# PRODUCT INFORMATION PACKET

Model No: 254TTDC6003
Catalog No: U289
General Purpose Motor, 20 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 254T Frame, DP



Regal and are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E



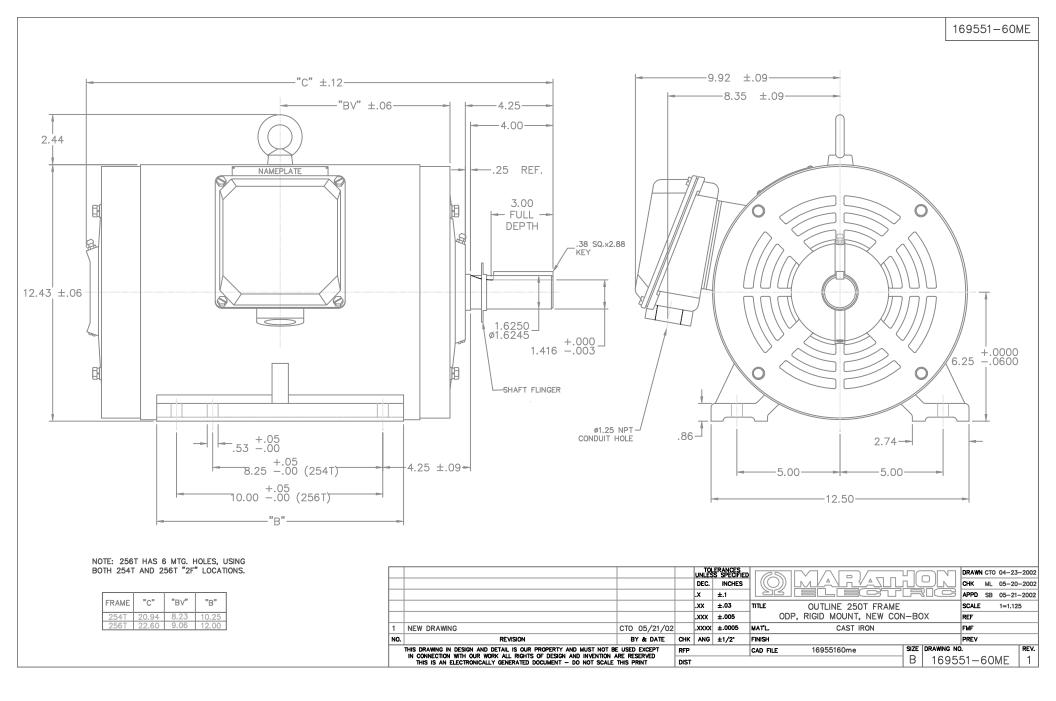
## Nameplate Specifications

Output HP	20 Hp Output KW		14.9 kW	
Frequency	60 Hz	Voltage	575 V	
Current	18.4 A	Speed	3550 rpm	
Service Factor	1.15	Phase	3	
Efficiency	93 %	Power Factor	89	
Duty	Continuous	Insulation Class	F	
Design Code	В	KVA Code	G	
Frame	254T	Enclosure	Drip Proof	
Thermal Protection	No Protection	Ambient Temperature	40 °C	
Drive End Bearing Size	6309	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	.417 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	20.94 in
Shaft Diameter	1.625 in	Shaft Extension	4.25 in
Assembly/Box Mounting	F1/F2 Capable	Inverter Load	CONSTANT 10:1
Outline Drawing	16955160ME-254T	Connection Drawing	0051090.01

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:09/15/2022



#### **CERTIFICATION DATA SHEET**

 Model#:
 254TTDC6003 AA
 WINDING#:
 T12902025 NONE 4

 CONN. DIAGRAM:
 51090.01
 ASSEMBLY:
 F1/F2 CAPABLE

**OUTLINE**: 169551.60ME

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

Н	IP	KW		SYN	IC. RPM	F.L. RPM	FRAME	ENCLO	SURE	KVA	CODE	DESIGN
2	20	14.9	)		3600	3550	254T	DF	· _		G	В
PH		Hz	VO	LTS	FL AMPS	S START TYPE	DUTY	INSL	S.F		AMB°C	ELEVATION
3		60	5	75	18.4	LINE OR	CONTINUOU	F2	1.15/1	1.0	40	3300

