### **PRODUCT INFORMATION PACKET**

Model No: SCA1P52AG121GAA001 Catalog No: SCA1P52AG121GAA001 TerraMAX® Cast Iron Motor, 2 HP, 3 Ph, 50 Hz, 220/380 V, 1500 RPM, 90L Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E







1 of 7

Product Information Packet: Model No: SCA1P52AG121GAA001, Catalog No:SCA1P52AG121GAA001 TerraMAX® Cast Iron Motor, 2 HP, 3 Ph, 50 Hz, 220/380 V, 1500 RPM, 90L Frame, TEFC

# marathon®

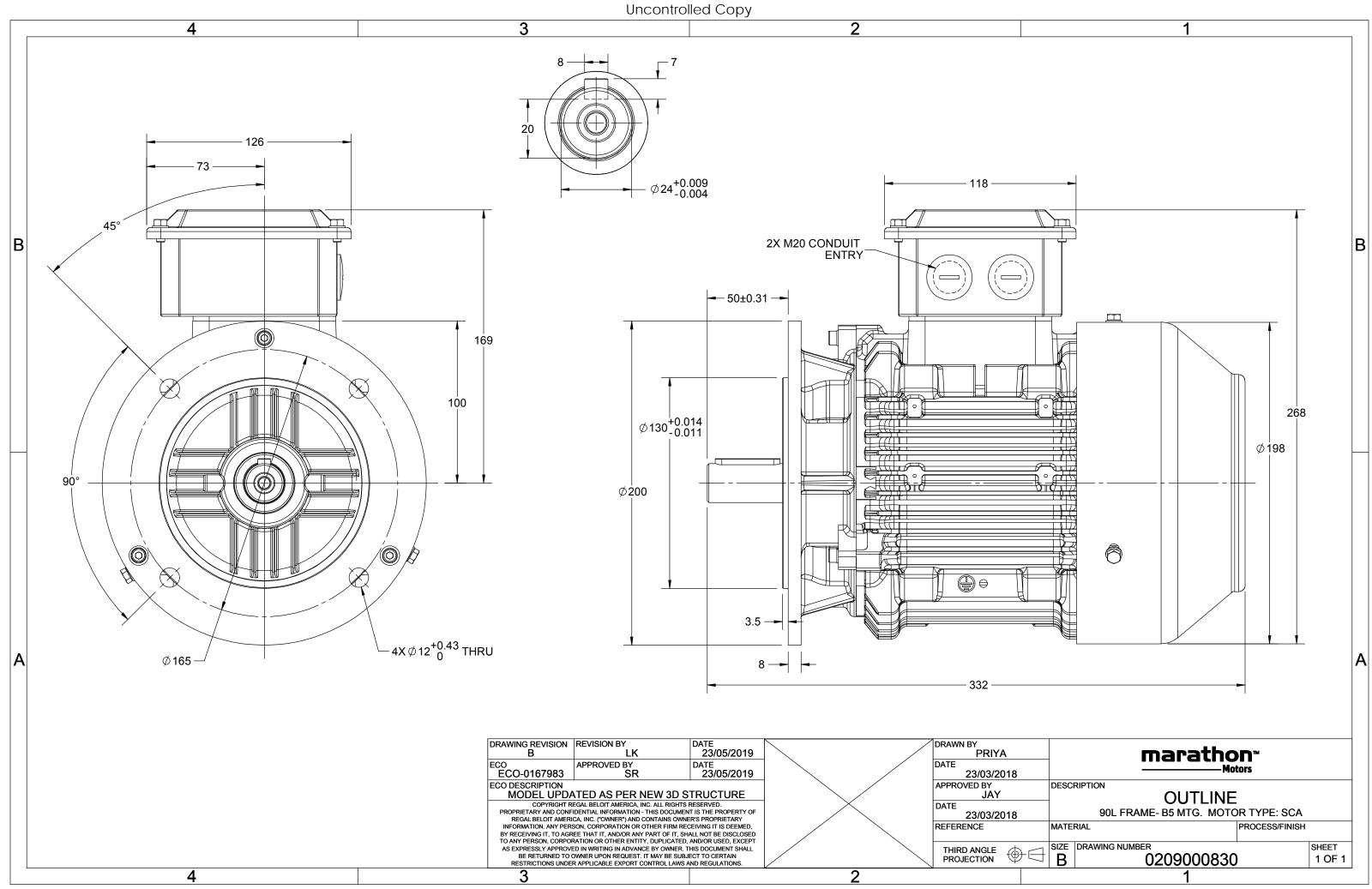
#### Nameplate Specifications

Output HP	2 Нр	Output KW	1.5 kW		
Frequency	50 Hz	Voltage	220/380 V		
Current	3.4 A	Speed	1434 rpm		
Service Factor	1	Phase	3		
Efficiency	82.8 %	Power Factor	0.80		
Duty	S1	Insulation Class	F		
Frame	90L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205		
UL	No	CSA	No		
CE	Yes	IP Code	55		
	163	1 0000			

