# PRODUCT INFORMATION PACKET

Model No: 254TTDBD6001 Catalog No: GT0061

General Purpose Motor, 20 HP, 3 Ph, 60 Hz, 208-230/460 V, 3600 RPM, 254T Frame, DP



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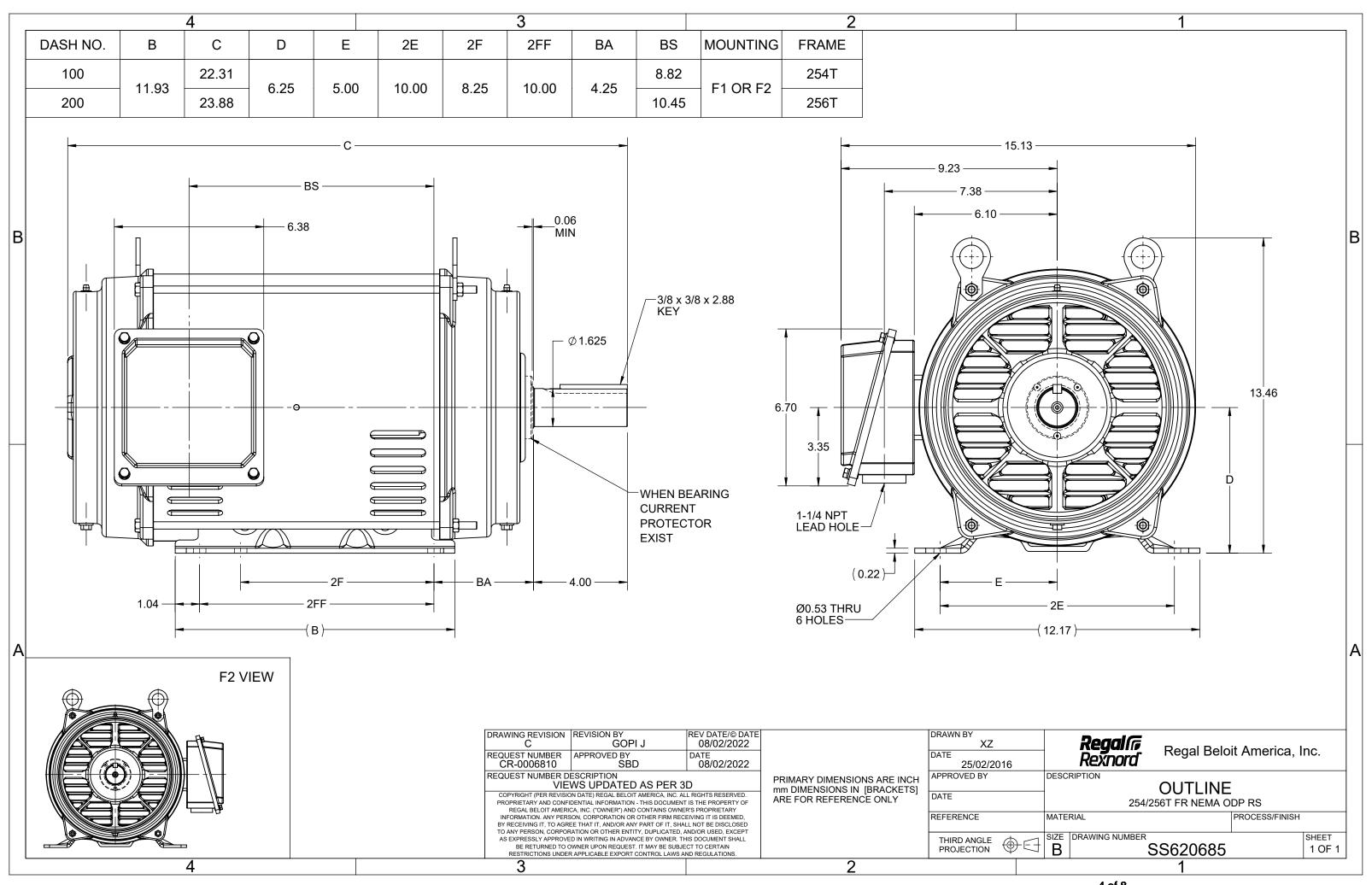
## Nameplate Specifications

