## **PRODUCT INFORMATION PACKET**

Model No: 284TSTGN16531 Catalog No: U076A Hazardous Duty® Explosion Proof Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 284TS Frame, EPFC



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Motors



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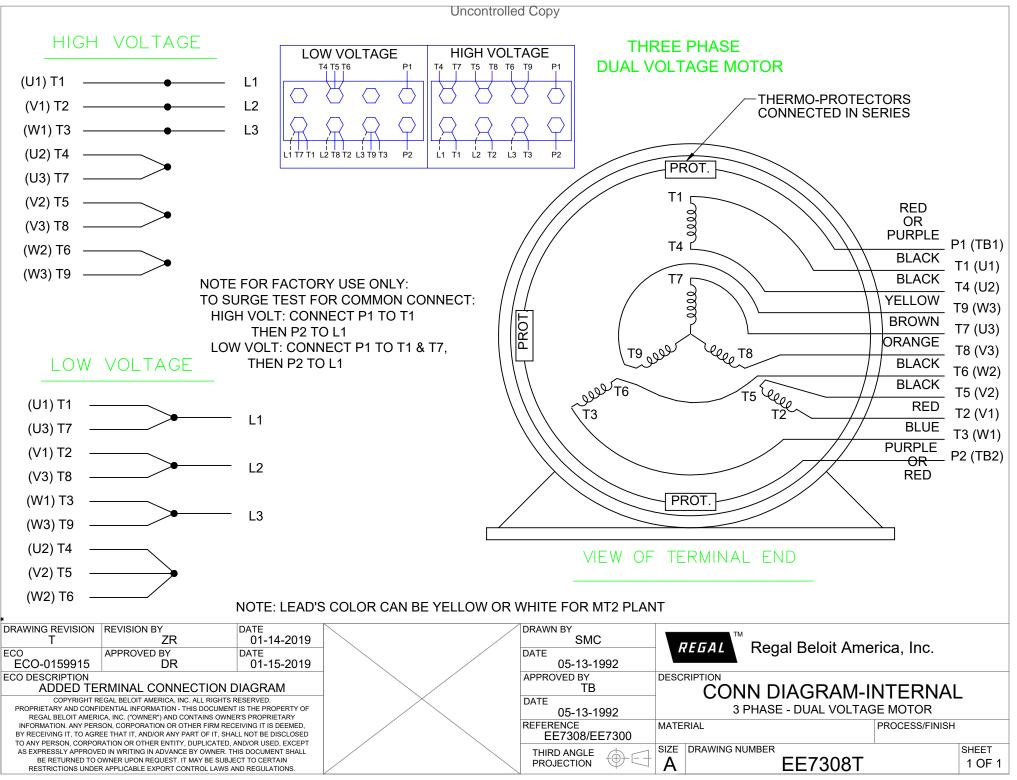
## Nameplate Specifications

Phase	3	Output HP	25 & 20 Hp
Output KW	18.7 & 14.9 kW	Voltage	230/460 & 190/380 V
Speed	1774 & 1470 rpm	Service Factor	1.15 & 1.15
Frame	284TS	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	93.6 & 93 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	62/31 & 60/30 A	Power Factor	81
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	G
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6210
UL	UL Listed And CSA Certified	CSA	Y
CE	Ν	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	4	Rotation	Reversible
Resistance Main	.251 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	тѕ	Overall Length	24.97 in
Frame Length	12.75 in	Shaft Diameter	1.625 in
Shaft Extension	3.44 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 10:1		
Outline Drawing	B-SS311004-1275	Connection Drawing	A-EE7308T

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#### **CERTIFICATION DATA SHEET**

Model#:	284TSTGN16531 AA	WINDING#:	K2844120 NONE 6
CONN. DIAGRAM:	A-EE7308T	ASSEMBLY:	F1 ONLY
OUTLINE:	B-SS311004-1275		

#### **TYPICAL MOTOR PERFORMANCE DATA**

HP		ĸw	SYN	IC. RPM		F.L. RPM	FRAME	EN	CLOSURE	KVA	CODE	DESIGN
25&20	18	8.7&14.9		1800		1774&1470	284TS		EPFC		G	В
РН	Hz	vo	LTS	FL AMF	<b>P</b> S	START TYPE	DUTY	INSL	. 5	6.F	AMB°C	ELEVATION
3	60/50		60#190/ 80	62/31&60	)/30	LINE OR	CONTINUOU S	F3	1.15	5/1.15	40	3300
FULL LOAI 93.6&9		3/4 LOAD		3.6 1/	2 LO	AD EFF: 93	GTD. E	FF	ELEC	. TYPE	N	O LOAD AMPS

