PRODUCT INFORMATION PACKET



Model No: 286TTGN16577 Catalog No: E507

Hazardous Duty® Explosion Proof Motor, 20 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 286T Frame, EPFC



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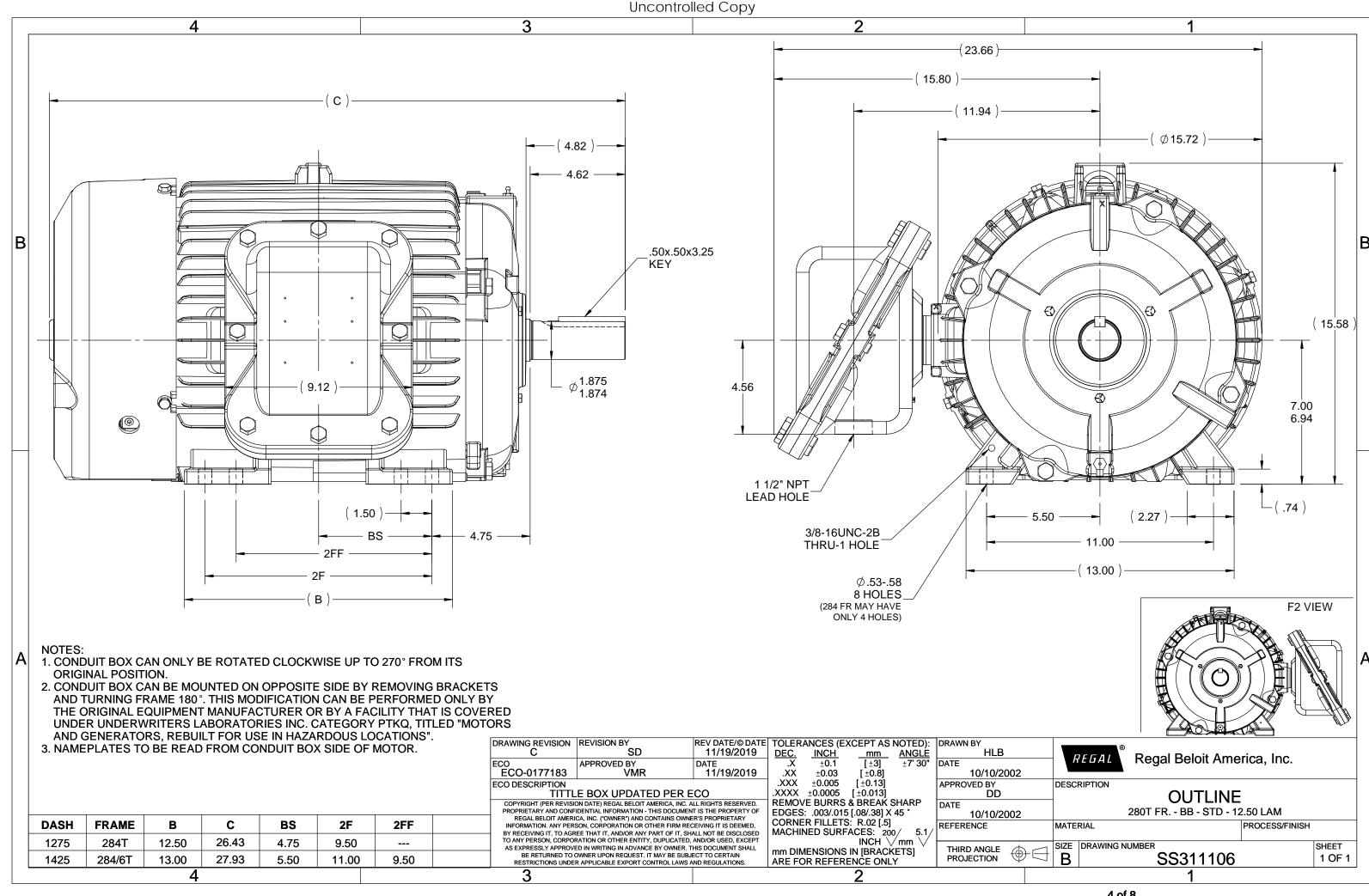
Nameplate Specifications

