# PRODUCT INFORMATION PACKET



Model No: 254THTL5776
Catalog No: Y546
Black Max® Inverter Duty Speed Ratio Motor, 7.50 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 254TC Frame, TENV



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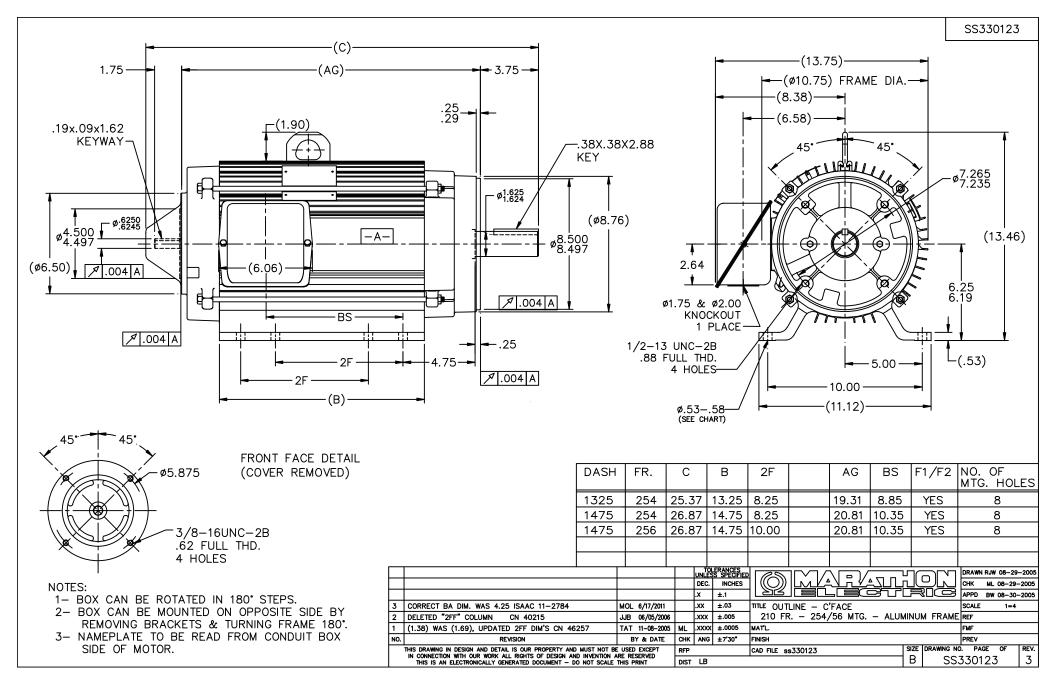
## Nameplate Specifications

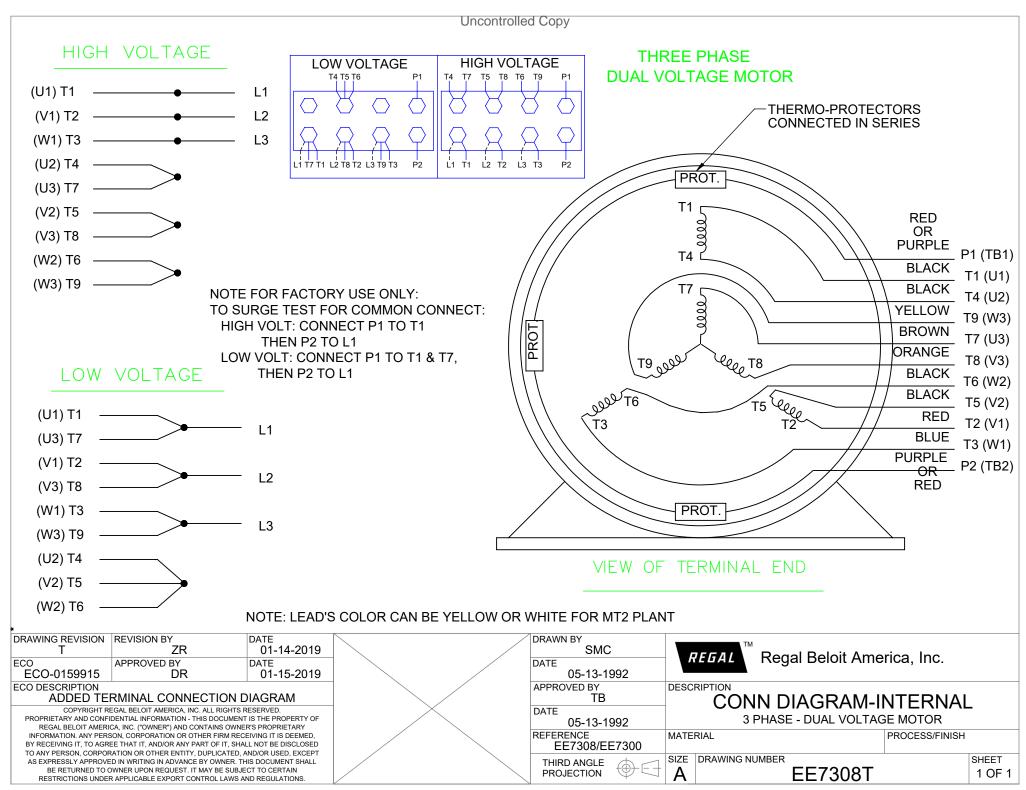
Output HP	7.50 Hp	Output KW	5.6 kW
Frequency	60 Hz	Voltage	230/460 V
Current	22.0/11.0 A	Speed	1170 rpm
Service Factor	1	Phase	3
Efficiency	87.5 %	Power Factor	73
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	L
Frame	254TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Υ
CE	Υ	IP Code	43
Number of Speeds	1		

