# PRODUCT INFORMATION PACKET



Model No: SCA0303A4121GAA001 Catalog No: SCA0303A4121GAA001

TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 225M Frame, TEFC



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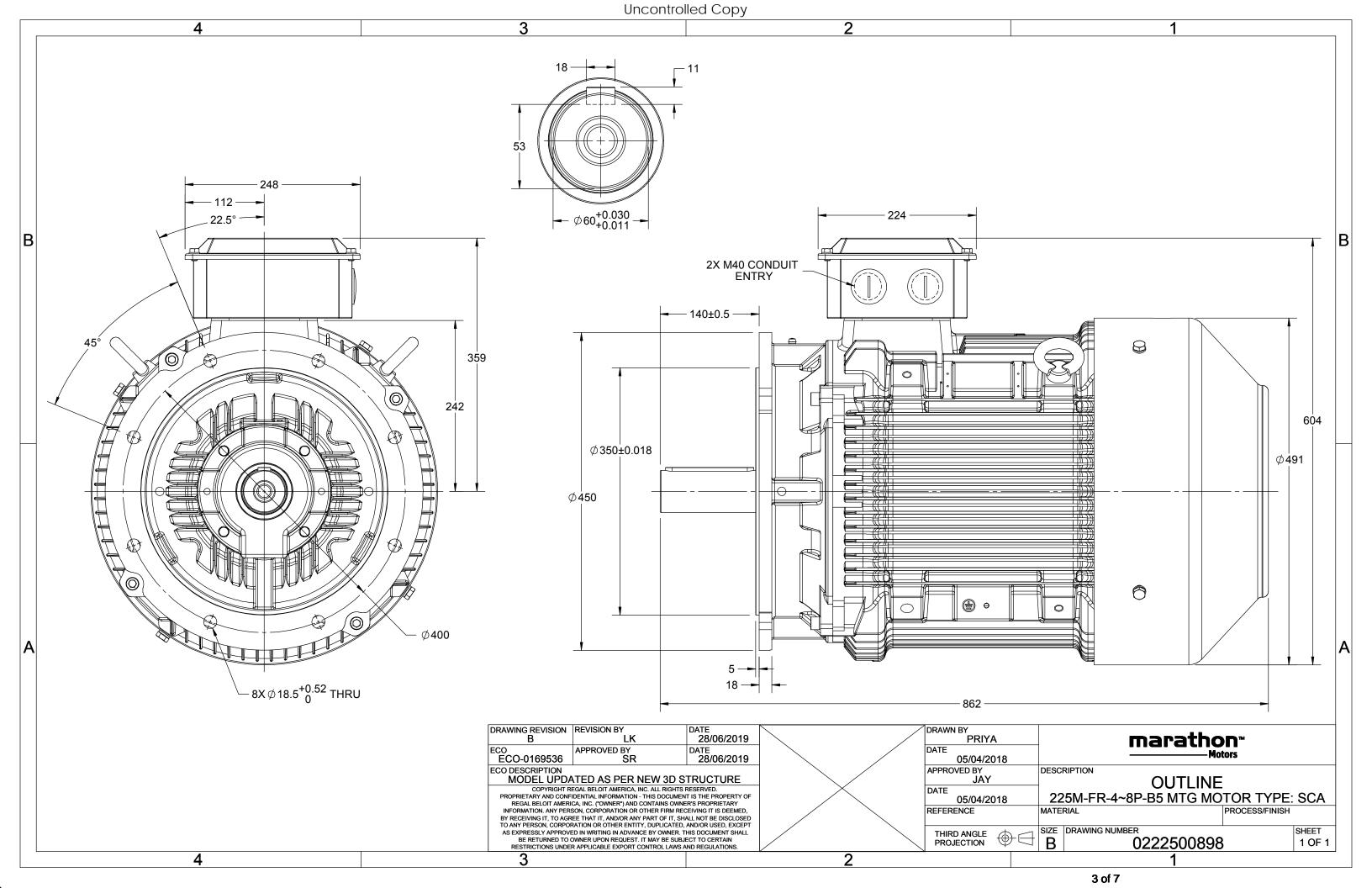
## Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	59.9 A	Speed	983 rpm
Service Factor	1	Phase	3
Efficiency	91.7 %	Power Factor	0.83
Duty	S1	Insulation Class	F
Frame	225M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213
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	C3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	862 mm	Frame Length	425 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0222500898

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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	I	n	Т	IE	9	6 EFF at	t load	t	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_K/T_N$
(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	30	40	59.9	983	289.89	IE2	-	91.7	91.7	92.6	0.83	0.8	0.7	5.6	2.0	2.3

SCA	
TEFC	
Cast Iron	
225M	
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	
6313 C3 / 6213 C3	
Regreasable	
CHEVRON SRI-2 or Equivalent	
	TEFC Cast Iron 225M S1 ±10% ±59% 10% N 1.0 F -20 to +40 80 [ Class B ] 1000 NA NA NA NA Aluminum Die cast Anti-friction ball 6313 C3 / 6213 C3 Regreasable

Degree of protection	IP 55	
Mounting type	IM B5	
Cooling method	IC 411	
Motor weight - approx.	386	kg
Gross weight - approx.	416	kg
Motor inertia	0.7554	kgm²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level ( 1meter distance from motor)	66	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	

 $I_A/I_N$  - 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

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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<sup>\*</sup> Voltage, Frequency and combine variation are as per IEC60034-1

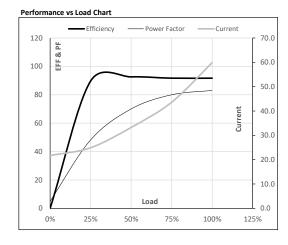




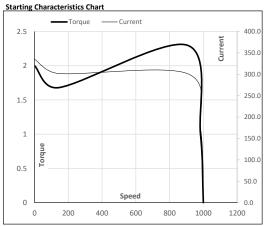
#### Model No. SCA0303A4121GAA001

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	30	40	59.9	983	29.56	289.89	IE2	40	S1	1000	0.7554	386

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	21.7	24.9	33.2	43.6	59.9	
Torque	Nm	0.0	71.5	143.6	216.3	289.9	
Speed	r/min	1000	996	992	988	983	
Efficiency	%	0.0	89.7	92.6	91.7	91.7	
Power Factor	%	5.0	48.2	70.0	80.0	83.0	



Motor Speed	Torque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	143	904	983	1000	
Current	Α	335.4	301.8	173.7	59.9	21.7	
Torque	pu	2.0	1.7	2.3	1	0	



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

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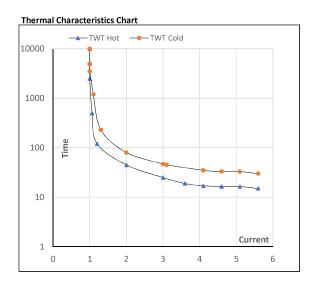




Model No. SCA0303A4121GAA001

Enclosure	U	Δ/Υ	f	Р	Р	ı	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	380/66	0 Δ	50	30	40	59.9	983	29.56	289.89	IE2	40	S1	1000	0.7554	386

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	18	17	16	15		
TWT Cold	s	10000	80	47	37	32	31	30		
Current	pu	1	2	3	4	5	5.5	5.6		



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

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