## **PRODUCT INFORMATION PACKET**

Model No: SCA1P52A1141GAA001 Catalog No: SCA1P52A1141GAA001 TerraMAX® Cast Iron Motor, 2 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 90L Frame, TEFC



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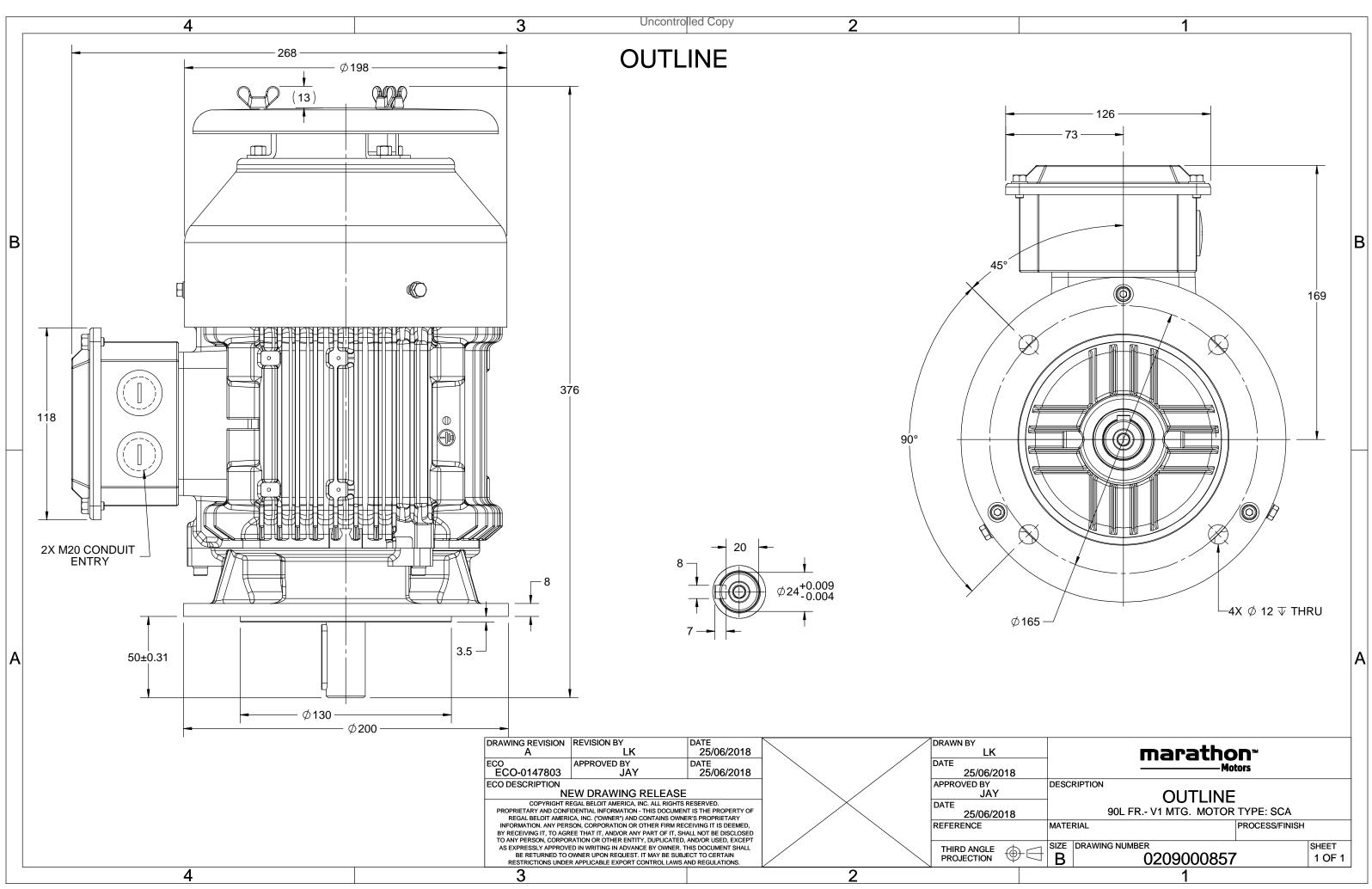
### Nameplate Specifications

