# PRODUCT INFORMATION PACKET



Model No: SCA0223A4121GAA001 Catalog No: SCA0223A4121GAA001

TerraMAX® Cast Iron Motor, 30 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 200L Frame, TEFC





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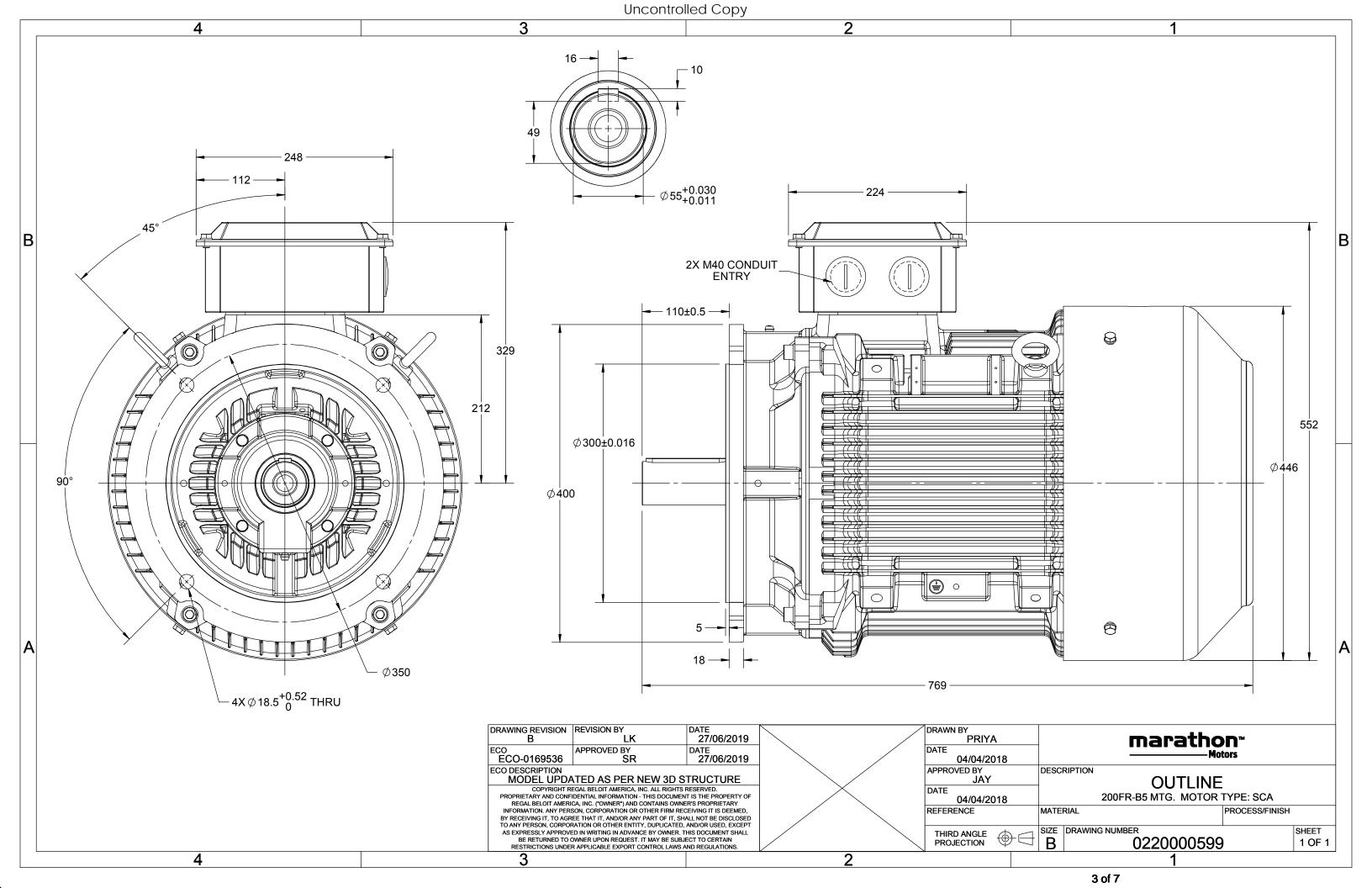
# Nameplate Specifications

Output HP	30 Hp	Output KW	22.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	44.3 A	Speed	977 rpm
Service Factor	1	Phase	3
Efficiency	90.9 %	Power Factor	0.83
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212
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	B5	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	769 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0220000599	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	ENTRIC TOLE	RANCE
	>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







U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	6 EFF at	t load	t	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	22	30	44.3	977	218.67	IE2	-	90.9	90.9	91.4	0.83	0.79	0.69	5.3	1.8	2.2

SCA	
TEFC	
Cast Iron	
200L	
S1	
± 10%	
± 5%	
10%	
N	
1.0	
F	
-20 to +40	°C
80 [ Class B ]	K
1000	meter
NA	
NA	
NA	
NA	
Aluminum Die cast	
Anti-friction ball	
6312 C3 / 6212 C3	
Regreasable	
CHEVRON SRI-2 or Equivalent	
	Cast Iron 200L 51 ± 10% ± 5% 10% N 1.0 F -20 to +40 80 [ Class B ] 1000 NA NA NA NA Aluminum Die cast Anti-friction ball 6312 C3 / 6212 C3 Regreasable

Degree of protection	IP 55	
Mounting type	IM B5	
Cooling method	IC 411	
Motor weight - approx.	277	kg
Gross weight - approx.	307	kg
Motor inertia	0.3694	kgm²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level ( 1meter distance from motor)	65	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 50mm <sup>2</sup> /2 x M40 x 1.5	
Auxiliary terminal box	Available on Request	

 $\rm I_A/I_N$  - 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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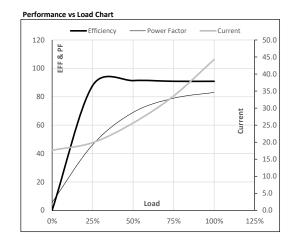




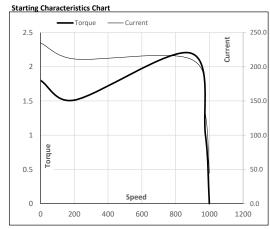
#### Model No. SCA0223A4121GAA001

Enclosure	U	Δ/Υ	f	Р	Р	I	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	380/660	Δ	50	22	30	44.3	977	22.30	218.67	IE2	40	S1	1000	0.3694	277

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	17.6	19.9	25.6	33.6	44.3	
Torque	Nm	0.0	53.7	108.0	162.9	218.7	
Speed	r/min	1000	995	990	984	977	
Efficiency	%	0.0	87.9	91.4	90.9	90.9	
Power Factor	%	5.6	46.2	69.0	79.0	83.0	



Motor Speed	Torque Data					
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	200	888	977	1000
Current	Α	234.8	211.3	129.8	44.3	17.6
Torque	pu	1.8	1.5	2.2	1	0



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

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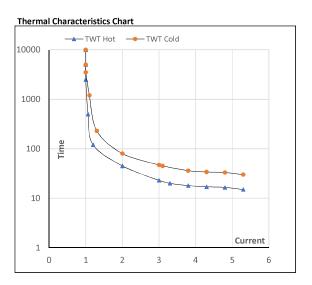




#### Model No. SCA0223A4121GAA001

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	380/66	Ο Δ	50	22	30	44.3	977	22.30	218.67	IE2	40	S1	1000	0.3694	277

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	23	18	17	16	15			
TWT Cold	s	10000	80	47	36	34	33	30			
Current	pu	1	2	3	4	4.5	5	5.3			



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

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