### **PRODUCT INFORMATION PACKET**

Model No: SCA3552A4111GAA001 Catalog No: SCA3552A4111GAA001 TerraMAX® Cast Iron Motor, 475 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 355L Frame, TEFC



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Motors



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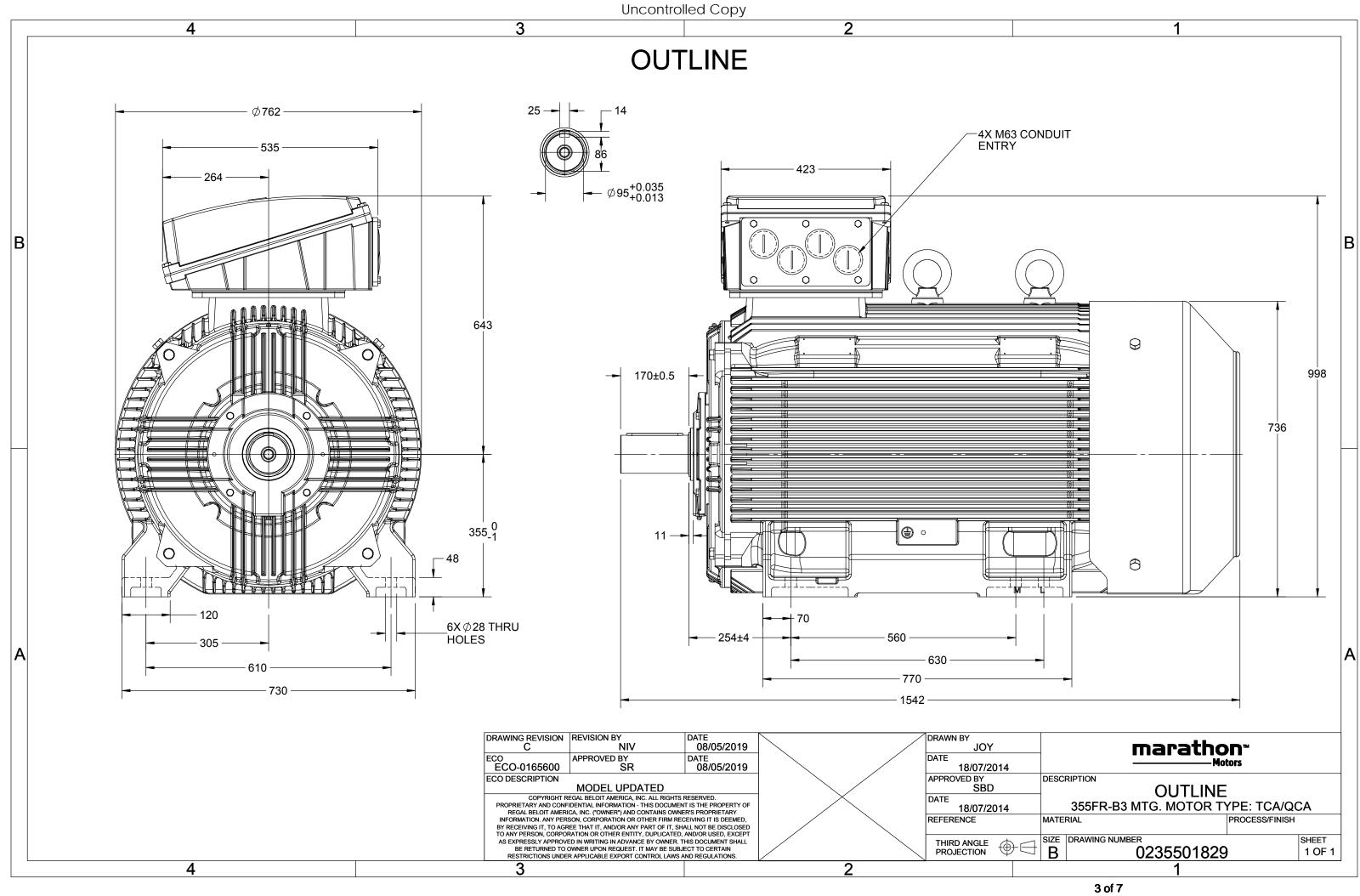
#### Nameplate Specifications

