## **PRODUCT INFORMATION PACKET**

Model No: TCA7P53A3141GACD01 Catalog No: TCA7P53A3141GACD01 Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 160M Frame, TEFC



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marathon® Motors Product Information Packet: Model No: TCA7P53A3141GACD01, Catalog No:TCA7P53A3141GACD01 Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 160M Frame, TEFC

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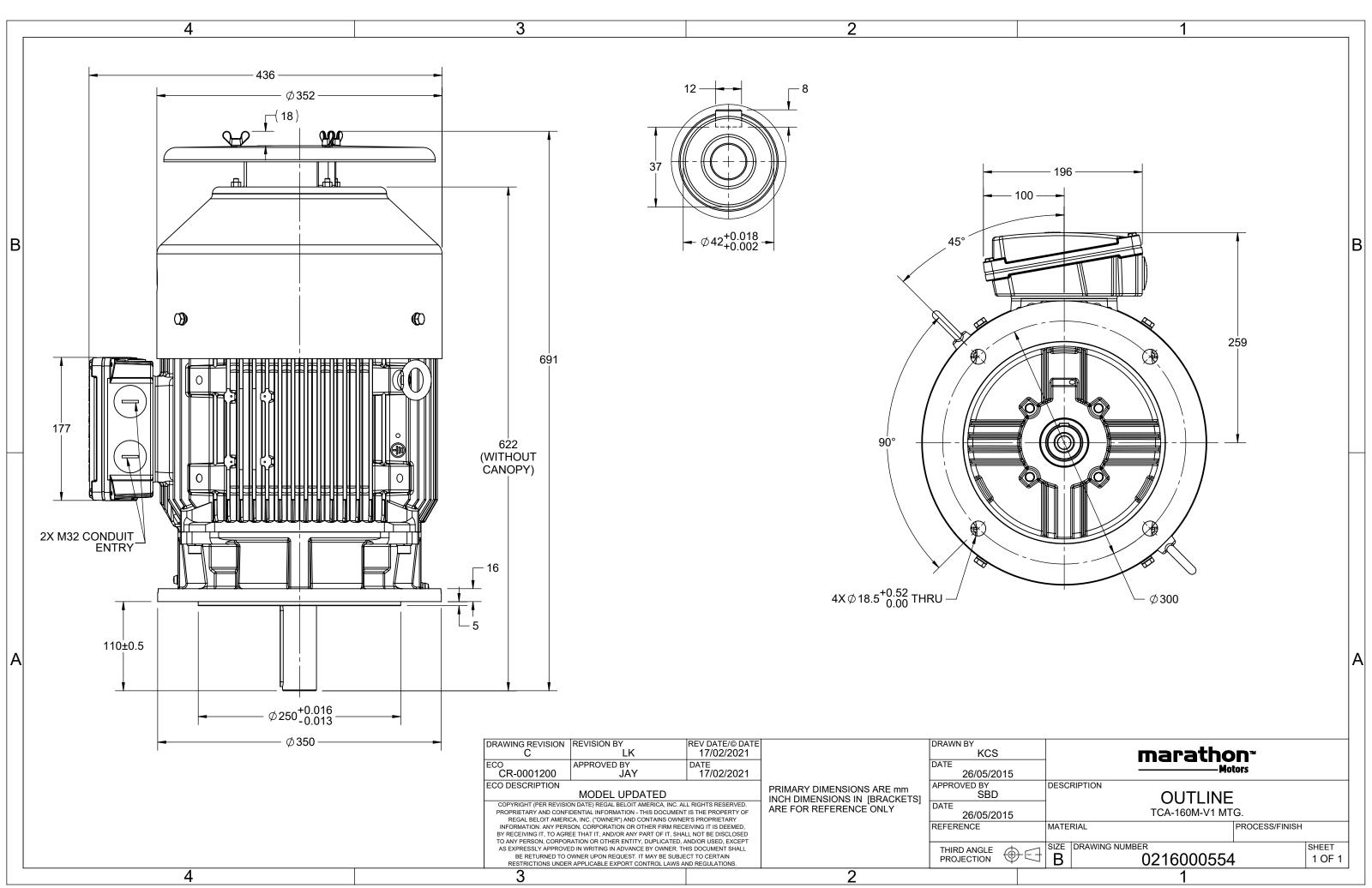
## Nameplate Specifications

Output HP	10 Нр	Output KW	7.5 kW		
Frequency	50 Hz	Voltage	415 V		
Current	14.8 A	Speed	977 rpm		
Service Factor	1	Phase	3		
Efficiency	89.1 %	Power Factor	0.79		
Duty	S1	Insulation Class	F		
Frame	160M	Enclosure	Totally Enclosed Fan Cooled		
Frame Thermal Protection	160M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 50 °C		
Thermal Protection	No Protection	Ambient Temperature	50 °C		
Thermal Protection Drive End Bearing Size	No Protection 6309	Ambient Temperature Opp Drive End Bearing Size	50 °C 6209		

