## **PRODUCT INFORMATION PACKET**

Model No: SCA2P21A1131GAA001 Catalog No: SCA2P21A1131GAA001 TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 90L Frame, TEFC



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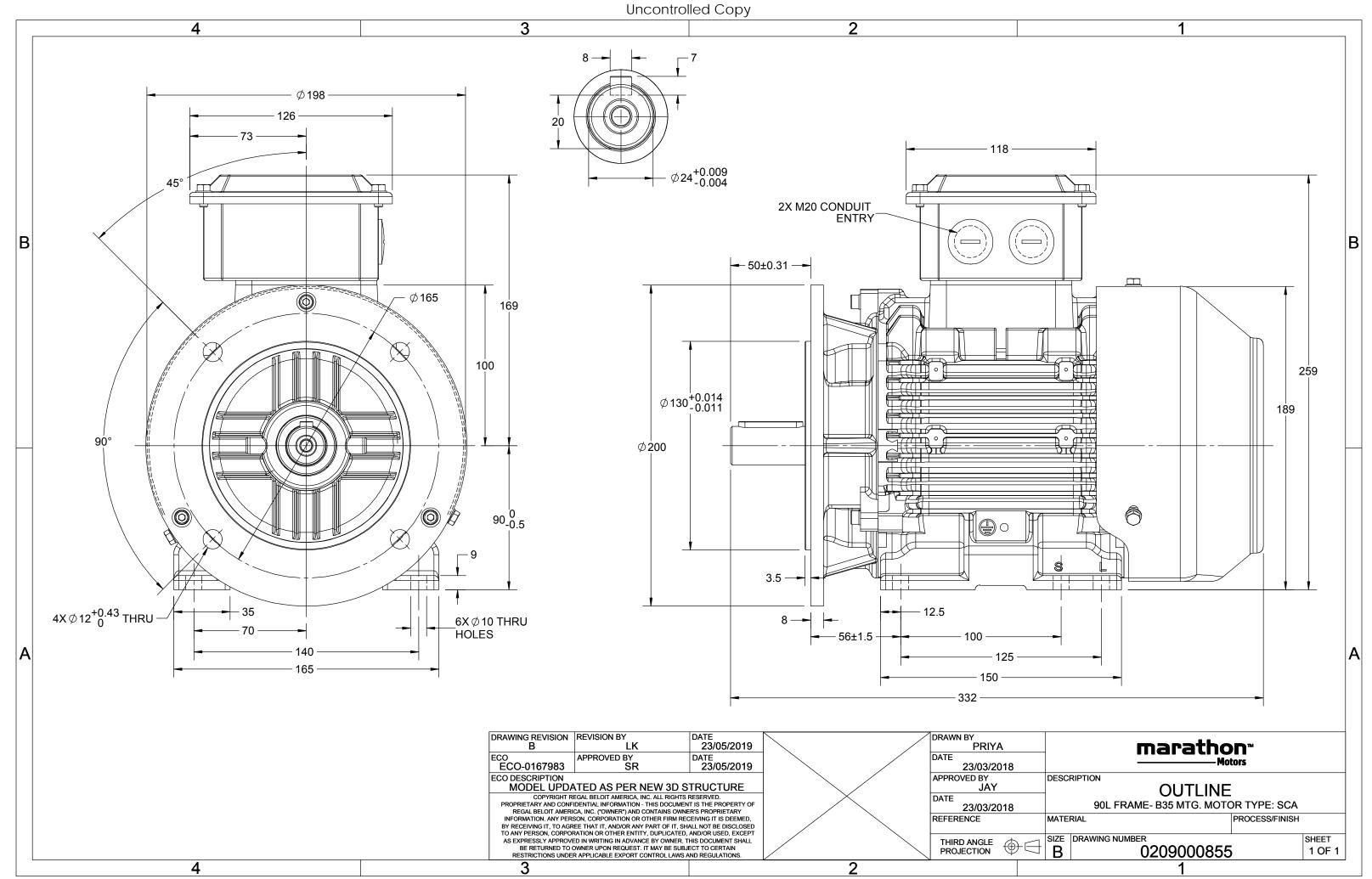
### Nameplate Specifications

Output HP	3 Нр	Output KW	2.2 kW		
Frequency	50 Hz	Voltage	400 V		
Current	4.3 A	Speed	2868 rpm		
Service Factor	1	Phase	3		
Efficiency	83.2 %	Power Factor	0.88		
Duty	S1	Insulation Class	F		
_					
Frame	90L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	90L No Protection	Ambient Temperature	40 °C		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Thermal Protection Drive End Bearing Size	No Protection 6205	Ambient Temperature Opp Drive End Bearing Size	40 °C 6205		