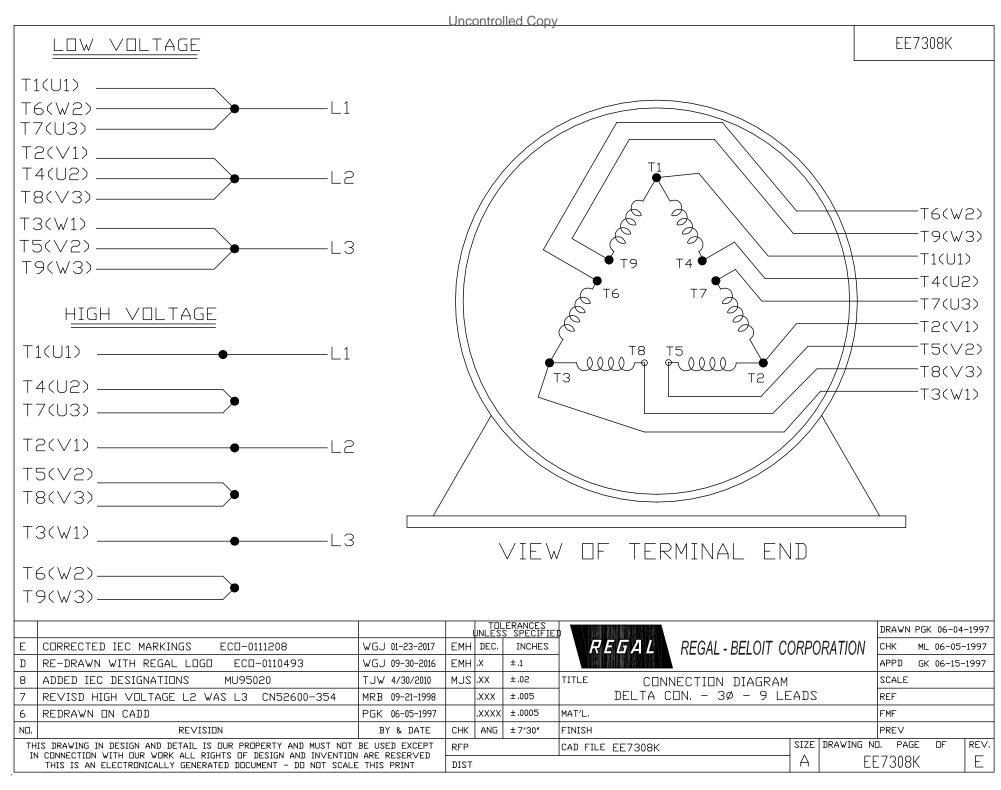
Output HP	20 Hp	Output KW	14.9 kW	
Frequency	60 Hz	Voltage	208-230/460 V	
Current	51.5-48.0/24.0 A	Speed	3552 rpm	
Service Factor	1.15	Phase	3	
Efficiency	91 %	Power Factor	85.5	
Duty	Continuous	Insulation Class	F	
Design Code	В	KVA Code	F	
Frame	254T	Enclosure	Drip Proof	
Thermal Protection	No Protection	Ambient Temperature	40 °C	
Drive End Bearing Size	6209	Opp Drive End Bearing Size	6208	
UL	Recognized	CSA	Υ	
CE	Υ	IP Code	22	
Number of Speeds	1			

## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.64 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Т	Overall Length	22.64 in
Frame Length	10.62 in	Shaft Diameter	1.625 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2:1/VARIABLE 10:1		
Outline Drawing	SS620685-100	Connection Drawing	EE7308K

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P.O. BOX 8003 **WAUSAU, WI 54401-8003** PH. 715-675-3311

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**CERTIFICATION DATA SHEET CUSTOMER PO#:** 

**CUSTOMER:** ORDER #: **MODEL #:** 254TTDBD6001

**CUSTOMER PART** CONN. DIAGRAM: EE7308K

**MOUNTING:** F1/F2 CAPABLE OUTLINE: SS620685

**WINDING #:** HE31602015

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

НР	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
20&15	14.9&11.2	3600	3552&2958	254T	DP	F	В

