALL BALL POLYREX EM T NONE								-10	11.0	9		В
L												
3	60/50	230/460#190/380	37.5/18	.8631/15.4		ACRUSS THE LINE	C	UNI	F	1.15	50	3300
	H					1/2 LD EFF	91.7	GTD EFF		ELECT.	TYPE	
	F.L. PF	83.0	3/4 LD PF	76.5		1/2 LD PF	65.5	91.7		SQ CAGE II	ND RUN	
	LB-FT 116 110 LB-FT 2											
44.5	LB-F1	110		110	LB-F1	241%	138	LB-FI	310%	55		
SOUND		SOUND POWER	ROT	OR WK²		MAX. LOAD WK ²	SAFE ST	TALL TIME		STARTS/HOUR	APROX.	MOTOR WGT
65	dBA	74 dBA	2.40	LB-FT ²	110	LB-FT ²	20	SEC.		2	400	LB.
	**** SUPPLEMENTAL INFORMATION *** DE BRACKET TYPE ODE BRACKET TYPE MOTOR ORIENTATION SEVERE DUTY LOCATION COVER SCREENS PAINT											
												PAINT
Sī	ANDARD	STANDARD	RIGID	HORIZONTAL PREMIUM SEVERE D			PROOF CL I GR CD CL II		II NO NONE		BLUE - RAL 5003 (EPOXY)	
R	EARINGS				1							
		GREASE	SHAI	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)		CASTIRON	
6309	6210			•	NONE							
-	CERTIFICATION DATA SHEET											
THE	RMOSTATS	PROTECTORS	WDO	RTD's		BRG RTD's	THERM	MISTORS		CONTROL	SPAC	E HEATERS
									FALSE		NA	
	0.44	0.244	1	.304		1.407	31	.503		0.080		ODE
*												
N												
0							II.	IV. HP SPEE	D RANGE:	NONE		
T E							FNOODED: NONE					
S S												
•											PPR	
l		7/00/0000										
	DATE: 1/20/2022											u z .
FORM: 35	RM: 3531 REV_4 2/27/06						UL:		- ALL BRAN		RTIFIED D	

FORM: 3531 REV_4 2/27/06

					ata Sheet	:				
Date: 7/27/2022					254TTGCD6531					
Customer:				nar	at	hon	0			
Attention:					Submittal					
Submitted by:					Data @	460	٧			
٠.				Motor L	oad Data					'
_oad	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 92.4	1,768	1762	0		
Efficiency (%)		87.5		91.7 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	Data							
LR Pull-Up		Pull-Up	BD Rated		Idle					
Speed (RPM)	0	900	1622	1772	1800 Inf		formation Block			
Current (Amps)	116	100	66.0	18.8	8.5			15.0		
orque (ft-lb)	orque (ft-lb) 110 76.5		138	44.5	0.00	Sync. RPM		1800		
				Frame		254				
— Ef	ficiency (%)	— P.F. (%)	- c	urrent (Amps)		Enclosure		EPFC		
100.0					 25.0	Construction		TFC		
						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 @ FL		55	° C		
F				A	Duty		CONT			
					15.0 M	Ambient		40	° C	
P 70.0					s	Elevation		3,300	feet	
F				1	Rotor/Shaft wk²		2.40	Lb-Ft ²		
60.0						Ref Wdg	HA31604019 NONE			
60.0				10.0	Sound Pressure @ 1M		65	dBA		
						1		1		

VFD Rating

Outline Dwg

Conn. Diag

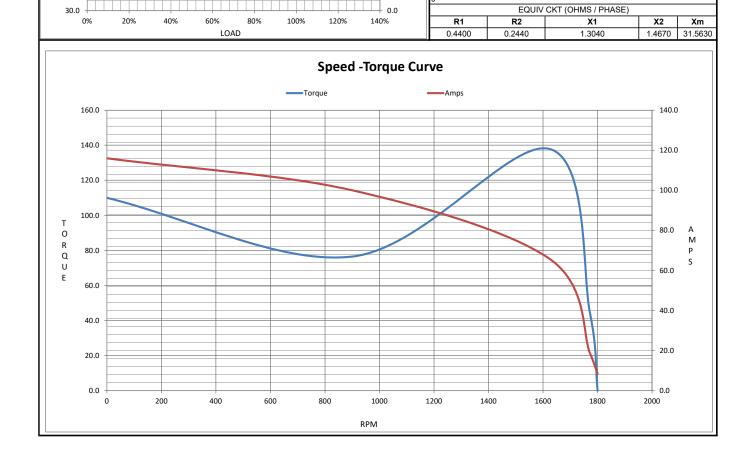
Additional Specifications

5.0

40.0

NONE

EE7308AD



CERTIFICATE OF COMPLIANCE

Certificate Number 20220311- E12044

Report Reference 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.

Bruce Mahrenholz, Director North American Certification Program

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