# PRODUCT INFORMATION PACKET



Model No: SCA0042A4121GAA001 Catalog No: SCA0042A4121GAA001

TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 112M Frame, TEFC





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Product Information Packet: Model No: SCA0042A4121GAA001, Catalog No:SCA0042A4121GAA001 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 112M Frame, TEFC



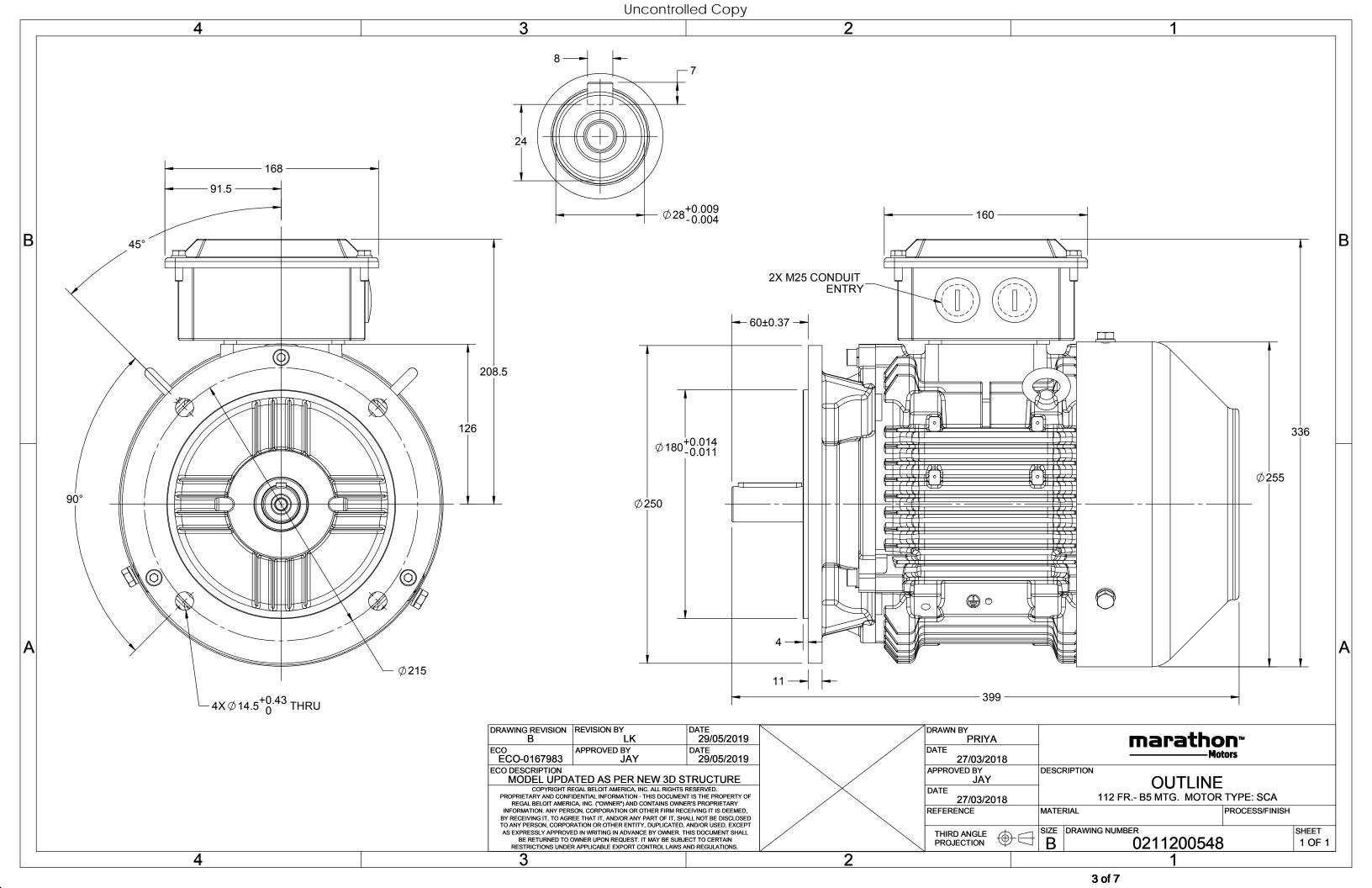
## Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	8.4 A	Speed	1450 rpm
Service Factor	1	Phase	3
Efficiency	86.6 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6206
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	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	399 mm	Frame Length	174 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0211200548	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**

GEOM	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.	SCA0042A4121GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	6 EFF a	t load	b	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	4	5.5	8.4	1450	27.01	IE2	-	86.6	86.6	86.5	0.84	0.77	0.64	7.3	2.7	3.0

Motor type	SCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	112M	
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	6306-2Z / 6206-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B5	
Cooling method	IC 411	
Motor weight - approx.	51	kg
Gross weight - approx.	54	kg
Motor inertia	0.0145	kgm <sup>2</sup>
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level ( 1meter distance from motor)	61	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 16mm²/2 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

 $T_K/T_N$  - 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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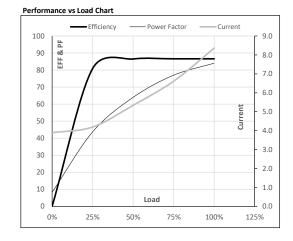




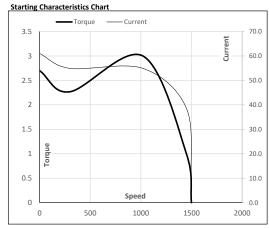
#### Model No. SCA0042A4121GAA001

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	380/660	Δ	50	4	5.5	8.4	1450	2.75	27.01	IE2	40	S1	1000	0.0145	51

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	3.9	4.2	5.3	6.6	8.4	
Torque	Nm	0.0	6.6	13.3	20.1	27.0	
Speed	r/min	1500	1488	1477	1464	1450	
Efficiency	%	0.0	80.9	86.5	86.6	86.6	
Power Factor	%	8.2	43.7	64.0	77.0	84.0	



Motor Speed Torque Data							
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1020	1450	1500	
Current	Α	61.0	54.9	38.6	8.4	3.9	
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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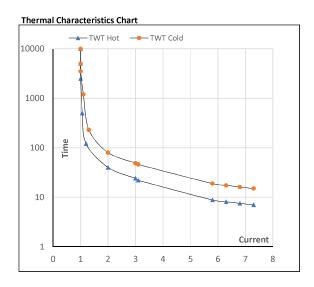




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(V)         Conn         [Hz]         [kW]         [hp]         [A]         [rpm]         [kgm]         [Nm]         Class         [°C]         [m]         [kg-m²]           TEFC         380/660 Δ         50         4         5.5         8.4         1450         2.75         27.01         IE2         40         S1         1000         0.0145	Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
TEFC 380/660 Δ 50 4 5.5 8.4 1450 2.75 27.01 IE2 40 S1 1000 0.0145		(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
	TEFC	380/66	50 Δ	50	4	5.5	8.4	1450	2.75	27.01	IE2	40	S1	1000	0.0145	51

Motor Speed	ue Data							
Load		FL	$I_1$	$I_2$	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	S	10000	39	26	17	13	11	7
TWT Cold	s	10000	75	49	35	26	23	15
Current	pu	1	2	3	4	5	5.5	7.3



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

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