## **PRODUCT INFORMATION PACKET**

Model No: SCA2503A4141GAA001 Catalog No: SCA2503A4141GAA001 TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 355L Frame, TEFC



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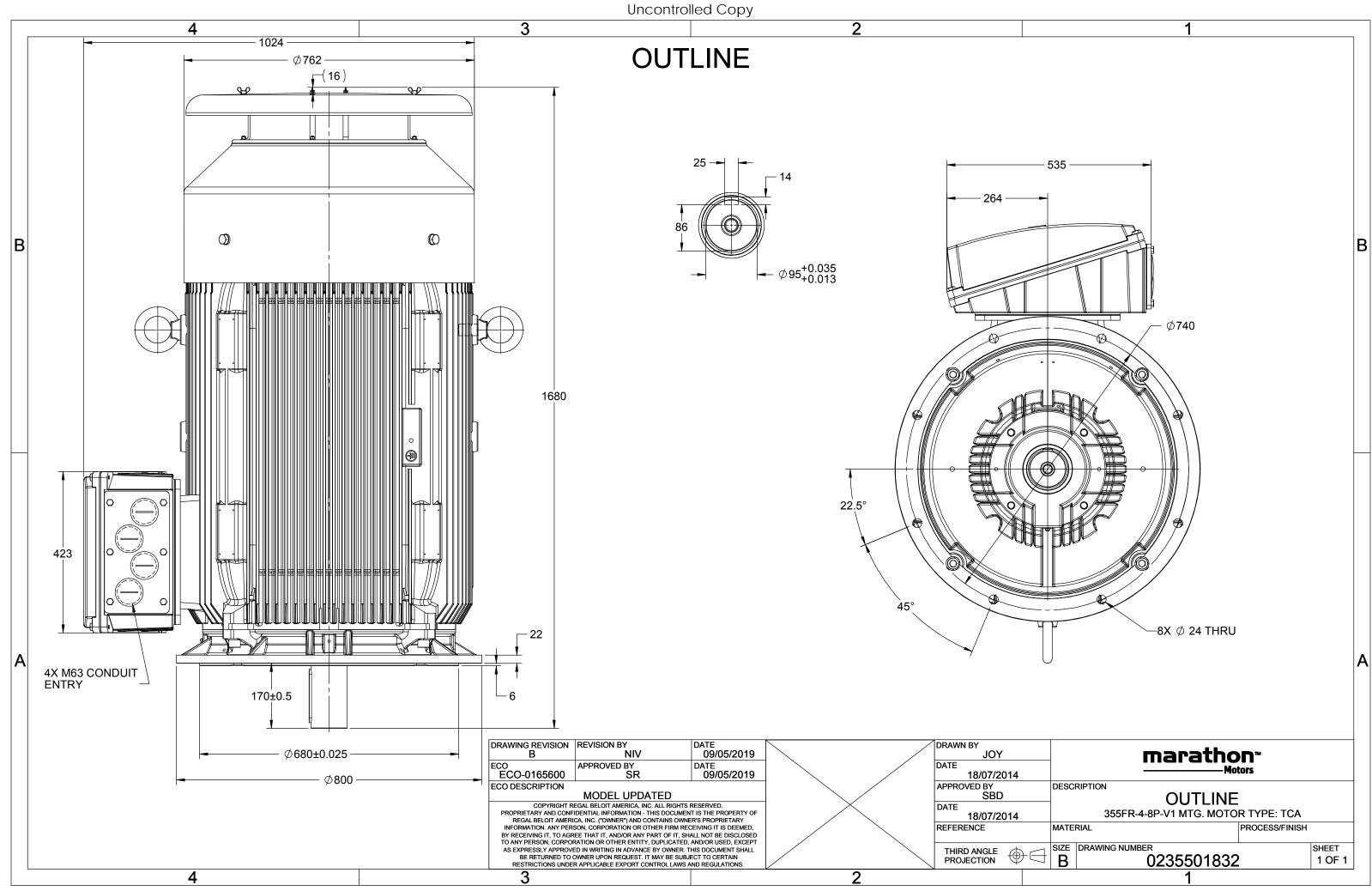
#### Nameplate Specifications

Output HP	335 Hp	Output KW	250.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	459.6 A	Speed	991 rpm
Service Factor	1	Phase	3
Efficiency	95 %	Power Factor	0.87
Duty	S1	Insulation Class	F
Frame	355L	Enclosure	Totally Enclosed Fan Cooled
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
		-	
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1680 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0235501832	Connection Drawing	8442000085

