# PRODUCT INFORMATION PACKET



Model No: SCA5P53A4131GAA001 Catalog No: SCA5P53A4131GAA001

TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 132M Frame, TEFC





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Product Information Packet: Model No: SCA5P53A4131GAA001, Catalog No:SCA5P53A4131GAA001 TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 132M Frame, TEFC



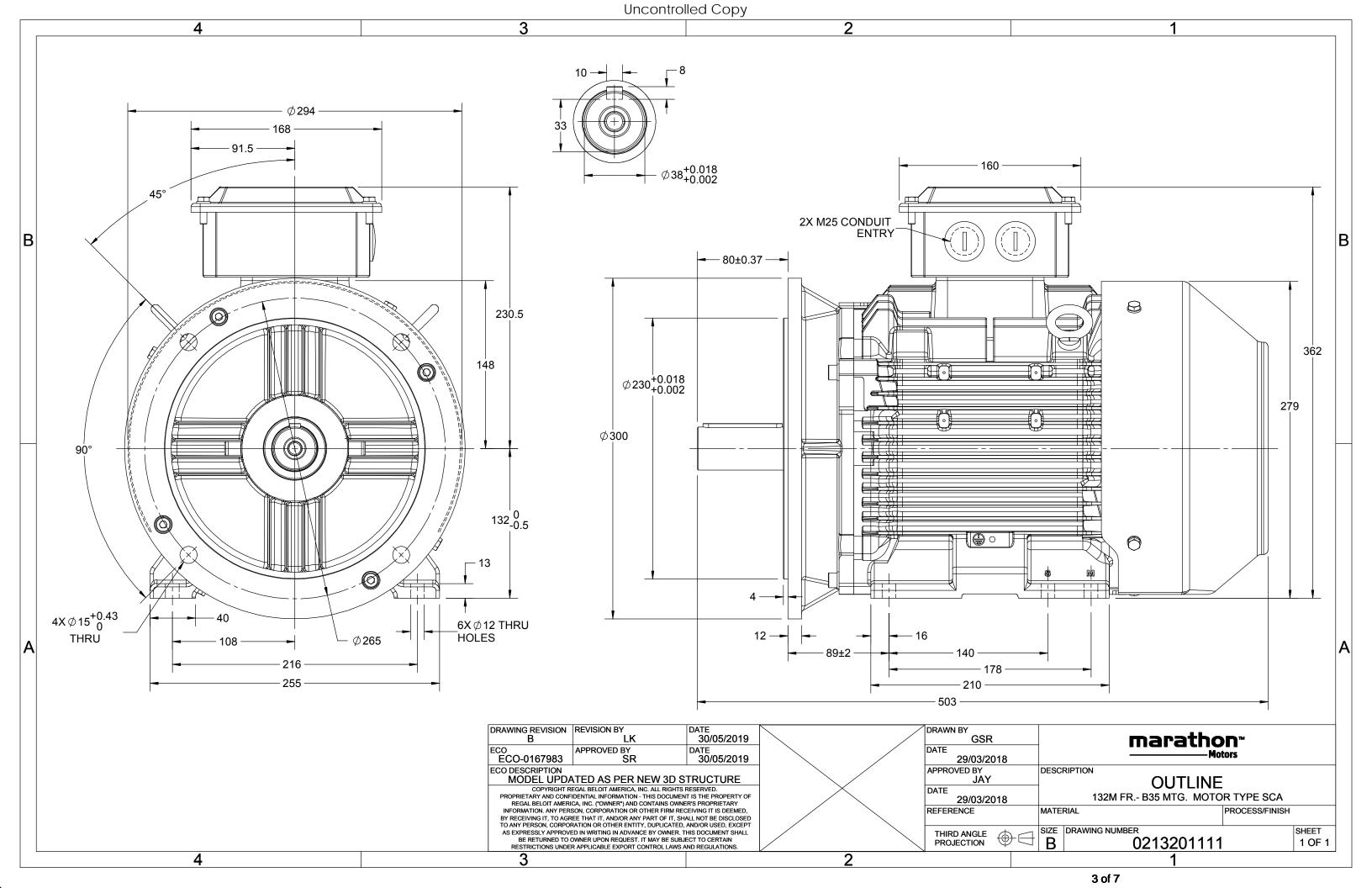
# Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	380/660 V
Current	12.6 A	Speed	956 rpm
Service Factor	1	Phase	3
Efficiency	86 %	Power Factor	0.77
Duty	<b>S</b> 1	Insulation Class	F
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE2

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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	503 mm	Frame Length	240 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0213201111

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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







Model No. SCA5P53A4131GAA001

U	Δ/Υ	f	Р	Р	ı	n	Т	IE	9	6 EFF a	t load		PF	at lo	ad	$I_A/I_N$	$T_A/T_N$	$T_K/T_N$
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380/660	Δ	50	5.5	7.5	12.6	956	55.94	IE2	-	86	86	85.3	0.77	0.69	0.57	6.7	3.1	3.2

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	132M	
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	6308-2Z / 6208-2Z	
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.	94	kg
Gross weight - approx.	97	kg
Motor inertia	0.0332	kgm²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level ( 1meter distance from mote	or) 59	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	15/30	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 16mm <sup>2</sup> /2 x M25 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<sub>K</sub>/T<sub>N</sub> - 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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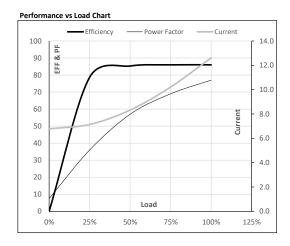




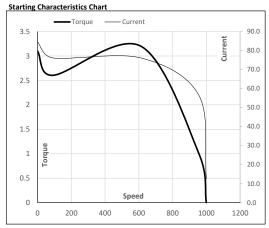
## Model No. SCA5P53A4131GAA001

Enclosure	U	Δ/Υ	f	Р	Р	I	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	380/660	Δ	50	5.5	7.5	12.6	956	5.70	55.94	IE2	40	S1	1000	0.0332	94

Motor Load Data	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	6.8	7.1	8.3	10.2	12.6	
Torque	Nm	0.0	13.5	27.3	41.4	55.9	
Speed	r/min	1000	990	980	969	956	
Efficiency	%	0.0	78.7	85.3	86.0	86.0	
Power Factor	%	7.5	36.0	57.0	69.0	77.0	



Motor Speed T	orque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	612	956	1000	
Current	Α	84.6	76.1	56.4	12.6	6.8	
Torque	pu	3.1	2.6	3.2	1	0	



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

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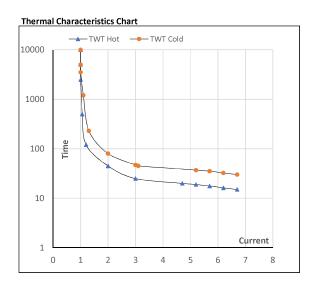




## Model No. SCA5P53A4131GAA001

Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	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	380/66	60 Y	50	5.5	7.5	12.6	956	5.70	55.94	IE2	40	S1	1000	0.0332	94

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	45	25	23	20	18	15
TWT Cold	s	10000	80	47	46	40	36	30
Current	pu	1	2	3	4	5	5.5	6.7



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

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