# **PRODUCT INFORMATION PACKET**

Model No: SCA1602A1111GAA001 Catalog No: SCA1602A1111GAA001 TerraMAX® Cast Iron Motor, 215 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 315L Frame, TEFC



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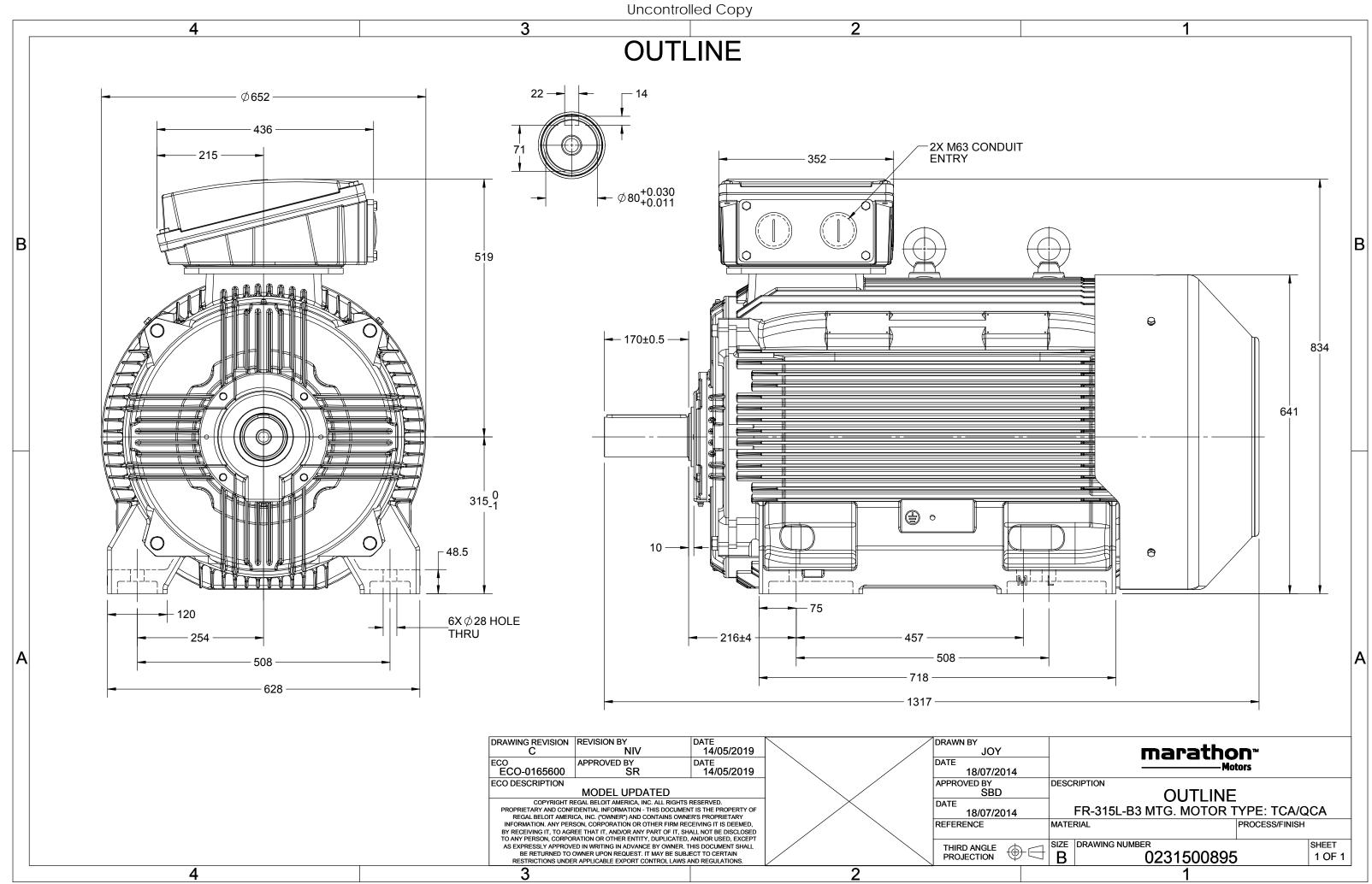
## Nameplate Specifications

