## **PRODUCT INFORMATION PACKET**

Model No: SCA2P22AG141GAA001 Catalog No: SCA2P22AG141GAA001 TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 220/380 V, 1500 RPM, 100L Frame, TEFC



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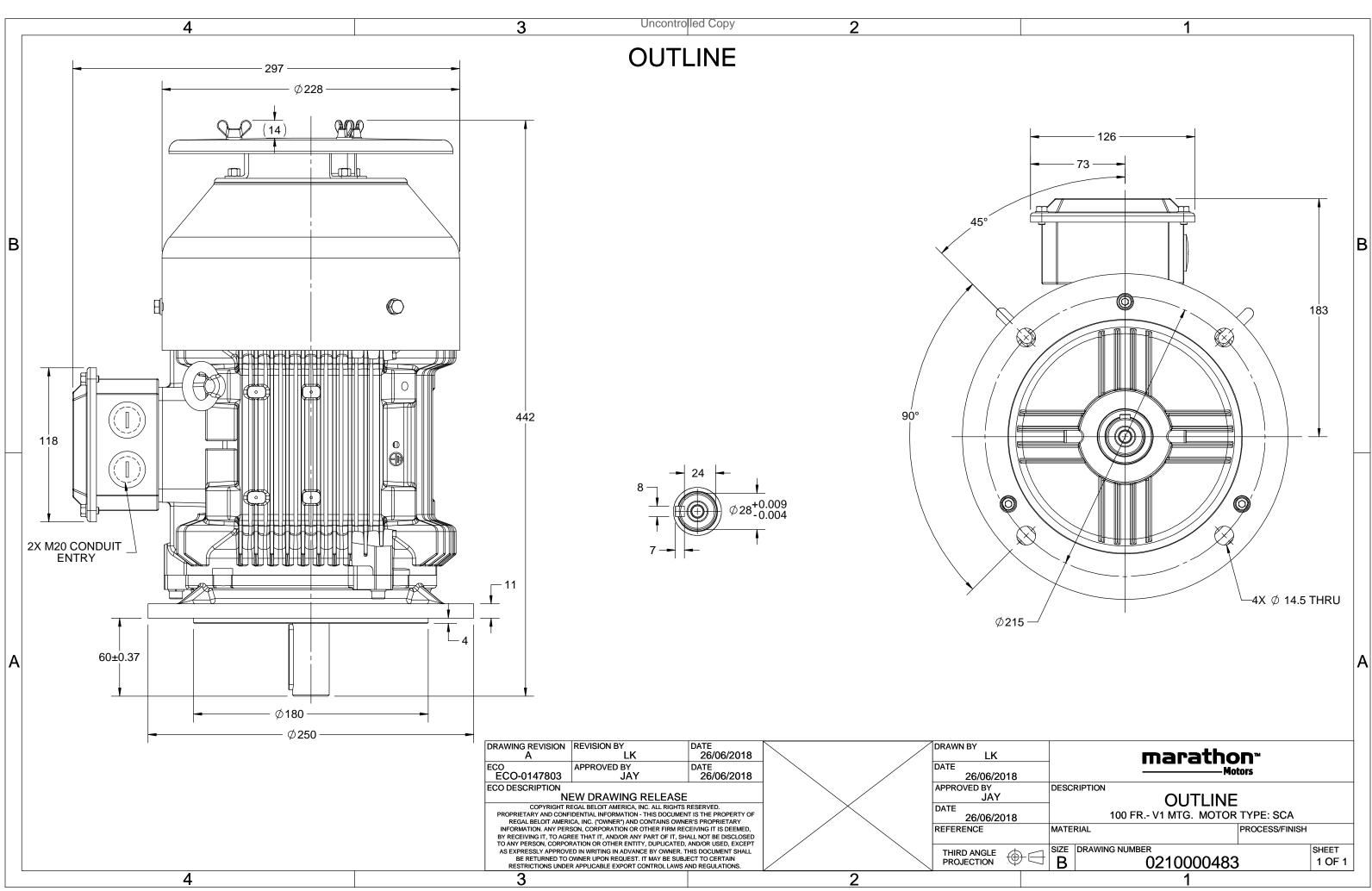
### Nameplate Specifications

