## **PRODUCT INFORMATION PACKET**

Model No: SCA1P13AG141GAA001 Catalog No: SCA1P13AG141GAA001 TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 220/380 V, 1000 RPM, 90L Frame, TEFC



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#### marathon<sup>®</sup> Motors



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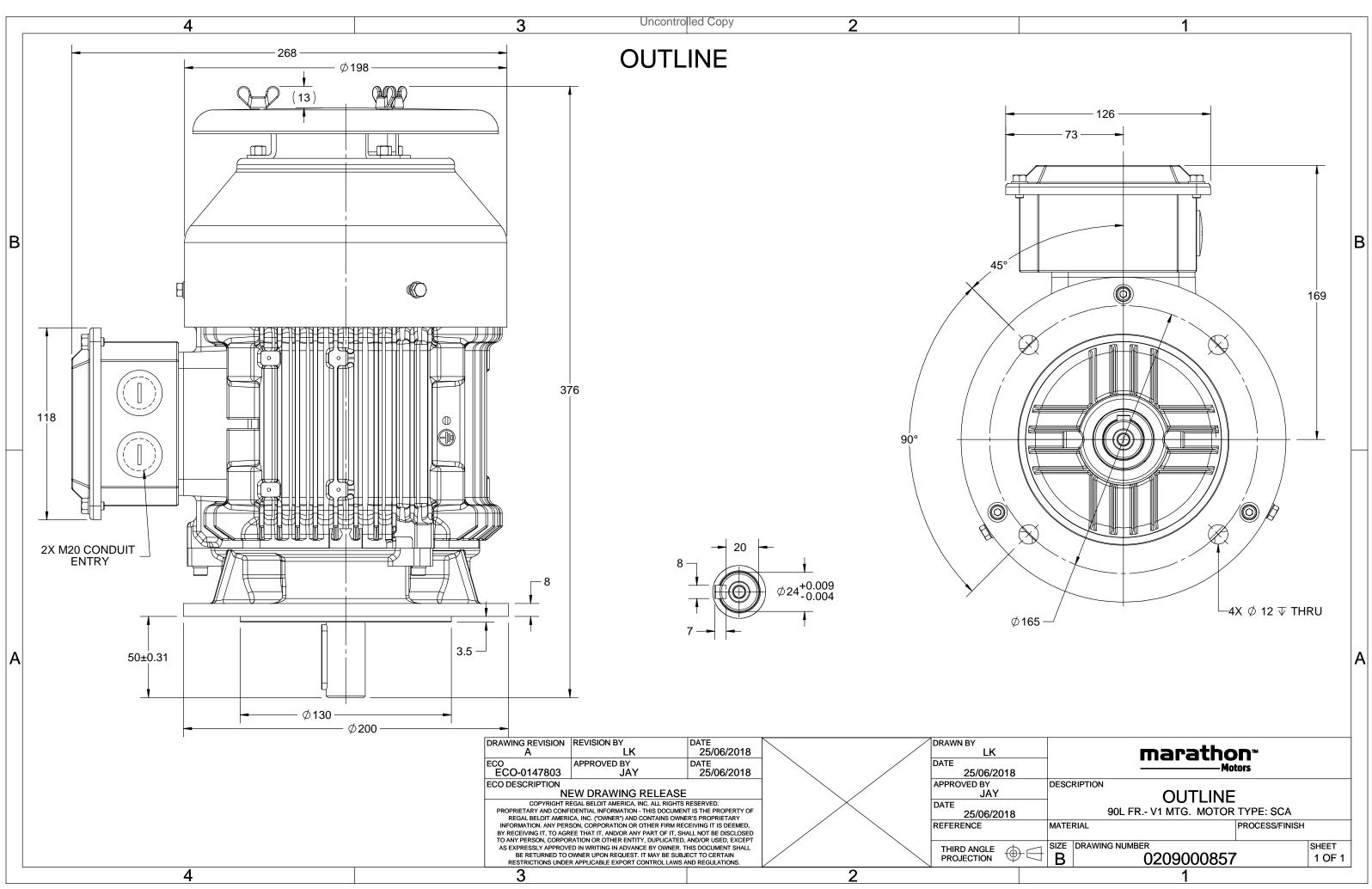
### Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	220/380 V
Current	2.8 A	Speed	912 rpm
Service Factor	1	Phase	3
Efficiency	78.1 %	Power Factor	0.76
Duty	S1	Insulation Class	F
Frame	90L	Enclosure	Totally Enclosed Fan Cooled
Traine	30L	Eliciosarc	Totally Enclosed Fall Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6205	Ambient Temperature Opp Drive End Bearing Size	40 °C 6205

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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	376 mm	Frame Length	153 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0209000857	Connection Drawing	8442000085

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U	$\Delta / Y$	f	Р	Р	I	n	Т	IE	9	6 EFF a	t load	ł	PF	at lo	bad	$I_A/I_N$	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(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	1.1	1.5	2.8	912	11.73	IE2	-	78.1	78.1	77.5	0.76	0.68	0.55	4.1	2.4	2.4

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM V1	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	90L		Motor weight - approx.	27.7	kg
Duty	S1		Gross weight - approx.	28.7	kg
Voltage variation *	± 10%		Motor inertia	0.0048	kgm <sup>2</sup>
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	1.6	mm/s
Design	Ν		Noise level ( 1meter distance from mot	or) 54	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +40	°C	Type of coupling	Direct	
Temperature rise (by resistance)	80 [ Class B ]	К	LR withstand time (hot/cold)	30/15	s
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	6205-2Z / 6205-2Z		Terminal box position	ТОР	
Lubrication method	Greased for life		Maximum cable size/conduit size	LR x 3C x 10mm²/2 x M20 x 1.5	
Type of grease	NA		Auxiliary terminal box	Available on Request	

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

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

 $T_A/T_N$  - 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



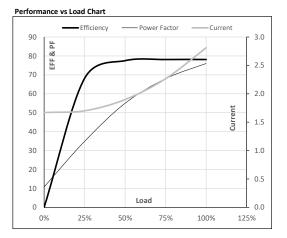
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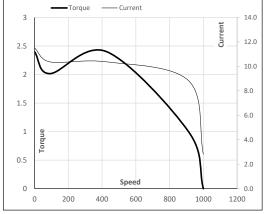
Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	220/380	Y	50	1.1	1.5	2.8	912	1.20	11.73	IE2	40	S1	1000	0.0048	27.7

Motor Load Data	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.7	1.7	1.9	2.3	2.8	
Torque	Nm	0.0	2.7	5.6	8.5	11.7	
Speed	r/min	1000	980	961	939	912	
Efficiency	%	0.0	68.2	77.5	78.1	78.1	
Power Factor	%	10.8	34.9	55.0	68.0	76.0	



Motor Speed T	orque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	428	912	1000	
Current	А	11.5	10.4	8.8	2.8	1.7	
Torque	pu	2.4	2.0	2.4	1	0	





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

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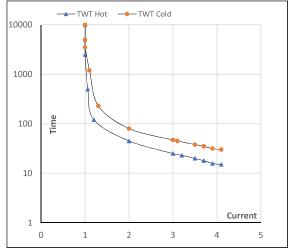
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[kg]	2-								1	Р		t	$\Delta / Y$	0	Enclosure
[kg]	[kg-m <sup>2</sup> ]	[m]		[°C]	Class	[Nm]	[kgm]	[rpm]	[A]	[hp]	[kW]	[Hz]	Conn	(∨)	
27.7	0.0048	1000	S1	40	IE2	11.73	1.20	912	2.8	1.5	1.1	50	Δ 0	220/38	TEFC
	0.0048	1000	51	40	122	11.75	1.20	512	2.0	1.5	1.1	50	.0 1	220,50	TEFC

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	$I_3$	$I_4$	$I_5$	LR
TWT Hot	s	10000	45	30	25	20	16	15
TWT Cold	s	10000	80	55	47	38	32	30
Current	pu	1	2	2.5	3	3.5	4	4.1

### Thermal Characteristics Chart



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

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