Output HP	475 Hp	Output KW	355.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	630.2 A	Speed	1490 rpm
Service Factor	1	Phase	3
Efficiency	95.1 %	Power Factor	0.90
Duty	S1	Insulation Class	F
Frame	355L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	355L 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 6322	Ambient Temperature Opp Drive End Bearing Size	40 °C 6322

#### **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	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1542 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0235501829	Connection Drawing	8442000085

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U	$\Delta / Y$	f	Р	Р	I.	n	Т	IE	9	% EFF a	t load	ł	PI	at lo	bad	$I_A/I_N$	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(∨)	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	355	475	630.2	1490	2269.81	IE2	-	95.1	95.1	96.2	0.9	0.88	0.83	6.9	2.1	2.5

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B3	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	355L		Motor weight - approx.	1978	kg
Duty	S1		Gross weight - approx.	2023	kg
Voltage variation *	± 10%		Motor inertia	10.9453	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 moto	or) 82	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)	15/30	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	6322 C3 / 6322 C3		Terminal box position	ТОР	
Lubrication method	Regreasable		Maximum cable size/conduit size 1	R x 3C x 300mm²/4 x M63 x 1.5	i
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	Available on Request	

 $I_{\rm A}/I_{\rm N}$  - Locked Rotor Current / Rated Current  $T_{\rm A}/T_{\rm N}$  - 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 dat	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					



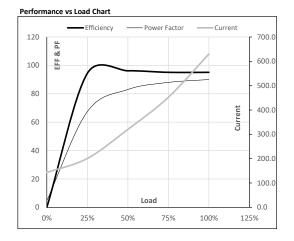
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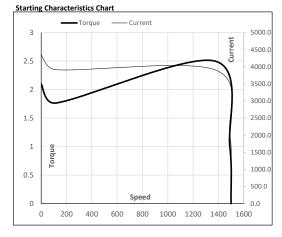
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Enclosure	U (V)	$\Delta / Y$ Conn	f [Hz]	P [kW]	P [hp]	۱ [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb	Duty	Elevation [m]	Inertia [kg-m <sup>2</sup> ]	Weight [kg]
TEFC	380/660	Δ	50	355	475	630.2	1490	231.46	2269.81	IE2	40	\$1	1000	10.9453	1978

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	143.1	200.9	320.2	452.2	630.2	
Torque	Nm	0.0	564.6	1131.0	1699.3	2269.8	
Speed	r/min	1500	1498	1495	1493	1490	
Efficiency	%	0.0	94.4	96.2	95.1	95.1	
Power Factor	%	4.7	67.4	83.0	88.0	90.0	



	LR P-I	Up BE	D Rate	d NL	
min	0 11	15 137	71 1490	1500	
A 43	48.2 391	3.4 205	0.9 630.2	2 143.1	
pu 2	2.1 1	.8 2.	5 1	0	
	A 43	A 4348.2 391	A 4348.2 3913.4 205	A 4348.2 3913.4 2050.9 630.2	A 4348.2 3913.4 2050.9 630.2 143.1



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

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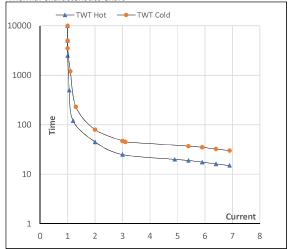
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								IE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn [ŀ	Hz] [kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC 380/66	0Δ 5	50 355	475	630.2	1490	231.45	2269.81	IE2	40	S1	1000	10.9453	1978

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	$I_3$	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	45	25	23	19	18	15
TWT Cold	s	10000	80	47	46	37	36	30
Current	pu	1	2	3	4	5	5.5	6.9

Thermal Characteristics Chart



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

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