Output HP	2 Hp	Output KW	1.5 kW		
Frequency	50 Hz	Voltage	400 V		
Current	3.3 A	Speed	1434 rpm		
Service Factor	1	Phase	3		
Efficiency	82.8 %	Power Factor	0.8		
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	Νο		
CE	Yes	IP Code	55		
Number of Speeds		Efficiency Class	IE2		

### **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	376 mm	Frame Length	153 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0209000857	Connection Drawing	8442000085

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#### Model No. SCA1P52A1141GAA001

$U = \Delta / Y$	f	Р	Р	I	n	Т	IE	1	% EFF a	t load	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]
400 Y	50	1.5	2.0	3.3	1434	9.94	IE2	-	82.8	82.8	80.1	0.8	0.72	0.58	6.1	2.8	2.5
Motor type				SCA				Deg	gree of	protecti	on				IP 55		
Enclosure				TEFC					unting						IM V1		
Frame Material				Cast Iro	on			Cod	oling me	ethod					IC 411		
Frame size				90L				Mo	tor wei	ght - ap	prox.				28.1		kg
Duty				S1				Gro	oss weig	ght - app	rox.				29.1		kg
Voltage variation	n *			± 10%	, ,			Мо	tor iner	tia					0.0039		kgm <sup>2</sup>
Frequency variat	tion *			± 5%				Loa	d inerti	а				Cust	omer to Provi	ide	
Combined variat	tion *			10%				Vib	ration l	evel					1.6		mm/s
Design				Ν				Noi	se leve	( 1mete	er distar	nce fron	n motor	)	56		dB(A)
Service factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulation class				F				Sta	rting m	ethod					DOL		
Ambient temper	rature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Temperature ris	e (by r	esistanc	e)	80 [ Class	5 B ]		К	LR	LR withstand time (hot/cold)					20/10			S
Altitude above s	ea lev	el		1000			meter	Dir	Direction of rotation					Bi-directional			
Hazardous area	classif	ication		NA				Sta	ndard r	otation				Clo	ckwise form D	DE	
Zone cla	ssifica	tion		NA				Pai	nt shad	e					RAL 5014		
Gas grou	ıp			NA				Acc	essorie	s							
Tempera	ature c	lass		NA					Aco	cessory	- 1				PTC 150°C		
Rotor type			A	luminum D	ie cast				Acc	cessory	- 2				-		
Bearing type				Anti-frictio	n ball				Acc	cessory	- 3				-		
DE / NDE bearin	g		62	205-2Z / 6	205-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrication met	hod		(	Greased fo	or life			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 3	10mm²/2 x M	20 x 1.5	
Type of grease				NA				Aux	kiliary te	erminal	box			Avail	able on Requ	est	

 $I_{A}/I_{N}$  - 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	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

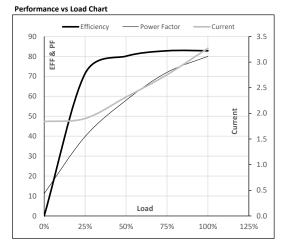


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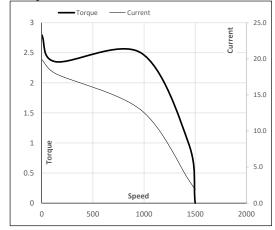
Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Y	50	1.5	2.0	3.3	1434	1.01	9.94	IE2	40	S1	1000	0.0039	28.1

#### Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.8	1.9	2.3	2.8	3.3	
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	



#### Starting Characteristics Chart



Speed r/min 0 Current 19.9 А ри

LR

2.8

P-Up

136

18.0

2.4

BD

969

12.9

2.5

Rated

1434

3.3

1

NL

1500

1.8

0

Motor Speed Torque Data

Load Point

Torque

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

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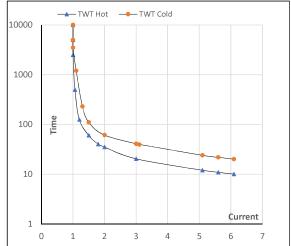
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	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Y	50	1.5	2.0	3.3	1434	1.01	9.94	IE2	40	S1	1000	0.0039	28.1

#### Motor Speed Torque Data

Load		FL	$I_1$	I <sub>2</sub>	I <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	35	20	15	13	11	10
TWT Cold	s	10000	40	41	30	25	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

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