## **PRODUCT INFORMATION PACKET**

Model No: SCA3552A1121GAA001 Catalog No: SCA3552A1121GAA001 TerraMAX® Cast Iron Motor, 475 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 355L Frame, TEFC



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marathon<sup>®</sup>

Motors

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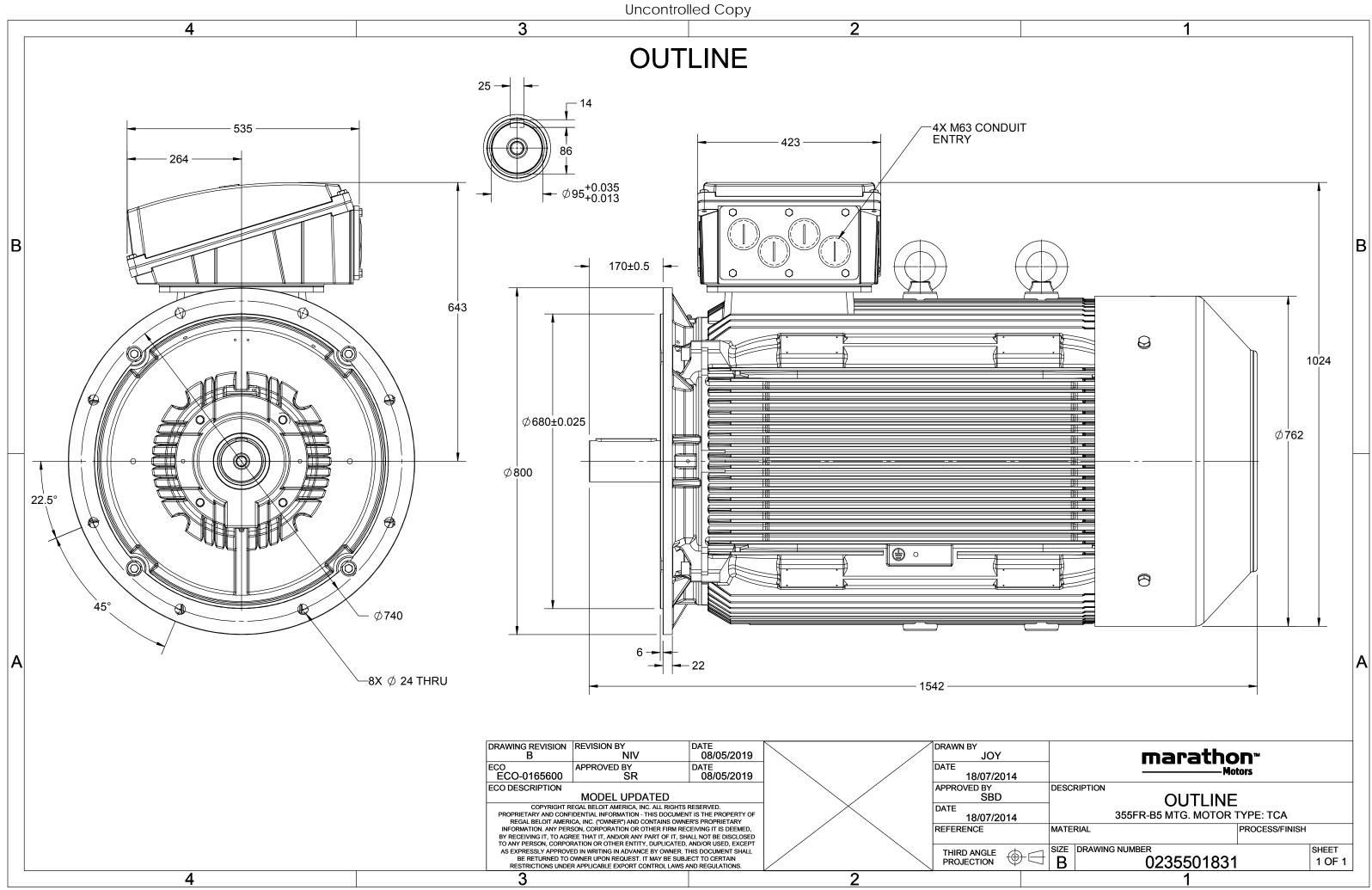
### Nameplate Specifications

Output HP	475 Hp	Output KW	355.0 kW
Frequency	50 Hz	Voltage	400 V
Current	598.7 A	Speed	1490 rpm
Service Factor	1	Phase	3
Efficiency	95.1 %	Power Factor	0.9
Duty	S1	Insulation Class	F
Frame	355L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322
UL	No	CSA	No
CE	Yes	IP Code	55
	103		