FULL LOAD PF: 81&81	3/4 LOAD PF: 75	1/2 L0	DAD PF: 65	92.4		SQ CAGE INV RAT	ED 27 / 13.5
F.L. TORQUE	LOCKED ROTOR	LOCKED ROTOR AMPS L.R		DRQUE	В	.D. TORQUE	F.L. RISE°C
74 LB-FT	362 / 181	362 / 181		-FT 189	21	5 LB-FT 291	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK <sup>2</sup>	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
65 dBA	75 dBA	4.2 LB-FT^2	175 LB-FT^2	25 SEC.	2	475 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM	EXP PROOF CL	FALSE	NONE	BLUE (EPOXY)
				SEVERE DUTY	I GR C&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	TS	NONE	NONE	1045 HOT	CAST IRON
6311	6210	]				ROLLED (C-204)	

	THERMO-PF	ROTECTORS	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			
ENCODE	R: NONE			
NONE N	IONE			
NONE N	IONE PPR			
BRAKE:	NONE	NONE		
NONE	P/N NO	ONE		
NONE	NONE			
- FT-LB	NON	NE V	NONE Hz	

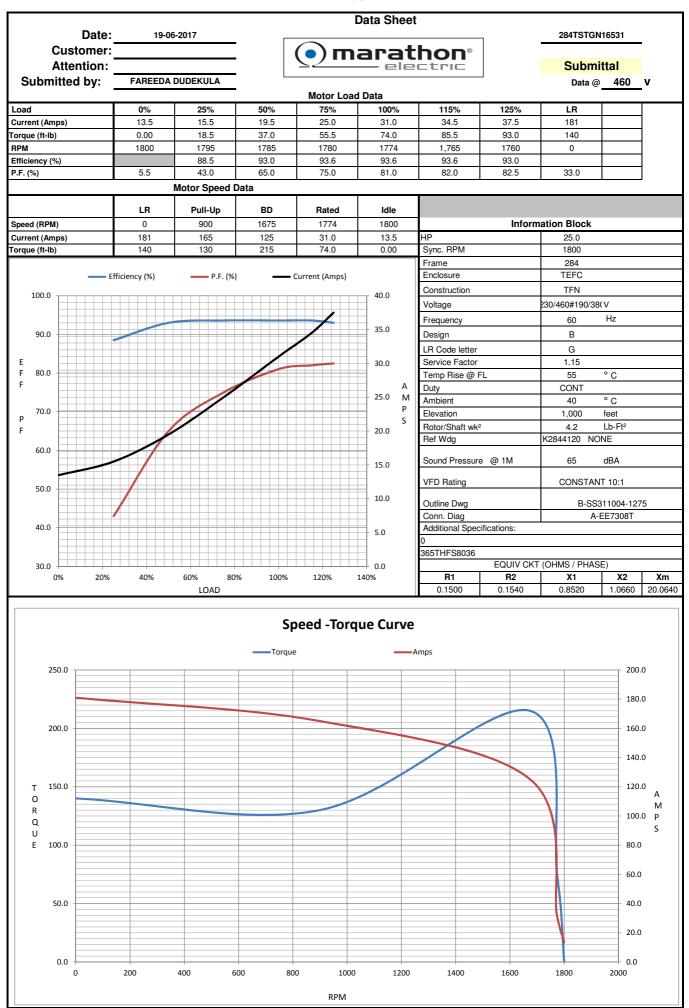
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Certificate Number Report Reference Issue Date	20220325- E12044 E12044-19991213 2022-MARCH-25
I Issued to:	REGAL BELOIT AMERICA INC 1946 W COOK RD FORT WAYNE IN 46818 Tradename: Marathon
This certificate confirms that representative samples of	MOTORS 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 284TSTGN16531 (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 <u>https://iq.ulprospector.com</u> 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.

Barnelly

Bruce Mahrenholz, Director North American Certification Program

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