PRODUCT INFORMATION PACKET

Model No: SCA2P21AG111GAA001 Catalog No: SCA2P21AG111GAA001 TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 220/380 V, 3000 RPM, 90L Frame, TEFC



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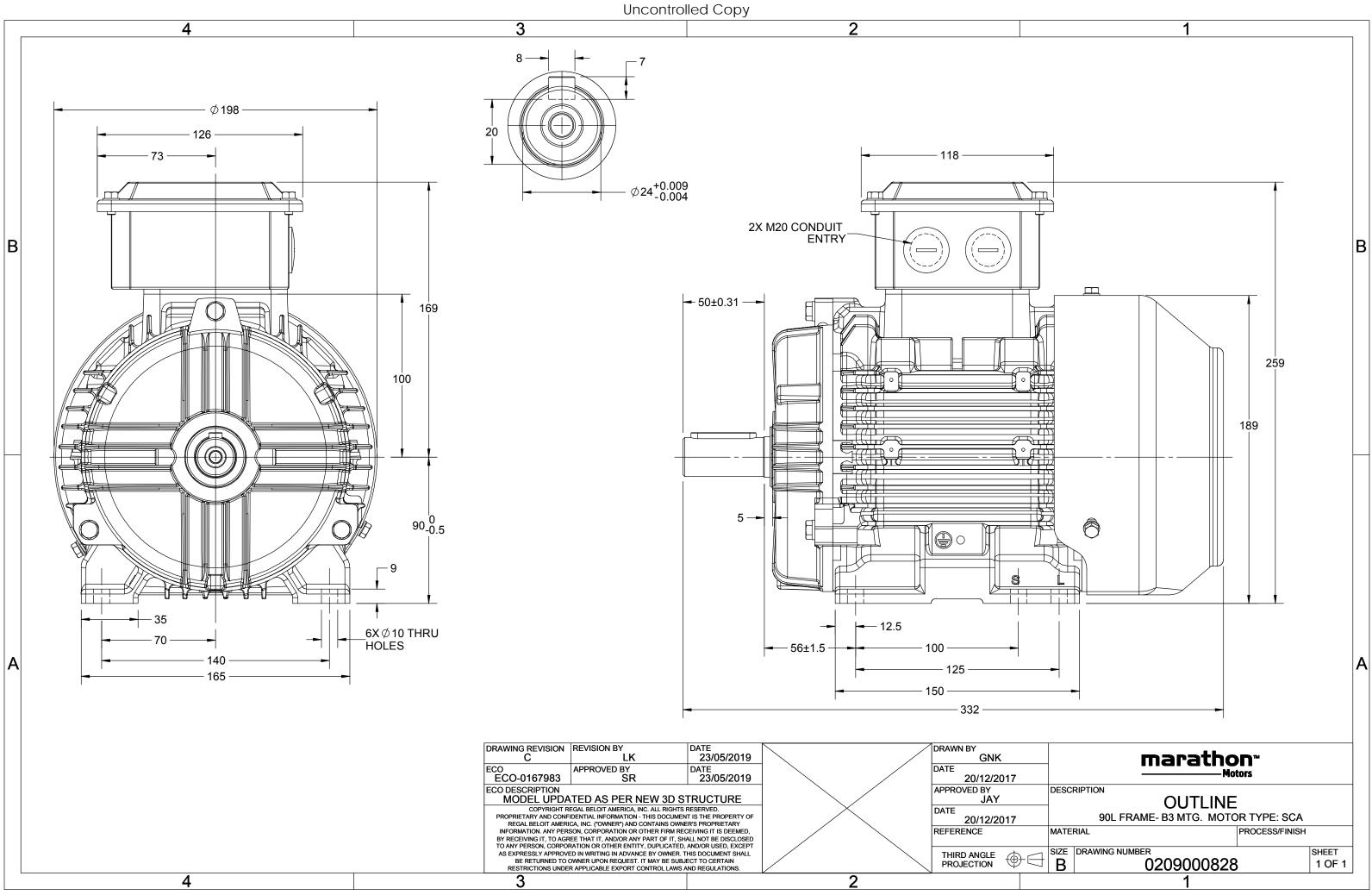
Nameplate Specifications

Output HP	3 Нр	Output KW	2.2 kW
Frequency	50 Hz	Voltage	220/380 V
Current	4.6 A	Speed	2868 rpm
Service Factor	1	Phase	3
Efficiency	83.2 %	Power Factor	0.88
Duty	S1	Insulation Class	F
Frame	90L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE2

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	332 mm	Frame Length	153 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0209000828

