## **PRODUCT INFORMATION PACKET**

Model No: SCA0304A3143GAAD01 Catalog No: SCA0304A3143GAAD01 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 250M Frame, TEFC



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Product Information Packet: Model No: SCA0304A3143GAAD01, Catalog No:SCA0304A3143GAAD01 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 250M Frame, TEFC

# marathon®

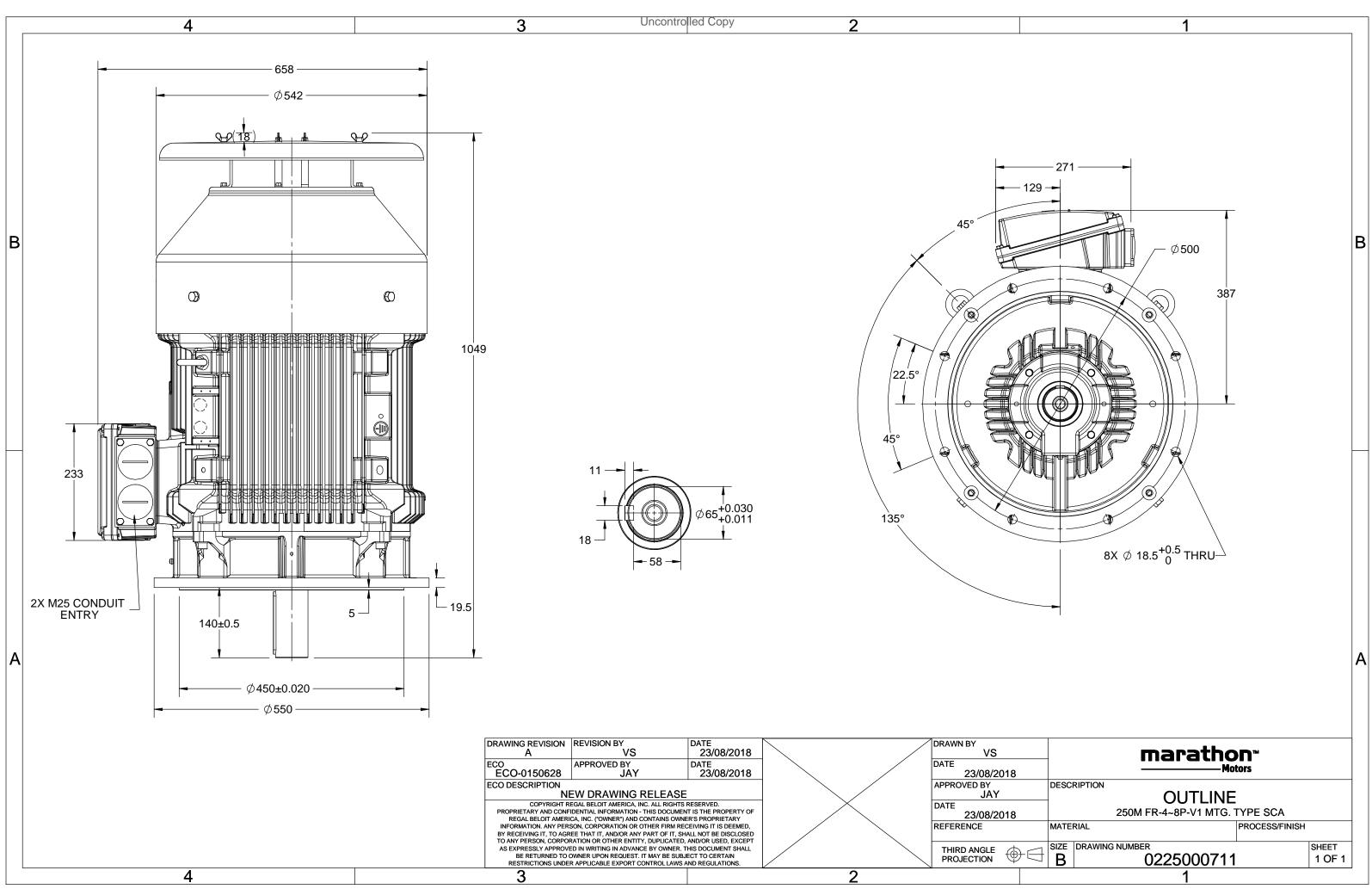
### Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	415 V
Current	60.8 A	Speed	739 rpm
Service Factor	1	Phase	3
Efficiency	89.8 %	Power Factor	0.7646
Duty	S1	Insulation Class	F
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	250M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 50 °C
Thermal Protection	No Protection	Ambient Temperature	50 °C
Thermal Protection Drive End Bearing Size	No Protection 6314	Ambient Temperature Opp Drive End Bearing Size	50 °C 6314