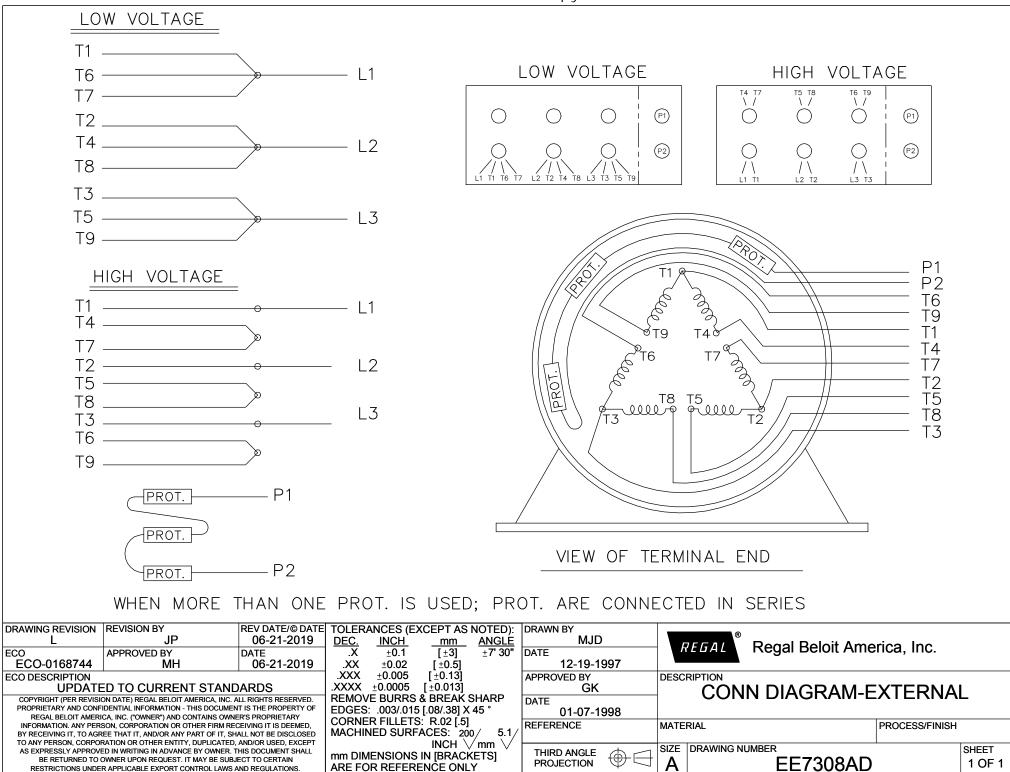
Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	230/460 V
Current	53.5/26.8 A	Speed	1175 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Power Factor	76
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	G
Frame	286T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6311	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 T3B	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter	
Poles	6	Rotation	Reversible	
Resistance Main	.385 Ohms	Mounting	Rigid Base	
Motor Orientation	Horizontal	Drive End Bearing	Ball	
Opp Drive End Bearing	Ball	Frame Material	Cast Iron	
Shaft Type	Т	Overall Length	27.71 in	
Frame Length	14.25 in	Shaft Diameter	1.875 in	
Shaft Extension	4.82 in	Assembly/Box Mounting	F1 ONLY	
Inverter Load	CONSTANT 10:1			
Connection Drawing	A-EE7308AD	Outline Drawing	B-SS311106-1425	

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CERTIFICATION DATA SHEET

 Model#:
 286TTGN16577 AA
 WINDING#:
 286654 NONE 6

 CONN. DIAGRAM:
 A-EE7308AD
 ASSEMBLY:
 F1 ONLY

OUTLINE: B-SS311106-1425

TYPICAL MOTOR PERFORMANCE DATA

HP	KW		SYN	IC. RPM	F.L. RPM	FRAME	ENCLOS	SURE	KV	A CODE	DESIGN
20	14.9	14.9		1200	1175	286T	EPF	EPFC		G	В
PH	Hz	VOL	.TS	FL AMPS	START TYPE	DUTY	INSL	S.	F	AMB°C	ELEVATION
3	60	230/4	460	53.5/26.8	LINE OR	CONTINUOU	F3	1.1	5	40	3300
					INVERTER	S					

