## PRODUCT INFORMATION PACKET



Model No: SCA2P22AG131GAA001 Catalog No: SCA2P22AG131GAA001

TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 220/380 V, 1500 RPM, 100L Frame, TEFC





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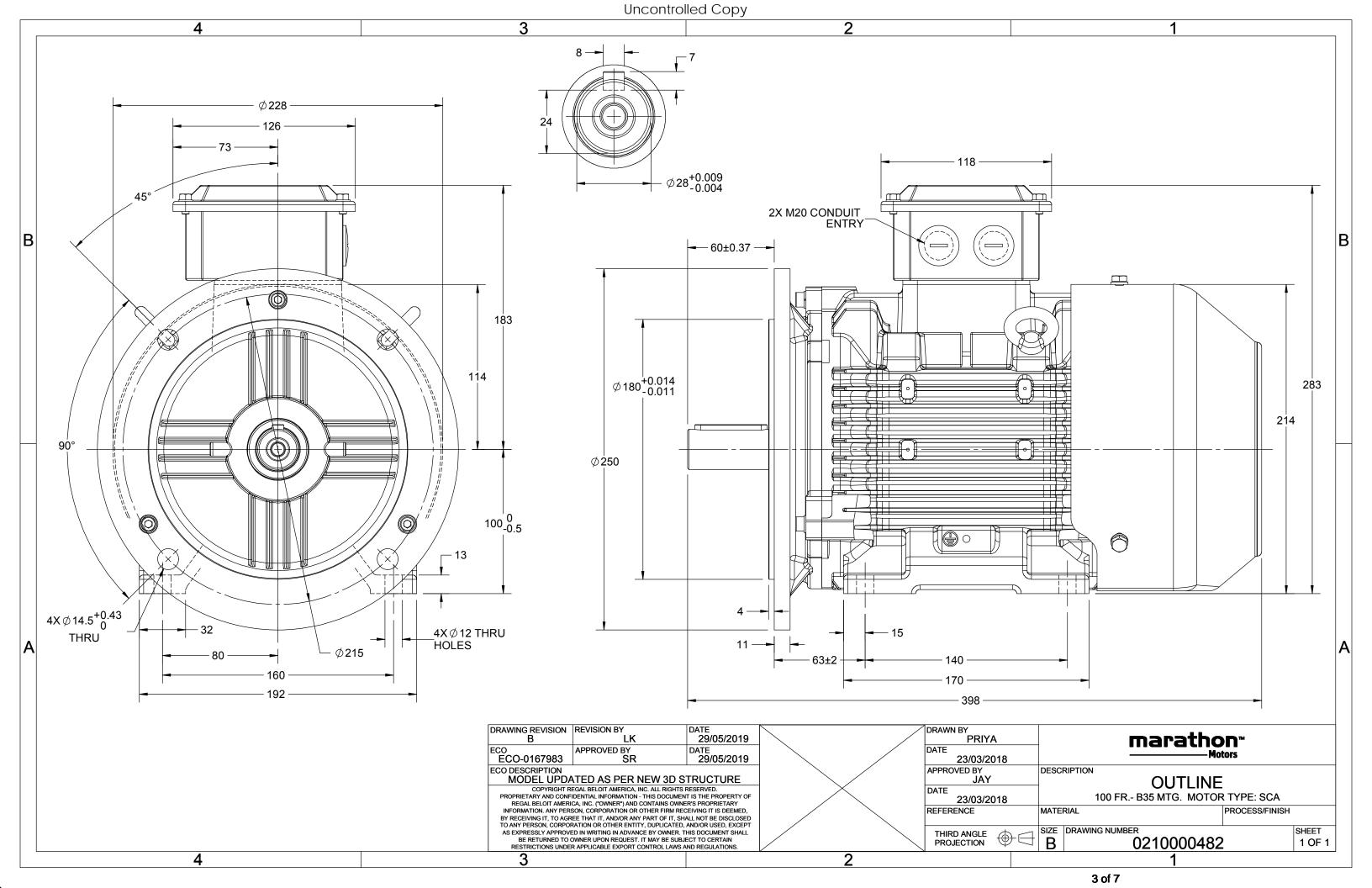
## Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	50 Hz	Voltage	220/380 V
Current	4.9 A	Speed	1441 rpm
Service Factor	1	Phase	3
Efficiency	84.3 %	Power Factor	0.81
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
UL	No	CSA	No
CE	Yes	IP Code	55

