# PRODUCT INFORMATION PACKET

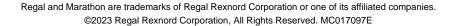


Model No: 254THEN8058 Catalog No: Y982

Blue Max® Hazardous Duty® Explosion Proof Motor, 7.50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM,

254TC Frame, EPNV









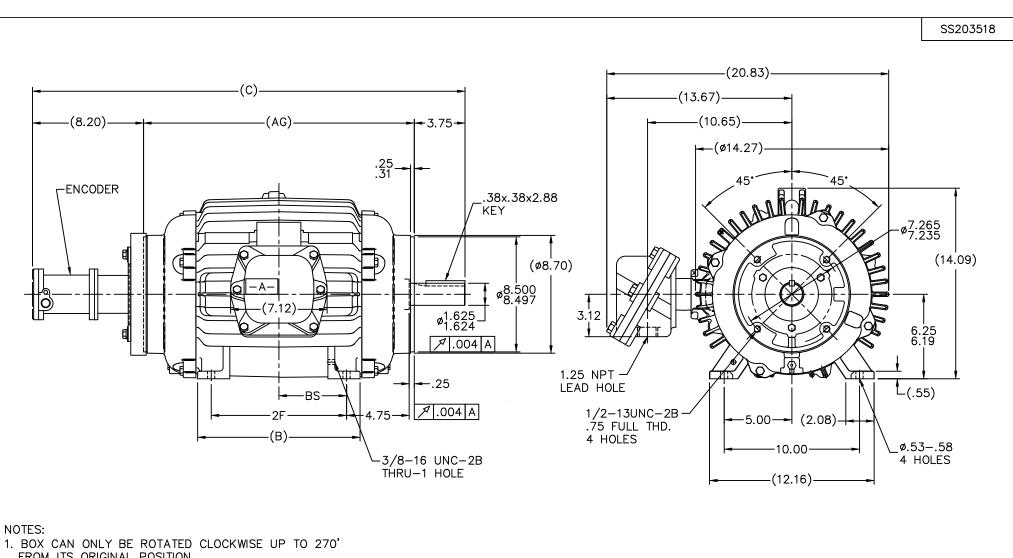
## Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.6 kW
Frequency	60 Hz	Voltage	230/460 V
Current	22.0/11.0 A	Speed	1782 rpm
Service Factor	1	Phase	3
Efficiency	91.7 %	Power Factor	69
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	М
Frame	254TC	Enclosure	Explosion Proof Non Ventilated
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6309
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 Duty	Starting Method	Inverter Only		
Poles	4	Rotation	Reversible		
Resistance Main	.76 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	30.20 in		
Frame Length	10.50 in	Shaft Diameter	1.625 in		
Shaft Extension	3.75 in	Assembly/Box Mounting	F1/F2 CAPABLE		
Inverter Load	CONSTANT 2000:1				
Connection Drawing	A-EE7308T	Outline Drawing	B-SS203518-1050		

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FROM ITS ORIGINAL POSITION.

2 NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.

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														.x	±.1			APPD	DR 03-07-200
														.xx	±.03	ייינב OUTLINE - BEI HS38 ENCODI		SCALE	7=32
									2	REDRAWN IN AUTOCAD	TAT	06-24-2005	DRS	.xxx	±.005	250T FR EXP. PR TGN -	· 'C' FACE	REF	
1050	254TC	30.20	18.25	10.25	8.25	4.12			1	NEW DRAWING MU29397	MJD	03-07-2000		.xxxx	±.0005	MAT'L.		FMF	
1225	256TC	31.95	20.00	12.00	10.00	5.00			NO.	REVISION	B	& DATE	СНК	ANG	±7'30"	FINISH		PREV	
	200.0	000		. 2.00	10100				=	THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE			RFP			CAD FILE ss203518	SIZE DRAWING	NO. PA	GE OF RE
DASH	FRAME	С	AG	В	2F	BS				IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION AT THIS IS AN ELECTRONICALLY GENERATED DOCUMENT — DO NOT SCALE		ERVED NNT	DIST	LB			B  SS	5203	518   2



#### **CERTIFICATION DATA SHEET**

 Model#:
 254THEN8058 BC
 WINDING#:
 K2544154 NONE 1

 CONN. DIAGRAM:
 A-EE7308T
 ASSEMBLY:
 F1/F2 CAPABLE

**OUTLINE**: B-SS203518-1050

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

HP	KW	SY	NC. RPM	F.L. RPM	FRAME	ENCLOS	SURE	KVA CODE	DESIGN
7 1/2	5.60	)	1800	1782	254TC	EPN	v	М	INV
PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	22/11	INVERTER	CONTINUOU	F3	1.0	40	3300
				ONLY	S				

FULL LOAD EFF: 91.7	3/4 LOAD EFF: 90.2	1/2 LOAD EFF: 88.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 69	3/4 LOAD PF: 60	1/2 LOAD PF: 47	90.2	SQ CAGE INV DUTY	14.4 / 7.2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22 LB-FT	194 / 97	76.5 LB-FT 348	100 LB-FT 455	60

SOUND PRESSURE	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS	APPROX. MOTOR
@ 3 FT.					/HOUR	WGT
62 dBA	72 dBA	2 LB-FT^2	- LB-FT^2	- SEC.	-	290 LBS.

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

R1	R2	X1	X2	XM
0.4725	0.29484	1.65564	2.13948	35.4942
RM	ZREF	XR	TD	TD0
1731.24	37.8	4.9	0.02	0.34

### \*\*\* 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 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	6309					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 2000:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED

ENCODER: REGAL SUPPLIED - REGAL MOUNT

BEI H38

NPS HOLE 1024 PPR

BRAKE: NONE NONE

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T
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S

## Uncontrolled Copy

NONE P/N NONE NONE

NONE FT-LB NONE V NONE Hz

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