L	PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
	3	60/50	230/460&190/380	48/24&45/22.5	LINE OR INVERTER	CONTINUOUS	F7	1.15/1.15	40

FULL LOAD EFF:	91&91	3/4 LOAD EFF:	91	1/2 LOAD EFF:	90.6	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	85.5&84.5	3/4 LOAD PF:	80.5	1/2 LOAD PF:	69.5	90.2	SQ CAGE INV RATED

F.L. TORQUE LOCKED ROTOR AMPS		L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.6 <b>LB-FT</b>	274 / 137	52 <b>LB-FT</b> 176 %	74 <b>LB-FT</b> 250 %	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
75 <b>dBA</b>	85 <b>dBA</b>	1.1 LB-FT^2	- LB-FT^2	15 <b>SEC.</b>	3	300 <b>LBS.</b>

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEAR	INGS	CDEACE	CHAFT TYPE	CDECTAL DE	SHAFT		FRAME
DE	ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	MATERIAL	MATERIAL
BALL	BALL	POLYREX EM	_	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
6209	6208	POLIKEX EM	'	INOINE	INOINE	1045 HOT ROLLED (C-204)	KOLLED STEEL

	THERMO-PROTE	THERMO-PROTECTORS					
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	THERMISTORS	CONTROL	SPACE HEATERS	
NONE	NOT	NONE	NONE	NONE	FALSE	NONE <b>VOLTS</b>	

INVERTER

TORQUE: CONSTANT 2:1/VARIABLE 20:1 INV. HP SPEED RANGE: NONE

ENCODER: NONE NONE NONE PPR NONE NONE

BRAKE: NONE NONE P/N NONE NONE NONE NONE

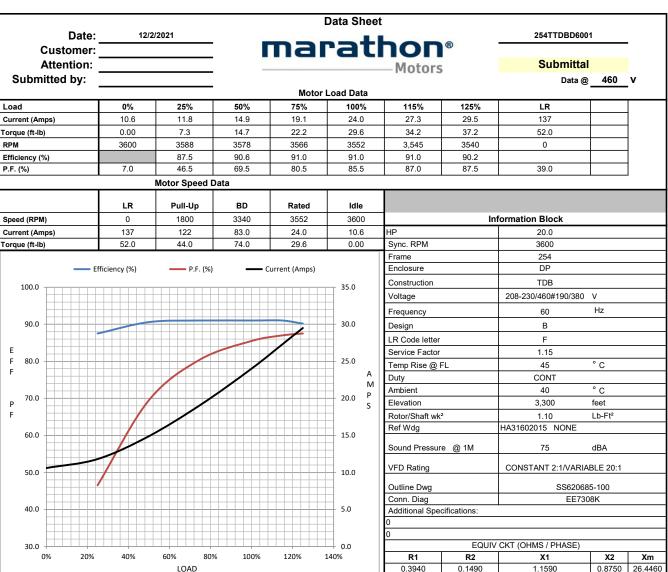
FT-LB s NONE NONE ٧ NONE Hz

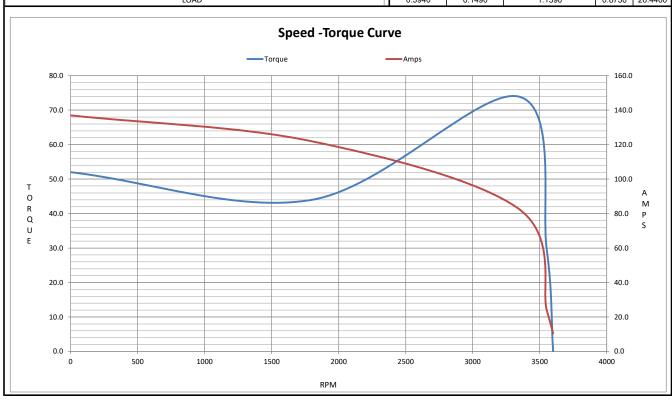
PREPARED BY: Anusha Muthyala **DATE:** 05/04/2018 03:17:41 AM FORM 3531 REV.3 02/07/99 \*\* Subject to change without notice.

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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: 254TTDBD6001

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

Catalog No: GT0061

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:** 

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Authorized Representative in the Community:

J. cerse

Julian Clark Marketing Engineer