Output HP	215 Hp	Output KW	160.0 kW
Frequency	50 Hz	Voltage	400 V
Current	276.5 A	Speed	1487 rpm
Service Factor	1	Phase	3
Efficiency	94.9 %	Power Factor	0.88
Duty	S1	Insulation Class	F
Frame	315L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319
UL	No	CSA	Νο
CE	Yes	IP Code	55
	100		

# **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1317 mm	Frame Length	840 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0231500895	Connection Drawing	8442000085

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# **TerraMAX**<sup>®</sup>

### Model No. SCA1602A1111GAA001

U	$\Delta / Y$	f	Р	Р	I	n	Т	IE	9	6 EFF a	t load	ł	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400	Δ	50	160	215	276.5	1487	1029.81	IE2	-	94.9	94.9	95.5	0.88	0.86	0.79	6.3	1.9	2.8
Motor	type				SCA				Deg	ree of	orotectio	าท				IP 55		

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B3	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	315L		Motor weight - approx.	1086	kg
Duty	S1		Gross weight - approx.	1131	kg
Voltage variation *	± 10%		Motor inertia	3.9773	kgm <sup>2</sup>
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.8	mm/s
Design	Ν		Noise level ( 1meter distance from mot	or) 69	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	e) 80 [ Class B ]	К	LR withstand time (hot/cold)	30/15	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	PTC 150°C	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6319 C3 / 6319 C3		Terminal box position	ТОР	
Lubrication method	Regreasable		Maximum cable size/conduit size	LR x 3C x 240mm²/2 x M63 x 1.5	
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	Available on Request	

 $I_{\text{A}}/I_{\text{N}}$  - Locked Rotor Current / Rated Current

 $T_{K}/T_{N}$  - Breakdown Torque / Rated Torque

 $\rm T_A/T_N$  - Locked Rotor 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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30				

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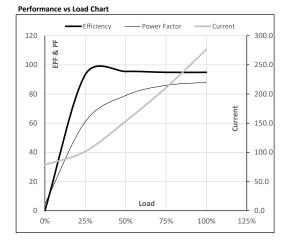
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### Model No. SCA1602A1111GAA001

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	400	Δ	50	160	215	276.5	1487	105.01	1029.81	IE2	40	S1	1000	3.9773	1086

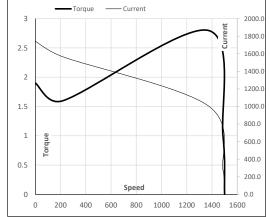
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	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	78.6	101.6	153.5	210.9	276.5	
Nm	0.0	255.7	512.5	770.5	1029.8	
r/min	1500	1497	1494	1490	1487	
%	0.0	93.3	95.5	94.9	94.9	
%	4.7	61.0	79.0	86.0	88.0	
	A Nm r/min %	NL   A 78.6   Nm 0.0   r/min 1500   % 0.0	NL 1/4FL   A 78.6 101.6   Nm 0.0 255.7   r/min 1500 1497   % 0.0 93.3	NL 1/4FL 1/2FL   A 78.6 101.6 153.5   Nm 0.0 255.7 512.5   r/min 1500 1497 1494   % 0.0 93.3 95.5	NL 1/4FL 1/2FL 3/4FL   A 78.6 101.6 153.5 210.9   Nm 0.0 255.7 512.5 770.5   r/min 1500 1497 1494 1490   % 0.0 93.3 95.5 94.9	NL 1/4FL 1/2FL 3/4FL FL   A 78.6 101.6 153.5 210.9 276.5   Nm 0.0 255.7 512.5 770.5 1029.8   r/min 1500 1497 1494 1490 1487   % 0.0 93.3 95.5 94.9 94.9



#### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	214	1368	1487	1500
Current	А	1742.2	1568.0	1010.3	276.5	78.6
Torque	pu	1.9	1.6	2.8	1	0

#### Starting Characteristics Chart



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

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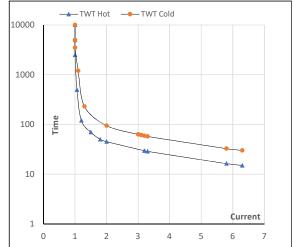
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Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	160	215	276.5	1487	105.01	1029.81	IE2	40	S1	1000	3.9773	1086

#### Motor Speed Torque Data

Load		FL	$I_1$	I <sub>2</sub>	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	S	10000	45	36	27	25	20	15
TWT Cold	s	10000	61	60	55	45	40	30
Current	pu	1	2	3	4	5	5.5	6.3

#### Thermal Characteristics Chart



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

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