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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	398 mm	Frame Length	200 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0210000482	Connection Drawing	8442000085

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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

### **NEW DRAWING RELEASE**

GEOMENTRIC TOLERANCE									
	>0~6	±0.1							
LINEAR DIM	>6~30	±0.2							
	>30~120	±0.3							



## NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017





# Terra MAX<sup>®</sup>

Model No. SCA2P22AG131GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	ΙE	9	% EFF a	t load	t	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	T <sub>A</sub> /T <sub>N</sub>	T <sub>K</sub> /T <sub>N</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]
220/380	Υ	50	2.2	3.0	4.9	1441	14.82	IE2	-	84.3	84.3	82.3	0.81	0.72	0.57	6.4	2.7	3.0

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	100L	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +40	°C
Temperature rise (by resistance)	80 [ Class B ]	K
Altitude above sea level	1000	meter
Hazardous area classification	NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6206-2Z / 6206-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B35	
Cooling method	IC 411	
Motor weight - approx.	37	kg
Gross weight - approx.	40	kg
Motor inertia	0.0062	kgm²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level ( 1meter distance from mo	tor) 58	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	7/15	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	-	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size	1R x 3C x 10mm²/2 x M20 x 1.5	
Auxiliary terminal box	Available on Request	

 $I_A/I_N$  - 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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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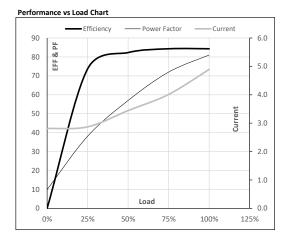




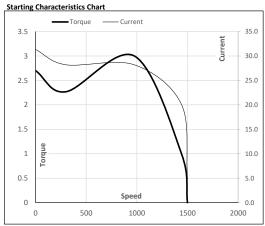
#### Model No. SCA2P22AG131GAA001

Enclosure	U	Δ/Υ	f	Р	Р	1	n	T	T	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	Υ	50	2.2	3.0	4.9	1441	1.51	14.82	IE2	40	S1	1000	0.0062	37

Motor Load Data	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	2.8	2.9	3.4	4.0	4.9	
Torque	Nm	0.0	3.6	7.3	11.0	14.8	
Speed	r/min	1500	1486	1473	1458	1441	
Efficiency	%	0.0	73.7	82.3	84.3	84.3	
Power Factor	%	9.9	38.1	57.0	72.0	81.0	



Motor Speed T	orque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	975	1441	1500	
Current	Α	31.3	28.2	20.1	4.9	2.8	
Torque	pu	2.7	2.3	3.0	1	0	



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

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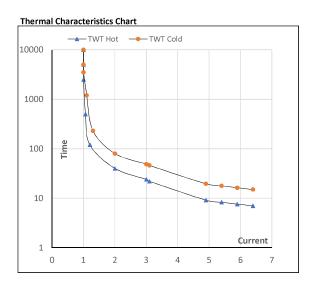




#### Model No. SCA2P22AG131GAA001

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	T	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	220/38	0 Y	50	2.2	3.0	4.9	1441	1.51	14.82	IE2	40	S1	1000	0.0062	37

Motor Speed Torque Data								
Load		FL	$I_1$	$I_2$	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	S	10000	39	26	15	9	8	7
TWT Cold	s	10000	75	49	35	19	17	15
Current	pu	1	2	3	4	5	5.5	6.4



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

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