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#### Model No. SCA2503A4141GAA001

$U  \Delta / Y  f$	Р	Р	I	n	Т	IE	%	5 EFF a	t loa	t	PF	at lo	bad	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]
380/660 <b>∆</b> 50	250	335	459.6	991	2408.3	IE2	-	95	95	95.7	0.87	0.84	0.76	6.1	2.0	2.4
Motor type			SCA				Deg	ree of	protecti	on				IP 55		
Enclosure	TEFC						Μοι	unting	type					IM V1		
Frame Material			Cast Irc	on			Coo	ling me	ethod					IC 411		
Frame size			355L				Mot	Motor weight - approx.						1862		kg
Duty			S1				Gross weight - approx.						1907			kg
Voltage variation *			± 10%	6			Motor inertia							11.7080		kgm <sup>2</sup>
Frequency variation *			± 5%				Load inertia						Cust	omer to Provid	de	
Combined variation *	ation * 10%					Vibr	Vibration level						2.8		mm/s	
Design			Ν				Nois	Noise level (1meter distance from motor)					.)	70		dB(A)
Service factor			1.0				No.	of star	f starts hot/cold/Equally spread				2/3/4			
Insulation class			F				Star	ting m	ethod					DOL		
Ambient temperature	2		-20 to +	40		°C	Туре	e of co	upling					Direct		
Temperature rise (by	resistanc	e)	80 [ Class	s B ]		К	LR w	vithsta	nd time	(hot/co	ld)			30/15		S
Altitude above sea lev	/el		1000			meter	Dire	ction c	of rotation	on			B	Bi-directional		
Hazardous area classif	fication		NA				Stan	dard r	otation				Clo	ckwise form D	E	
Zone classif	fication		NA				Pain	t shad	е					RAL 5014		
Gas group			NA				Acce	essorie	S							
Temperatu	re class		NA					Acc	cessory	- 1				-		
Rotor type		Alı	uminum D	Die cast				Acc	cessory	- 2				-		
Bearing type		А	nti-frictio	on ball				Acc	cessory	- 3				-		
DE / NDE bearing		63	22 C3 / 6	322 C3			Terr	ninal b	ox posit	ion				ТОР		
Lubrication method			Regreasa	able			Max	imum	cable si	ze/cond	uit size	1R	x 3C x 3	800mm²/4 x M	63 x 1.5	
Type of grease		CHEVRO	DN SRI-2 o	or Equiva	ent		Auxi	liary te	erminal	box			Avail	lable on Reque	est	

 $I_A/I_N$  - Locked Rotor Current / Rated Current

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

 $T_{\text{A}}/T_{\text{N}}$  - 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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30



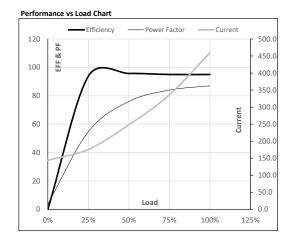
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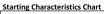
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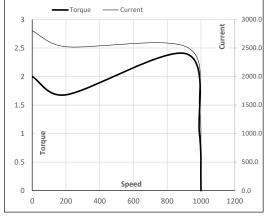
Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	380/660	Δ	50	250	335	459.6	991	245.58	2408.32	IE2	40	S1	1000	11.7080	1862

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	144.0	175.6	247.9	336.0	459.6	
Torque	Nm	0.0	597.8	1198.2	1801.6	2408.3	
Speed	r/min	1000	998	996	993	991	
Efficiency	%	0.0	93.8	95.7	95.0	95.0	
Power Factor	%	3.7	54.7	76.0	84.0	87.0	



Motor Speed Torque Data													
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	200	912	991	1000							
Current	А	2803.4	2523.0	1447.5	459.6	144.0							
Torque	pu	2.0	1.7	2.4	1	0							





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

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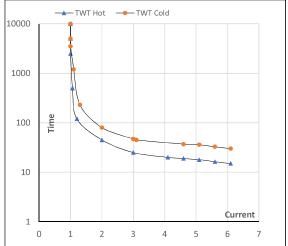
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Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	380/66	50 Δ	50	250	335	459.6	991	245.58	2408.32	IE2	40	S1	1000	11.7080	1862

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	l <sub>3</sub>	$I_4$	ا5	LR
TWT Hot	s	10000	45	25	21	18	17	15
TWT Cold	s	10000	80	47	46	36	33	30
Current	pu	1	2	3	4	5	5.5	6.1

#### Thermal Characteristics Chart



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

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