## **PRODUCT INFORMATION PACKET**

Model No: SCA0041A4141GAA001 Catalog No: SCA0041A4141GAA001 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 380/660 V, 3000 RPM, 112M Frame, TEFC



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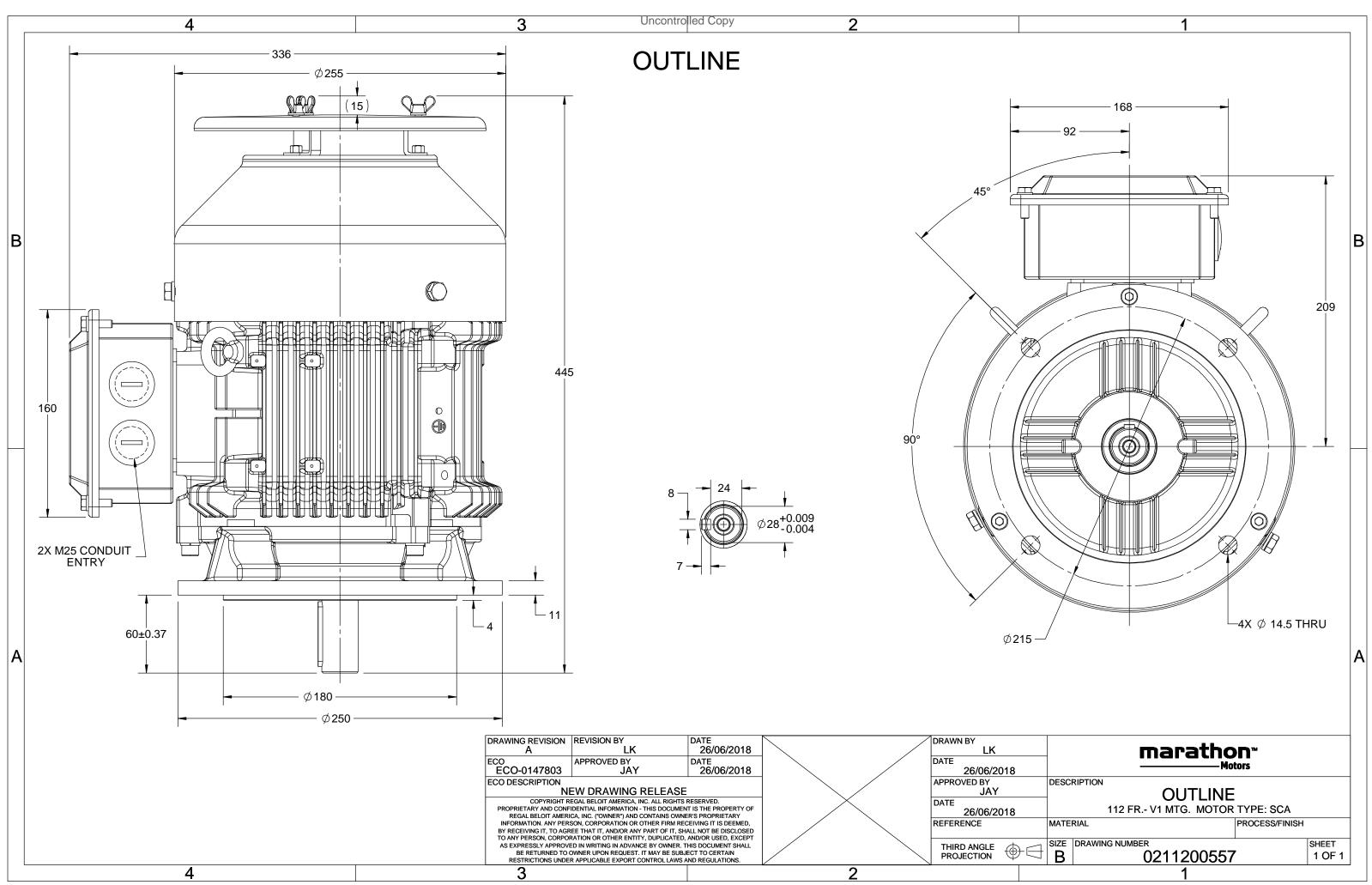
#### Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW		
Frequency	50 Hz	Voltage	380/660 V		
Current	7.6 A	Speed	2864 rpm		
Service Factor	1	Phase	3		
Efficiency	85.8 %	Power Factor	0.93		
Duty	S1	Insulation Class	F		
Frame	112M	Enclosure	Totally Enclosed Fan Cooled		
Frame Thermal Protection	112M 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 6306	Ambient Temperature Opp Drive End Bearing Size	40 °C 6206		