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	332 mm	Frame Length	153 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0209000830

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 12/01/2022



3 of 7





# **TerraMAX**°

Model No. SCA1P52AG121GAA001

U	$\Delta / Y$	f	Р	Р	I	n	т	IE		% EFF a	t loa	d	PF	at lo	bad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
220/380	Y	50	1.5	2.0	3.4	1434	9.94	IE2	-	82.8	82.8	80.1	0.8	0.72	0.58	6.1	2.8	2.5
••••					SCA											IP 55		
Motor type	2									•	protecti	on				IP 55 IM B5		
Enclosure					TEFC					Mounting type								
Frame Mat	erial				Cast Ir					Cooling method						IC 411 27.7		
Frame size					90L				Motor weight - approx.							kg		
Duty					S1				Gross weight - approx.					28.7			kg	
Voltage var					± 109					Motor inertia						0.0039		kgm <sup>2</sup>
Frequency	variation	۱*			± 5%				Loa	Load inertia				Custo	omer to Provi	de		
Combined	variation	*			10%				Vit	Vibration level					1.6		mm/s	
Design					N				No	ise leve	l ( 1met	er dista	nce fro	m moto	,			dB(A)
Service fact	tor				1.0				No	. of star	ts hot/c	old/Equ	ally spi	read		2/3/4		
Insulation of	lass				F				Sta	irting m	ethod					DOL		
Ambient te	mperatu	ire			-20 to -	+40		°C	Ту	be of co	upling					Direct		
Temperatu	re rise (b	oy resist	tance)		80 [ Clas	s B ]		к	LR	withsta	nd time	(hot/co	ld)			10/20		S
Altitude ab	ove sea l	level			1000	)		meter	Dir	ection o	of rotati	on			В	i-directional		
Hazardous	area clas	sificati	on		NA				Sta	indard r	otation				Cloc	kwise form D	E	
	Zone cl	assifica	ition		NA				Pai	int shad	e					RAL 5014		
	Gas gro	oup			NA				Ac	cessorie	S							
	Tempe	rature	class		NA					Ac	cessory	- 1				-		
Rotor type				Al	uminum l	Die cast				Ac	cessory	- 2				-		
Bearing typ	e			A	nti-frictio	on ball				Ac	cessory	- 3				-		
DE / NDE b				62	05-2Z /	6205-2Z			Ter	Terminal box position					TOP			
Lubrication	method			Ģ	Greased f	or life			Ma	aximum	cable si	ze/cond	nduit size 1R x 3			x 3C x 10mm²/2 x M20 x 1.5		
Type of gre	ase				NA				Au	xiliary to	erminal	box			Availa	able on Requ	est	

 $I_{\rm A}/I_{\rm N}$  - Locked Rotor Current / Rated Current  $T_{\rm A}/T_{\rm N}$  - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$  - 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

 $\ensuremath{^*}$  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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30					

REGAL

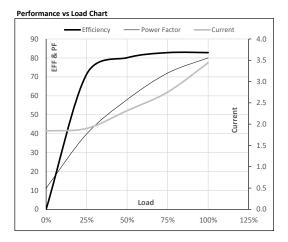
### marathon®



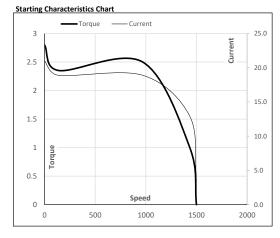
Model No. SCA1P52AG121GAA001

Enclosure	U	$\Delta / Y$	f	Р	Р	I	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	220/380	Y	50	1.5	2.0	3.4	1434	1.01	9.94	IE2	40	S1	1000	0.0039	27.7

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.8	1.9	2.3	2.8	3.4	
Torque	Nm	0.0	2.4	4.8	7.3	9.9	
Speed	r/min	1500	1484	1470	1453	1434	
Efficiency	%	0.0	71.4	80.1	82.8	82.8	
Power Factor	%	11.2	39.8	58.0	72.0	80.0	



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	136	969	1434	1500						
Current	А	21.0	18.9	12.9	3.4	1.8						
Torque	pu	2.8	2.4	2.5	1	0						



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

Issued By Issued Date

REGAL



## **TerraMAX**<sup>®</sup>

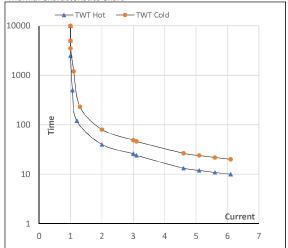
Model No. SCA1P52AG121GAA001

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	220/3	80 Y	50	1.5	2.0	3.4	1434	1.01	9.94	IE2	40	S1	1000	0.0039	27.7

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	l <sub>3</sub>	$I_4$	ا5	LR
TWT Hot	s	10000	39	26	15	12	11	10
TWT Cold	s	10000	75	49	35	24	22	20
Current	pu	1	2	3	4	5	5.5	6.1

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL