PRODUCT INFORMATION PACKET

Model No: SCA1P12AG131GAA001 Catalog No: SCA1P12AG131GAA001 TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 220/380 V, 1500 RPM, 90S Frame, TEFC



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Motors

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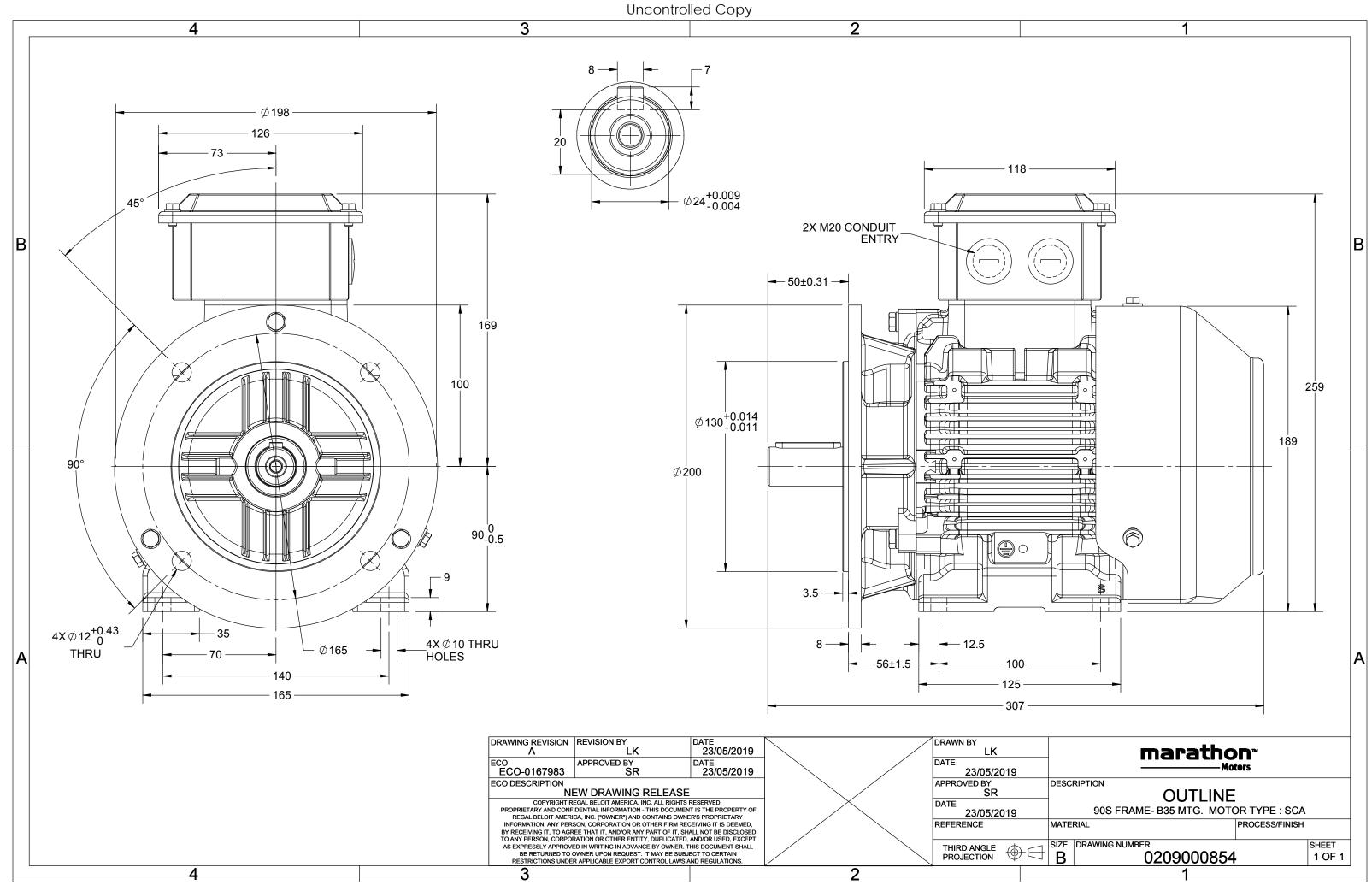
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW		
Frequency	50 Hz	Voltage	220/380 V		
Current	2.6 A	Speed	1438 rpm		
Service Factor	1	Phase	3		
Efficiency	81.4 %	Power Factor	0.80		
Duty	S1	Insulation Class	F		
Frame	90S	Enclosure	Totally Enclosed Fan Cooled		
Frame Thermal Protection	90S 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 6205	Ambient Temperature Opp Drive End Bearing Size	40 °C 6205		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	307 mm	Frame Length	128 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0209000854	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	n	Т	IE	g	% EFF a	t load	ł	PI	Fat_lo	ad	I _A /I _N	T _A /T _N	T _K /T _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	2.6	1438	7.43	IE2	-	81.4	81.4	78.7	0.8	0.72	0.57	6.1	2.6	2.5

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B35	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	90S		Motor weight - approx.	25.0	kg
Duty	S1		Gross weight - approx.	26.0	kg
Voltage variation *	± 10%		Motor inertia	0.0034	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	1.6	mm/s
Design	N		Noise level (1meter distance from moto	or) 56	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)	12/25	s
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
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	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size	.R x 3C x 10mm²/2 x M20 x 1.5	
Type of grease	NA		Auxiliary terminal box	Available on Request	

 I_{A}/I_{N} - Locked Rotor Current / Rated Current T_{A}/T_{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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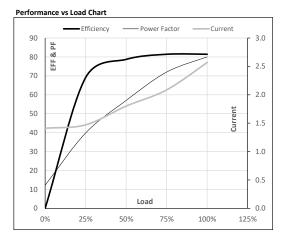
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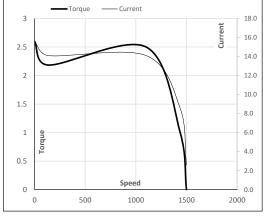
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	220/380	Y	50	1.1	1.5	2.6	1438	0.76	7.43	IE2	40	S1	1000	0.0034	25.0

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.4	1.5	1.8	2.1	2.6	
Torque	Nm	0.0	1.8	3.6	5.5	7.4	
Speed	r/min	1500	1485	1471	1456	1438	
Efficiency	%	0.0	69.1	78.7	81.4	81.4	
Power Factor	%	12.2	39.8	57.0	72.0	80.0	



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	136	1102	1438	1500						
Current	А	15.7	14.1	8.6	2.6	1.4						
Torque	ри	2.6	2.2	2.5	1	0						





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

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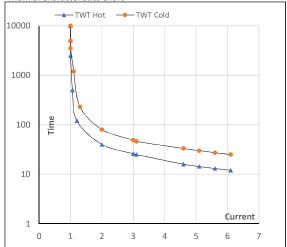
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Enclosure	PPI n T T IE Amb Duty Elevation	Inertia Weight
	N] [hp] [A] [rpm] [kgm] [Nm] Class [°C] [m]	[kg-m ²] [kg]
TEFC	1 1.5 2.6 1438 0.76 7.43 IE2 40 S1 1000	0.0034 25.0
TEFC	1 1.5 2.6 1.55 6.75 7.45 1.22 1.5 51 1.566	0.0034

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	ا5	LR
TWT Hot	s	10000	39	26	19	14	13	12
TWT Cold	s	10000	75	49	36	30	27	25
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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