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	445 mm	Frame Length	174 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0211200557

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3 of 7





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#### Model No. SCA0041A4141GAA001

$U  \Delta / Y  f$	Р	Р	I	n	Т	IE	9	6 EFF at	:load		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 Δ 50	4	5.5	7.6	2864	13.66	IE2	-	85.8	85.8	88	0.93	0.9	0.82	6.72	2.7	2.9
Motor type			SCA				Deg	ree of p	protectio	on				IP 55		
Enclosure			TEFC	:			Мо	Mounting type					IM V1			
Frame Material			Cast Iro	on			Cooling method						IC 411			
Frame size			112N	1			Motor weight - approx.						47			kg
Duty			S1				Gross weight - approx.						50			kg
Voltage variation *			± 10%	6			Motor inertia							0.0050		kgm <sup>2</sup>
Frequency variation *			± 5%				Loa	d inerti	а				Custo	omer to Prov	/ide	
Combined variation *			10%				Vibration level						1.6		mm/s	
Design			Ν				Noi	se level	(1mete	er distai	nce fror	n motor	) 66			dB(A)
Service factor			1.0				No. of starts hot/cold/Eq				ally spr	pread 2/3/4				
Insulation class			F				Star	ting me	ethod			DOL				
Ambient temperature			-20 to +	-40		°C	Тур	ype of coupling				Direct				
Temperature rise (by res	sistance)	8	0 [ Clas	s B ]		K	LR v	vithstar	nd time	(hot/co	ld)			10/6		S
Altitude above sea level			1000	)		meter	Dire	ection o	f rotatic	n			В	i-directional		
Hazardous area classifica	ation		NA				Star	ndard ro	otation				Cloc	kwise form	DE	
Zone classifica	ation		NA				Pair	nt shade	9					RAL 5014		
Gas group			NA				Acc	essories	5							
Temperature	class		NA					Acc	essory -	1				-		
Rotor type		Alum	ninum [	Die cast				Accessory - 2						-		
Bearing type		Ant	ti-frictic	on ball				Acc	essory -	3			-			
DE / NDE bearing		6306	5-2Z / 6	5206-2Z			Teri	minal b	ox positi	ion			ТОР			
Lubrication method		Gre	eased fo	or life			Max	kimum	cable siz	e/cond	uit size	1R	R x 3C x 16mm²/2 x M25 x 1.5			
Type of grease			NA				Aux						able on Requ	uest		

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



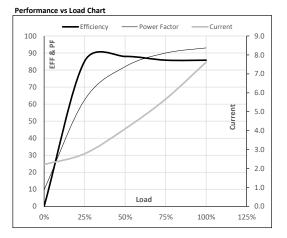
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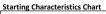
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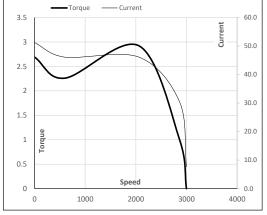
Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	380/660	Δ	50	4	5.5	7.6	2864	1.39	13.66	IE2	40	S1	1000	0.0050	47

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.2	2.8	4.1	5.7	7.6	
Torque	Nm	0.0	3.3	6.7	10.1	13.7	
Speed	r/min	3000	2969	2939	2904	2864	
Efficiency	%	0.0	85.2	88.0	85.8	85.8	
Power Factor	%	9.7	62.5	82.0	90.0	93.0	



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	600	2064	2864	3000					
Current	А	51.2	46.1	30.4	7.6	2.2					
Torque	pu	2.7	2.3	2.9	1	0					





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

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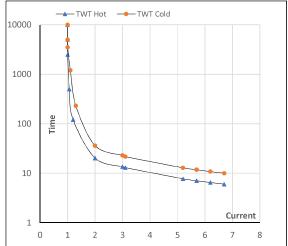
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								IE	Amb	Duty	Elevation	Inertia	Weight
Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
0 Δ	50	4	5.5	7.6	2864	1.39	13.66	IE2	40	S1	1000	0.0050	47
	Conn 0 Δ												

#### Motor Speed Torque Data

motor opec.		ac bata						
Load		FL	$I_1$	$I_2$	$I_3$	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	23	15	10	8	7	6
TWT Cold	s	10000	36	24	17	15	13	10
Current	pu	1	2	3	4	5	5.5	6.7

Thermal Characteristics Chart



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

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