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	4	Rotation	Bi-Directional	
Mounting	B5	Motor Orientation	Horizontal	
Drive End Bearing	C3	Opp Drive End Bearing	С3	
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			
Connection Drawing	8442000085	Outline Drawing	0235501831	

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3 of 7





## **TerraMAX**<sup>®</sup>

**Bi-directional** 

Clockwise form DE

RAL 5014

PTC 150°C

-

ТОР

1R x 3C x 300mm²/4 x M63 x 1.5

Available on Request

#### Model No. SCA3552A1121GAA001

U	$\Delta / Y$	f	Р	Р	1	n	т	IE	c		t load	4	D	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	T <sub>K</sub> /T <sub>N</sub>
			-	-	1													
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	-	1/2FL	FL		1/2FL	[pu]	[pu]	[pu]
400	Δ	50	355	475	598.7	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				Deg	Degree of protection						IP 55		
Enclos	ure				TEFC			Mounting typ								IM B5		
Frame	Material				Cast Irc	n		Cooling method					IC 411					
Frame	size				355L			Motor weight - approx.					1967		kg			
Duty					S1				Gro	ss weig	ht - app	rox.				2012		kg
Voltag	e variatio	on *			± 10%				Mo	tor iner	tia					10.9453		kgm <sup>2</sup>
Freque	ncy varia	ation *			± 5%				Loa	d inerti	а				Custo	omer to Prov	vide	
Combi	ned varia	tion *			10%				Vib	ration le	evel					2.8		mm/s
Design					Ν			Noise level ( 1m			(1mete	er distan	nce from	n motor)	)	82		dB(A)
Service	factor				1.0				No. of starts hot/cold/Equally spread				ead		2/3/4			
Insulat	ion class				F				Star	ting me	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	40		°C	Тур	e of cou	upling					Direct		
Tempe	rature ri	se (by r	esistanc	e)	80 [ Class	B]		К	LR	vithstar	nd time	(hot/col	ld)			30/15		s

meter

I<sub>A</sub>/I<sub>N</sub> - Locked Rotor Current / Rated Current  $T_{\text{A}}/T_{\text{N}}$  - Locked Rotor Torque / Rated Torque

Zone classification

Temperature class

Altitude above sea level

Gas group

Rotor type

Bearing type

DE / NDE bearing

Type of grease

Lubrication method

Hazardous area classification

 $T_K/T_N$  - Breakdown Torque / Rated Torque

Accessory - 1

Accessory - 2

Accessory - 3

Maximum cable size/conduit size

Terminal box position

Auxiliary terminal box

Direction of rotation

Standard rotation

Paint shade

Accessories

#### NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

1000

NA

NA

NA

NA

Aluminum Die cast

Anti-friction ball

6322 C3 / 6322 C3

Regreasable

CHEVRON SRI-2 or Equivalent

\* Voltage, Frequency and combine variation are as per IEC60034-1

Technical dat	a are subject to change	e. There may be disc	repancies 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

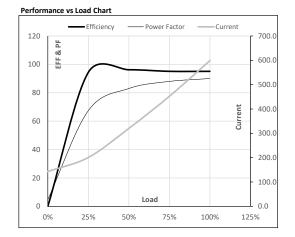
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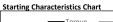
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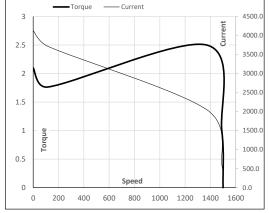
Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	355	475	598.7	1490	231.46	2269.81	IE2	40	S1	1000	10.9453	1967

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	143.1	200.9	320.2	452.2	598.7	
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	



Motor Speed T	orque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	115	1371	1490	1500	
Current	А	4130.8	3717.7	2050.9	598.7	143.1	
Torque	pu	2.1	1.8	2.5	1	0	





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

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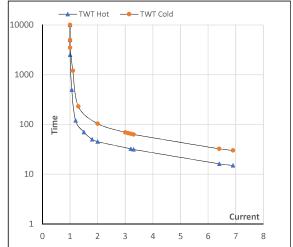
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Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	355	475	598.7	1490	231.45	2269.81	IE2	40	S1	1000	10.9453	1967

#### Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	45	36	30	25	20	15
TWT Cold	s	10000	67	66	60	45	40	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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