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	8	Rotation	Bi-Directional	
Mounting	V1	Motor Orientation	Shaft Down	
Drive End Bearing	C3	Opp Drive End Bearing	C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	1049 mm	Frame Length	460 mm	
Shaft Diameter	65 mm	Shaft Extension	140 mm	
Assembly/Box Mounting	TOP			
Outline Drawing	0225000711	Connection Drawing	8442000085	

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# **TerraMAX**<sup>®</sup>

Model No. SCA0304A3143GAAD01

(V)   Conn   [Hz]   [kW]   [hp]   [A]   [RPM]   [Nm]   Class   5/4FL   FL   3/4FL   1/2FL   FL   3/4FL   1/2FL   [pu]	U	$\Delta / Y$	f	Р	Р		n	т	IE		% EFF a	t load	ł	PF	at lo	bad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	T <sub>K</sub> /T <sub>N</sub>
415   A   50   30   40   60.4   739   385.83   IE2   -   89.8   90.8   0.77   0.71   0.58   4.9   1.9   2.4     Motor type   SCA   SCA   Degree of protection   IP 55   IP 55 <t< td=""><td>-</td><td></td><td>[Hz]</td><td></td><td></td><td>[A]</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	-		[Hz]			[A]													
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• • • • • • • • • • • • • • • • • • • •		0	d			Regrease	able							luit size	1R	x 3C x 9	95mm²/2 x M5	50 x 1.5	
				Sh	ell Gadu			alent								Avail	able on Reque	st	

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

 $T_A/T_N$  - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$  - 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 data	are subject to chan	ge. There may be discrepa	ncies between calculated and	name plate values.		
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	-	IS 12615 : 2018	-	-	-

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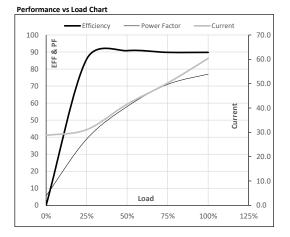
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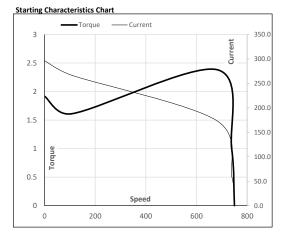
Model No. SCA0304A3143GAAD01

Enclosure	U (V)	$\Delta / Y$ Conn	f [Hz]	P [kW]	P [hp]	۱ [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m <sup>2</sup> ]	Weight [kg]
TEFC	415	Δ	50	30	40	60.4	739	39.34	385.83	IE2	50	S1	1000	2.1617	564

Motor Load Dat	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	28.7	31.1	41.6	50.2	60.4	
Torque	Nm	0.0	95.4	191.4	288.2	385.8	
Speed	r/min	750	747	745	742	739	
Efficiency	%	0.0	85.8	90.8	89.8	89.8	
Power Factor	%	5.6	38.9	58.0	71.0	77.0	



Motor Speed 1	Forque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	107	680	739	750	
Current	А	296.4	266.8	174.0	60.4	28.7	
Torque	pu	1.9	1.6	2.4	1	0	



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

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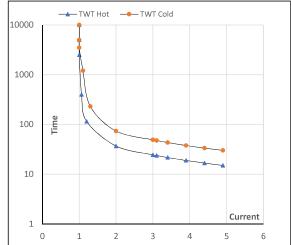
#### Model No. SCA0304A3143GAAD01

Enclosure	U	$\Delta / Y$	f	Р	Ρ	Ι	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	415	Δ	50	30	40	60.4	739	39.34	385.83	IE2	50	S1	1000	2.1617	564

#### 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	37	25	21	18	16	15
TWT Cold	s	10000	74	49	42	36	32	30
Current	pu	1	2	3	3.5	4	4.5	4.9

#### Thermal Characteristics Chart



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

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