FULL LOAD EFF: 91.7	3/4 LOAD EFF: 91.7	1/2 LOAD EFF: 91.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 76	3/4 LOAD PF: 70.5	1/2 LOAD PF: 59.5	91	SQ CAGE INV RATED	25 / 12 5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C	
89 LB-FT	290 / 145	157 LB-FT 176	238 LB-FT 267	60	

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
56 dBA	66 dBA	4.8 LB-FT^2	350 LB-FT^2	20 SEC.	2	550 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			

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME
DE	OPE					MATERIAL	MATERIAL
BALL	BALL	POLYREX EM	Т	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 ENCODER: NONE

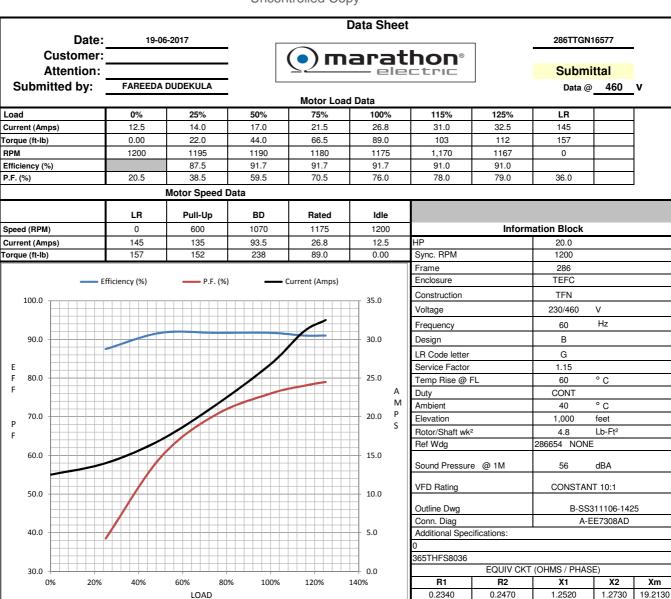
ENCODER: NONE NONE NONE NONE NONE PPR

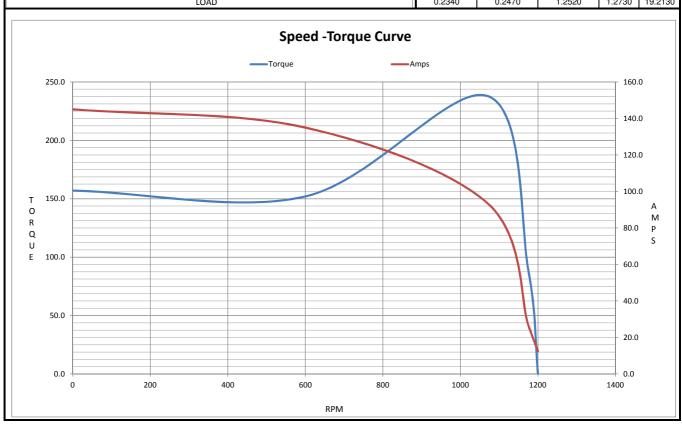
BRAKE: NONE NONE NONE P/N NONE NONE NONE

- FT-LB NONE V NONE Hz

N O T E S

> DATE: 06/21/2017 10:37:46 AM FORM 3531 REV.3 02/07/99 ** Subject to change without notice.





CERTIFICATE OF COMPLIANCE

 Certificate Number
 20220325- E12044

 Report Reference
 E12044-19991213

Issue Date 2022-MARCH-25

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 286TTGN16577 (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

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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.

Bamaly

Bruce Mahrenholz, Director North American Certification Program

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