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B35	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		
Outline Drawing	0209000855	Connection Drawing	8442000085

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# **TerraMAX**<sup>®</sup>

Model No. SCA2P21A1131GAA001

U $\Delta / Y$ f	Р	Р	l n	Т	IE	9	6 EFF at	tload	1	PF	at_lo	ad	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	2.2	3.0 4	.3 2868	7.44	IE2	-	83.2	83.2	83	0.88	0.82	0.7	7.2	3.5	3.2
			<b>CO</b>										10.55		
Motor type			SCA			0		protectio	on				IP 55		
Enclosure			TEFC				unting t						IM B35		
Frame Material		Ca	ist Iron				poling method IC 411								
Frame size	90L Motor weight - approx.									27.5		kg			
Duty	S1 Gross weight - approx.								28.5		kg				
Voltage variation *		1	± 10% Motor inertia					0.0023				kgm <sup>2</sup>			
Frequency variation *	ion * ± 5% Load inertia							/ide							
Combined variation *			10% Vibration level					1.6				mm/s			
Design			Ν				Noise level ( 1meter distance from motor)					)	65		dB(A)
Service factor			1.0			No.	No. of starts hot/cold/Equally spread				2/3/4				
Insulation class			F			Star	ting me	nethod DOL							
Ambient temperature		-20	) to +40		°C	Тур	e of cou	upling					Direct		
Temperature rise (by re	esistance)	80 [	Class B ]		К	LR v	vithstar	nd time	(hot/co	ld)	10/6				s
Altitude above sea leve	el .		1000		meter	Dire	ection o	f rotatio	n		Bi-directional				
Hazardous area classific	cation		NA			Star	Standard rotation					Clockwise form DE			
Zone classificati	ion		NA			Pair	Paint shade					RAL 5014			
Gas group			NA			Acce	Accessories								
Temperature cla	ass		NA				Accessory - 1						PTC 150°C		
Rotor type		Alumin	um Die cast				Acc	essory -	2				-		
Bearing type		Anti-f	riction ball				Accessory - 2 Accessory - 3						-		
DE / NDE bearing		6205-22	Z / 6205-2Z			Terr		ox posit					TOP		
Lubrication method			ed for life					cable siz		uit size	1R	x 3C x 3	10mm²/2 x N	Л20 x 1.5	
Type of grease			NA					erminal l	-,	are Size			able on Regi		
. The of Brease			-			7.07									

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

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

 $T_A/T_N$  - 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

 $\ensuremath{^*}$  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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30

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Model No. SCA2P21A1131GAA001

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	2.2	3.0	4.3	2868	0.76	7.44	IE2	40	S1	1000	0.0023	27.5

#### Motor Load Data

Motor Speed Torque Data

r/min

А

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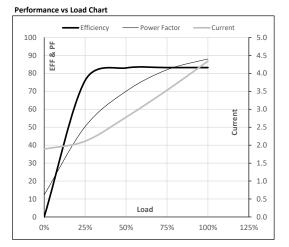
Load Point

Speed

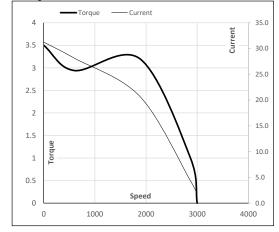
Current

Torque

3.5 4.3 5.5 7.4	
55 74	
515 711	
2905 2868	
83.2 83.2	
82.0 88.0	
	83.2 83.2



#### Starting Characteristics Chart



P-Up

600

28.1

2.9

BD

1882

20.7

3.2

Rated

2868

4.3

1

NL

3000

1.9

0

LR

0

31.2

3.5

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

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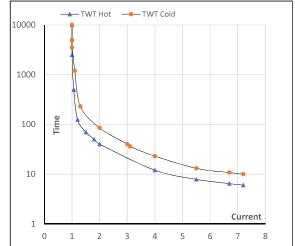
### Model No. SCA2P21A1131GAA001

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 <sup>4</sup>	400	Y	50	2.2	3.0	4.3	2868	0.76	7.44	IE2	40	S1	1000	0.0023	27.5

### 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	40	35	12	10	8	6
TWT Cold	s	10000	85	40	23	16	13	10
Current	pu	1	2	3	4	5	5.5	7.2

### Thermal Characteristics Chart



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

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