## **Technical Specifications**

Squirrel Cage Inverter Duty	Starting Method	Inverter Only
6	Rotation	Reversible
.825 Ohms	Mounting	Rigid Base
Horizontal	Drive End Bearing	Ball
Ball	Frame Material	Aluminum
Т	Overall Length	25.37 in
13.25 in	Shaft Diameter	1.625 in
3.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
CONSTANT 1000:1		
A-EE7308T	Outline Drawing	B-SS330123-1325
	6 .825 Ohms Horizontal Ball T 13.25 in 3.75 in CONSTANT 1000:1	6 Rotation  .825 Ohms Mounting  Horizontal Drive End Bearing  Ball Frame Material  T Overall Length  13.25 in Shaft Diameter  3.75 in Assembly/Box Mounting  CONSTANT 1000:1

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#### **CERTIFICATION DATA SHEET**

 Model#:
 254THTL5776 CE
 WINDING#:
 K2156129 NONE 2

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

**OUTLINE**: B-SS330123-1325

### TYPICAL MOTOR PERFORMANCE DATA

НР	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2	5.60	1200	1170	254TC	TENV	L	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: 87.5	3/4 LOAD EFF: 87.5	1/2 LOAD EFF: 85.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 73	3/4 LOAD PF: 66	1/2 LOAD PF: 54	85.5	SQ CAGE INV DUTY	12 / 6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
33.7 LB-FT	168 / 84	78 LB-FT 231	118 LB-FT 350	95

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
60 dBA	70 dBA	1.2 LB-FT^2	0 LB-FT^2	0 SEC.	0	223 LBS.

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

R1	R2	X1	X2	ХМ
0.5103	0.6804	2.84634	3.24702	42.714
RM	ZREF	XR	TD	TD0
1787.94	37.8	3.3	0.0098	0.179

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE OR ENCODER	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLACK (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME
DE	OPE					MATERIAL	MATERIAL
BALL	BALL	POLYREX EM	Т	NONE	NONE	1045 HOT	ALUMINUM
6309	6206					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 1000:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED

ENCODER: PROVISIONS ONLY NORTHSTAR ST56

NONE NONE PPR

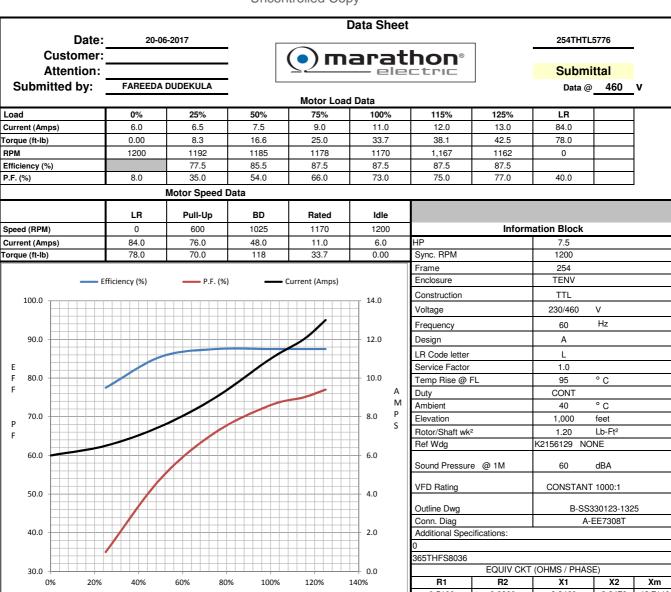
BRAKE: PROVISIONS ONLY NONE NONE P/N NONE

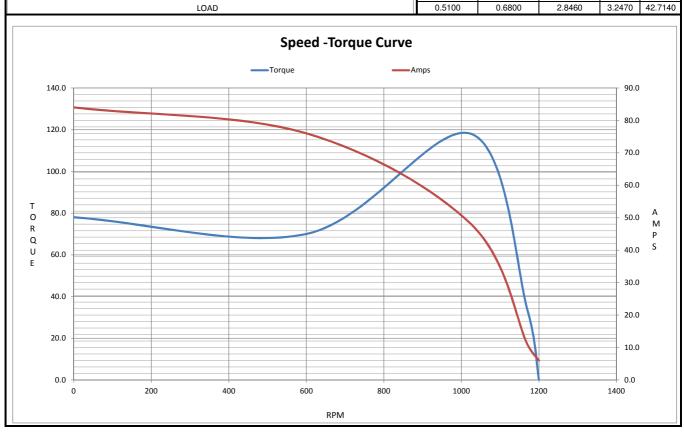
\* N O T E S \*

## Uncontrolled Copy

NONE	NONE		
NONE FT-L	В	NONE V	NONE Hz

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# **EC Declaration of Conformity**

The undersigned representing the manufacturer:

Regal Beloit America 100 East Randolph St. Wausau, WI 54401

and the authorized representative established within the Community:

Marathon Electric UK 6F Thistleton Road Ind. Estate Market Overton Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No: 254THTL5776

(Model No. may contain prefix and/or suffix characters)

Catalog No: Y546 Rework No: N/A

### Directives:

Low Voltage Directive 2014/35/EU

Harmonized Standards Used:

EN 60034-1: 2010 (IEC 60034-1: 2010)

Michael A Logsdon

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Authorized Representative in the Community:

J. cers

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer