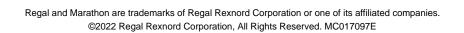
## PRODUCT INFORMATION PACKET



Model No: TCA0373AP211GAA009 Catalog No: R450

Cast Iron Motor, 50 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 250M Frame, TEFC









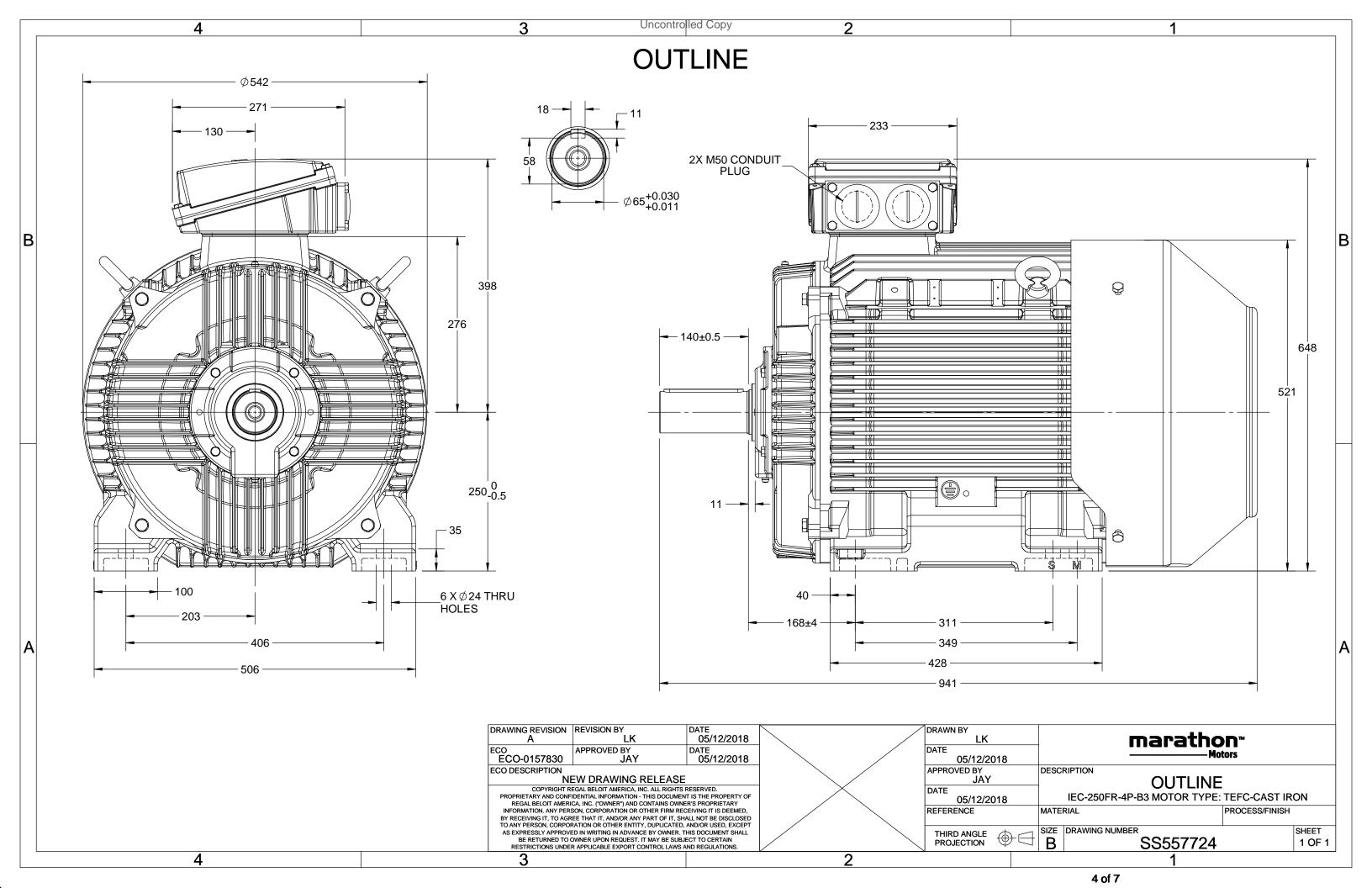
## Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW		
Frequency	60 Hz	Voltage	575 V		
Current	49.5 A	Speed	1190 rpm		
Service Factor	1.15	Phase	3		
Efficiency	94.1 %	Power Factor	80		
Duty	Continuous	Insulation Class	F		
Design Code	N (IEC)	KVA Code	J		
Frame	250M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314		
UL	Recognized	CSA	N		
CE	Υ	IP Code	55		
Number of Speeds	1	Efficiency Class	IE3		