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	691 mm	Frame Length	254 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0216000554	Connection Drawing	8442000085

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## Model No. TCA7P53A3141GACD01

(V)   Conn   [H2]   [kW]   [hp]   [A]   [RPM]   [Nm]   Class   5/4FL   FL   3/4FL   1/2FL   [FL]   3/4FL   1/2FL   1/2FL   [FL]   3/4FL   1/2FL   1/2F	$U \Delta / Y f$	Р	Р	1	n	т	IE		% EFF at	load		DE	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	T_/T.
415   A   50   7.5   10   14.8   977   72.92   1E3   -   89.1   89.1   88.5   0.79   0.73   0.59   5.5   1.9   2.3     Motor type   TCA   Image: Consume in the ima		-		•		-					1/251						
Motor type   TCA   Degree of protection   IP 55     Enclosure   TEFC   Mounting type   IM V1     Frame Material   Cast Iron   Coling method   IC 411     Frame size   160M   Motor weight - approx.   143     Outy   S1   Gross weight - approx.   163     Voltage variation *   ± 10%   Motor inertia   0.1355   kgg     Service factor   1.0   Motor diretia   Custement of the provide   Vibration level   2.2   mm     Design   N   Noise level (Imeter distance from motor)   61   dBg     Ambient temperature fise (by resistance)   70 [Class B]   K   K   Reversores   2/3/4   Endersores     Temperature class   NA   Standard rotation   Bi-directional   Standard rotation   Endersores   Endersores   Accessory - 1   -     Accessory - 1   -   Accessory - 2   -   Accessory - 3   -     Di / NDE bearing   6309-22 / 6209-22   Imaination on ToP   Imaination on ToP   Imaination on ToP     Lubrication method   Greased for life   Moto postion   TOP					• •	· ·		5/4FL			,						
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	DE / NDE bearing		6309-2	2Z / 6	209-2Z			т	Ferminal b	ox posit	tion						
Type of grease NA Auxiliary terminal box NA	Lubrication method		Grea	ased fo	r life			N	Maximum	cable si	ze/cond	uit size	1R	x 3C x 3	5mm²/2 X M3	32 x 1.5	
	Type of grease			NA				A	Auxiliary to	erminal	box				NA		

 $\rm I_A/\rm I_N$  - Locked Rotor Current / Rated Current

 $T_{\text{A}}/T_{\text{N}}$  - Locked Rotor Torque / Rated Torque

#### NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

\* Voltage, Frequency and combine variation are as per IEC60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	-	IS 12615 : 2018	-	-	-



 $T_{\rm K}/T_{\rm N}$  - Breakdown Torque / Rated Torque

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Model No. TCA7P53A3141GACD01

Enclosure	U	$\Delta / Y$	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	415	Δ	50	7.5	10.0	14.8	977	7.44	72.92	IE3	50	S1	1000	0.1355	143

#### Motor Load Data

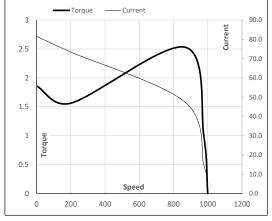
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	7.2	7.7	9.3	11.6	14.8	
Torque	Nm	0.0	17.9	36.0	54.3	72.9	
Speed	r/min	1000	994	989	983	977	
Efficiency	%	0.0	82.8	88.5	89.1	89.1	
Power Factor	%	7.0	40.6	59.0	73.0	79.0	

#### Performance vs Load Chart -Efficiency \_ — Power Factor 100 16.0 EFF & PF 90 14.0 80 12.0 70 10.0 60 Current 50 8.0 40 6.0 30 4.0 20 2.0 10 Load 0 0.0 25% 50% 75% 100% 125% 0%

#### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	200	868	977	1000	
Current	А	81.5	73.4	47.4	14.8	7.2	
Torque	pu	1.9	1.6	2.5	1	0	

Starting Characteristics Chart



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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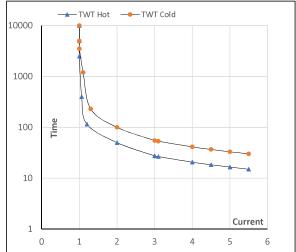
Model No. TCA7P53A3141GACD01

Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	415	Δ	50	7.5	10	14.8	977	7.43	72.92	IE3	50	S1	1000	0.1355	143

### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	$I_3$	l <sub>4</sub>	I <sub>5</sub>	LR
TWT Hot	s	10000	50	28	21	18	17	15
TWT Cold	s	10000	100	55	41	37	33	30
Current	pu	1	2	3	4	4.5	5	5.5

Thermal Characteristics Chart



**NOTE** Refer data sheet for applicable standard and tolerances on performance parameters

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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 : TCA7P53A3141GACD01

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

Catalog No : TCA7P53A3141GACD01

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010) EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Michael A Logsdon

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

(€ 22

Authorized Representative in the Community:

Julian Clark Marketing Engineer