### **PRODUCT INFORMATION PACKET**

Model No: SCA0041A4131GAA001 Catalog No: SCA0041A4131GAA001 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 380/660 V, 3000 RPM, 112M Frame, TEFC



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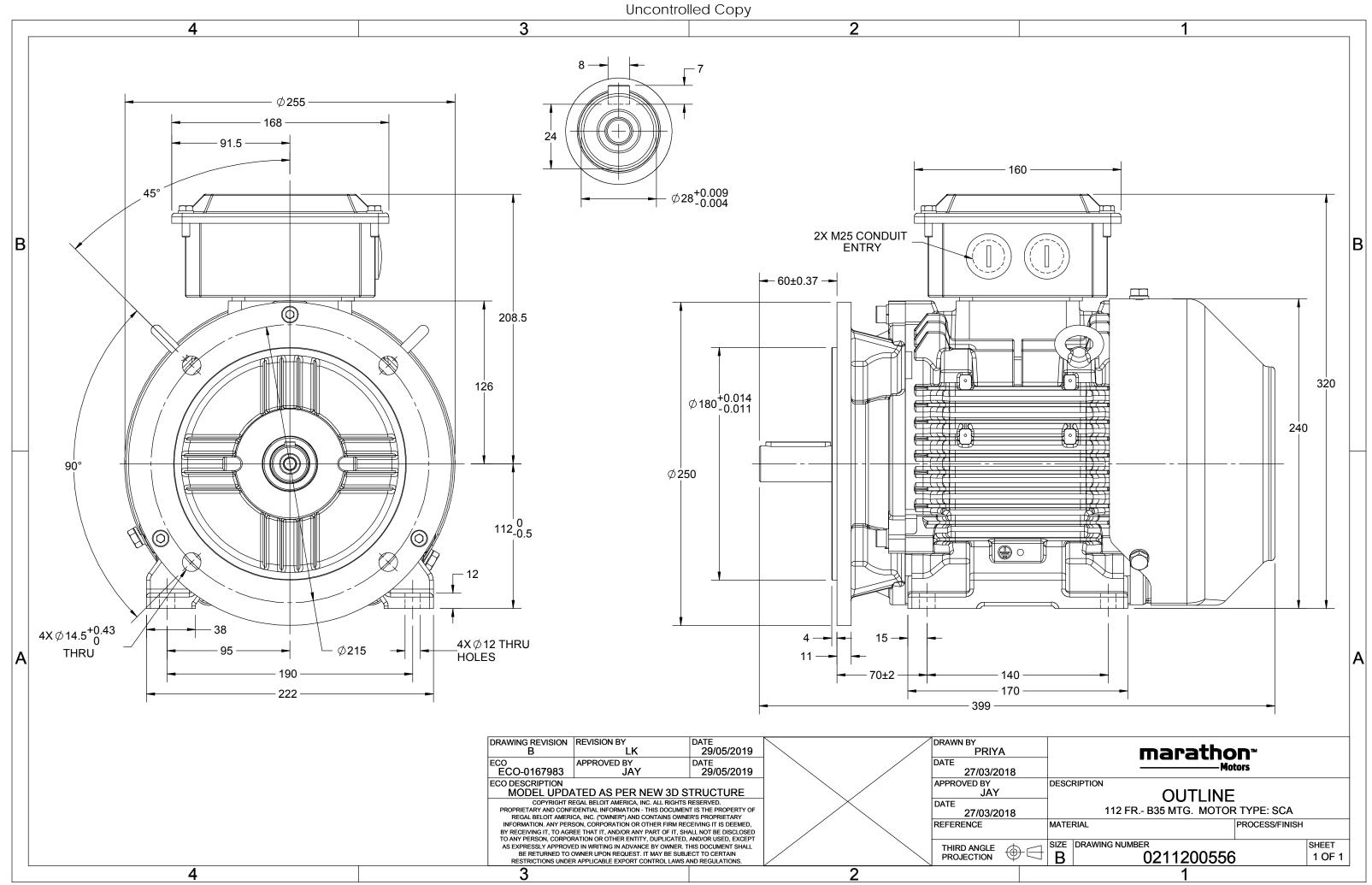
#### Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	7.6 A	Speed	2864 rpm
Service Factor	1	Phase	3
Efficiency	85.8 %	Power Factor	0.93
Duty	S1	Insulation Class	F
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	112M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6306	Ambient Temperature Opp Drive End Bearing Size	40 °C 6206

#### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	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	399 mm	Frame Length	174 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0211200556

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U	$\Delta / Y$	f	Р	Ρ	I.	n	Т	IE	9	% EFF a	t load	ł	PF	at _ lo	ad	$I_A/I_N$	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(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	7.6	2864	13.66	IE2	-	85.8	85.8	88	0.93	0.9	0.82	6.72	2.7	2.9

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B35	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	112M		Motor weight - approx.	47	kg
Duty	S1		Gross weight - approx.	50	kg
Voltage variation *	± 10%		Motor inertia	0.0050	kgm <sup>2</sup>
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	1.6	mm/s
Design	Ν		Noise level ( 1meter distance from moto	or) 66	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +40	°C	Type of coupling	Direct	
Temperature rise (by resistance)	80 [ Class B ]	К	LR withstand time (hot/cold)	6/10	S
Altitude above sea level	1000	meter	Direction of rotation	<b>Bi-directional</b>	
Hazardous area classification	NA		Standard rotation	Clockwise form DE	
Zone classification	NA		Paint shade	RAL 5014	
Gas group	NA		Accessories		
Temperature class	NA		Accessory - 1	-	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6306-2Z / 6206-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size	.R x 3C x 16mm²/2 x M25 x 1.5	
Type of grease	NA		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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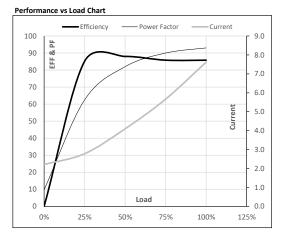
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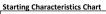
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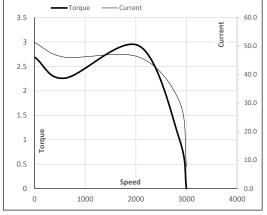
Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	380/660	Δ	50	4	5.5	7.6	2864	1.39	13.66	IE2	40	S1	1000	0.0050	47

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.2	2.8	4.1	5.7	7.6	
Torque	Nm	0.0	3.3	6.7	10.1	13.7	
Speed	r/min	3000	2969	2939	2904	2864	
Efficiency	%	0.0	85.2	88.0	85.8	85.8	
Power Factor	%	9.7	62.5	82.0	90.0	93.0	



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	600	2064	2864	3000					
Current	А	51.2	46.1	30.4	7.6	2.2					
Torque	pu	2.7	2.3	2.9	1	0					





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

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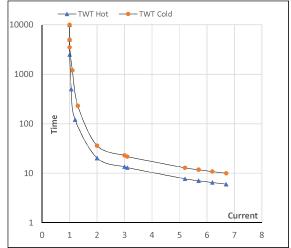
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						1	IE	Amb	Duty	Elevation	Inertia	Weight
Conn [H:	] [kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
) Δ 50	4	5.5	7.6	2864	1.39	13.66	IE2	40	S1	1000	0.0050	47

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	$I_3$	I <sub>4</sub>	I <sub>5</sub>	LR
TWT Hot	s	10000	23	15	10	8	7	6
TWT Cold	s	10000	36	24	17	15	13	10
Current	pu	1	2	3	4	5	5.5	6.7

Thermal Characteristics Chart



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

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