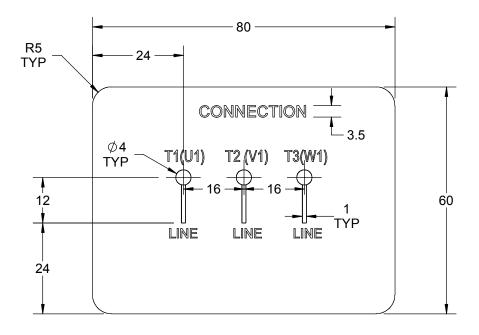
## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter			
Poles	6	Rotation	Reversible			
Resistance Main	.14 Ohms	Mounting	В3			
Motor Orientation	Horizontal	Drive End Bearing	Ball			
Opp Drive End Bearing	Ball	Frame Material	Cast Iron			
Shaft Type	IEC	Overall Length	37.05 in			
Frame Length	18.11 in	Shaft Diameter	2.560 in			
Shaft Extension	5.51 in	Assembly/Box Mounting	F3			
Inverter Load	CONSTANT 2:1/VARIABLE 10:1					
Outline Drawing	SS557724	Connection Drawing	8442000685			

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GENERAL TOLERANCE						
	>0~6	±0.1				
LINEAR	>6~30	±0.2				
	>30~120	±0.3				



### NOTES:

- 1. PRESSURE-SENSITIVE ADHESIVE TAPE COATED WITH ANTI-ADHESIVE.
- 2. YELLOW COLOR BACK GROUND LETTERS WILL BE BLACK.
- 3. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE BY THE TABLE.
- 4. LEAD TERMINAL MARKINGS FONT SIZE : T1-T2 T3 & U1-V1-W1 OF ARIAL WITH 3mm SIZE
- 5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

G. GTHER EET TERT GRIT GIZE GHOGES BE G.GHIIII.									
DRAWING REVISION A	REVISION BY A. KEETHA	DATE 25/07/2019			DRAWN BY A. KEETHA		Dogol Poloit Ame	orioo Ino	
ECO ECO-0171114	APPROVED BY SN	DATE 25/07/2019			DATE 24/07/2019		REGAL Regal Beloit Ame	enca, mc.	
ECO DESCRIPTION		<b>\</b>		APPROVED BY	DESC	RIPTION			
NEW DRAWING RELEASE				CONNECTION DIAGRA		IACRAM			
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	ED IN WRITING IN ADVANCE BY OWNER OWNER UPON REQUEST. IT MAY BE SU				THIRD ANGLE PROJECTION	-   "A		_	
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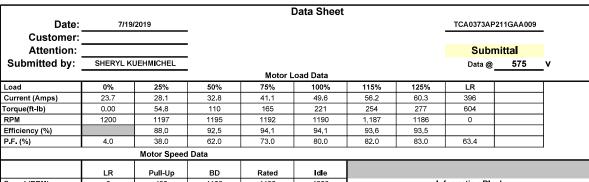
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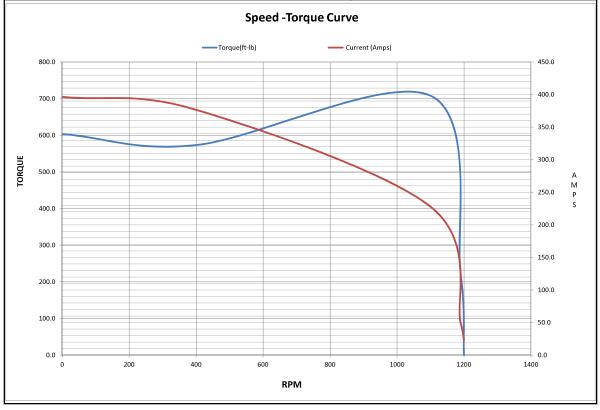
	LR	Pull-Up	BD	Rated	Idle				
Speed (RPM)	0	400	1102	1190	1200	Information Block			
Current (Amps)	396	377	227	49.6	23.7	HP 50.0			
Torque(ft-lb)	604	573	707	221	0.00	Sync. RPM 1200			
						Frame	250M		
—— Efficiency (%) —— P.F. (%) —— Current (Amps)			Enclosure	TEFC					
100.0					70.0	Construction	TFN		
100.0					7 0.0	Voltage	575	V	
90.0						Frequency	60	Hz	
90.0					60.0	Design	N		
80.0				_	- 00.0	LR Code letter	J		
80.0						Service Factor	1.15		
					50.0	Temp Rise @ FL	80	° C	
70.0 E						Duty	CONT		
F H						Ambient	40	° C	
F 60.0					40.0	Elevation	3,300	feet	
,					A M	Rotor/Shaft wk²	40.0	Lb-Ft <sup>2</sup>	
50.0 P		/			P	Ref Wdg	IE3L2506201		
F					30.0 <b>s</b>	Sound Pressure @ 1M	69	dBA	
~ 40.0	1					VFD Rating	NA		
<u></u>	/					Outline Dwg		SS557724	
30.0					20.0	Conn. Diag		8442000677	
						Additional Specifications:			
20.0					$\vdash$	RATED FOR CONSTANT 2:1/VARIABLE 10:1 ON VFD POWER(1.0SF)			
					10.0				
10.0									

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EQUIV CKT (OHMS / PHASE)

0.4521

0.6825

13.6507



# **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: TCA0373AP211GAA009

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

Catalog No: R450 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. cerse

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

**C**€ 22