FULL LOAD EFF: 93	3/4 LOAD EFF: 92.4	1/2 LOAD EFF: 92	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FILL LOAD DE: 80	3/4 I OAD PE: 87.5	1/2 I OAD PE: 82	02.4	SO CAGE INV RATED	10

INVERTER

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
30 LB-FT	116	57 LB-FT 190	84 LB-FT 280	48

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

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

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

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
6309	6208					ROLLED (C-204)	

	THERMO-PF	ROTECTORS	THERMISTORS	CONTROL	SPACE /n HEATERS	
THERMOSTATS PROTECTORS WDG RTDs		BRG RTDs				
NONE	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: 1.5 X BASE SPEED

ENCODER: NONE NONE NONE NONE NONE PPR

BRAKE: NONE NONE NONE P/N NONE NONE NONE

NONE FT-LB NONE V NONE Hz

Ν

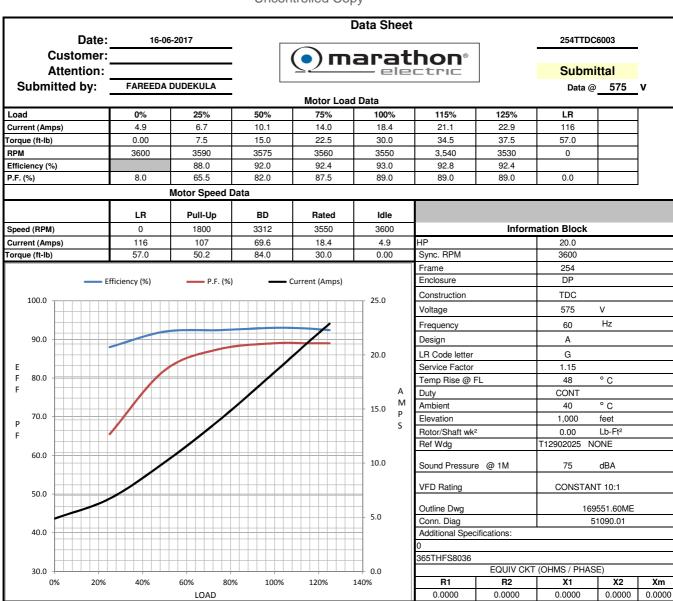
0

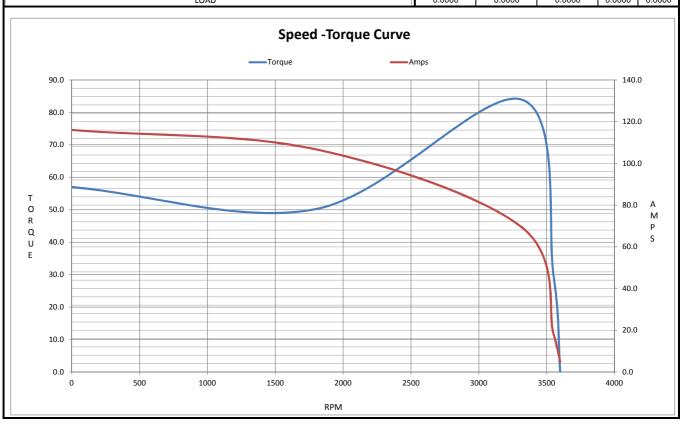
Т

Ε

S

DATE: 06/23/2017 02:19:33 AM FORM 3531 REV.3 02/07/99 \*\* Subject to change without notice.







# **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: 254TTDC6003

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

Catalog No : U289

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

(€ 22