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U	Δ / Y	f	Р	Р	I	n	Т	IE	9	6 EFF a	t load	t	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	2.2	3.0	4.6	2868	7.44	IE2	-	83.2	83.2	83	0.88	0.82	0.7	7.2	3.5	3.2
Motor typ	е				SCA				Deg	ree of	protecti	on				IP 55		
Enclosure					TEFC	2			Мо	Mounting type								
Frame Ma	terial				Cast In	on			Cooling method									
Frame size	2				90L				Motor weight - approx.							26.5		kg
Duty					S1				Gross weight - approx.						27.5		kg	
Voltage va	riation	*			± 10%	6			Motor inertia						0.0023		kgm ²	
Frequency	variati	on *			± 5%	,			Load inertia				Cust	omer to Provi	ide			
Combined	variatio	on *			10%	i			Vibration level					1.6		mm/s		
Design					N				Noise level (1meter distance from moto				n motor				dB(A)	
Service fac	ctor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead	2/3/4			
Insulation	class				F				Star	ting m	ethod					DOL		
Ambient t	empera	ture			-20 to +	+40		°C	Тур	e of co	upling					Direct		
Temperat	ure rise	(by res	istance)		80 [Clas	s B]		К	LR v	vithsta	nd time	(hot/co	ld)			6/10		s
Altitude al	bove sea	a level			1000)		meter	Dire	ection c	of rotatio	on			В	Bi-directional		
Hazardous	s area cl	assifica	ation		NA				Star	ndard r	otation				Cloc	ckwise form D	DE	
	Zone o	classific	ation		NA				Pair	nt shad	e					RAL 5014		
	Gas gr	oup			NA				Acce	essorie	s							
	Tempe	erature	class		NA					Acc	cessory -	- 1				-		
Rotor type	9			Alu	ıminum l	Die cast				Acc	cessory ·	- 2				-		
Bearing ty	ре			A	nti-frictio	on ball				Aco	cessory ·	- 3				-		
DE / NDE I	bearing			620)5-2Z / 6	6205-2Z			Terr	minal b	ox posit	ion				TOP		
Lubricatio	n metho	bd		G	reased for	or life			Max	kimum	cable siz	ze/cond	uit size	1R	x 3C x 3	10mm²/2 x M	20 x 1.5	

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

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

Auxiliary terminal box

NOTE

Type of grease

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

NA

* 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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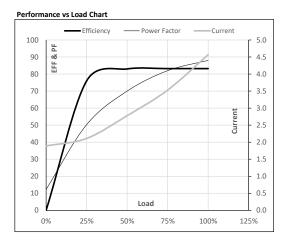
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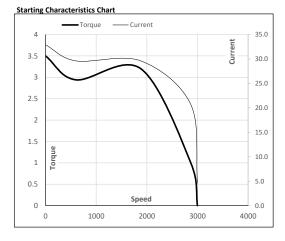
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	220/380	Y	50	2.2	3.0	4.6	2868	0.76	7.44	IE2	40	S1	1000	0.0023	26.5

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.9	2.1	2.8	3.5	4.6	
Torque	Nm	0.0	1.8	3.6	5.5	7.4	
Speed	r/min	3000	2968	2939	2905	2868	
Efficiency	%	0.0	76.0	83.0	83.2	83.2	
Power Factor	%	12.3	50.3	70.0	82.0	88.0	



Motor Speed Torque Data													
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	600	1882	2868	3000							
Current	А	32.9	29.6	20.7	4.6	1.9							
Torque	pu	3.5	2.9	3.2	1	0							



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

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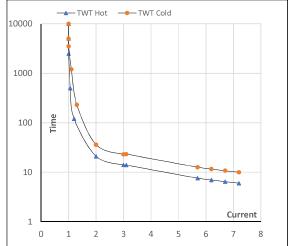
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	2							n	1	Р		t	Δ / Y	0	Enclosure
[kg]	[kg-m ²]	[m]		[°C]	Class	[Nm]	[kgm]	[rpm]	[A]	[hp]	[kW]	[Hz]	Conn	(V)	
26.5	0.0023	1000	S1	40	IE2	7.44	0.76	2868	4.6	3.0	2.2	50) Y	220/380	TEFC
	0.0025	1000	51	10		7.44	0.70	2000	1.0	3.0	2.2	50		220,300	TEFC

Motor Speed Torque Data

Load		FL	I_1	I_2	I_3	I_4	I ₅	LR
TWT Hot	s	10000	21	14	10	8	7	6
TWT Cold	s	10000	36	23	17	15	13	10
Current	pu	1	2	3	4	5	5.5	7.2

Thermal Characteristics Chart



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

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