# **PRODUCT INFORMATION PACKET**

Model No: SCA0032A1141GAA001 Catalog No: SCA0032A1141GAA001 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 100L Frame, TEFC



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# marathon®

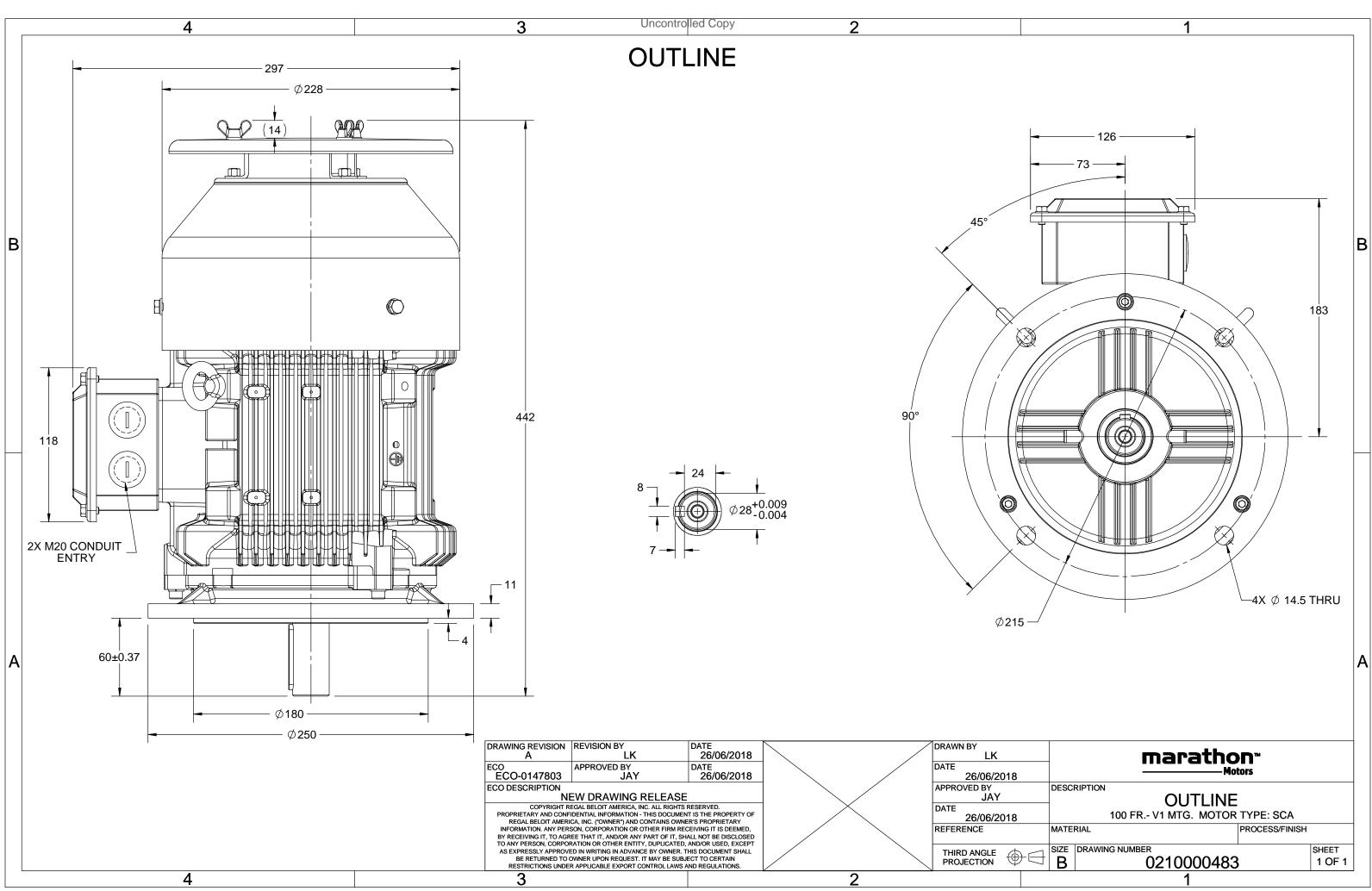
# Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW		
Frequency	50 Hz	Voltage	400 V		
Current	6.0 A	Speed	1434 rpm		
Service Factor	ze Factor 1 Pr		3		
Efficiency	85.5 %	Power Factor	0.84		
Duty	S1	Insulation Class	F		
Frame	100L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206		
0		opp Bitto Ena Boaring 6120			
UL	No	CSA CSA	No		

# **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	442 mm	Frame Length	200 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0210000483

