# **PRODUCT INFORMATION PACKET**

Model No: 213TTGND16001 Catalog No: C305B Hazardous Duty® Explosion Proof Motor, 7.50 HP, 3 Ph, 60 Hz, 230/460 V, 3600 RPM, 213TC Frame, EPFC



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marathon<sup>®</sup>

Motors



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# marathon®

## Nameplate Specifications

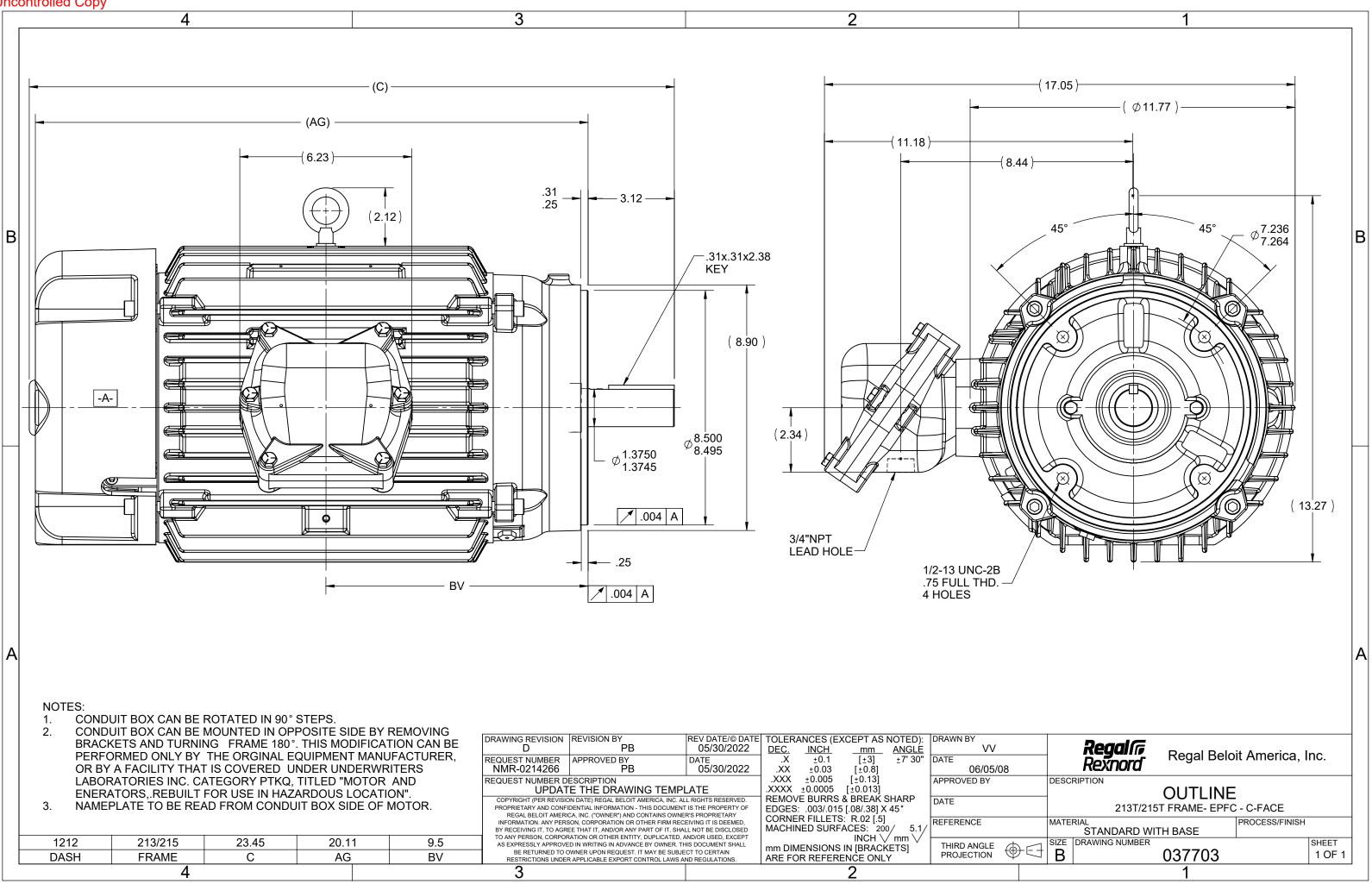
Output HP	7.50 Hp	Output KW	5.6 kW
Frequency	60 Hz	Voltage	230/460 V
Current	18.2/9.1 A	Speed	3525 rpm
Service Factor	1	Phase	3
Efficiency	89.5 %	Power Factor	86.2
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	Н
Frame	213TC	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6208
UL	UL Listed; also, UL Certified for Canada	CSA	N
CE	N	IP Code	54
Hazardous Location	DIV 1 EXP PROOF CL I GR D CL II GR FG T3B	Number of Speeds	1

## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	1.823 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	т	Overall Length	23.45 in
Frame Length	12.12 in	Shaft Diameter	1.375 in
Shaft Extension	3.12 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 10:1		
Outline Drawing	037703-1212	Connection Drawing	EE7308T

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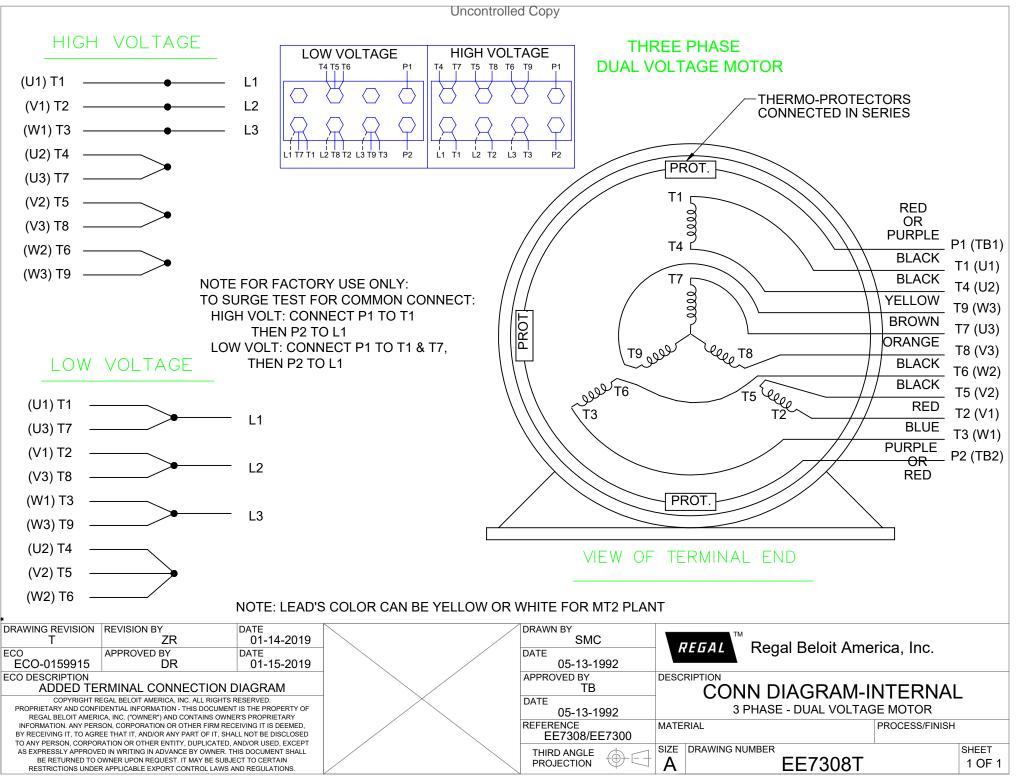
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#### **CERTIFICATION DATA SHEET**

Model#:	213TTGND16001 AA	WINDING#:	K2132125 NONE 2
CONN. DIAGRAM:	EE7308T	ASSEMBLY:	F1 ONLY
OUTLINE:	037703-1212		

#### TYPICAL MOTOR PERFORMANCE DATA

HP	ĸw	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&5	5.60&3.70	3600	3525&2935	213TC	EPFC	Н	В

