# PRODUCT INFORMATION PACKET



Model No: 284THEN8032 Catalog No: Y985

Blue Max® Hazardous Duty® Explosion Proof Motor, 20 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM,

284TC Frame, EPNV



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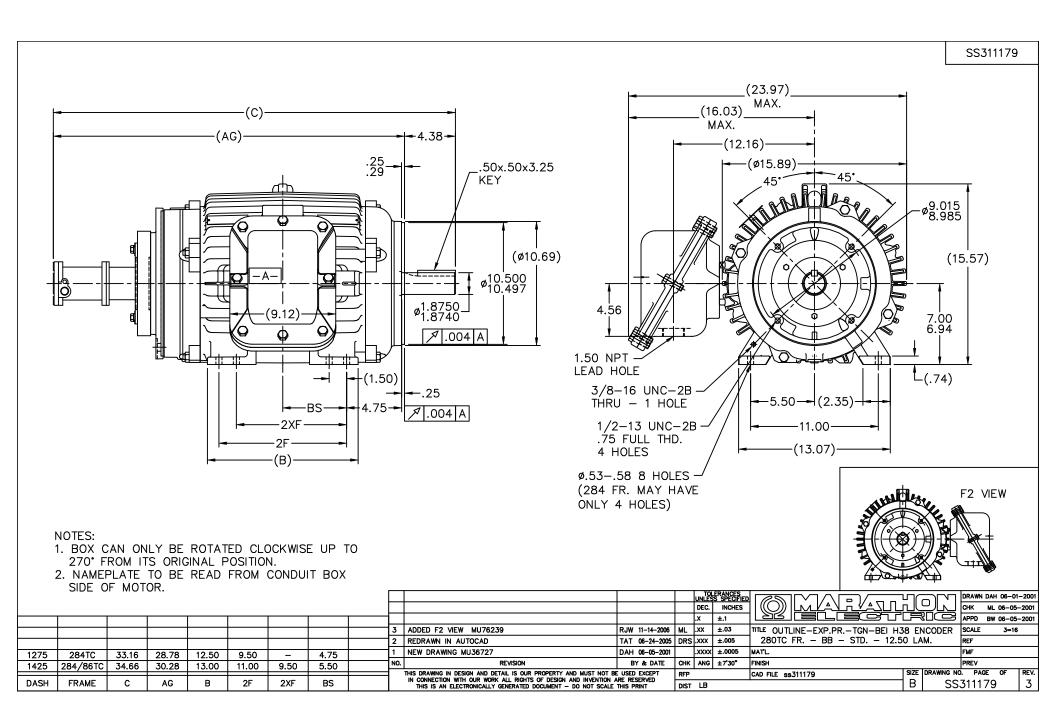
## Nameplate Specifications