Output HP	3 Нр	Output KW	2.2 kW
Frequency	50 Hz	Voltage	220/380 V
Current	4.9 A	Speed	1441 rpm
Service Factor	1	Phase	3
Efficiency	84.3 %	Power Factor	0.81
Duty	S1	Insulation Class	F
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	100L 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 6206	Ambient Temperature Opp Drive End Bearing Size	40 °C 6206

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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	442 mm	Frame Length	200 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0210000483	Connection Drawing	8442000085

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$U \qquad \Delta / Y$	f	Р	Р	I	n	Т	IE	9	6 EFF at	t load	d	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]
220/380 Y	50	2.2	3.0	4.9	1441	14.82	IE2	-	84.3	84.3	82.3	0.81	0.72	0.57	6.4	2.7	3.0
Matartura				SCA				Dee	una of						IP 55		
Motor type Enclosure				TEFC				Degree of protection						IF 55			
Frame Material				Cast Ire				Mounting type Cooling method						IC 411			
Frame size				100L					Motor weight - approx.					38		kg	
Duty				S1						ht - app	-				41		kg
Voltage variation *	k			± 10%	6				tor iner						0.0062		kgm <sup>2</sup>
Frequency variatio				± 5%				Loa	d inerti	а				Custo	omer to Prov	vide	Ū
Combined variatio				10%				Vib	ration l	evel					1.6		mm/s
Design				Ν				Noi	se level	(1mete	er distar	nce fron	n motor	.)	58		dB(A)
Service factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulation class				F				Star	Starting method					DOL			
Ambient temperat	ture			-20 to +	40		°C	Тур	e of co	upling					Direct		
Temperature rise (	(by res	istance	e)	80 [ Clas	s B ]		К	LR v	vithsta	nd time	(hot/co	ld)			15/7		S
Altitude above sea	level			1000			meter	Dire	ection o	of rotatio	on			В	i-directional		

Temperature rise (by resistance)	80 [ Class B ]	к	LR withstand time (hot/cold)	15/7	:
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	6206-2Z / 6206-2Z		Terminal box position	ТОР	
Lubrication method	Greased for life		Maximum cable size/conduit size	1R x 3C x 10mm²/2 x M20 x 1.5	
Type of grease	NA		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 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



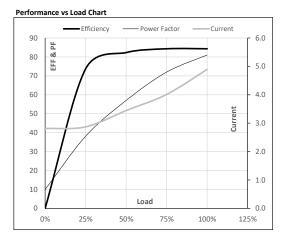
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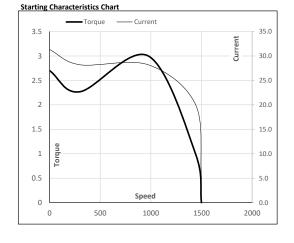
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Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	220/380	Y	50	2.2	3.0	4.9	1441	1.51	14.82	IE2	40	S1	1000	0.0062	38

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.8	2.9	3.4	4.0	4.9	
Torque	Nm	0.0	3.6	7.3	11.0	14.8	
Speed	r/min	1500	1486	1473	1458	1441	
Efficiency	%	0.0	73.7	82.3	84.3	84.3	
Power Factor	%	9.9	38.1	57.0	72.0	81.0	



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	300	975	1441	1500						
Current	А	31.3	28.2	20.1	4.9	2.8						
Torque	pu	2.7	2.3	3.0	1	0						



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

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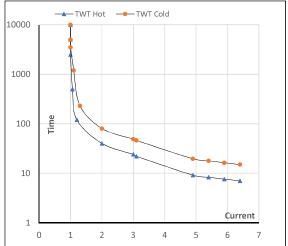
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Enclosure	U	$\Delta / Y$	f	Р	Ρ	Ι	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	220/380	УY	50	2.2	3.0	4.9	1441	1.51	14.82	IE2	40	S1	1000	0.0062	38

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	39	26	15	9	8	7
TWT Cold	s	10000	75	49	35	19	17	15
Current	pu	1	2	3	4	5	5.5	6.4

Thermal Characteristics Chart



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

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