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/	18.2/9.1&15.4/	LINE OR	CONTINUOU	B3	1.0/1.0	40	3300
		380	7.7	INVERTER	S				

FULL LOAD EFF: 89.5&88	3/4 LOAD EFF: 89.6	1/2 LOAD EFF: 88.2	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86.2&78	3/4 LOAD PF: 81.6	1/2 LOAD PF: 77	87.5	SQ CAGE INV RATED	7.2 / 3.6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
11.2 LB-FT	110 / 55	20.6 LB-FT 184	30.8 LB-FT 275	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	0.45 LB-FT^2	12 LB-FT^2	15 SEC.	2	150 LBS.

#### \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	TRUE	EXP PROOF CL	FALSE	NONE	BLUE (EPOXY)
					I GR D CL II GR			
					F&G T3B			

BEAF	BEARINGS		SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME
DE	OPE					MATERIAL	MATERIAL
BALL	BALL	POLYREX EM	т	NONE	NONE	1045 HOT	CAST IRON
6309	6208					ROLLED (C-204)	

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

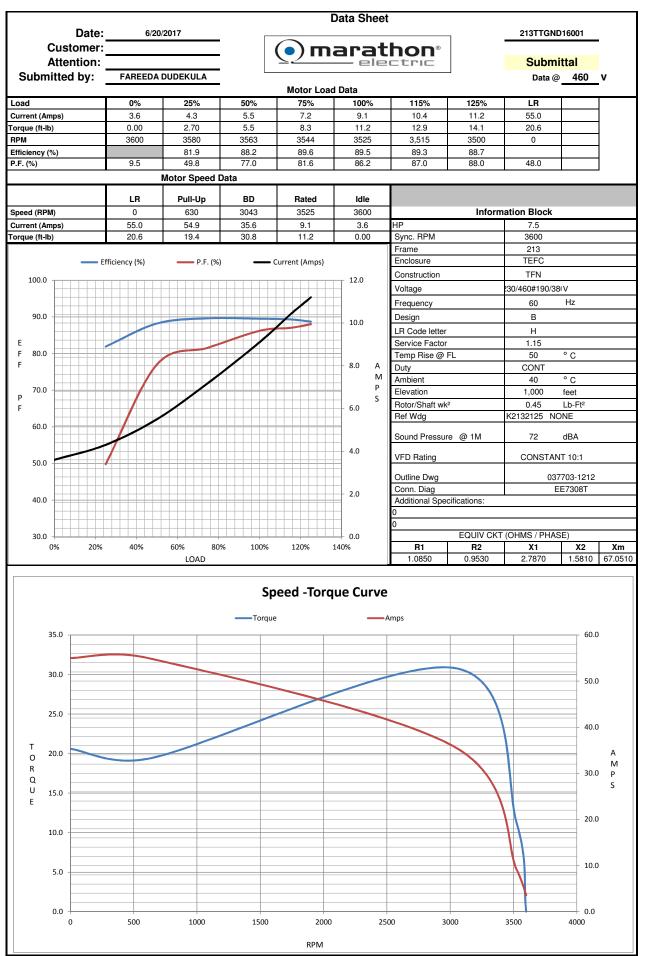
INVERTER TORQUE: CONSTANT 10:1 INV. HP SPEED RANGE: NONE						
ENCODER: NONE						
NONE NONE						
NONE NONE PPR						
BRAKE: NONE	NONE					
NONE P/N NO	NE					
NONE NONE						
NONE FT-LB	NONE V	NONE Hz				

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Certificate Number Report Reference Issue Date	20220222- E12044 E12044-20090313 2022-FEBRUARY-22
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 213TTGND16001 (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 <a href="https://iq.ulprospector.com">https://iq.ulprospector.com</a> for additional information.

CERTIFICATE OF COMPLIANCE

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.

Barnally

Bruce Mahrenholz, Director North American Certification Program

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