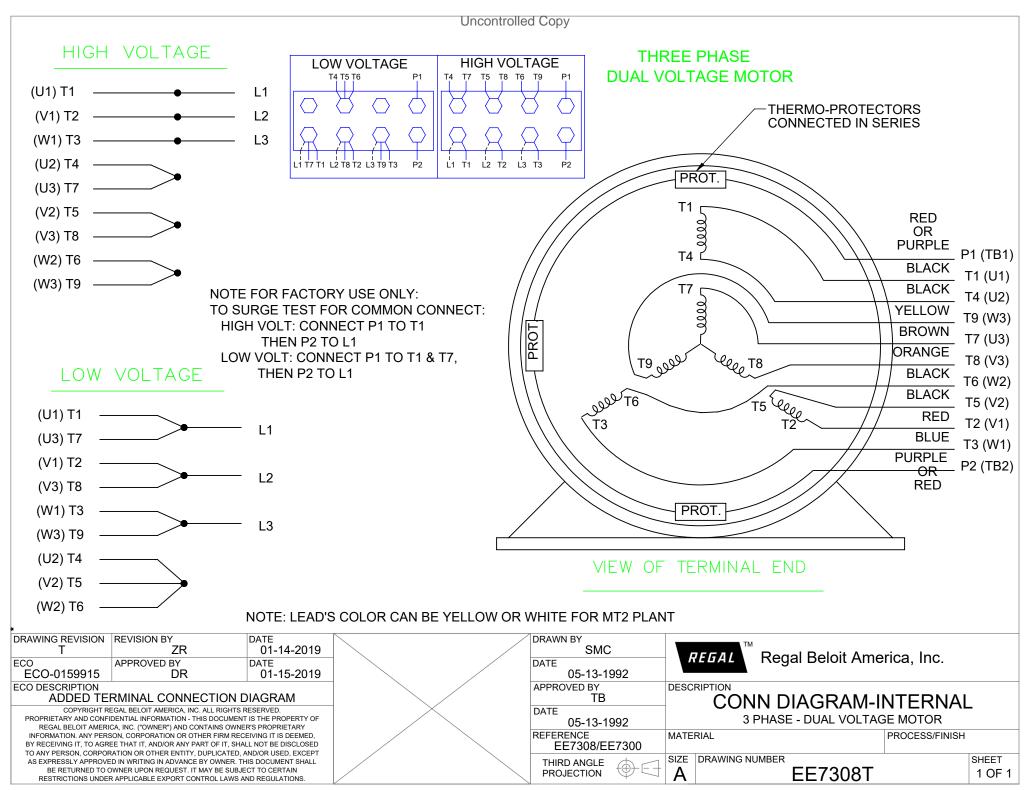
Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	230/460 V
Current	53.0/26.5 A	Speed	1775 rpm
Service Factor	1	Phase	3
Efficiency	93.6 %	Power Factor	76
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	М
Frame	284TC	Enclosure	Explosion Proof Non Ventilated
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6311
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 Inverter Duty	Starting Method	Inverter Only	
Poles	4	Rotation	Reversible	
Resistance Main	.2 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	33.16 in	
Frame Length	12.75 in	Shaft Diameter	1.875 in	
Shaft Extension	4.38 in	Assembly/Box Mounting	F1 ONLY	
Inverter Load	CONSTANT 2000:1			
Outline Drawing	B-SS311179-1275	Connection Drawing	A-EE7308T	

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#### **CERTIFICATION DATA SHEET**

Model#: 284THEN8032 BA WINDING#: K2844139 R1 1 CONN. DIAGRAM: A-EE7308T ASSEMBLY: F1 ONLY

OUTLINE: B-SS311179-1275

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

	HP	KW	'	SYN	IC. RPM	F.L. RPM	FRAME	ENCLOS	SURE	KVA	A CODE	DESIGN
	20	14.9	)	1800		1775	284TC	EPN	EPNV		М	INV
_												
	PH	Hz	VO	LTS	FL AMPS	START TYPE	DUTY	INSL	S.	.F	<b>AMB°C</b>	ELEVATION
ſ	3	60	230	/460	53/26.5	INVERTER	CONTINUOU	F3	1.	0	40	3300
						ONLY	S					

FULL LOAD EFF: 93.6	3/4 LOAD EFF: 93.6	1/2 LOAD EFF: 92.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 76	3/4 LOAD PF: 68	1/2 LOAD PF: 55	92.4	SQ CAGE INV DUTY	28 / 14

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
59.2 LB-FT	560 / 280	135 LB-FT 228	275 LB-FT 465	80

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	4.4 LB-FT^2	- LB-FT^2	- SEC.	-	475 LBS.

### **EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)**

R1	R2	X1	X2	XM
0.1562	0.1562	0.7242	0.73414	13.774
RM	ZREF	XR	TD	TD0
1391.6	14.2	5.6	0.012	0.24

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	ENCODER	RIGID	HORIZONTAL	FALSE	EXP PROOF CL I GR C&D CL II	FALSE	NONE	BLUE (ENAMEL)
					GR F&G T3C			

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	6311					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

INVERTER TORQUE: CONSTANT 2000:1 INV. HP SPEED RANGE: 1.5 X BASE SPEED

ENCODER: REGAL SUPPLIED - REGAL MOUNT

BEI H38

NPS HOLE 1024 PPR

BRAKE: NONE NONE

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NONE P/N NONE NONE

NONE FT-LB NONE V NONE Hz

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