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# **TerraMAX**<sup>®</sup>

### Model No. SCA0032A1141GAA001

U	$\Delta / Y$	f	Р	Р	I.	n	т	IE		% EFF a	t load	ł	PF	at lo	bad	$I_A/I_N$	$T_A/T_N$	Τ <sub>κ</sub> /Τ <sub>Ν</sub>
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400	Y	50	3	4.0	6.0	1434	19.86	IE2	-	85.5	85.5	85.3	0.84	0.77	0.64	6.4	2.8	3.0
Motor t	ype				SCA				De	gree of	protecti	on				IP 55		
Enclosu	re				TEFC	2			Mo	unting	type					IM V1		
Frame N	Material		Cast Iron Cooling							oling me	ethod					IC 411		
Frame s	ize	100L Motor weight - approx.										41		kį				
Duty					S1				Gross weight - approx.						prox. 44			
Voltage	variatio	on *			± 10%	6			Motor inertia						0.0074			
Frequer	ncy varia	ation *			± 5%				Load inertia						Cust	omer to Provid	e	
Combin	ed varia	tion *			10%				Vibration level							1.6		mm/
Design					Ν				Noise level ( 1meter distance from motor				)	58		dB(A		
Service	factor				1.0				No	. of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	on class				F				Sta	rting m	ethod					DOL		
Ambien	t tempe	erature			-20 to +	-40		°C	Тур	Type of coupling						Direct		
Temper	ature ri	se (by i	resistand	ce)	80 [ Clas	s B ]		К	LR	LR withstand time (hot/cold)						20/10		
Altitude	above	sea lev	el		1000	)		meter	Dir	ection o	of rotatio	on			E	Bi-directional		
Hazardo	ous area	l classif	ication		NA				Sta	ndard r	otation				Clo	ckwise form DE		
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	cessorie	S							
	Temper	ature o	lass		NA					Acc	cessory -	- 1				PTC 150°C		
Rotor ty	/pe			Alu	uminum l	Die cast				Acc	cessory -	- 2				-		
Bearing	g type Anti-friction ball					Accessory - 3						-						
DE / ND	E bearir	ng		620	06-2Z / (	5206-2Z			Ter	minal b	ox posit	ion				TOP		
Lubricat	tion met	thod		G	ireased f	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	R x 3C x 1	10mm²/2 x M2	) x 1.5	
Type of	grease				NA				Aux	kiliary te	erminal	box			Avail	able on Reques	t	

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

 $T_A/T_N$  - Locked Rotor Torque / Rated Torque

 $T_K/T_N$  - Breakdown 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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30				

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### **marathon**<sup>®</sup> Motors

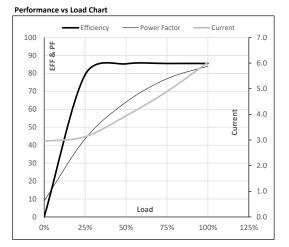


Model No. SCA0032A1141GAA001

Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Y	50	3	4.0	6.0	1434	2.03	19.86	IE2	40	S1	1000	0.0074	41
TEFC	400	Y	50	3	4.0	6.0	1434	2.03	19.86	IE2	40	S1	1000	C	0.0074

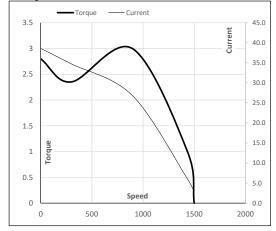
#### Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	3.0	3.1	3.9	4.9	6.0	
Nm	0.0	4.8	9.7	14.7	19.9	
r/min	1500	1485	1470	1453	1434	
%	0.0	79.2	85.3	85.5	85.5	
%	8.9	43.5	64.0	77.0	84.0	
	Nm r/min %	A 3.0   Nm 0.0   r/min 1500   % 0.0	A 3.0 3.1   Nm 0.0 4.8   r/min 1500 1485   % 0.0 79.2	A 3.0 3.1 3.9   Nm 0.0 4.8 9.7   r/min 1500 1485 1470   % 0.0 79.2 85.3	A 3.0 3.1 3.9 4.9   Nm 0.0 4.8 9.7 14.7   r/min 1500 1485 1470 1453   % 0.0 79.2 85.3 85.5	A 3.0 3.1 3.9 4.9 6.0   Nm 0.0 4.8 9.7 14.7 19.9   r/min 1500 1485 1470 1453 1434   % 0.0 79.2 85.3 85.5 85.5



Motor Spee	ed Torque Dat	ta				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	300	896	1434	1500
Current	А	38.6	34.7	26.9	6.0	3.0
Torque	pu	2.8	2.4	3.0	1	0

#### Starting Characteristics Chart



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

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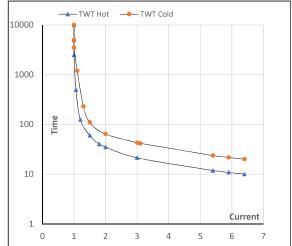
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Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Y	50	3	4.0	6.0	1434	2.03	19.86	IE2	40	S1	1000	0.0074	41

#### Motor Speed Torque Data

Load		FL	$I_1$	I <sub>2</sub>	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	35	21	18	14	11	10
TWT Cold	s	10000	64	43	40	30	22	20
Current	pu	1	2	3	4	5	5.5	6.4

#### Thermal Characteristics Chart



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

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